Air Quality and Greenhouse Gas Background and Modeling Data

AIR QUALITY

Climate/Meteorology

SOUTH COAST AIR BASIN

The project site lies in the South Coast Air Basin (SoCAB), which includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The SoCAB is in a coastal plain with connecting broad valleys and low hills and is bounded by the Pacific Ocean in the southwest quadrant, with high mountains forming the remainder of the perimeter. The general region lies in the semi-permanent high-pressure zone of the eastern Pacific. As a result, the climate is mild, tempered by cool sea breezes. This usually mild weather pattern is interrupted infrequently by periods of extremely hot weather, winter storms, and Santa Ana winds (SCAQMD 2005).

Temperature and Precipitation

The annual average temperature varies little throughout the SoCAB, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The climatological station nearest to the project site is the Los Angeles Downtown USC Campus Station (ID No. 045115). The lowest average low is reported at 48.3°F in January while the highest average high is 83.1°F in August (WRCC 2018).

In contrast to a very steady pattern of temperature, rainfall is seasonally and annually highly variable. Almost all rain falls from October through April. Summer rainfall is normally restricted to widely scattered thundershowers near the coast, with slightly heavier shower activity in the east and over the mountains. Rainfall averages 14.77 inches per year in the project area according to the data from the Los Angeles Downtown USC Campus Station (ID No. 045115) (WRCC 2018).

Humidity

Although the SoCAB has a semiarid climate, the air near the earth's surface is typically moist because of the presence of a shallow marine layer. Except for infrequent periods when dry, continental air is brought into the SoCAB by offshore winds, the "ocean effect" is dominant. Periods of heavy fog, especially along the coast, are frequent. Low clouds, often referred to as high fog, are a characteristic climatic feature. Annual average humidity is 70 percent at the coast and 57 percent in the eastern portions of the SoCAB (SCAQMD 2005).

Wind

Wind patterns across the south coastal region are characterized by westerly or southwesterly onshore winds during the day and by easterly or northeasterly breezes at night. Wind speed is somewhat greater during the dry summer months than during the rainy winter season.

Between periods of wind, periods of air stagnation may occur, both in the morning and evening hours. Air stagnation is one of the critical determinants of air quality conditions on any given day. During the winter and fall months, surface high-pressure systems over the SoCAB, combined with other meteorological conditions, can result in very strong, downslope Santa Ana winds. These winds normally continue a few days before predominant meteorological conditions are reestablished.

The mountain ranges to the east affect the transport and diffusion of pollutants by inhibiting their eastward transport. Air quality in the SoCAB generally ranges from fair to poor and is similar to air quality in most of coastal southern California. The entire region experiences heavy concentrations of air pollutants during prolonged periods of stable atmospheric conditions (SCAQMD 2005).

Inversions

In conjunction with the two characteristic wind patterns that affect the rate and orientation of horizontal pollutant transport, there are two similarly distinct types of temperature inversions that control the vertical depth through which pollutants are mixed. These are the marine/subsidence inversion and the radiation inversion. The combination of winds and inversions are critical determinants in leading to the highly degraded air quality in summer and the generally good air quality in the winter in the project area (SCAQMD 2005).

Air Quality Regulations

The proposed project has the potential to release gaseous emissions of criteria pollutants and dust into the ambient air; therefore, it falls under the ambient air quality standards promulgated at the local, state, and federal levels. The project site is in the SoCAB and is subject to the rules and regulations imposed by the South Coast Air Quality Management District (SCAQMD). However, SCAQMD reports to California Air Resources board (CARB), and all criteria emissions are also governed by the California and national Ambient Air Quality Standards (AAQS). Federal, state, regional, and local laws, regulations, plans, or guidelines that are potentially applicable to the proposed project are summarized below.

AMBIENT AIR QUALITY STANDARDS

The Clean Air Act (CAA) was passed in 1963 by the US Congress and has been amended several times. The 1970 Clean Air Act amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including nonattainment requirements for areas not meeting National AAQS and the Prevention of Significant Deterioration program. The 1990 amendments represent the latest in a series of federal efforts to regulate the protection of air quality in the United States. The CAA allows states to adopt more stringent standards or to include other pollution species. The California Clean Air Act (CCAA), signed into law in 1988, requires all areas of the state

to achieve and maintain the California AAQS by the earliest practical date. The California AAQS tend to be more restrictive than the National AAQS, based on even greater health and welfare concerns.

These National AAQS and California AAQS are the levels of air quality considered to provide a margin of safety in the protection of the public health and welfare. They are designed to protect "sensitive receptors" most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

Both California and the federal government have established health-based AAQS for seven air pollutants. As shown in Table 1, these pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), coarse inhalable particulate matter (PM_{10}), fine inhalable particulate matter ($PM_{2.5}$), and lead (Pb). In addition, the state has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

Table 1 Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
Ozone (O_3)[3]	1 hour	0.09 ppm	*	Motor vehicles, paints, coatings, and solvents.
	8 hours	0.070 ppm	0.070 ppm	
Carbon Monoxide (CO)	1 hour	20 ppm	35 ppm	Internal combustion engines, primarily gasoline-powered motor vehicles.
	8 hours	9.0 ppm	9 ppm	
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	0.030 ppm	0.053 ppm	Motor vehicles, petroleum-refining operations, industrial sources, aircraft, ships, and railroads.
	1 hour	0.18 ppm	0.100 ppm	
Sulfur Dioxide (SO_2)	Annual Arithmetic Mean	*	0.030 ppm	Fuel combustion, chemical plants, sulfur recovery plants, and metal processing.
	1 hour	0.25 ppm	0.075 ppm	
	24 hours	0.04 ppm	0.14 ppm	
Respirable Coarse Particulate Matter (PM_{10})	Annual Arithmetic Mean	20 µg/m^3	*	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).
	24 hours	50 µg/m^3	150 µg/m^3	
Respirable Fine Particulate Matter	Annual Arithmetic Mean	12 µg/m^3	12 µg/m^3	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric

Table 1 Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
($PM_{2.5}$)[4]	24 hours	*	35 µg/m^3	photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).
Lead (Pb)	30-Day Average	1.5 µg/m^3	*	Present source: lead smelters, battery manufacturing & recycling facilities. Past source: combustion of leaded gasoline.
	Calendar Quarter	*	1.5 µg/m^3	
	Rolling 3-Month Average	*	0.15 µg/m^3	
Sulfates (SO_4)[5]	24 hours	25 µg/m^3	*	Industrial processes.
Visibility Reducing Particles	8 hours	ExCo =0.23/km visibility of 10≥ miles	No Federal Standard	Visibility-reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in shape, size and chemical composition, and can be made up of many different materials such as metals, soot, soil, dust, and salt.
Hydrogen Sulfide	1 hour	0.03 ppm	No Federal Standard	Hydrogen sulfide (H_2S) is a colorless gas with the odor of rotten eggs. It is formed during bacterial decomposition of sulfur-containing organic substances. Also, it can be present in sewer gas and some natural gas, and can be emitted as the result of geothermal energy exploitation.
Vinyl Chloride	24 hour	0.01 ppm	No Federal Standard	Vinyl chloride (chloroethene), a chlorinated hydrocarbon, is a colorless gas with a mild, sweet odor. Most vinyl chloride is used to make polyvinyl chloride (PVC) plastic and vinyl products. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites, due to microbial breakdown of chlorinated solvents.

Source: CARB 2016.
Notes: ppm: parts per million; µg/m^3: micrograms per cubic meter
* Standard has not been established for this pollutant/duration by this entity.
1 California standards for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, and particulate matter (PM_{10}, $PM_{2.5}$, 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.
2 National standards (other than O_3, PM, 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 PM_{10}, 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 $PM_{2.5}$, 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.
3 On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
4 On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standard of 15 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
5 On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. The 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

California has also adopted a host of other regulations that reduce criteria pollutant emissions, including:

- AB 1493: Pavley Fuel Efficiency Standards
- Title 20 California Code of Regulations (CCR): Appliance Energy Efficiency Standards
- Title 24, Part 6, CCR: Building and Energy Efficiency Standards
- Title 24, Part 11, CCR: Green Building Standards Code

CRITERIA AIR POLLUTANTS

The air pollutants emitted into the ambient air by stationary and mobile sources are regulated by federal and state law. Air pollutants are categorized as primary or secondary pollutants. Primary air pollutants are those that are emitted directly from sources. Carbon monoxide (CO), volatile organic compounds (VOC), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), coarse inhalable particulate matter (PM_{10}), fine inhalable particulate matter ($PM_{2.5}$), and lead (Pb) are primary air pollutants. Of these, CO, SO_2, NO_2, PM_{10}, and $PM_{2.5}$ are "criteria air pollutants," which means that ambient air quality standards (AAQS) have been established for them. VOC and oxides of nitrogen (NO_x) are air pollutant precursors that form secondary criteria pollutants through chemical and photochemical reactions in the atmosphere. Ozone (O_3) and NO_2 are the principal secondary pollutants. A description of each of the primary and secondary criteria air pollutants and their known health effects is presented below.

Carbon Monoxide (CO) is a colorless, odorless, toxic gas produced by incomplete combustion of carbon substances, such as gasoline or diesel fuel. CO is a primary criteria air pollutant. CO concentrations tend to be the highest during winter mornings with little to no wind, when surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion, engines and motor vehicles operating at slow speeds are the primary source of CO in the SoCAB. The highest ambient CO concentrations are generally found near traffic-congested corridors and intersections. The primary adverse health effect associated with CO is interference with normal oxygen transfer to the blood, which may result in tissue oxygen deprivation (SCAQMD 2005; USEPA 2018a). The SoCAB is designated under the California and National AAQS as being in attainment of CO criteria levels (CARB 2017a).

Volatile Organic Compounds (VOC) are compounds composed primarily of atoms of hydrogen and carbon. Internal combustion associated with motor vehicle usage is the major source of hydrocarbons. Other sources of VOCs include evaporative emissions associated with the use of paints and solvents, the application of asphalt paving, and the use of household consumer products such as aerosols. There are no ambient air quality standards established for VOCs. However, because they contribute to the formation of ozone (O_3), SCAQMD has established a significance threshold for this pollutant (SCAQMD 2005).

Nitrogen Oxides (NO_x) are a byproduct of fuel combustion and contribute to the formation of O_3, PM_{10}, and $PM_{2.5}$. The two major forms of NO_x are nitric oxide (NO) and nitrogen dioxide (NO_2). The principal form of NO_2 produced by combustion is NO, but NO reacts with oxygen to form NO_2, creating the mixture of NO and NO_2 commonly called NO_x. NO_2 acts as an acute irritant and, in equal concentrations, is more injurious than NO. At atmospheric concentrations, however, NO_2 is only potentially irritating. There is some indication of a relationship between NO_2 and chronic pulmonary fibrosis. Some increase in bronchitis in

children (two and three years old) has also been observed at concentrations below 0.3 part per million (ppm). NO_2 absorbs blue light; the result is a brownish-red cast to the atmosphere and reduced visibility. NO is a colorless, odorless gas formed from atmospheric nitrogen and oxygen when combustion takes place under high temperature and/or high pressure (SCAQMD 2005; USEPA 2018a). The SoCAB is designated as an attainment area for NO_2 under the National AAQS California AAQS (CARB 2017a).

Sulfur Dioxide (SO_2) is a colorless, pungent, irritating gas formed by the combustion of sulfurous fossil fuels. It enters the atmosphere as a result of burning high-sulfur-content fuel oils and coal and from chemical processes at chemical plants and refineries. Gasoline and natural gas have very low sulfur content and do not release significant quantities of SO_2 (SCAQMD 2005; USEPA 2018a). When sulfur dioxide forms sulfates (SO_4) in the atmosphere, together these pollutants are referred to as sulfur oxides (SO_X). Thus, SO_2 is both a primary and secondary criteria air pollutant. At sufficiently high concentrations, SO_2 may irritate the upper respiratory tract. At lower concentrations and when combined with particulates, SO_2 may do greater harm by injuring lung tissue. The SoCAB is designated as attainment under the California and National AAQS (CARB 2017a).

Suspended Particulate Matter (PM_{10} and $PM_{2.5}$) consists of finely divided solids or liquids such as soot, dust, aerosols, fumes, and mists. Two forms of fine particulates are now recognized and regulated. Inhalable coarse particles, or PM_{10}, include the particulate matter with an aerodynamic diameter of 10 microns (i.e., 10 millionths of a meter or 0.0004 inch) or less. Inhalable fine particles, or $PM_{2.5}$, have an aerodynamic diameter of 2.5 microns (i.e., 2.5 millionths of a meter or 0.0001 inch) or less. Particulate discharge into the atmosphere results primarily from industrial, agricultural, construction, and transportation activities. However, wind action on arid landscapes also contributes substantially to local particulate loading (i.e., fugitive dust). Both PM_{10} and $PM_{2.5}$ may adversely affect the human respiratory system, especially in people who are naturally sensitive or susceptible to breathing problems (SCAQMD 2005).

The US Environmental Protection Agency's (EPA) scientific review concluded that $PM_{2.5}$, which penetrates deeply into the lungs, is more likely than PM_{10} to contribute to health effects and at concentrations that extend well below those allowed by the current PM_{10} standards. These health effects include premature death and increased hospital admissions and emergency room visits (primarily the elderly and individuals with cardiopulmonary disease); increased respiratory symptoms and disease (children and individuals with cardiopulmonary disease such as asthma); decreased lung functions (particularly in children and individuals with asthma); and alterations in lung tissue and structure and in respiratory tract defense mechanisms (SCAQMD 2005). There has been emerging evidence that even smaller particulates with an aerodynamic diameter of <0.1 microns or less (i.e., ≤ 0.1 millionths of a meter or <0.000004 inch), known as ultrafine particulates (UFPs), have human health implications, because UFPs toxic components may initiate or facilitate biological processes that may lead to adverse effects to the heart, lungs, and other organs (SCAQMD 2016). However, the EPA or CARB have yet to adopt AAQS to regulate these particulates. Diesel particulate matter (DPM) is classified by the CARB as a carcinogen (CARB 1998). Particulate matter can also cause environmental effects such as visibility impairment,[1] environmental damage,[2] and aesthetic damage[3]

[1] $PM_{2.5}$ is the main cause of reduced visibility (haze) in parts of the United States.

(SCAQMD 2005; USEPA 2018a). The SoCAB is a nonattainment area for $PM_{2.5}$ under California and National AAQS and a nonattainment area for PM_{10} under the California AAQS (CARB 2017a).[4]

Ozone (O_3) is commonly referred to as "smog" and is a gas that is formed when VOCs and NO_x, both by-products of internal combustion engine exhaust, undergo photochemical reactions in the presence of sunlight. O_3 is a secondary criteria air pollutant. O_3 concentrations are generally highest during the summer months when direct sunlight, light winds, and warm temperatures create favorable conditions for the formation of this pollutant. O_3 poses a health threat to those who already suffer from respiratory diseases as well as to healthy people. Breathing O_3 can trigger a variety of health problems, including chest pain, coughing, throat irritation, and congestion. It can worsen bronchitis, emphysema, and asthma. Ground-level O_3 also can reduce lung function and inflame the linings of the lungs. Repeated exposure may permanently scar lung tissue. O_3 also affects sensitive vegetation and ecosystems, including forests, parks, wildlife refuges, and wilderness areas. In particular, O_3 harms sensitive vegetation during the growing season (SCAQMD 2005; USEPA 2018a). The SoCAB is designated as extreme nonattainment under the California AAQS (1-hour and 8-hour) and National AAQS (8-hour) (CARB 2017a).

Lead (Pb) is a metal found naturally in the environment as well as in manufactured products. Once taken into the body, lead distributes throughout the body in the blood and accumulates in the bones. Depending on the level of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems, and the cardiovascular system. Lead exposure also affects the oxygen-carrying capacity of the blood. The effects of lead most commonly encountered in current populations are neurological effects in children and cardiovascular effects in adults (e.g., high blood pressure and heart disease). Infants and young children are especially sensitive to even low levels of lead, which may contribute to behavioral problems, learning deficits, and lowered IQ (SCAQMD 2005; USEPA 2018a). The major sources of lead emissions have historically been mobile and industrial sources. As a result of the EPA's regulatory efforts to remove lead from gasoline, emissions of lead from the transportation sector dramatically declined by 95 percent between 1980 and 1999, and levels of lead in the air decreased by 94 percent between 1980 and 1999. Today, the highest levels of lead in air are usually found near lead smelters. The major sources of lead emissions today are ore and metals processing and piston-engine aircraft operating on leaded aviation gasoline. However, in 2008 the EPA and CARB adopted stricter lead standards, and special monitoring sites immediately downwind of lead sources recorded very localized violations of the new state and federal standards.[5] As a result of these violations, the Los Angeles County portion of the SoCAB is designated nonattainment under the National AAQS for lead (SCAQMD 2012; CARB 2017a). Because emissions of

[2] Particulate matter can be carried over long distances by wind and then settle on ground or water, making lakes and streams acidic; changing the nutrient balance in coastal waters and large river basins; depleting the nutrients in soil; damaging sensitive forests and farm crops; and affecting the diversity of ecosystems.

[3] Particulate matter can stain and damage stone and other materials, including culturally important objects such as statues and monuments.

[4] CARB approved the SCAQMD's request to redesignate the SoCAB from serious nonattainment for PM_{10} to attainment for PM_{10} under the National AAQS on March 25, 2010, because the SoCAB has not violated federal 24-hour PM_{10} standards during the period from 2004 to 2007. In June 2013, the EPA approved the State of California's request to redesignate the PM_{10} nonattainment area to attainment of the PM_{10} National AAQS, effective on July 26, 2013.

[5] Source-oriented monitors record concentrations of lead at lead-related industrial facilities in the SoCAB, which include Exide Technologies in the City of Commerce; Quemetco, Inc., in the City of Industry; Trojan Battery Company in Santa Fe Springs; and Exide Technologies in Vernon. Monitoring conducted between 2004 through 2007 showed that the Trojan Battery Company and Exide Technologies exceed the federal standards (SCAQMD 2012).

lead are found only in projects that are permitted by SCAQMD, lead is not a pollutant of concern for the project.

TOXIC AIR CONTAMINANTS

The public's exposure to air pollutants classified as toxic air contaminants (TACs) is a significant environmental health issue in California. In 1983, the California Legislature enacted a program to identify the health effects of TACs and to reduce exposure to these contaminants to protect the public health. The California Health and Safety Code defines a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a hazardous air pollutant (HAP) pursuant to Section 112(b) of the federal Clean Air Act (42 United States Code §7412[b]) is a toxic air contaminant. Under state law, the California Environmental Protection Agency (Cal/EPA), acting through CARB, is authorized to identify a substance as a TAC if it determines that the substance is an air pollutant that may cause or contribute to an increase in mortality or to an increase in serious illness, or may pose a present or potential hazard to human health.

California regulates TACs primarily through Assembly Bill (AB) 1807 (Tanner Air Toxics Act) and AB 2588 (Air Toxics "Hot Spot" Information and Assessment Act of 1987). The Tanner Air Toxics Act sets forth a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an "airborne toxics control measure" for sources that emit designated TACs. If there is a safe threshold for a substance (i.e., a point below which there is no toxic effect), the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology to minimize emissions. To date, CARB has established formal control measures for 11 TACs, all of which are identified as having no safe threshold.

Air toxics from stationary sources are also regulated in California under the Air Toxics "Hot Spot" Information and Assessment Act of 1987. Under AB 2588, toxic air contaminant emissions from individual facilities are quantified and prioritized by the air quality management district or air pollution control district. High priority facilities are required to perform a health risk assessment and, if specific thresholds are exceeded, are required to communicate the results to the public in the form of notices and public meetings.

By the last update to the TAC list in December 1999, CARB had designated 244 compounds as TACs (CARB 1999). Additionally, CARB has implemented control measures for a number of compounds that pose high risks and show potential for effective control. The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from diesel-fueled engines.

Diesel Particulate Matter

In 1998, CARB identified particulate emissions from diesel-fueled engines (diesel PM) as a TAC. Previously, the individual chemical compounds in diesel exhaust were considered TACs. Almost all diesel exhaust particle mass is 10 microns or less in diameter. Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung.

CARB has promulgated the following specific rules to limit TAC emissions:

- 13 CCR Chapter 10, Section 2485, Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling
- 13 CCR Chapter 10, Section 2480, Airborne Toxic Control Measure to Limit School Bus Idling and Idling at Schools
- 13 CCR Section 2477 and Article 8, Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets and Facilities Where TRUs Operate

Community Risk

In addition, to reduce exposure to TACs, CARB developed and approved the *Air Quality and Land Use Handbook: A Community Health Perspective* (2005) to provide guidance regarding the siting of sensitive land uses in the vicinity of freeways, distribution centers, rail yards, ports, refineries, chrome-plating facilities, dry cleaners, and gasoline-dispensing facilities. This guidance document was developed to assess compatibility and associated health risks when placing sensitive receptors near existing pollution sources. CARB's recommendations on the siting of new sensitive land uses were based on a compilation of recent studies that evaluated data on the adverse health effects from proximity to air pollution sources. The key observation in these studies is that proximity to air pollution sources substantially increases exposure and the potential for adverse health effects. There are three carcinogenic toxic air contaminants that constitute the majority of the known health risks from motor vehicle traffic, DPM from trucks, and benzene and 1,3 butadiene from passenger vehicles. CARB recommendations are based on data that show that localized air pollution exposures can be reduced by as much as 80 percent by following CARB minimum distance separations.

Multiple Airborne Toxics Exposure Study (MATES)

The Multiple Air Toxics Exposure Study (MATES) is a monitoring and evaluation study on ambient concentrations of TACs and estimated the potential health risks from air toxics in the SoCAB. In 2008, SCAQMD conducted its third update to the MATES study (MATES III). The results showed that the overall risk for excess cancer from a lifetime exposure to ambient levels of air toxics was about 1,200 in a million. The largest contributor to this risk was diesel exhaust, accounting for 84 percent of the cancer risk (SCAQMD 2008a).

SCAQMD recently released the fourth update (MATES IV). The results showed that the overall monitored risk for excess cancer from a lifetime exposure to ambient levels of air toxics decreased to approximately 418 in one million. Compared to the 2008 MATES III, monitored excess cancer risks decreased by approximately 65 percent. Approximately 90 percent of the risk is attributed to mobile sources while 10 percent is attributed to TACs from stationary sources, such as refineries, metal processing facilities, gas stations, and chrome plating facilities. The largest contributor to this risk was diesel exhaust, accounting for approximately 68 percent of the air toxics risk. Compared to MATES III, MATES IV found substantial improvement in air quality and associated decrease in air toxics exposure. As a result, the estimated basin-wide population-weighted risk decreased by approximately 57 percent compared to the analysis done for the MATES III time period (SCAQMD 2015a).

The Office of Environmental Health Hazard Assessment (OEHHA) updated the guidelines for estimating cancer risks on March 6, 2015. The new method utilizes higher estimates of cancer potency during early life exposures, which result in a higher calculation of risk. There are also differences in the assumptions on breathing rates and length of residential exposures. When combined together, SCAQMD estimates that risks for a given inhalation exposure level will be about 2.7 times higher using the proposed updated methods identified in MATES IV (e.g., 2.7 times higher than 418 in one million overall excess cancer risk) (SCAQMD 2015a).

Air Quality Management Planning

SCAQMD is the agency responsible for preparing the air quality management plan (AQMP) for the SoCAB in coordination with the Southern California Association of Governments (SCAG). Since 1979, a number of AQMPs have been prepared.

2016 AQMP

On March 3, 2017, SCAQMD adopted the 2016 AQMP as an update to the 2012 AQMP. The 2016 AQMP addresses strategies and measures to attain the following National AAQS:

- 2008 National 8-hour ozone standard by 2031,
- 2012 National annual $PM_{2.5}$ standard by 2025[6],
- 2006 National 24-hour $PM_{2.5}$ standard by 2019,
- 1997 National 8-hour ozone standard by 2023, and the
- 1979 National 1-hour ozone standard by year 2022.

It is projected that total NO_X emissions in the SoCAB would need to be reduced to 150 tons per day (tpd) by year 2023 and to 100 tpd in year 2031 to meet the 1997 and 2008 federal 8-hour ozone standards. The strategy to meet the 1997 federal 8-hour ozone standard would also lead to attaining the 1979 federal 1-hour ozone standard by year 2022 (SCAQMD 2017), which requires reducing NO_X emissions in the SoCAB to 250 tpd. This is approximately 45 percent additional reductions above existing regulations for the 2023 ozone standard and 55 percent additional reductions above existing regulations to meet the 2031 ozone standard.

Reducing NO_X emissions would also reduce $PM_{2.5}$ concentrations in the SoCAB. However, as the goal is to meet the 2012 federal annual $PM_{2.5}$ standard no later than year 2025, SCAQMD is seeking to reclassify the SoCAB from "moderate" to "serious" nonattainment under this federal standard. A "moderate" non-attainment would require meeting the 2012 federal standard by no later than 2021.

Overall, the 2016 AQMP is composed of stationary and mobile-source emission reductions from regulatory control measures, incentive-based programs, co-benefits from climate programs, mobile-source strategies, and reductions from federal sources such as aircrafts, locomotives, and ocean-going vessels. Strategies outlined in the 2016 AQMP would be implemented in collaboration between CARB and the EPA (SCAQMD 2017).

[6] The 2016 AQMP requests a reclassification from moderate to serious non-attainment for the 2012 National $PM_{2.5}$ standard.

LEAD STATE IMPLEMENTATION PLAN

In 2008 EPA designated the Los Angeles County portion of the SoCAB nonattainment under the federal lead (Pb) classification due to the addition of source-specific monitoring under the new federal regulation. This designation was based on two source-specific monitors in Vernon and the City of Industry exceeding the new standard. The rest of the SoCAB, outside the Los Angeles County nonattainment area remains in attainment of the new standard. On May 24, 2012, CARB approved the SIP revision for the federal lead standard, which the EPA revised in 2008. Lead concentrations in this nonattainment area have been below the level of the federal standard since December 2011. The SIP revision was submitted to EPA for approval.

AREA DESIGNATIONS

The AQMP provides the framework for air quality basins to achieve attainment of the state and federal ambient air quality standards through the State Implementation Plan (SIP). Areas are classified as attainment or nonattainment areas for particular pollutants, depending on whether they meet ambient air quality standards. Severity classifications for ozone nonattainment range in magnitude from marginal, moderate, and serious to severe and extreme.

- **Unclassified:** a pollutant is designated unclassified if the data are incomplete and do not support a designation of attainment or nonattainment.
- **Attainment:** a pollutant is in attainment if the CAAQS for that pollutant was not violated at any site in the area during a three-year period.
- **Nonattainment:** a pollutant is in nonattainment if there was at least one violation of a state AAQS for that pollutant in the area.
- **Nonattainment/Transitional:** a subcategory of the nonattainment designation. An area is designated nonattainment/transitional to signify that the area is close to attaining the AAQS for that pollutant.

The attainment status for the SoCAB is shown in Table 2. The SoCAB is designated in attainment of the California AAQS for sulfates. The SoCAB is designated as nonattainment for lead (Los Angeles County only) under the National AAQS.

Table 2 Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
Ozone – 1-hour	Extreme Nonattainment	No Federal Standard
Ozone – 8-hour	Extreme Nonattainment	Extreme Nonattainment
PM_{10}	Serious Nonattainment	Attainment/Maintenance
$PM_{2.5}$	Nonattainment	Nonattainment[1]
CO	Attainment	Attainment
NO_2	Attainment	Attainment/Maintenance
SO_2	Attainment	Attainment
Lead	Attainment	Nonattainment (Los Angeles County only)[2]

Table 2 Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
All others	Attainment/Unclassified	Attainment/Unclassified

Source: CARB 2017a.
[1] SCAQMD is seeking to reclassify the SoCAB from "moderate" to "serious" nonattainment under federal $PM_{2.5}$ standard.
[2] In 2010, the Los Angeles portion of the SoCAB was designated nonattainment for lead under the new federal and existing state AAQS as a result of large industrial emitters. Remaining areas in the SoCAB are unclassified.

Existing Ambient Air Quality

Existing levels of ambient air quality and historical trends and projections in the vicinity of the project site are best documented by measurements taken by the SCAQMD. The project site is in Source Receptor Area (SRA) 12 – South Central Los Angeles County. The air quality monitoring station closest to the project site is the Compton-700 North Bullis Road Monitoring Station. This station monitors O_3, NO_2, and $PM_{2.5}$.. Data for PM_{10} is supplemented by the Los Angeles-North Main Street Monitoring Station. Data for CO and SO_2 is unavailable for Los Angeles County. The most current five years of data monitored at these monitoring stations are included in Table 3. The data show recurring violations of both the state and federal O_3 standards. The data also indicate that the area consistently exceeds the state PM_{10} standards and federal $PM_{2.5}$ standard.

Table 3 Ambient Air Quality Monitoring Summary

	Number of Days Threshold Were Exceeded and Maximum Levels during Such Violations				
Pollutant/Standard	**2013**	**2014**	**2015**	**2016**	**2017**
Ozone (O_3) [1]					
State 1-Hour ≥ 0.09 ppm (days exceed threshold)	0	0	0	1	0
State 8-hour ≥ 0.07 ppm (days exceed threshold)	1	4	1	1	5
Federal 8-Hour > 0.075 ppm (days exceed threshold)	1	2	0	0	1
Max. 1-Hour Conc. (ppm)	0.090	0.094	0.091	0.098	0.092
Max. 8-Hour Conc. (ppm)	0.080	0.081	0.072	0.071	0.076
Nitrogen Dioxide (NO_2) [1]					
State 1-Hour ≥ 0.18 ppm (days exceed threshold)	0	0	0	0	0
Federal 1-Hour ≥ 0.100 ppm (days exceed threshold)	0	0	0	0	0
Max. 1-Hour Conc. (ppm)	0.070	0.068	0.074	0.064	0.099
Coarse Particulates (PM_{10}) [2]					
State 24-Hour > 50 µg/m^3 (days exceed threshold)	20	38	30	*	*
Federal 24-Hour > 150 µg/m^3 (days exceed threshold)	0	0	0	0	0
Max. 24-Hour Conc. (µg/m^3)	57	66	73	64	65
Fine Particulates ($PM_{2.5}$) [1]					
Federal 24-Hour > 35 µg/m^3 (days exceed threshold)	1	1	3	1	5
Max. 24-Hour Conc. (µg/m^3)	52.1	35.8	41.3	36.3	66.7

Source: CARB 2018a.
ppm: parts per million; parts per billion, µg/m^3: micrograms per cubic meter
Notes: * Data not available.
[1] Data obtained from the Compton-700 North Bullis Road.
[2] Data obtained from the Los Angeles-North Main Street.

Sensitive Receptors

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Sensitive population groups include children, the elderly, the acutely ill, and the chronically ill, especially those with cardio-respiratory diseases.

Residential areas are also considered to be sensitive receptors to air pollution because residents (including children and the elderly) tend to be at home for extended periods of time, resulting in sustained exposure to any pollutants present. Schools are also considered sensitive receptors, as children are present for extended durations and engage in regular outdoor activities. Recreational land uses are considered moderately sensitive to air pollution. Although exposure periods are generally short, exercise places a high demand on respiratory functions, which can be impaired by air pollution. In addition, noticeable air pollution can detract from the enjoyment of recreation. Industrial and commercial areas are considered the least sensitive to air pollution. Exposure periods are relatively short and intermittent, as the majority of the workers tend to stay indoors most of the time. In addition, the working population is generally the healthiest segment of the public. The nearest sensitive receptors to the proposed project site are the single-family and multi-family residences across the street, surrounding the project area.

Methodology

Projected construction-related air pollutant emissions are calculated using the California Emissions Estimator Model (CalEEMod), Version 2016.3.2. CalEEMod compiles an emissions inventory of construction (fugitive dust, off-gas emissions, on-road emissions, and off-road emissions), area sources, indirect emissions from energy use, mobile sources, indirect emissions from waste disposal (annual only), and indirect emissions from water/wastewater (annual only) use. The calculated emissions of the project are compared to thresholds of significance for individual projects using the SCAQMD's CEQA Air Quality Analysis Guidance Handbook.

Thresholds of Significance

The analysis of the proposed project's air quality impacts follows the guidance and methodologies recommended in SCAQMD's *CEQA Air Quality Handbook* and the significance thresholds on SCAQMD's website (SCAQMD 1993).[7] CEQA allows the significance criteria established by the applicable air quality management or air pollution control district to be used to assess impacts of a project on air quality. SCAQMD has established thresholds of significance for regional air quality emissions for construction activities and project operation. In addition to the daily thresholds listed above, projects are also subject to the AAQS. These are addressed though an analysis of localized CO impacts and localized significance thresholds (LSTs).

[7] SCAQMD's Air Quality Significance Thresholds are current as of March 2015 and can be found here: http://www.aqmd.gov/ceqa/hdbk.html.

REGIONAL SIGNIFICANCE THRESHOLDS

SCAQMD has adopted regional construction and operational emissions thresholds to determine a project's cumulative impact on air quality in the SoCAB. Table 4 lists SCAQMD's regional significance thresholds that are applicable for all projects uniformly regardless of size or scope. There is growing evidence that although ultrafine particulates contribute a very small portion of the overall atmospheric mass concentration, they represent a greater proportion of the health risk from PM. However, the EPA or CARB have not yet adopted AAQS to regulate ultrafine particulates; therefore, SCAQMD has not developed thresholds for them.

Table 4 SCAQMD Significance Thresholds

Air Pollutant	Construction Phase	Operational Phase
Reactive Organic Gases (ROGs)/ Volatile Organic Compounds (VOCs)	75 lbs/day	55 lbs/day
Nitrogen Oxides (NO_X)	100 lbs/day	55 lbs/day
Carbon Monoxide (CO)	550 lbs/day	550 lbs/day
Sulfur Oxides (SO_X)	150 lbs/day	150 lbs/day
Particulates (PM_{10})	150 lbs/day	150 lbs/day
Particulates ($PM_{2.5}$)	55 lbs/day	55 lbs/day

Source: SCAQMD 2015b.

Projects that exceed the regional significance threshold contribute to the nonattainment designation of the SoCAB. The attainment designations are based on the AAQS, which are set at levels of exposure that are determined to not result in adverse health. Exposure to fine particulate pollution and ozone causes myriad health impacts, particularly to the respiratory and cardiovascular systems:

- Linked to increased cancer risk ($PM_{2.5}$, TACs)
- Aggravates respiratory disease (O_3, $PM_{2.5}$)
- Increases bronchitis (O_3, $PM_{2.5}$)
- Causes chest discomfort, throat irritation, and increased effort to take a deep breath (O_3)
- Reduces resistance to infections and increases fatigue (O_3)
- Reduces lung growth in children ($PM_{2.5}$)
- Contributes to heart disease and heart attacks ($PM_{2.5}$)
- Contributes to premature death (O_3, $PM_{2.5}$)
- Linked to lower birth weight in newborns ($PM_{2.5}$) (SCAQMD 2015c)

Exposure to fine particulates and ozone aggravates asthma attacks and can amplify other lung ailments such as emphysema and chronic obstructive pulmonary disease. Exposure to current levels of $PM_{2.5}$ is responsible for an estimated 4,300 cardiopulmonary-related deaths per year in the SoCAB. In addition, University of Southern California scientists responsible for a landmark children's health study found that lung growth improved as air pollution declined for children aged 11 to 15 in five communities in the SoCAB (SCAQMD 2015d).

Mass emissions in Table 4 are not correlated with concentrations of air pollutants but contribute to the cumulative air quality impacts in the SoCAB. Therefore, regional emissions from a single project do not single-handedly trigger a regional health impact. SCAQMD is the primary agency responsible for ensuring the health and welfare of sensitive individuals to elevated concentrations of air quality in the SoCAB. To achieve the health-based standards established by the EPA, SCAQMD prepares an AQMP that details regional programs to attain the AAQS.

CO HOTSPOTS

Areas of vehicle congestion have the potential to create pockets of CO called hot spots. These pockets have the potential to exceed the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm. Because CO is produced in greatest quantities from vehicle combustion and does not readily disperse into the atmosphere, adherence to ambient air quality standards is typically demonstrated through an analysis of localized CO concentrations. Hot spots are typically produced at intersections, where traffic congestion is highest because vehicles queue for longer periods and are subject to reduced speeds. With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations in the SoCAB and in the state have steadily declined.

In 2007, the SoCAB was designated in attainment for CO under both the California AAQS and National AAQS. The CO hot spot analysis conducted for the attainment by SCAQMD for busiest intersections in Los Angeles during the peak morning and afternoon periods plan did not predict a violation of CO standards. [8] As identified in SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SoCAB in previous years, prior to redesignation, were a result of unusual meteorological and topographical conditions and not a result of congestion at a particular intersection. Under existing and future vehicle emission rates, a project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (BAAQMD 2017).

LOCALIZED SIGNIFICANCE THRESHOLDS

SCAQMD developed LSTs for emissions of NO_2, CO, PM_{10}, and $PM_{2.5}$ generated at the project site (offsite mobile-source emissions are not included in the LST analysis). LSTs represent the maximum emissions at a project site that are not expected to cause or contribute to an exceedance of the most stringent federal or state AAQS and are shown in Table 5.

[8] The four intersections were: Long Beach Boulevard and Imperial Highway; Wilshire Boulevard and Veteran Avenue; Sunset Boulevard and Highland Avenue; and La Cienega Boulevard and Century Boulevard. The busiest intersection evaluated (Wilshire and Veteran) had a daily traffic volume of approximately 100,000 vehicles per day with LOS E in the morning peak hour and LOS F in the evening peak hour.

Table 5 SCAQMD Localized Significance Thresholds

Air Pollutant (Relevant AAQS)	Concentration
1-Hour CO Standard (CAAQS)	20 ppm
8-Hour CO Standard (CAAQS)	9.0 ppm
1-Hour NO_2 Standard (CAAQS)	0.18 ppm
Annual NO_2 Standard (CAAQS)	0.03 ppm
24-Hour PM_{10} Standard – Construction (SCAQMD)[1]	10.4 µg/m^3
24-Hour $PM_{2.5}$ Standard – Construction (SCAQMD)[1]	10.4 µg/m^3
24-Hour PM_{10} Standard – Operation (SCAQMD)[1]	2.5 µg/m^3
24-Hour $PM_{2.5}$ Standard – Operation (SCAQMD)[1]	2.5 µg/m^3

Source: SCAQMD 2015b.
ppm – parts per million; µg/m^3 – micrograms per cubic meter
[1] Threshold is based on SCAQMD Rule 403. Since the SoCAB is in nonattainment for PM_{10} and $PM_{2.5}$, the threshold is established as an allowable change in concentration. Therefore, background concentration is irrelevant.

To assist lead agencies, SCAQMD developed screening-level LSTs to back-calculate the mass amount (lbs. per day) of emissions generated onsite that would trigger the levels shown in Table 5 for projects under 5-acres. These "screening-level" LSTs tables are the localized significance thresholds for all projects of five acres and less; however, it can be used as screening criteria for larger projects to determine whether or not dispersion modeling may be required to compare concentrations of air pollutants generated by the project to the localized concentrations shown in Table 5.

In accordance with SCAQMD's LST methodology, the screening-level construction LSTs are based on the acreage disturbed per day based on equipment use. The screening-level construction LSTs for the project site in SRA 12 are shown in Table 6.

Table 6 SCAQMD Screening-Level Construction Localized Significance Thresholds

	Threshold (lbs/day)			
Acreage Disturbed	Nitrogen Oxides (NO_X)[1]	Carbon Monoxide (CO)[1]	Coarse Particulates (PM_{10})[2]	Fine Particulates ($PM_{2.5}$)[2]
1.00 Acres Disturbed Per Day	46	231	4	3
1.88 Acres Disturbed Per Day	63	332	7	4
2.00 Acres Disturbed Per Day	65	346	7	4

Source: SCAQMD 2008b; SCAQMD 2011, Based on receptors in SRA 12.
[1] LSTs are based on sensitive receptors within 82 feet (25 meters).

GREENHOUSE GAS EMISSIONS

Scientists have concluded that human activities are contributing to global climate change by adding large amounts of heat-trapping gases, known as GHG, to the atmosphere. Climate change is the variation of Earth's climate over time, whether due to natural variability or as a result of human activities. The primary source of these GHG is fossil fuel use. The Intergovernmental Panel on Climate Change (IPCC) has identified four major GHG—water vapor,[9] carbon (CO_2), methane (CH_4), and ozone (O_3)—that are the likely cause of an increase in global average temperatures observed within the 20th and 21st centuries. Other GHG identified by the IPCC that contribute to global warming to a lesser extent include nitrous oxide (N_2O), sulfur hexafluoride (SF_6), hydrofluorocarbons, perfluorocarbons, and chlorofluorocarbons (IPCC 2001).[10] The major GHG are briefly described below.

- **Carbon dioxide (CO_2)** enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and respiration, and also as a result of other chemical reactions (e.g. manufacture of cement). Carbon dioxide is removed from the atmosphere (sequestered) when it is absorbed by plants as part of the biological carbon cycle.

- **Methane (CH_4)** is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and other agricultural practices and from the decay of organic waste in municipal landfills and water treatment facilities.

- **Nitrous oxide (N_2O)** is emitted during agricultural and industrial activities as well as during combustion of fossil fuels and solid waste.

- **Fluorinated gases** are synthetic, strong GHGs that are emitted from a variety of industrial processes. Fluorinated gases are sometimes used as substitutes for ozone-depleting substances. These gases are typically emitted in smaller quantities, but because they are potent GHGs, they are sometimes referred to as high global-warming-potential (GWP) gases.

    - ***Chlorofluorocarbons (CFCs***) are GHGs covered under the 1987 Montreal Protocol and used for refrigeration, air conditioning, packaging, insulation, solvents, or aerosol propellants. Since they are not destroyed in the lower atmosphere (troposphere, stratosphere), CFCs drift into the upper atmosphere where, given suitable conditions, they break down ozone. These gases are also ozone-

[9] Water vapor (H_2O) is the strongest GHG and the most variable in its phases (vapor, cloud droplets, ice crystals). However, water vapor is not considered a pollutant, but part of the feedback loop o rather than a primary cause of change.

[10] Black carbon contributes to climate change both directly, by absorbing sunlight, and indirectly, by depositing on snow (making it melt faster) and by interacting with clouds and affecting cloud formation. Black carbon is the most strongly light-absorbing component of particulate matter (PM) emitted from burning fuels such as coal, diesel, and biomass. Reducing black carbon emissions globally can have immediate economic, climate, and public health benefits. California has been an international leader in reducing emissions of black carbon, with close to 95 percent control expected by 2020 due to existing programs that target reducing PM from diesel engines and burning activities (CARB 2017b). However, state and national GHG inventories do not yet include black carbon due to ongoing work resolving the precise global warming potential of black carbon. Guidance for CEQA documents does not yet include black carbon.

depleting gases and are therefore being replaced by other compounds that are GHGs covered under the Kyoto Protocol.

- ***Perfluorocarbons (PFCs)*** are a group of human-made chemicals composed of carbon and fluorine only. These chemicals (predominantly perfluoromethane [CF_4] and perfluoroethane [C_2F_6]) were introduced as alternatives, along with HFCs, to the ozone-depleting substances. In addition, PFCs are emitted as by-products of industrial processes and are used in manufacturing. PFCs do not harm the stratospheric ozone layer, but they have a high global warming potential.

- ***Sulfur Hexafluoride (SF_6)*** is a colorless gas soluble in alcohol and ether, slightly soluble in water. SF_6 is a strong GHG used primarily in electrical transmission and distribution systems as an insulator.

- ***Hydrochlorofluorocarbons (HCFCs)*** contain hydrogen, fluorine, chlorine, and carbon atoms. Although ozone-depleting substances, they are less potent at destroying stratospheric ozone than CFCs. They have been introduced as temporary replacements for CFCs and are also GHGs.

- ***Hydrofluorocarbons (HFCs)*** contain only hydrogen, fluorine, and carbon atoms. They were introduced as alternatives to ozone-depleting substances to serve many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are also used in manufacturing. They do not significantly deplete the stratospheric ozone layer, but they are strong GHGs (IPCC 2001; USEPA 2018b).

GHGs are dependent on the lifetime or persistence of the gas molecule in the atmosphere. Some GHGs have stronger greenhouse effects than others. These are referred to as high GWP gases. The GWP of GHG emissions are shown in Table 7. The GWP is used to convert GHGs to CO_2-equivalence (CO_2e) to show the relative potential that different GHGs have to retain infrared radiation in the atmosphere and contribute to the greenhouse effect. For example, under IPCC's Fourth Assessment Report (AR4) GWP values for CH_4, a project that generates 10 metric tons (MT) of CH_4 would be equivalent to 250 MT of CO_2.[11]

Table 7 GHG Emissions and Their Relative Global Warming Potential Compared to CO_2

GHGs	Second Assessment Report Atmospheric Lifetime (Years)	Fourth Assessment Report Atmospheric Lifetime (Years)	Second Assessment Report Global Warming Potential Relative to CO_2[1]	Fourth Assessment Report Global Warming Potential Relative to CO_2[1]
Carbon Dioxide (CO_2)	50 to 200	50 to 200	1	1
Methane[2] (CH_4)	12 (±3)	12	21	25
Nitrous Oxide (N_2O)	120	114	310	298
Hydrofluorocarbons:				
HFC-23	264	270	11,700	14,800
HFC-32	5.6	4.9	650	675
HFC-125	32.6	29	2,800	3,500
HFC-134a	14.6	14	1,300	1,430
HFC-143a	48.3	52	3,800	4,470

Table 7 GHG Emissions and Their Relative Global Warming Potential Compared to CO_2

GHGs	Second Assessment Report Atmospheric Lifetime (Years)	Fourth Assessment Report Atmospheric Lifetime (Years)	Second Assessment Report Global Warming Potential Relative to CO_2[1]	Fourth Assessment Report Global Warming Potential Relative to CO_2[1]
HFC-152a	1.5	1.4	140	124
HFC-227ea	36.5	34.2	2,900	3,220
HFC-236fa	209	240	6,300	9,810
HFC-4310mee	17.1	15.9	1,300	1,030
Perfluoromethane: CF_4	50,000	50,000	6,500	7,390
Perfluoroethane: C_2F_6	10,000	10,000	9,200	12,200
Perfluorobutane: C_4F_{10}	2,600	NA	7,000	8,860
Perfluoro-2-methylpentane: C_6F_{14}	3,200	NA	7,400	9,300
Sulfur Hexafluoride (SF_6)	3,200	NA	23,900	22,800

Source: IPCC 1995; IPCC 2007.

Notes: The GWP values in the IPCC's Fifth Assessment Report (2013) reflect new information on atmospheric lifetimes of GHGs and an improved calculation of the radiative forcing of CO_2. However, SCAQMD uses the AR4 GWP values to maintain consistency in statewide GHG emissions modeling. In addition, the 2017 Scoping Plan Update was based on the AR4 GWP values.

[1] Based on 100-year time horizon of the GWP of the air pollutant relative to CO_2.

[2] The methane GWP includes direct effects and indirect effects due to the production of tropospheric ozone and stratospheric water vapor. The indirect effect due to the production of CO_2 is not included.

California's Greenhouse Gas Sources and Relative Contribution

In 2018, the statewide GHG emissions inventory was updated for 2000 to 2016 emissions using the GWPs in IPCC's AR4.[12] Based on these GWPs, California produced 429.4 $MMTCO_2e$ GHG emissions in 2016. California's transportation sector was the single largest generator of GHG emissions, producing 40.5 percent of the state's total emissions. Industrial sector emissions made up 23.4 percent, and electric power generation made up 16.1 percent of the state's emissions inventory. Other major sectors of GHG emissions include commercial and residential (12.0 percent), agriculture and forestry (7.9 percent) and other (solvents and chemicals at 0.2 percent), (CARB 2018b).

California's GHG emissions have followed a declining trend since 2007. In 2016, emissions from routine GHG emitting activities statewide were 429 $MMTCO_2e$, or 12 $MMTCO_2e$ lower than 2015 levels. This represents an overall decrease of 13 percent since peak levels in 2004 and 2 $MMTCO_2e$ below the 1990 level and the state's 2020 GHG target. During the 2000 to 2016 period, per capita GHG emissions in California have continued to drop from a peak in 2001 of 14.0 $MTCO_2e$ per capita to 10.8 $MTCO_2e$ per capita in 2016, a 23 percent decrease. Overall trends in the inventory also demonstrate that the carbon intensity of California's economy (the amount of carbon pollution per million dollars of gross domestic product (GDP)) is declining, representing a 38 percent decline since the 2001 peak, while the state's GDP has grown 41 percent during this period (CARB 2018c).

[12] Methodology for determining the statewide GHG inventory is not the same as the methodology used to determine statewide GHG emissions under Assembly Bill 32 (2006).

Regulatory Settings

REGULATION OF GHG EMISSIONS ON A NATIONAL LEVEL

The U.S. Environmental Protection Agency (EPA) announced on December 7, 2009, that GHG emissions threaten the public health and welfare of the American people and that GHG emissions from on-road vehicles contribute to that threat. The EPA's final findings respond to the 2007 U.S. Supreme Court decision that GHG emissions fit within the Clean Air Act definition of air pollutants. The findings do not in and of themselves impose any emission reduction requirements, but allow the EPA to finalize the GHG standards proposed in 2009 for new light-duty vehicles as part of the joint rulemaking with the Department of Transportation (USEPA 2009).

To regulate GHGs from passenger vehicles, EPA was required to issue an endangerment finding. The finding identifies emissions of six key GHGs—CO_2, CH_4, N_2O, hydrofluorocarbons, perfluorocarbons, and SF_6—that have been the subject of scrutiny and intense analysis for decades by scientists in the United States and around the world. The first three are applicable to the project's GHG emissions inventory because they constitute the majority of GHG emissions and, per South Coast Air Quality Management District guidance, are the GHG emissions that should be evaluated as part of a project's GHG emissions inventory.

US Mandatory Report Rule for GHGs (2009)

In response to the endangerment finding, the EPA issued the Mandatory Reporting of GHG Rule that requires substantial emitters of GHG emissions (large stationary sources, etc.) to report GHG emissions data. Facilities that emit 25,000 MT or more of CO_2 per year are required to submit an annual report.

Update to Corporate Average Fuel Economy Standards (2010/2012)

The current Corporate Average Fuel Economy standards (for model years 2011 to 2016) incorporate stricter fuel economy requirements promulgated by the federal government and California into one uniform standard. Additionally, automakers are required to cut GHG emissions in new vehicles by roughly 25 percent by 2016 (resulting in a fleet average of 35.5 miles per gallon by 2016). Rulemaking to adopt these new standards was completed in 2010. California agreed to allow automakers who show compliance with the national program to also be deemed in compliance with state requirements. The federal government issued new standards in 2012 for model years 2017–2025 that will require a fleet average of 54.5 miles per gallon in 2025. However, the EPA is reexamining the 2017-2025 emissions standards.

EPA Regulation of Stationary Sources under the Clean Air Act (Ongoing)

Pursuant to its authority under the Clean Air Act, the EPA has been developing regulations for new stationary sources such as power plants, refineries, and other large sources of emissions. Pursuant to former President Obama's 2013 Climate Action Plan, the EPA was directed to develop regulations for existing stationary sources also. However, the EPA is reviewing the Clean Power Plan under President Trump's Energy Independence Executive Order.

REGULATION OF GHG EMISSIONS ON A STATE LEVEL

Current State of California guidance and goals for reductions in GHG emissions are generally embodied in Executive Order S-3-05, Executive Order B-30-15, Assembly Bill 32 (AB 32), Senate Bill 32 (SB 32) and Senate Bill 375 (SB 375).

Executive Order S-3-05

Executive Order S-3-05, signed June 1, 2005. Executive Order S-3-05 set the following GHG reduction targets for the State:

- 2000 levels by 2010
- 1990 levels by 2020
- 80 percent below 1990 levels by 2050

Assembly Bill 32, the Global Warming Solutions Act (2006)

Current State of California guidance and goals for reductions in GHG emissions are generally embodied in AB 32. AB 32 was passed by the California state legislature on August 31, 2006, to place the state on a course toward reducing its contribution of GHG emissions. AB 32 follows the 2020 tier of emissions reduction targets established in Executive Order S-03-05.

CARB 2008 Scoping Plan

The final Scoping Plan was adopted by CARB on December 11, 2008. The *2008 Scoping Plan* identified that GHG emissions in California are anticipated to be approximately 596 $MMTCO_2e$ in 2020. In December 2007, CARB approved a 2020 emissions limit of 427 $MMTCO_2e$ (471 million tons) for the state (CARB 2008). In order to effectively implement the emissions cap, AB 32 directed CARB to establish a mandatory reporting system to track and monitor GHG emissions levels for large stationary sources that generate more than 25,000 $MTCO_2e$ per year, prepare a plan demonstrating how the 2020 deadline can be met, and develop appropriate regulations and programs to implement the plan by 2012.

First Update to the Scoping Plan

CARB completed a five-year update to the 2008 Scoping Plan, as required by AB 32. The First Update to the Scoping Plan was adopted at the May 22, 2014, board hearing. The update highlights California's progress toward meeting the near-term 2020 GHG emission reduction goals defined in the original 2008 Scoping Plan. As part of the update, CARB recalculated the 1990 GHG emission levels with the updated AR4 GWPs, and the 427 $MMTCO_2e$ 1990 emissions level and 2020 GHG emissions limit, established in response to AB 32, is slightly higher at 431 $MMTCO_2e$ (CARB 2014).

As identified in the Update to the Scoping Plan, California is on track to meeting the goals of AB 32. However, the update also addresses the state's longer-term GHG goals within a post-2020 element. The post-2020 element provides a high level view of a long-term strategy for meeting the 2050 GHG goals, including a recommendation for the state to adopt a midterm target. According to the Update to the Scoping Plan, local

government reduction targets should chart a reduction trajectory that is consistent with or exceeds the trajectory created by statewide goals (CARB 2014). CARB identified that reducing emissions to 80 percent below 1990 levels will require a fundamental shift to efficient, clean energy in every sector of the economy. Progressing toward California's 2050 climate targets will require significant acceleration of GHG reduction rates. Emissions from 2020 to 2050 will have to decline several times faster than the rate needed to reach the 2020 emissions limit (CARB 2014).

Executive Order B-30-15

Executive Order B-30-15, signed April 29, 2015, sets a goal of reducing GHG emissions in the state to 40 percent of 1990 levels by year 2030. Executive Order B-30-15 also directs CARB to update the Scoping Plan to quantify the 2030 GHG reduction goal for the state and requires state agencies to implement measures to meet the interim 2030 goal as well as the long-term goal for 2050 in Executive Order S-03-05. It also requires the Natural Resources Agency to conduct triennial updates of the California adaption strategy, Safeguarding California, in order to ensure climate change is accounted for in state planning and investment decisions.

Senate Bill 32 and Assembly Bill 197

In September 2016, Governor Brown signed SB 32 and AB 197 into law, making the Executive Order goal for year 2030 into a statewide mandated legislative target. AB 197 established a joint legislative committee on climate change policies and requires the CARB to prioritize direction emissions reductions rather than the market-based cap-and-trade program for large stationary, mobile, and other sources.

2017 Climate Change Scoping Plan Update

Executive Order B-30-15 and SB 32 required CARB to prepare another update to the Scoping Plan to address the 2030 target for the state. On December 24, 2017, CARB adopted the 2017 Climate Change Scoping Plan Update, which outlines potential regulations and programs, including strategies consistent with AB 197 requirements, to achieve the 2030 target. The 2017 Scoping Plan establishes a new emissions limit of 260 $MMTCO_2e$ for the year 2030, which corresponds to a 40 percent decrease in 1990 levels by 2030 (CARB 2017c).

California's climate strategy will require contributions from all sectors of the economy, including enhanced focus on zero- and near-zero emission (ZE/NZE) vehicle technologies; continued investment in renewables, such as solar roofs, wind, and other types of distributed generation; greater use of low carbon fuels; integrated land conservation and development strategies; coordinated efforts to reduce emissions of short-lived climate pollutants (methane, black carbon, and fluorinated gases); and an increased focus on integrated land use planning, to support livable, transit-connected communities and conservation of agricultural and other lands. Requirements for GHG reductions at stationary sources complement local air pollution control efforts by the local air districts to tighten criteria air pollutants and TACs emissions limits on a broad spectrum of industrial sources. Major elements of the 2017 Scoping Plan framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing ZEV buses and trucks;

- Low Carbon Fuel Standard (LCFS), with an increased stringency (18 percent by 2030).
- Implementation of SB 350, which expands the Renewables Portfolio Standard (RPS) to 50 percent RPS and doubles energy efficiency savings by 2030.
- California Sustainable Freight Action Plan, which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of ZEV trucks.
- Implementing the proposed Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing methane and hydroflurocarbon emissions by 40 percent and anthropogenic black carbon emissions by 50 percent by year 2030.
- Post-2020 Cap-and-Trade Program that includes declining caps.
- Continued implementation of SB 375.
- Development of a Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

In addition to the statewide strategies listed above, the 2017 Climate Change Scoping Plan also identified local governments as essential partners in achieving the State's long-term GHG reduction goals and identified local actions to reduce GHG emissions. As part of the recommended actions, CARB recommends statewide targets of no more than 6 $MTCO_2e$ or less per capita by 2030 and 2 $MTCO_2e$ or less per capita by 2050. CARB recommends that local governments evaluate and adopt robust and quantitative locally-appropriate goals that align with the statewide per capita targets and the State's sustainable development objectives and develop plans to achieve the local goals. The statewide per capita goals were developed by applying the percent reductions necessary to reach the 2030 and 2050 climate goals (i.e., 40 percent and 80 percent, respectively) to the State's 1990 emissions limit established under AB 32. For CEQA projects, CARB states that lead agencies have discretion to develop evidenced-based numeric thresholds (mass emissions, per capita, or per service population)—consistent with the Scoping Plan and the state's long-term GHG goals. To the degree a project relies on GHG mitigation measures, CARB recommends that lead agencies prioritize on-site design features that reduce emissions, especially from VMT, and direct investments in GHG reductions within the project's region that contribute potential air quality, health, and economic co-benefits. Where further project design or regional investments are infeasible or not proven to be effective, CARB recommends mitigating potential GHG impacts through purchasing and retiring carbon credits.

The Scoping Plan scenario is set against what is called the business-as-usual (BAU) yardstick—that is, what would the GHG emissions look like if the State did nothing at all beyond the existing policies that are required and already in place to achieve the 2020 limit, as shown in Table 8. It includes the existing renewables requirements, advanced clean cars, the "10 percent" Low Carbon Fuel Standard (LCFS), and the SB 375 program for more vibrant communities, among others. However, it does not include a range of new policies or measures that have been developed or put into statute over the past two years. Also shown in the table, the known commitments are expected to result in emissions that are 60 $MMTCO_2e$ above the target in

2030. If the estimated GHG reductions from the known commitments are not realized due to delays in implementation or technology deployment, the post-2020 Cap-and-Trade Program would deliver the additional GHG reductions in the sectors it covers to ensure the 2030 target is achieved.

Table 8 2017 Climate Change Scoping Plan Emissions Reductions Gap

Modeling Scenario	2030 GHG Emissions $MMTCO_2e$
Reference Scenario (Business-as-Usual)	389
With Known Commitments	320
2030 GHG Target	**260**
Gap to 2030 Target	**60**

Source: CARB 2017c.

Table 9 provides estimated GHG emissions by sector, compared to 1990 levels, and the range of GHG emissions for each sector estimated for 2030.

Table 9 2017 Climate Change Scoping Plan Emissions Change by Sector

Scoping Plan Sector	1990 $MMTCO_2e$	2030 Proposed Plan Ranges $MMTCO_2e$	% Change from 1990
Agricultural	26	24-25	-8% to -4%
Residential and Commercial	44	38-40	-14% to -9%
Electric Power	108	30-53	-72% to -51%
High GWP	3	8-11	267% to 367%
Industrial	98	83-90	-15% to -8%
Recycling and Waste	7	8-9	14% to 29%
Transportation (including TCU)	152	103-111	-32% to -27%
Net Sink[1]	-7	TBD	TBD
Sub Total	431	294-339	-32% to -21%
Cap-and-Trade Program	NA	24-79	NA
Total	**431**	**260**	**-40%**

Source: CARB 2017c.
Notes: TCU = Transportation, Communications, and Utilities; TBD: To Be Determined.
[1] Work is underway through 2017 to estimate the range of potential sequestration benefits from the natural and working lands sector.

Senate Bill 1383

On September 19, 2016, the Governor signed SB 1383 to supplement the GHG reduction strategies in the Scoping Plan to consider short-lived climate pollutants, including black carbon and CH_4. Black carbon is the light-absorbing component of fine particulate matter produced during incomplete combustion of fuels. SB 1383 requires the state board, no later than January 1, 2018, to approve and begin implementing that comprehensive strategy to reduce emissions of short-lived climate pollutants to achieve a reduction in methane by 40 percent, hydrofluorocarbon gases by 40 percent, and anthropogenic black carbon by 50 percent below 2013 levels by 2030, as specified. The bill also establishes targets for reducing organic waste in

landfill. On March 14, 2017, CARB adopted the "Final Proposed Short-Lived Climate Pollutant Reduction Strategy," which identifies the state's approach to reducing anthropogenic and biogenic sources of short-lived climate pollutants. Anthropogenic sources of black carbon include on- and off-road transportation, residential wood burning, fuel combustion (charbroiling), and industrial processes. According to CARB, ambient levels of black carbon in California are 90 percent lower than in the early 1960s despite the tripling of diesel fuel use (CARB 2017b). In-use on-road rules are expected to reduce black carbon emissions from on-road sources by 80 percent between 2000 and 2020. SCAQMD is one of the air districts that requires air pollution control technologies for chain-driven broilers, which reduces particulate emissions from these char broilers by over 80 percent (CARB 2017b). Additionally, SCAQMD Rule 445 limits installation of new fireplaces in the SoCAB.

Senate Bill 375

In 2008, SB 375, the Sustainable Communities and Climate Protection Act, was adopted to connect the GHG emissions reductions targets established in the 2008 Scoping Plan for the transportation sector to local land use decisions that affect travel behavior. Its intent is to reduce GHG emissions from light-duty trucks and automobiles (excludes emissions associated with goods movement) by aligning regional long-range transportation plans, investments, and housing allocations to local land use planning to reduce VMT and vehicle trips. Specifically, SB 375 required CARB to establish GHG emissions reduction targets for each of the 18 metropolitan planning organizations (MPOs). The Southern California Association of Governments (SCAG) is the MPO for the Southern California region, which includes the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial.

Pursuant to the recommendations of the Regional Transportation Advisory Committee, CARB adopted per capita reduction targets for each of the MPOs rather than a total magnitude reduction target. SCAG's targets are an 8 percent per capita reduction from 2005 GHG emission levels by 2020 and a 13 percent per capita reduction from 2005 GHG emission levels by 2035 (CARB 2010). The 2020 targets are smaller than the 2035 targets because a significant portion of the built environment in 2020 has been defined by decisions that have already been made. In general, the 2020 scenarios reflect that more time is needed for large land use and transportation infrastructure changes. Most of the reductions in the interim are anticipated to come from improving the efficiency of the region's transportation network. The targets would result in 3 $MMTCO_2e$ of reductions by 2020 and 15 $MMTCO_2e$ of reductions by 2035. Based on these reductions, the passenger vehicle target in CARB's Scoping Plan (for AB 32) would be met (CARB 2010).

2017 Update to the SB 375 Targets

CARB is required to update the targets for the MPOs every eight years. In June 2017, CARB released updated targets and technical methodology and recently released another update in February 2018. The updated targets consider the need to further reduce VMT, as identified in the 2017 Scoping Plan Update, while balancing the need for additional and more flexible revenue sources to incentivize positive planning and action toward sustainable communities. Like the 2010 targets, the updated SB 375 targets are in units of percent per capita reduction in GHG emissions from automobiles and light trucks relative to 2005. This excludes reductions anticipated from implementation of state technology and fuels strategies and any potential future state strategies such as statewide road user pricing. The proposed targets call for greater per

capita GHG emission reductions from SB 375 than are currently in place, which for 2035, translate into proposed targets that either match or exceed the emission reduction levels in the MPOs' currently adopted SCSs. As proposed, CARB staff's proposed targets would result in an additional reduction of over 8 $MMTCO_2e$ in 2035 compared to the current targets. For the next round of SCS updates, CARB's updated targets for the SCAG region are an 8 percent per capita GHG reduction in 2020 from 2005 levels (unchanged from the 2010 target) and a 19 percent per capita GHG reduction in 2035 from 2005 levels (compared to the 2010 target of 13 percent) (CARB 2018b). CARB adopted the updated targets and methodology on March 22, 2018. All SCSs adopted after October 1, 2018 are subject to these new targets.

SCAG's 2016-2040 RTP/SCS

SB 375 requires each MPO to prepare an SCS in their regional transportation plan. For the SCAG region, the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) was adopted on April 7, 2016, and is an update to the 2012 RTP/SCS (SCAG 2016). In general, the SCS outlines a development pattern for the region, which, when integrated with the transportation network and other transportation measures and policies, would reduce vehicle miles traveled from automobiles and light duty trucks and thereby reduce GHG emissions from these sources.

The 2016-2040 RTP/SCS projects that the SCAG region will meet or exceed the passenger per capita targets set in 2010 by CARB. It is projected that VMT per capita in the region for year 2040 would be reduced by 7.4 percent with implementation of the 2016-2040 RTP/SCS compared to a no-plan year 2040 scenario. Under the 2016-2040 RTP/SCS, SCAG anticipates lowering GHG emissions 8 percent below 2005 levels by 2020, 18 percent by 2035, and 21 percent by 2040. The 18 percent reduction by 2035 over 2005 levels represents a 2 percent increase in reduction compared to the 2012 RTP/SCS projection. Overall, the SCS is meant to provide growth strategies that will achieve the aforementioned regional GHG emissions reduction targets. Land use strategies to achieve the region's targets include planning for new growth around high quality transit areas and livable corridors, and creating neighborhood mobility areas to integrate land use and transportation and plan for more active lifestyles (SCAG 2016). However, the SCS does not require that local general plans, specific plans, or zoning be consistent with the SCS; instead, it provides incentives to governments and developers for consistency.

Assembly Bill 1493

California vehicle GHG emission standards were enacted under AB 1493 (Pavley I). Pavley I is a clean-car standard that reduces GHG emissions from new passenger vehicles (light-duty auto to medium-duty vehicles) from 2009 through 2016 and was anticipated to reduce GHG emissions from new passenger vehicles by 30 percent in 2016. California implements the Pavley I standards through a waiver granted to California by the EPA. In 2012, the EPA issued a Final Rulemaking that sets even more stringent fuel economy and GHG emissions standards for model year 2017 through 2025 light-duty vehicles (see also the discussion on the update to the Corporate Average Fuel Economy standards under *Federal Laws*, above). In January 2012, CARB approved the Advanced Clean Cars program (formerly known as Pavley II) for model years 2017 through 2025. The program combines the control of smog, soot, and global warming gases and requirements for greater numbers of zero-emission vehicles into a single package of standards. Under California's Advanced

Clean Car program, by 2025, new automobiles will emit 34 percent fewer global warming gases and 75 percent fewer smog-forming emissions.

Executive Order S-01-07

On January 18, 2007, the state set a new LCFS for transportation fuels sold in the state. Executive Order S-01-07 sets a declining standard for GHG emissions measured in carbon dioxide equivalent gram per unit of fuel energy sold in California. The LCFS requires a reduction of 2.5 percent in the carbon intensity of California's transportation fuels by 2015 and a reduction of at least 10 percent by 2020. The standard applies to refiners, blenders, producers, and importers of transportation fuels, and would use market-based mechanisms to allow these providers to choose how they reduce emissions during the "fuel cycle" using the most economically feasible methods.

Senate Bills 1078, 107, X1-2, and Executive Order S-14-08

A major component of California's Renewable Energy Program is the RPS established under Senate Bills 1078 (Sher) and 107 (Simitian). Under the RPS, certain retail sellers of electricity were required to increase the amount of renewable energy each year by at least 1 percent in order to reach at least 20 percent by December 30, 2010. Executive Order S-14-08 was signed in November 2008, which expanded the state's Renewable Energy Standard to 33 percent renewable power by 2020. This standard was adopted by the legislature in 2011 (SB X1-2). Renewable sources of electricity include wind, small hydropower, solar, geothermal, biomass, and biogas. The increase in renewable sources for electricity production will decrease indirect GHG emissions from development projects, because electricity production from renewable sources is generally considered carbon neutral.

Senate Bill 350

Senate Bill 350 (de Leon), was signed into law in September 2015. SB 350 establishes tiered increases to the RPS of 40 percent by 2024, 45 percent by 2027, and 50 percent by 2030. SB 350 also set a new goal to double the energy efficiency savings in electricity and natural gas through energy efficiency and conservation measures.

Executive Order B-16-2012

On March 23, 2012, the state identified that CARB, the California Energy Commission (CEC), the Public Utilities Commission, and other relevant agencies worked with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to accommodate zero-emissions vehicles in major metropolitan areas, including infrastructure to support them (e.g., electric vehicle charging stations). The executive order also directs the number of zero-emission vehicles in California's state vehicle fleet to increase through the normal course of fleet replacement so that at least 10 percent of fleet purchases of light-duty vehicles are zero-emission by 2015 and at least 25 percent by 2020. The executive order also establishes a target for the transportation sector of reducing GHG emissions from the transportation sector 80 percent below 1990 levels.

California Building Code: Building Energy Efficiency Standards

Energy conservation standards for new residential and non-residential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the CEC) in June 1977 and most recently revised in 2016 (Title 24, Part 6, of the California Code of Regulations [CCR]). Title 24 requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods. On June 10, 2015, the CEC adopted the 2016 Building Energy Efficiency Standards, which went into effect on January 1, 2017.

The 2016 Standards continues to improve upon the previous 2013 Standards for new construction of, and additions and alterations to, residential and nonresidential buildings. Under the 2016 Standards, residential and nonresidential buildings are 28 and 5 percent more energy efficient than the 2013 Standards, respectively (CEC 2015a). Buildings that are constructed in accordance with the 2013 Building Energy Efficiency Standards are 25 percent (residential) to 30 percent (nonresidential) more energy efficient than the prior 2008 standards as a result of better windows, insulation, lighting, ventilation systems, and other features. While the 2016 standards do not achieve zero net energy, they do get very close to the state's goal and make important steps toward changing residential building practices in California. The 2019 standards will take the final step to achieve zero net energy for newly constructed residential buildings throughout California (CEC 2015b).

The 2019 standards move towards cutting energy use in new homes by more than 50 percent and will require installation of solar photovoltaic systems for single-family homes and multi-family buildings of 3 stories and less. Four key areas the 2019 standards will focus on include 1) smart residential photovoltaic systems; 2) updated thermal envelope standards (preventing heat transfer from the interior to exterior and vice versa); 3) residential and nonresidential ventilation requirements; 4) and nonresidential lighting requirements (CEC 2018a). Under the 2019 standards, nonresidential buildings will be 30 percent more energy efficient compared to the 2016 standards while single-family homes will be 7 percent more energy efficient (CEC 2018b). When accounting for the electricity generated by the solar photovoltaic system, single-family homes would use 53 percent less energy compared to homes built to the 2016 standards (CEC 2018b).

California Building Code: CALGreen

On July 17, 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (24 CCR, Part 11, known as "CALGreen") was adopted as part of the California Building Standards Code. CALGreen established planning and design standards for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants.[13] The mandatory provisions of CALGreen became effective January 1, 2011, and were last updated in 2016. The 2016 CALGreen became effective on January 1, 2017.

[13] The green building standards became mandatory in the 2010 edition of the code.

2006 Appliance Efficiency Regulations

The 2006 Appliance Efficiency Regulations (20 CCR §§ 1601–1608) were adopted by the CEC on October 11, 2006, and approved by the California Office of Administrative Law on December 14, 2006. The regulations include standards for both federally regulated appliances and non–federally regulated appliances. Though these regulations are now often viewed as "business as usual," they exceed the standards imposed by all other states, and they reduce GHG emissions by reducing energy demand.

Solid Waste Regulations

California's Integrated Waste Management Act of 1989 (AB 939; Public Resources Code §§ 40050 et seq.) set a requirement for cities and counties throughout the state to divert 50 percent of all solid waste from landfills by January 1, 2000, through source reduction, recycling, and composting. In 2008, the requirements were modified to reflect a per capita requirement rather than tonnage. To help achieve this, the act requires that each city and county prepare and submit a source reduction and recycling element. AB 939 also established the goal for all California counties to provide at least 15 years of ongoing landfill capacity.

AB 341 (Chapter 476, Statutes of 2011) increased the statewide goal for waste diversion to 75 percent by 2020 and requires recycling of waste from commercial and multifamily residential land uses.

The California Solid Waste Reuse and Recycling Access Act (AB 1327; Public Resources Code §§ 42900 et seq.) requires areas to be set aside for collecting and loading recyclable materials in development projects. The act required the California Integrated Waste Management Board to develop a model ordinance for adoption by any local agency requiring adequate areas for collection and loading of recyclable materials as part of development projects. Local agencies are required to adopt the model or an ordinance of their own.

Section 5.408 of the 2016 CALGreen also requires that at least 65 percent of the nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse.

In October of 2014 Governor Brown signed AB 1826, requiring businesses to recycle their organic waste on and after April 1, 2016, depending on the amount of waste they generate per week. This law also requires that on and after January 1, 2016, local jurisdictions across the state implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units. Organic waste means food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste.

Water Efficiency Regulations

The 20x2020 Water Conservation Plan was issued by the Department of Water Resources (DWR) in 2010 pursuant to Senate Bill 7, which was adopted during the 7th Extraordinary Session of 2009–2010 and therefore dubbed "SBX7-7." SBX7-7 mandated urban water conservation and authorized the DWR to prepare a plan implementing urban water conservation requirements (20x2020 Water Conservation Plan). In addition, it required agricultural water providers to prepare agricultural water management plans, measure water deliveries to customers, and implement other efficiency measures. SBX7-7 requires urban water

providers to adopt a water conservation target of 20 percent reduction in urban per capita water use by 2020 compared to 2005 baseline use.

The Water Conservation in Landscaping Act of 2006 (AB 1881) requires local agencies to adopt the updated DWR model ordinance or equivalent. AB 1881 also requires the CEC to consult with the DWR to adopt, by regulation, performance standards and labeling requirements for landscape irrigation equipment, including irrigation controllers, moisture sensors, emission devices, and valves to reduce the wasteful, uneconomic, inefficient, or unnecessary consumption of energy or water.

Thresholds of Significance

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

1. The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;

2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;

3. The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions.[14]

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

To provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents, SCAQMD has convened a GHG CEQA Significance Threshold Working Group (Working Group). Based on the last Working Group meeting (Meeting No. 15) held in September 2010, SCAQMD is proposing to adopt a tiered approach for evaluating GHG emissions for development projects where SCAQMD is not the lead agency (SCAQMD 2010):

- **Tier 1.** If a project is exempt from CEQA, project-level and cumulative GHG emissions are less than significant.

- **Tier 2.** If the project complies with a GHG emissions reduction plan or mitigation program that avoids or substantially reduces GHG emissions in the project's geographic area (i.e., city or county), project-level and cumulative GHG emissions are less than significant.

- **Tier 3.** If GHG emissions are less than the screening-level threshold, project-level and cumulative GHG emissions are less than significant.

[14] The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

For projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, SCAQMD requires an assessment of GHG emissions. SCAQMD is proposing a screening-level threshold of 3,000 $MTCO_2e$ annually for all land use types or the following land-use-specific thresholds: 1,400 $MTCO_2e$ for commercial projects, 3,500 $MTCO_2e$ for residential projects, or 3,000 $MTCO_2e$ for mixed-use projects. These bright-line thresholds are based on a review of the Governor's Office of Planning and Research database of CEQA projects. Based on their review of 711 CEQA projects, 90 percent of CEQA projects would exceed the bright-line thresholds identified above. Therefore, projects that do not exceed the bright-line threshold would have a nominal, and therefore, less than cumulatively considerable impact on GHG emissions:

- **Tier 4.** If emissions exceed the screening threshold, a more detailed review of the project's GHG emissions is warranted.

  The SCAQMD Working Group has identified an efficiency target for projects that exceed the screening threshold of 4.8 $MTCO_2e$ per year per service population ($MTCO_2e$/year/SP) for project-level analyses and 6.6 $MTCO_2e$/year/SP for plan level projects (e.g., program-level projects such as general plans) for the year 2020.[15] The per capita efficiency targets are based on the AB 32 GHG reduction target and 2020 GHG emissions inventory prepared for CARB's 2008 Scoping Plan.[16] If a proposed project's horizon year is beyond year 2020, the efficiency target would need to be adjusted based on the mid-term GHG reduction target of SB 32, which establishes a target of 40 percent below 1990 levels by 2030, and the long-term reduction goal of Executive Order S-03-05, which sets a goal of 80 percent below 1990 levels by 2050. For the purpose of this project, as the proposed school is anticipated to be built by 2024, SCAQMD's project-level thresholds of 3,000 $MTCO_2e$ and 4.3 $MTCO_2e$/year/SP are used. If projects exceed the bright line and per capita efficiency targets, GHG emissions would be considered potentially significant in the absence of mitigation measures.

POST-2020 EFFICIENCY THRESHOLDS

For projects that would be implemented beyond year 2020, the efficiency targets have been adjusted based on the GHG reduction targets of SB 32. The 2017 Scoping Plan establishes a new emissions limit of 260 $MMTCO_2e$ for the year 2030, which corresponds to a 40 percent decrease in 1990 levels by 2030 as established under SB 32. While the State has identified additional GHG reduction goal for year 2050 (Executive Order S-03-05), because buildout of the proposed project would occur before 2030, the applicable threshold is based on the GHG reduction target for the buildout year of the proposed project (2024) and the legislative target under SB 32. As shown in Table 10, using the latest land use emissions inventory developed for the 2017 Scoping Plan, the estimated 2030 GHG project-level efficiency target would be 3.2 $MTCO_2e$ per service population per year ($MTCO_2e$/SP/yr). The estimated 2024 (project opening year) GHG project-level efficiency target would be 4.3 $MTCO_2e$/SP/yr).

[15] It should be noted that the Working Group also considered efficiency targets for 2035 for the first time in this Working Group meeting.

[16] SCAQMD took the 2020 statewide GHG reduction target for land use only GHG emissions sectors and divided it by the 2020 statewide employment for the land use sectors to derive a per capita GHG efficiency metric that coincides with the GHG reduction targets of AB 32 for year 2020.

Table 10 Post-2020 Project-Level GHG Reduction Targets

GHG Sector[1]	Scoping Plan Scenario GHG Emissions $MMTCO_2e$
Scoping Plan Emissions Target	
AB 32 Year 2020 Emissions Target[2]	287
SB 32 Year 2030 Emissions Target	191
Interpolated Year 2024 Emissions Target[3]	248
2024 Project-Level Efficiency Target	
2024 Population[4]	41,994,283
2024 Employment[5]	15,588,529
2024 Service Population	57,582,812
2024 Efficiency Target	**4.3 $MTCO_2e$/SP**
2030 Project-Level Efficiency Target	
2030 Population[4]	43,939,250
2030 Employment[5]	16,454,761
2030 Service Population	60,394,011
2030 Efficiency Target	**3.2 $MTCO_2e$/SP**

Sources:
[1] CARB 2017c.
[2] CARB 2007.
[3] Forecast based on year 2020 and year 2030 project-level emissions inventories.
[4] CDOF 2018.
[5] Caltrans 2017.

The proposed project has an anticipated buildout year beyond 2020. SCAQMD's bright-line threshold of 3,000 $MTCO_2e$ per year is used as screening criteria to determine if additional analysis of project-related emissions exceed the year 2024 efficiency metric of 4.3 $MTCO_2e$/SP/yr. If the project operation-phase emissions exceed the bright-line and efficiency targets, GHG emissions would be considered potentially significant in the absence of mitigation measures.

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CalEEMod Project Characteristics Inputs (Construction)

Name:	92nd Street Elementary School Modernization
Project Location:	9211 Grape Street, City of Los Angeles
County/Air Basin:	Los Angeles - (South Coast)
Climate Zone:	8
Land Use Setting:	Urban
Operational Year:	2024
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	2 - South Coastal LA County

Total Project Site Area	6.03	acres
	262,598	sq. feet

Project Components	Phase	SQFT	Acres
Removal			
6 Portable Buildings	1 and 2	7,451	0.17
Demolition			
Classroom Building D			
Kindergarten Building 1			
Kindergarten Building 2	2	10,190	0.23
Asphalt demolition	2	92,347	2.12
Modernization [2]			
Administrative & Library Building	2	8,990	0.21
West Building	2	17,893	0.41
Cafeteria	2	10,993	0.25
Classroom Buildings	2	27,222	0.62
New Construction			
2-story Kindergarten Building 1		35,129	0.81
1-story Classroom Building 2	2		
15 Interim Portable Buildings	1	11,060	0.25
Site Upgrades			
Landscape, hardscape, and fencing	-	-	-
Restripe 24-space parking lot[1]	2	8,250	0.19
New asphalt playground	2	69,700	1.60
New parking lot	2	22,647	0.52

[1] *SQFT obtained by measuring aerial map on Google Earth.*

[2] *Modernization would not entail use of heavy construction equipment.*

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Phase 1						
15 Interim Portable Buildings	Educational	Elementary School	11.06	1000 sq. feet	0.25	11,060
Total					0.25	
Phase 2						
New Kindergarten and classroom buildings	Educational	Elementary School	35.13	1000 sq. feet	0.81	35,129
New asphalt playground	Parking	Other Non-Asphalt Serfaces	69.70	1000 sq. feet	1.60	69,700
New parking lot	Parking	Parking Lot	22.65	1000 sq. feet	0.52	22,647
Total					2.93	

Demolition

Component	Amount to be Demolished (Tons)	Haul Truck Capacity (tons)	Haul Distance (miles)	Total Trip Ends	Trip Ends/ day	Duration (days)
Phase 2						
Asphalt Demo[1]	693	20	20	69	1	90
Building Demo[1]	469	20	20	47	3	90
Total	1,161			116		

[1] *Based on square footage provided by the applicant*

Haul

	Number	Total Trip Ends
Phase 1		
Interim Portables Added[1]	15	60
Phase 2		
Existing Portables Removed[2]	6	24
Interim Portables Removed[3]	15	60

[1] *Hauling trips during construction phase 1, protable building installation.*

[2] *Hauling trips during construction phase 2, demolition.*

[3] *Hauling trips during construction phase 2, portable building haul.*

Architectural Coating

Percentage of Buildings' Interior Painted:	100%	
Percentage of Buildings' Exterior Painted:	100%	
SCAQMD Rule 1113		
Interior Paint VOC content:	100	grams per litter
Exterior Paing VOC content:	100	grams per litter

Non-Residential Structures	Land Use Square Feet	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Phase 1					
No painting					
Phase 2					
New Construction	35,129	2	70,258	52,694	17,565
Modernization	65,098	2	130,196	97,647	32,549
			200,454	150,341	50,114
Striping (New parking lot + restriping of existing lot + asphalt playground)	100,597	6%	6,036	-	6,036
			6,036	-	6,036

[1] *CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.*

[2] *The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.*

Construction Mitigation

SCAQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph

SCAQMD Rule 1186

	Clean Paved Road	9	% PM Reduction

Construction Activities and Schedule Assumptions (92nd Steet LAUSD)

Phase types and timeframe provided by applicant. CalEEMod details were used for information not provided.

Construction Activities		Construction Schedule		
Phase Name	Phase Type	Start Date	End Date	CalEEMod Days
Phase 1				
Site Preparation	Site Preparation	8/3/2020	8/7/2020	5
Utility Trenching	Trenching	8/10/2020	10/9/2020	45
Portable Installation	Building Construction	10/12/2020	10/23/2020	10
Phase 2				
Demolition	Demolition	5/3/2021	9/3/2021	90
Grading + Trenching	Grading	9/6/2021	11/5/2021	45
Building Construction	Building Construction	11/8/2021	7/1/2022	170
Architectural Coating	Architectural Coating	7/4/2022	8/1/2022	21
Portable Building Haul	Building Construction	8/2/2022	8/15/2022	10
Paving	Paving	8/16/2022	10/17/2022	45
Finishing/Landscaping	Tenching	10/18/2022	11/16/2022	22

CalEEMod Construction Off-Road Equipment Inputs

Based on CalEEMod defaults

General Construction Hours: 8 hours btwn 7:00 AM to 4:00 PM

	Construction Equipment Details			
Equipment	**# of Equipment**	**hp**	**hrs/ day**	**total trips**
Phase 1				
Site Preparation				
Graders	1	187	8	
Tractors/Loaders/Backhoes	1	97	8	
Worker Trips				5
Vendor Trips				0
Hauling Trips				0
Utility Trenching				
Excavators	1	97	8	
Tractors/Loaders/Backhoes	1	158	8	
Worker Trips				5
Vendor Trips				0
Hauling Trips				0
Portable Installation				
Cranes	1	231	4	
Worker Trips				5
Vendor Trips				2
Hauling Trips				60
Phase 2				
Demolition				
Concrete/Industrial Saws	1	81	8	
Rubber Tired Dozers	1	247	8	
Tractors/Loaders/Backhoes	3	97	8	
Worker Trips				13
Vendor Trips				0
Hauling Trips				140
Grading + Trenching				
Graders	1	187	8	
Rubber Tired Dozers	1	247	8	
Tractors/Loaders/Backhoes	2	97	7	
Worker Trips				10
Vendor Trips				0
Hauling Trips				0
Building Construction				
Cranes	1	231	8	
Forklifts	2	89	7	
Generator Sets	1	84	8	
Tractors/Loaders/Backhoes	1	97	6	
Welders	3	46	8	
Worker Trips				54
Vendor Trips				21
Hauling Trips				0
Architectural Coating				
Air Compressors	1	78	6	
Worker Trips				3
Vendor Trips				0
Hauling Trips				0
Portable Building Haul				

	Cranes	1	231	8	
	Worker Trips				54
	Vendor Trips				21
	Hauling Trips				60
Paving					
	Cement and Mortar Mixers	1	9	8	
	Pavers	1	130	8	
	Paving Equipment	1	132	8	
	Rollers	2	80	8	
	Tractors/Loaders/Backhoes	1	97	8	
	Worker Trips				15
	Vendor Trips				0
	Hauling Trips				0
Finishing/Landscaping					
	Skid Steer Loaders	1	65	8	
	Excavators	1	158	8	
	Paving Equipment	1	132	8	
	Worker Trips				8
	Vendor Trips				0
	Hauling Trips				0

[1] *Based on other projects with finishing/landscaping phase.*

Pavement Volume to Weight Conversion

Component	Total SF of Area[1]	Assumed Thickness (foot)[2]	Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf)[3]	AC Mass (lbs)	AC Mass (tons)
Asphalt	92,347	0.333	30,782	45	1,385,205	692.60

[1] Based on construction information provided by the Applicant.

[2] Pavements and Surface Materials. Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Conneticut Cooperative Extension System, 1999.

[3] http://www.reade.com/Particle_Briefings/spec_gra2.html

Demo Haul Trip Calculation

*Conversion factors**

0.046	ton/SF
1.2641662	tons/cy
20	tons
15.820705	CY
0.7910352	CY/ton

Building Demoltion Haul Trips (BSF and Haul Truck (CY) given)

BSF Demo	Tons/SF	Tons	Haul Truck (CY)	Haul Truck (Ton)	Round Trips	Total Trip Ends
10,190	0.046	468.74	16	20.00	23	47

*CalEEMod User's Guide Version 2011.1, Appendix A

92nd Street Elementary School - Construction Phase 1 - Los Angeles-South Coast County, Annual

92nd Street Elementary School - Construction Phase 1

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	11.06	1000sqft	0.25	11,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Refer to CalEEMod inputs.

Off-road Equipment - Refert o CalEEMod inputs.

Off-road Equipment -

Off-road Equipment - Refer to CalEEMod inputs.

Trips and VMT - Refer to CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403,1186.

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	1.00	5.00
tblGrading	AcresOfGrading	2.50	0.50
tblTripsAndVMT	HaulingTripNumber	0.00	60.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated 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	0.0172	0.1775	0.1804	3.1000e-004	2.4900e-003	9.1200e-003	0.0116	6.2000e-004	8.3900e-003	9.0200e-003	0.0000	27.5831	27.5831	7.8200e-003	0.0000	27.7786
Maximum	**0.0172**	**0.1775**	**0.1804**	**3.1000e-004**	**2.4900e-003**	**9.1200e-003**	**0.0116**	**6.2000e-004**	**8.3900e-003**	**9.0200e-003**	**0.0000**	**27.5831**	**27.5831**	**7.8200e-003**	**0.0000**	**27.7786**

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	0.0172	0.1775	0.1804	3.1000e-004	2.1700e-003	9.1200e-003	0.0113	5.7000e-004	8.3900e-003	8.9600e-003	0.0000	27.5830	27.5830	7.8200e-003	0.0000	27.7786

Maximum	**0.0172**	**0.1775**	**0.1804**	**3.1000e-004**	**2.1700e-003**	**9.1200e-003**	**0.0113**	**5.7000e-004**	**8.3900e-003**	**8.9600e-003**	**0.0000**	**27.5830**	**27.5830**	**7.8200e-003**	**0.0000**	**27.7786**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**12.85**	**0.00**	**2.76**	**8.06**	**0.00**	**0.67**	**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	**8-3-2020**	**9-30-2020**	0.1094	0.1094
		Highest	0.1094	0.1094

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/3/2020	8/7/2020	5	5	
2	Trenching	Trenching	8/10/2020	10/9/2020	5	45	
3	Portable Installation	Building Construction	10/12/2020	10/23/2020	5	10	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Portable Installation	Cranes	1	4.00	231	0.29
Portable Installation	Forklifts	2	6.00	89	0.20
Portable Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Portable Installation	5	5.00	2.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2020

Unmitigated 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0211	0.0102	2.0000e-005		8.4000e-004	8.4000e-004		7.7000e-004	7.7000e-004	0.0000	2.1398	2.1398	6.9000e-004	0.0000	2.1571
Total	**1.7100e-003**	**0.0211**	**0.0102**	**2.0000e-005**	**2.7000e-004**	**8.4000e-004**	**1.1100e-003**	**3.0000e-005**	**7.7000e-004**	**8.0000e-004**	**0.0000**	**2.1398**	**2.1398**	**6.9000e-004**	**0.0000**	**2.1571**

Unmitigated 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	6.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1278
Total	**6.0000e-005**	**5.0000e-005**	**5.1000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1277**	**0.1277**	**0.0000**	**0.0000**	**0.1278**

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					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0211	0.0102	2.0000e-005		8.4000e-004	8.4000e-004		7.7000e-004	7.7000e-004	0.0000	2.1398	2.1398	6.9000e-004	0.0000	2.1571
Total	**1.7100e-003**	**0.0211**	**0.0102**	**2.0000e-005**	**1.1000e-004**	**8.4000e-004**	**9.5000e-004**	**1.0000e-005**	**7.7000e-004**	**7.8000e-004**	**0.0000**	**2.1398**	**2.1398**	**6.9000e-004**	**0.0000**	**2.1571**

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	6.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1278
Total	**6.0000e-005**	**5.0000e-005**	**5.1000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1277**	**0.1277**	**0.0000**	**0.0000**	**0.1278**

3.3 Trenching - 2020

Unmitigated 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	0.1017	0.1248	1.9000e-004		5.6200e-003	5.6200e-003		5.1700e-003	5.1700e-003	0.0000	16.3474	16.3474	5.2900e-003	0.0000	16.4796
Total	**0.0102**	**0.1017**	**0.1248**	**1.9000e-004**		**5.6200e-003**	**5.6200e-003**		**5.1700e-003**	**5.1700e-003**	**0.0000**	**16.3474**	**16.3474**	**5.2900e-003**	**0.0000**	**16.4796**

Unmitigated 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	5.2000e-004	4.2000e-004	4.6300e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1490	1.1490	4.0000e-005	0.0000	1.1499

Total	**5.2000e-004**	**4.2000e-004**	**4.6300e-003**	**1.0000e-005**	**1.2300e-003**	**1.0000e-005**	**1.2400e-003**	**3.3000e-004**	**1.0000e-005**	**3.4000e-004**	**0.0000**	**1.1490**	**1.1490**	**4.0000e-005**	**0.0000**	**1.1499**

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	0.1017	0.1248	1.9000e-004		5.6200e-003	5.6200e-003		5.1700e-003	5.1700e-003	0.0000	16.3474	16.3474	5.2900e-003	0.0000	16.4796
Total	**0.0102**	**0.1017**	**0.1248**	**1.9000e-004**		**5.6200e-003**	**5.6200e-003**		**5.1700e-003**	**5.1700e-003**	**0.0000**	**16.3474**	**16.3474**	**5.2900e-003**	**0.0000**	**16.4796**

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	5.2000e-004	4.2000e-004	4.6300e-003	1.0000e-005	1.1400e-003	1.0000e-005	1.1500e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1490	1.1490	4.0000e-005	0.0000	1.1499
Total	**5.2000e-004**	**4.2000e-004**	**4.6300e-003**	**1.0000e-005**	**1.1400e-003**	**1.0000e-005**	**1.1500e-003**	**3.0000e-004**	**1.0000e-005**	**3.1000e-004**	**0.0000**	**1.1490**	**1.1490**	**4.0000e-005**	**0.0000**	**1.1499**

3.4 Portable Installation - 2020

Unmitigated 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	4.3100e-003	0.0443	0.0369	6.0000e-005		2.6100e-003	2.6100e-003		2.4000e-003	2.4000e-003	0.0000	5.0030	5.0030	1.6200e-003	0.0000	5.0435
Total	**4.3100e-003**	**0.0443**	**0.0369**	**6.0000e-005**		**2.6100e-003**	**2.6100e-003**		**2.4000e-003**	**2.4000e-003**	**0.0000**	**5.0030**	**5.0030**	**1.6200e-003**	**0.0000**	**5.0435**

Unmitigated 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	2.6000e-004	8.9100e-003	1.9600e-003	2.0000e-005	5.2000e-004	3.0000e-005	5.4000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	2.3124	2.3124	1.6000e-004	0.0000	2.3164
Vendor	4.0000e-005	1.0800e-003	2.9000e-004	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2484	0.2484	2.0000e-005	0.0000	0.2488
Worker	1.2000e-004	9.0000e-005	1.0300e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2555
Total	**4.2000e-004**	**0.0101**	**3.2800e-003**	**2.0000e-005**	**8.5000e-004**	**4.0000e-005**	**8.9000e-004**	**2.3000e-004**	**3.0000e-005**	**2.6000e-004**	**0.0000**	**2.8161**	**2.8161**	**1.9000e-004**	**0.0000**	**2.8207**

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	4.3100e-003	0.0443	0.0369	6.0000e-005		2.6100e-003	2.6100e-003		2.4000e-003	2.4000e-003	0.0000	5.0030	5.0030	1.6200e-003	0.0000	5.0435
Total	**4.3100e-003**	**0.0443**	**0.0369**	**6.0000e-005**		**2.6100e-003**	**2.6100e-003**		**2.4000e-003**	**2.4000e-003**	**0.0000**	**5.0030**	**5.0030**	**1.6200e-003**	**0.0000**	**5.0435**

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	2.6000e-004	8.9100e-003	1.9600e-003	2.0000e-005	4.8000e-004	3.0000e-005	5.1000e-004	1.3000e-004	3.0000e-005	1.6000e-004	0.0000	2.3124	2.3124	1.6000e-004	0.0000	2.3164
Vendor	4.0000e-005	1.0800e-003	2.9000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2484	0.2484	2.0000e-005	0.0000	0.2488
Worker	1.2000e-004	9.0000e-005	1.0300e-003	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2553	0.2553	1.0000e-005	0.0000	0.2555
Total	**4.2000e-004**	**0.0101**	**3.2800e-003**	**2.0000e-005**	**7.9000e-004**	**4.0000e-005**	**8.2000e-004**	**2.2000e-004**	**3.0000e-005**	**2.5000e-004**	**0.0000**	**2.8161**	**2.8161**	**1.9000e-004**	**0.0000**	**2.8207**

92nd Street Elementary School - Construction Phase 1

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	11.06	1000sqft	0.25	11,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Refer to CalEEMod inputs.

Off-road Equipment - Refert o CalEEMod inputs.

Off-road Equipment -

Off-road Equipment - Refer to CalEEMod inputs.

Trips and VMT - Refer to CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403,1186.

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	1.00	5.00
tblGrading	AcresOfGrading	2.50	0.50
tblTripsAndVMT	HaulingTripNumber	0.00	60.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated 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	0.9443	10.8067	8.0444	0.0172	0.1736	0.5294	0.7030	0.0473	0.4872	0.5345	0.0000	1,730.6878	1,730.6878	0.3969	0.0000	1,740.6106
Maximum	**0.9443**	**10.8067**	**8.0444**	**0.0172**	**0.1736**	**0.5294**	**0.7030**	**0.0473**	**0.4872**	**0.5345**	**0.0000**	**1,730.6878**	**1,730.6878**	**0.3969**	**0.0000**	**1,740.6106**

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	0.9443	10.8067	8.0444	0.0172	0.1613	0.5294	0.6906	0.0442	0.4872	0.5315	0.0000	1,730.6878	1,730.6878	0.3969	0.0000	1,740.6106

Maximum	**0.9443**	**10.8067**	**8.0444**	**0.0172**	**0.1613**	**0.5294**	**0.6906**	**0.0442**	**0.4872**	**0.5315**	**0.0000**	**1,730.6878**	**1,730.6878**	**0.3969**	**0.0000**	**1,740.6106**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**7.10**	**0.00**	**1.76**	**6.43**	**0.00**	**0.57**	**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	Site Preparation	Site Preparation	8/3/2020	8/7/2020	5	5	
2	Trenching	Trenching	8/10/2020	10/9/2020	5	45	
3	Portable Installation	Building Construction	10/12/2020	10/23/2020	5	10	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portable Installation	Cranes	1	4.00	231	0.29
Portable Installation	Forklifts	2	6.00	89	0.20
Portable Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Portable Installation	5	5.00	2.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2020

Unmitigated 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					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	**0.6853**	**8.4307**	**4.0942**	**9.7400e-003**	**0.1061**	**0.3353**	**0.4414**	**0.0115**	**0.3085**	**0.3200**		**943.4872**	**943.4872**	**0.3051**		**951.1158**

Unmitigated 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	0.0230	0.0164	0.2189	5.9000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		58.8056	58.8056	1.8500e-003		58.8520
Total	**0.0230**	**0.0164**	**0.2189**	**5.9000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**58.8056**	**58.8056**	**1.8500e-003**		**58.8520**

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					0.0453	0.0000	0.0453	4.9000e-003	0.0000	4.9000e-003			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	**0.6853**	**8.4307**	**4.0942**	**9.7400e-003**	**0.0453**	**0.3353**	**0.3807**	**4.9000e-003**	**0.3085**	**0.3134**	**0.0000**	**943.4872**	**943.4872**	**0.3051**		**951.1158**

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	0.0230	0.0164	0.2189	5.9000e-004	0.0515	4.7000e-004	0.0520	0.0138	4.3000e-004	0.0142		58.8056	58.8056	1.8500e-003		58.8520
Total	**0.0230**	**0.0164**	**0.2189**	**5.9000e-004**	**0.0515**	**4.7000e-004**	**0.0520**	**0.0138**	**4.3000e-004**	**0.0142**		**58.8056**	**58.8056**	**1.8500e-003**		**58.8520**

3.3 Trenching - 2020

Unmitigated 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	0.4545	4.5178	5.5475	8.2700e-003		0.2500	0.2500		0.2300	0.2300		800.8869	800.8869	0.2590		807.3625
Total	**0.4545**	**4.5178**	**5.5475**	**8.2700e-003**		**0.2500**	**0.2500**		**0.2300**	**0.2300**		**800.8869**	**800.8869**	**0.2590**		**807.3625**

Unmitigated 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	0.0230	0.0164	0.2189	5.9000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		58.8056	58.8056	1.8500e-003		58.8520
Total	**0.0230**	**0.0164**	**0.2189**	**5.9000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**58.8056**	**58.8056**	**1.8500e-003**		**58.8520**

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	0.4545	4.5178	5.5475	8.2700e-003		0.2500	0.2500		0.2300	0.2300	0.0000	800.8869	800.8869	0.2590		807.3625
Total	**0.4545**	**4.5178**	**5.5475**	**8.2700e-003**		**0.2500**	**0.2500**		**0.2300**	**0.2300**	**0.0000**	**800.8869**	**800.8869**	**0.2590**		**807.3625**

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	0.0230	0.0164	0.2189	5.9000e-004	0.0515	4.7000e-004	0.0520	0.0138	4.3000e-004	0.0142		58.8056	58.8056	1.8500e-003		58.8520
Total	**0.0230**	**0.0164**	**0.2189**	**5.9000e-004**	**0.0515**	**4.7000e-004**	**0.0520**	**0.0138**	**4.3000e-004**	**0.0142**		**58.8056**	**58.8056**	**1.8500e-003**		**58.8520**

3.4 Portable Installation - 2020

Unmitigated 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	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.9781	1,102.9781	0.3567		1,111.8962
Total	**0.8617**	**8.8523**	**7.3875**	**0.0114**		**0.5224**	**0.5224**		**0.4806**	**0.4806**		**1,102.9781**	**1,102.9781**	**0.3567**		**1,111.8962**

Unmitigated 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	0.0524	1.7252	0.3823	4.7400e-003	0.1049	5.5100e-003	0.1104	0.0288	5.2700e-003	0.0340		513.4991	513.4991	0.0350		514.3729
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0230	0.0164	0.2189	5.9000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		58.8056	58.8056	1.8500e-003		58.8520
Total	**0.0825**	**1.9544**	**0.6570**	**5.8500e-003**	**0.1736**	**6.9800e-003**	**0.1806**	**0.0473**	**6.6600e-003**	**0.0539**		**627.7097**	**627.7097**	**0.0402**		**628.7143**

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	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962
Total	**0.8617**	**8.8523**	**7.3875**	**0.0114**		**0.5224**	**0.5224**		**0.4806**	**0.4806**	**0.0000**	**1,102.9781**	**1,102.9781**	**0.3567**		**1,111.8962**

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	0.0524	1.7252	0.3823	4.7400e-003	0.0978	5.5100e-003	0.1033	0.0270	5.2700e-003	0.0323		513.4991	513.4991	0.0350		514.3729
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0120	1.0000e-003	0.0130	3.4800e-003	9.6000e-004	4.4400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0230	0.0164	0.2189	5.9000e-004	0.0515	4.7000e-004	0.0520	0.0138	4.3000e-004	0.0142		58.8056	58.8056	1.8500e-003		58.8520
Total	**0.0825**	**1.9544**	**0.6570**	**5.8500e-003**	**0.1613**	**6.9800e-003**	**0.1682**	**0.0442**	**6.6600e-003**	**0.0509**		**627.7097**	**627.7097**	**0.0402**		**628.7143**

92nd Street Elementary School - Construction Phase 1 - Los Angeles-South Coast County, Winter

92nd Street Elementary School - Construction Phase 1

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	11.06	1000sqft	0.25	11,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Refer to CalEEMod inputs.

Off-road Equipment - Refert o CalEEMod inputs.

Off-road Equipment -

Off-road Equipment - Refer to CalEEMod inputs.

Trips and VMT - Refer to CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403,1186.

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	1.00	5.00
tblGrading	AcresOfGrading	2.50	0.50
tblTripsAndVMT	HaulingTripNumber	0.00	60.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated 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	0.9484	10.8307	8.0558	0.0171	0.1736	0.5295	0.7031	0.0473	0.4873	0.5346	0.0000	1,716.8954	1,716.8954	0.3983	0.0000	1,726.8528
Maximum	**0.9484**	**10.8307**	**8.0558**	**0.0171**	**0.1736**	**0.5295**	**0.7031**	**0.0473**	**0.4873**	**0.5346**	**0.0000**	**1,716.8954**	**1,716.8954**	**0.3983**	**0.0000**	**1,726.8528**

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	0.9484	10.8307	8.0558	0.0171	0.1613	0.5295	0.6907	0.0442	0.4873	0.5316	0.0000	1,716.8954	1,716.8954	0.3983	0.0000	1,726.8528

Maximum	**0.9484**	**10.8307**	**8.0558**	**0.0171**	**0.1613**	**0.5295**	**0.6907**	**0.0442**	**0.4873**	**0.5316**	**0.0000**	**1,716.8954**	**1,716.8954**	**0.3983**	**0.0000**	**1,726.8528**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**7.10**	**0.00**	**1.76**	**6.43**	**0.00**	**0.57**	**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	Site Preparation	Site Preparation	8/3/2020	8/7/2020	5	5	
2	Trenching	Trenching	8/10/2020	10/9/2020	5	45	
3	Portable Installation	Building Construction	10/12/2020	10/23/2020	5	10	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portable Installation	Cranes	1	4.00	231	0.29
Portable Installation	Forklifts	2	6.00	89	0.20
Portable Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Portable Installation	5	5.00	2.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2020

Unmitigated 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					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	**0.6853**	**8.4307**	**4.0942**	**9.7400e-003**	**0.1061**	**0.3353**	**0.4414**	**0.0115**	**0.3085**	**0.3200**		**943.4872**	**943.4872**	**0.3051**		**951.1158**

Unmitigated 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	0.0256	0.0181	0.2005	5.6000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		55.3710	55.3710	1.7500e-003		55.4147
Total	**0.0256**	**0.0181**	**0.2005**	**5.6000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**55.3710**	**55.3710**	**1.7500e-003**		**55.4147**

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					0.0453	0.0000	0.0453	4.9000e-003	0.0000	4.9000e-003			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	**0.6853**	**8.4307**	**4.0942**	**9.7400e-003**	**0.0453**	**0.3353**	**0.3807**	**4.9000e-003**	**0.3085**	**0.3134**	**0.0000**	**943.4872**	**943.4872**	**0.3051**		**951.1158**

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	0.0256	0.0181	0.2005	5.6000e-004	0.0515	4.7000e-004	0.0520	0.0138	4.3000e-004	0.0142		55.3710	55.3710	1.7500e-003		55.4147
Total	**0.0256**	**0.0181**	**0.2005**	**5.6000e-004**	**0.0515**	**4.7000e-004**	**0.0520**	**0.0138**	**4.3000e-004**	**0.0142**		**55.3710**	**55.3710**	**1.7500e-003**		**55.4147**

3.3 Trenching - 2020

Unmitigated 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	0.4545	4.5178	5.5475	8.2700e-003		0.2500	0.2500		0.2300	0.2300		800.8869	800.8869	0.2590		807.3625
Total	**0.4545**	**4.5178**	**5.5475**	**8.2700e-003**		**0.2500**	**0.2500**		**0.2300**	**0.2300**		**800.8869**	**800.8869**	**0.2590**		**807.3625**

Unmitigated 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	0.0256	0.0181	0.2005	5.6000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		55.3710	55.3710	1.7500e-003		55.4147
Total	**0.0256**	**0.0181**	**0.2005**	**5.6000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**55.3710**	**55.3710**	**1.7500e-003**		**55.4147**

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	0.4545	4.5178	5.5475	8.2700e-003		0.2500	0.2500		0.2300	0.2300	0.0000	800.8869	800.8869	0.2590		807.3625
Total	**0.4545**	**4.5178**	**5.5475**	**8.2700e-003**		**0.2500**	**0.2500**		**0.2300**	**0.2300**	**0.0000**	**800.8869**	**800.8869**	**0.2590**		**807.3625**

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	0.0256	0.0181	0.2005	5.6000e-004	0.0515	4.7000e-004	0.0520	0.0138	4.3000e-004	0.0142		55.3710	55.3710	1.7500e-003		55.4147
Total	**0.0256**	**0.0181**	**0.2005**	**5.6000e-004**	**0.0515**	**4.7000e-004**	**0.0520**	**0.0138**	**4.3000e-004**	**0.0142**		**55.3710**	**55.3710**	**1.7500e-003**		**55.4147**

3.4 Portable Installation - 2020

Unmitigated 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	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.9781	1,102.9781	0.3567		1,111.8962
Total	**0.8617**	**8.8523**	**7.3875**	**0.0114**		**0.5224**	**0.5224**		**0.4806**	**0.4806**		**1,102.9781**	**1,102.9781**	**0.3567**		**1,111.8962**

Unmitigated 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	0.0537	1.7476	0.4063	4.6600e-003	0.1049	5.5900e-003	0.1105	0.0288	5.3500e-003	0.0341		504.6564	504.6564	0.0362		505.5620
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0256	0.0181	0.2005	5.6000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		55.3710	55.3710	1.7500e-003		55.4147
Total	**0.0867**	**1.9784**	**0.6683**	**5.7200e-003**	**0.1736**	**7.0800e-003**	**0.1807**	**0.0473**	**6.7500e-003**	**0.0540**		**613.9173**	**613.9173**	**0.0416**		**614.9566**

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	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962
Total	**0.8617**	**8.8523**	**7.3875**	**0.0114**		**0.5224**	**0.5224**		**0.4806**	**0.4806**	**0.0000**	**1,102.9781**	**1,102.9781**	**0.3567**		**1,111.8962**

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	0.0537	1.7476	0.4063	4.6600e-003	0.0978	5.5900e-003	0.1034	0.0270	5.3500e-003	0.0324		504.6564	504.6564	0.0362		505.5620
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0120	1.0200e-003	0.0130	3.4800e-003	9.7000e-004	4.4600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0256	0.0181	0.2005	5.6000e-004	0.0515	4.7000e-004	0.0520	0.0138	4.3000e-004	0.0142		55.3710	55.3710	1.7500e-003		55.4147
Total	**0.0867**	**1.9784**	**0.6683**	**5.7200e-003**	**0.1613**	**7.0800e-003**	**0.1683**	**0.0442**	**6.7500e-003**	**0.0510**		**613.9173**	**613.9173**	**0.0416**		**614.9566**

92nd Street Elementary School - Construction Phase 2 - Los Angeles-South Coast County, Annual

92nd Street Elementary School - Construction Phase 2

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	35.13	1000sqft	0.81	35,130.00	0
Other Asphalt Surfaces	69.70	1000sqft	1.60	69,700.00	0
Parking Lot	22.63	1000sqft	0.52	22,630.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Refer to CalEEMod inputs.

Construction Phase - Refer to CalEEMod inputs.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Refer to CalEEMod inputs.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - 140 demo hauling trips added. 60 portable building haul trips added.

Demolition -

Architectural Coating - Modernization added to non-residential interior and exterior area. Parking area based on CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403, 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	17,565.00	50,114.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	52,695.00	150,341.00
tblArchitecturalCoating	ConstArea_Parking	5,540.00	6,036.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	220.00	170.00
tblConstructionPhase	NumDays	220.00	10.00
tblConstructionPhase	NumDays	20.00	90.00
tblConstructionPhase	NumDays	6.00	45.00
tblConstructionPhase	NumDays	10.00	45.00
tblGrading	AcresOfGrading	22.50	3.00
tblTripsAndVMT	HaulingTripNumber	115.00	140.00
tblTripsAndVMT	HaulingTripNumber	0.00	60.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated 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					
2021	0.1817	1.7289	1.2503	2.4200e-003	0.1741	0.0841	0.2582	0.0831	0.0786	0.1618	0.0000	211.4640	211.4640	0.0472	0.0000	212.6426
2022	0.6614	1.4545	1.5557	3.1600e-003	0.0571	0.0639	0.1210	0.0154	0.0608	0.0762	0.0000	273.2858	273.2858	0.0463	0.0000	274.4421
Maximum	**0.6614**	**1.7289**	**1.5557**	**3.1600e-003**	**0.1741**	**0.0841**	**0.2582**	**0.0831**	**0.0786**	**0.1618**	**0.0000**	**273.2858**	**273.2858**	**0.0472**	**0.0000**	**274.4421**

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					
2021	0.1817	1.7289	1.2503	2.4200e-003	0.0866	0.0841	0.1707	0.0389	0.0786	0.1175	0.0000	211.4637	211.4637	0.0472	0.0000	212.6424
2022	0.6614	1.4545	1.5557	3.1600e-003	0.0528	0.0639	0.1167	0.0143	0.0608	0.0751	0.0000	273.2856	273.2856	0.0463	0.0000	274.4419
Maximum	**0.6614**	**1.7289**	**1.5557**	**3.1600e-003**	**0.0866**	**0.0841**	**0.1707**	**0.0389**	**0.0786**	**0.1175**	**0.0000**	**273.2856**	**273.2856**	**0.0472**	**0.0000**	**274.4419**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**39.69**	**0.00**	**24.20**	**46.02**	**0.00**	**19.05**	**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	5-3-2021	8-2-2021	0.7299	0.7299
2	8-3-2021	11-2-2021	0.7120	0.7120
3	11-3-2021	2-2-2022	0.6434	0.6434
4	2-3-2022	5-2-2022	0.5989	0.5989
5	5-3-2022	8-2-2022	0.9000	0.9000
6	8-3-2022	9-30-2022	0.2670	0.2670
		Highest	0.9000	0.9000

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/3/2021	9/3/2021	5	90	
2	Grading + Trenching	Grading	9/6/2021	11/5/2021	5	45	
3	Building Construction	Building Construction	11/8/2021	7/1/2022	5	170	
4	Architectural Coating	Architectural Coating	7/4/2022	8/1/2022	5	21	
5	Portable Building Haul	Building Construction	8/2/2022	8/15/2022	5	10	
6	Paving	Paving	8/16/2022	10/17/2022	5	45	
7	Finishing/Landscaping	Trenching	10/18/2022	11/16/2022	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.12

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 150,341; Non-Residential Outdoor: 50,114; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading + Trenching	Graders	1	8.00	187	0.41
Grading + Trenching	Rubber Tired Dozers	1	8.00	247	0.40
Grading + Trenching	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Portable Building Haul	Cranes	1	8.00	231	0.29
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing/Landscaping	Excavators	1	8.00	158	0.38
Finishing/Landscaping	Paving Equipment	1	8.00	132	0.36
Finishing/Landscaping	Skid Steer Loaders	1	8.00	65	0.37
Portable Building Haul	Forklifts	2	7.00	89	0.20
Portable Building Haul	Generator Sets	1	8.00	84	0.74
Portable Building Haul	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Portable Building Haul	Welders	3	8.00	46	0.45

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
Demolition	5	13.00	0.00	140.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading + Trenching	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	54.00	21.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Portable Building Haul	8	54.00	21.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2021

Unmitigated 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					0.0124	0.0000	0.0124	1.8800e-003	0.0000	1.8800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0897	0.8864	0.6522	1.0800e-003		0.0468	0.0468		0.0437	0.0437	0.0000	94.8210	94.8210	0.0243	0.0000	95.4272
Total	**0.0897**	**0.8864**	**0.6522**	**1.0800e-003**	**0.0124**	**0.0468**	**0.0593**	**1.8800e-003**	**0.0437**	**0.0456**	**0.0000**	**94.8210**	**94.8210**	**0.0243**	**0.0000**	**95.4272**

Unmitigated 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	5.9000e-004	0.0194	4.5200e-003	5.0000e-005	1.2000e-003	6.0000e-005	1.2600e-003	3.3000e-004	6.0000e-005	3.9000e-004	0.0000	5.3361	5.3361	3.7000e-004	0.0000	5.3453
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	2.5200e-003	1.9600e-003	0.0221	6.0000e-005	6.4100e-003	5.0000e-005	6.4600e-003	1.7000e-003	5.0000e-005	1.7500e-003	0.0000	5.7852	5.7852	1.7000e-004	0.0000	5.7894
Total	**3.1100e-003**	**0.0213**	**0.0266**	**1.1000e-004**	**7.6100e-003**	**1.1000e-004**	**7.7200e-003**	**2.0300e-003**	**1.1000e-004**	**2.1400e-003**	**0.0000**	**11.1212**	**11.1212**	**5.4000e-004**	**0.0000**	**11.1348**

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					5.3100e-003	0.0000	5.3100e-003	8.0000e-004	0.0000	8.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0897	0.8864	0.6522	1.0800e-003		0.0468	0.0468		0.0437	0.0437	0.0000	94.8209	94.8209	0.0243	0.0000	95.4271
Total	**0.0897**	**0.8864**	**0.6522**	**1.0800e-003**	**5.3100e-003**	**0.0468**	**0.0522**	**8.0000e-004**	**0.0437**	**0.0445**	**0.0000**	**94.8209**	**94.8209**	**0.0243**	**0.0000**	**95.4271**

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	5.9000e-004	0.0194	4.5200e-003	5.0000e-005	1.1200e-003	6.0000e-005	1.1800e-003	3.1000e-004	6.0000e-005	3.7000e-004	0.0000	5.3361	5.3361	3.7000e-004	0.0000	5.3453
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	2.5200e-003	1.9600e-003	0.0221	6.0000e-005	5.9100e-003	5.0000e-005	5.9600e-003	1.5800e-003	5.0000e-005	1.6300e-003	0.0000	5.7852	5.7852	1.7000e-004	0.0000	5.7894
Total	**3.1100e-003**	**0.0213**	**0.0266**	**1.1000e-004**	**7.0300e-003**	**1.1000e-004**	**7.1400e-003**	**1.8900e-003**	**1.1000e-004**	**2.0000e-003**	**0.0000**	**11.1212**	**11.1212**	**5.4000e-004**	**0.0000**	**11.1348**

3.3 Grading + Trenching - 2021

Unmitigated 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					0.1371	0.0000	0.1371	0.0747	0.0000	0.0747	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0411	0.4548	0.2196	4.6000e-004		0.0206	0.0206		0.0190	0.0190	0.0000	40.7337	40.7337	0.0132	0.0000	41.0631
Total	**0.0411**	**0.4548**	**0.2196**	**4.6000e-004**	**0.1371**	**0.0206**	**0.1577**	**0.0747**	**0.0190**	**0.0936**	**0.0000**	**40.7337**	**40.7337**	**0.0132**	**0.0000**	**41.0631**

Unmitigated 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	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
Total	**9.7000e-004**	**7.5000e-004**	**8.5100e-003**	**2.0000e-005**	**2.4700e-003**	**2.0000e-005**	**2.4900e-003**	**6.5000e-004**	**2.0000e-005**	**6.7000e-004**	**0.0000**	**2.2251**	**2.2251**	**7.0000e-005**	**0.0000**	**2.2267**

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					0.0586	0.0000	0.0586	0.0319	0.0000	0.0319	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0411	0.4548	0.2196	4.6000e-004		0.0206	0.0206		0.0190	0.0190	0.0000	40.7337	40.7337	0.0132	0.0000	41.0630
Total	**0.0411**	**0.4548**	**0.2196**	**4.6000e-004**	**0.0586**	**0.0206**	**0.0792**	**0.0319**	**0.0190**	**0.0509**	**0.0000**	**40.7337**	**40.7337**	**0.0132**	**0.0000**	**41.0630**

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	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.1000e-004	2.0000e-005	6.3000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
Total	**9.7000e-004**	**7.5000e-004**	**8.5100e-003**	**2.0000e-005**	**2.2700e-003**	**2.0000e-005**	**2.2900e-003**	**6.1000e-004**	**2.0000e-005**	**6.3000e-004**	**0.0000**	**2.2251**	**2.2251**	**7.0000e-005**	**0.0000**	**2.2267**

3.4 Building Construction - 2021

Unmitigated 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	0.0409	0.3206	0.2913	5.0000e-004		0.0164	0.0164		0.0157	0.0157	0.0000	41.5298	41.5298	8.1700e-003	0.0000	41.7340
Total	**0.0409**	**0.3206**	**0.2913**	**5.0000e-004**		**0.0164**	**0.0164**		**0.0157**	**0.0157**	**0.0000**	**41.5298**	**41.5298**	**8.1700e-003**	**0.0000**	**41.7340**

Unmitigated 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	1.3000e-003	0.0415	0.0112	1.1000e-004	2.6500e-003	8.0000e-005	2.7300e-003	7.6000e-004	8.0000e-005	8.4000e-004	0.0000	10.3529	10.3529	6.4000e-004	0.0000	10.3687
Worker	4.6500e-003	3.6200e-003	0.0408	1.2000e-004	0.0118	1.0000e-004	0.0119	3.1400e-003	9.0000e-005	3.2300e-003	0.0000	10.6803	10.6803	3.1000e-004	0.0000	10.6882
Total	**5.9500e-003**	**0.0451**	**0.0521**	**2.3000e-004**	**0.0145**	**1.8000e-004**	**0.0147**	**3.9000e-003**	**1.7000e-004**	**4.0700e-003**	**0.0000**	**21.0332**	**21.0332**	**9.5000e-004**	**0.0000**	**21.0569**

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	0.0409	0.3206	0.2913	5.0000e-004		0.0164	0.0164		0.0157	0.0157	0.0000	41.5297	41.5297	8.1700e-003	0.0000	41.7340
Total	**0.0409**	**0.3206**	**0.2913**	**5.0000e-004**		**0.0164**	**0.0164**		**0.0157**	**0.0157**	**0.0000**	**41.5297**	**41.5297**	**8.1700e-003**	**0.0000**	**41.7340**

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	1.3000e-003	0.0415	0.0112	1.1000e-004	2.4800e-003	8.0000e-005	2.5600e-003	7.2000e-004	8.0000e-005	8.0000e-004	0.0000	10.3529	10.3529	6.4000e-004	0.0000	10.3687
Worker	4.6500e-003	3.6200e-003	0.0408	1.2000e-004	0.0109	1.0000e-004	0.0110	2.9200e-003	9.0000e-005	3.0100e-003	0.0000	10.6803	10.6803	3.1000e-004	0.0000	10.6882

Total	**5.9500e-003**	**0.0451**	**0.0521**	**2.3000e-004**	**0.0134**	**1.8000e-004**	**0.0136**	**3.6400e-003**	**1.7000e-004**	**3.8100e-003**	**0.0000**	**21.0332**	**21.0332**	**9.5000e-004**	**0.0000**	**21.0569**

3.4 Building Construction - 2022

Unmitigated 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	0.1206	0.9493	0.9330	1.6300e-003		0.0456	0.0456		0.0438	0.0438	0.0000	134.9921	134.9921	0.0260	0.0000	135.6432
Total	**0.1206**	**0.9493**	**0.9330**	**1.6300e-003**		**0.0456**	**0.0456**		**0.0438**	**0.0438**	**0.0000**	**134.9921**	**134.9921**	**0.0260**	**0.0000**	**135.6432**

Unmitigated 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	3.9800e-003	0.1280	0.0346	3.4000e-004	8.6000e-003	2.4000e-004	8.8400e-003	2.4800e-003	2.3000e-004	2.7100e-003	0.0000	33.3513	33.3513	1.9900e-003	0.0000	33.4011
Worker	0.0142	0.0106	0.1223	3.7000e-004	0.0385	3.1000e-004	0.0388	0.0102	2.8000e-004	0.0105	0.0000	33.4908	33.4908	9.2000e-004	0.0000	33.5139
Total	**0.0181**	**0.1386**	**0.1569**	**7.1000e-004**	**0.0471**	**5.5000e-004**	**0.0476**	**0.0127**	**5.1000e-004**	**0.0132**	**0.0000**	**66.8421**	**66.8421**	**2.9100e-003**	**0.0000**	**66.9149**

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	0.1206	0.9493	0.9330	1.6300e-003		0.0456	0.0456		0.0438	0.0438	0.0000	134.9919	134.9919	0.0260	0.0000	135.6430
Total	**0.1206**	**0.9493**	**0.9330**	**1.6300e-003**		**0.0456**	**0.0456**		**0.0438**	**0.0438**	**0.0000**	**134.9919**	**134.9919**	**0.0260**	**0.0000**	**135.6430**

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	3.9800e-003	0.1280	0.0346	3.4000e-004	8.0500e-003	2.4000e-004	8.2900e-003	2.3500e-003	2.3000e-004	2.5800e-003	0.0000	33.3513	33.3513	1.9900e-003	0.0000	33.4011
Worker	0.0142	0.0106	0.1223	3.7000e-004	0.0355	3.1000e-004	0.0358	9.4800e-003	2.8000e-004	9.7600e-003	0.0000	33.4908	33.4908	9.2000e-004	0.0000	33.5139
Total	**0.0181**	**0.1386**	**0.1569**	**7.1000e-004**	**0.0435**	**5.5000e-004**	**0.0441**	**0.0118**	**5.1000e-004**	**0.0123**	**0.0000**	**66.8421**	**66.8421**	**2.9100e-003**	**0.0000**	**66.9149**

3.5 Architectural Coating - 2022

Unmitigated 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	0.4785					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1500e-003	0.0148	0.0190	3.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	2.6809	2.6809	1.7000e-004	0.0000	2.6853
Total	**0.4807**	**0.0148**	**0.0190**	**3.0000e-005**		**8.6000e-004**	**8.6000e-004**		**8.6000e-004**	**8.6000e-004**	**0.0000**	**2.6809**	**2.6809**	**1.7000e-004**	**0.0000**	**2.6853**

Unmitigated 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	4.7000e-004	3.5000e-004	4.0200e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1021	1.1021	3.0000e-005	0.0000	1.1028
Total	**4.7000e-004**	**3.5000e-004**	**4.0200e-003**	**1.0000e-005**	**1.2700e-003**	**1.0000e-005**	**1.2800e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.1021**	**1.1021**	**3.0000e-005**	**0.0000**	**1.1028**

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	0.4785					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1500e-003	0.0148	0.0190	3.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	2.6809	2.6809	1.7000e-004	0.0000	2.6853
Total	**0.4807**	**0.0148**	**0.0190**	**3.0000e-005**		**8.6000e-004**	**8.6000e-004**		**8.6000e-004**	**8.6000e-004**	**0.0000**	**2.6809**	**2.6809**	**1.7000e-004**	**0.0000**	**2.6853**

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	4.7000e-004	3.5000e-004	4.0200e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1021	1.1021	3.0000e-005	0.0000	1.1028
Total	**4.7000e-004**	**3.5000e-004**	**4.0200e-003**	**1.0000e-005**	**1.1700e-003**	**1.0000e-005**	**1.1800e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.1021**	**1.1021**	**3.0000e-005**	**0.0000**	**1.1028**

3.6 Portable Building Haul - 2022

Unmitigated 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	9.2800e-003	0.0730	0.0718	1.3000e-004		3.5100e-003	3.5100e-003		3.3700e-003	3.3700e-003	0.0000	10.3840	10.3840	2.0000e-003	0.0000	10.4341
Total	**9.2800e-003**	**0.0730**	**0.0718**	**1.3000e-004**		**3.5100e-003**	**3.5100e-003**		**3.3700e-003**	**3.3700e-003**	**0.0000**	**10.3840**	**10.3840**	**2.0000e-003**	**0.0000**	**10.4341**

Unmitigated 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	2.4000e-004	7.7100e-003	1.9100e-003	2.0000e-005	5.2000e-004	2.0000e-005	5.4000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	2.2597	2.2597	1.6000e-004	0.0000	2.2636
Vendor	3.1000e-004	9.8400e-003	2.6600e-003	3.0000e-005	6.6000e-004	2.0000e-005	6.8000e-004	1.9000e-004	2.0000e-005	2.1000e-004	0.0000	2.5655	2.5655	1.5000e-004	0.0000	2.5693
Worker	1.0900e-003	8.2000e-004	9.4100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5762	2.5762	7.0000e-005	0.0000	2.5780
Total	**1.6400e-003**	**0.0184**	**0.0140**	**8.0000e-005**	**4.1400e-003**	**6.0000e-005**	**4.2000e-003**	**1.1200e-003**	**6.0000e-005**	**1.1800e-003**	**0.0000**	**7.4014**	**7.4014**	**3.8000e-004**	**0.0000**	**7.4109**

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	9.2800e-003	0.0730	0.0718	1.3000e-004		3.5100e-003	3.5100e-003		3.3700e-003	3.3700e-003	0.0000	10.3840	10.3840	2.0000e-003	0.0000	10.4341
Total	**9.2800e-003**	**0.0730**	**0.0718**	**1.3000e-004**		**3.5100e-003**	**3.5100e-003**		**3.3700e-003**	**3.3700e-003**	**0.0000**	**10.3840**	**10.3840**	**2.0000e-003**	**0.0000**	**10.4341**

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	2.4000e-004	7.7100e-003	1.9100e-003	2.0000e-005	4.8000e-004	2.0000e-005	5.0000e-004	1.3000e-004	2.0000e-005	1.5000e-004	0.0000	2.2597	2.2597	1.6000e-004	0.0000	2.2636
Vendor	3.1000e-004	9.8400e-003	2.6600e-003	3.0000e-005	6.2000e-004	2.0000e-005	6.4000e-004	1.8000e-004	2.0000e-005	2.0000e-004	0.0000	2.5655	2.5655	1.5000e-004	0.0000	2.5693
Worker	1.0900e-003	8.2000e-004	9.4100e-003	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.5762	2.5762	7.0000e-005	0.0000	2.5780

Total	**1.6400e-003**	**0.0184**	**0.0140**	**8.0000e-005**	**3.8300e-003**	**6.0000e-005**	**3.8900e-003**	**1.0400e-003**	**6.0000e-005**	**1.1000e-003**	**0.0000**	**7.4014**	**7.4014**	**3.8000e-004**	**0.0000**	**7.4109**

3.7 Paving - 2022

Unmitigated 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	0.0212	0.2100	0.2632	4.0000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	34.8976	34.8976	0.0111	0.0000	35.1741
Paving	2.7800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0240**	**0.2100**	**0.2632**	**4.0000e-004**		**0.0110**	**0.0110**		**0.0101**	**0.0101**	**0.0000**	**34.8976**	**34.8976**	**0.0111**	**0.0000**	**35.1741**

Unmitigated 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	1.3600e-003	1.0200e-003	0.0118	4.0000e-005	3.7000e-003	3.0000e-005	3.7300e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.2203	3.2203	9.0000e-005	0.0000	3.2225
Total	**1.3600e-003**	**1.0200e-003**	**0.0118**	**4.0000e-005**	**3.7000e-003**	**3.0000e-005**	**3.7300e-003**	**9.8000e-004**	**3.0000e-005**	**1.0100e-003**	**0.0000**	**3.2203**	**3.2203**	**9.0000e-005**	**0.0000**	**3.2225**

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	0.0212	0.2100	0.2632	4.0000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	34.8976	34.8976	0.0111	0.0000	35.1741
Paving	2.7800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0240**	**0.2100**	**0.2632**	**4.0000e-004**		**0.0110**	**0.0110**		**0.0101**	**0.0101**	**0.0000**	**34.8976**	**34.8976**	**0.0111**	**0.0000**	**35.1741**

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	1.3600e-003	1.0200e-003	0.0118	4.0000e-005	3.4100e-003	3.0000e-005	3.4400e-003	9.1000e-004	3.0000e-005	9.4000e-004	0.0000	3.2203	3.2203	9.0000e-005	0.0000	3.2225
Total	**1.3600e-003**	**1.0200e-003**	**0.0118**	**4.0000e-005**	**3.4100e-003**	**3.0000e-005**	**3.4400e-003**	**9.1000e-004**	**3.0000e-005**	**9.4000e-004**	**0.0000**	**3.2203**	**3.2203**	**9.0000e-005**	**0.0000**	**3.2225**

3.8 Finishing/Landscaping - 2022

Unmitigated 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	4.9500e-003	0.0489	0.0791	1.2000e-004		2.2600e-003	2.2600e-003		2.0800e-003	2.0800e-003	0.0000	10.9258	10.9258	3.5300e-003	0.0000	11.0141
Total	**4.9500e-003**	**0.0489**	**0.0791**	**1.2000e-004**		**2.2600e-003**	**2.2600e-003**		**2.0800e-003**	**2.0800e-003**	**0.0000**	**10.9258**	**10.9258**	**3.5300e-003**	**0.0000**	**11.0141**

Unmitigated 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	3.6000e-004	2.7000e-004	3.0700e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8397	0.8397	2.0000e-005	0.0000	0.8402
Total	**3.6000e-004**	**2.7000e-004**	**3.0700e-003**	**1.0000e-005**	**9.6000e-004**	**1.0000e-005**	**9.7000e-004**	**2.6000e-004**	**1.0000e-005**	**2.6000e-004**	**0.0000**	**0.8397**	**0.8397**	**2.0000e-005**	**0.0000**	**0.8402**

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	4.9500e-003	0.0489	0.0791	1.2000e-004		2.2600e-003	2.2600e-003		2.0800e-003	2.0800e-003	0.0000	10.9258	10.9258	3.5300e-003	0.0000	11.0141
Total	**4.9500e-003**	**0.0489**	**0.0791**	**1.2000e-004**		**2.2600e-003**	**2.2600e-003**		**2.0800e-003**	**2.0800e-003**	**0.0000**	**10.9258**	**10.9258**	**3.5300e-003**	**0.0000**	**11.0141**

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	3.6000e-004	2.7000e-004	3.0700e-003	1.0000e-005	8.9000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.8397	0.8397	2.0000e-005	0.0000	0.8402
Total	**3.6000e-004**	**2.7000e-004**	**3.0700e-003**	**1.0000e-005**	**8.9000e-004**	**1.0000e-005**	**9.0000e-004**	**2.4000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.8397**	**0.8397**	**2.0000e-005**	**0.0000**	**0.8402**

92nd Street Elementary School - Construction Phase 2 - Los Angeles-South Coast County, Summer

92nd Street Elementary School - Construction Phase 2

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	35.13	1000sqft	0.81	35,130.00	0
Other Asphalt Surfaces	69.70	1000sqft	1.60	69,700.00	0
Parking Lot	22.63	1000sqft	0.52	22,630.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Refer to CalEEMod inputs.

Construction Phase - Refer to CalEEMod inputs.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Refer to CalEEMod inputs.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - 140 demo hauling trips added. 60 portable building haul trips added.

Demolition -

Architectural Coating - Modernization added to non-residential interior and exterior area. Parking area based on CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403, 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	17,565.00	50,114.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	52,695.00	150,341.00
tblArchitecturalCoating	ConstArea_Parking	5,540.00	6,036.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	220.00	170.00
tblConstructionPhase	NumDays	220.00	10.00
tblConstructionPhase	NumDays	20.00	90.00
tblConstructionPhase	NumDays	6.00	45.00
tblConstructionPhase	NumDays	10.00	45.00
tblGrading	AcresOfGrading	22.50	3.00
tblTripsAndVMT	HaulingTripNumber	115.00	140.00
tblTripsAndVMT	HaulingTripNumber	0.00	60.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated 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					
2021	2.3404	20.2430	17.2709	0.0366	6.2046	1.0434	7.1212	3.3475	0.9738	4.1908	0.0000	3,481.1206	3,481.1206	0.6488	0.0000	3,493.6818
2022	45.8242	18.1818	17.2378	0.0409	0.8430	0.7149	1.5578	0.2276	0.6850	0.9126	0.0000	3,956.6673	3,956.6673	0.5464	0.0000	3,969.7880
Maximum	**45.8242**	**20.2430**	**17.2709**	**0.0409**	**6.2046**	**1.0434**	**7.1212**	**3.3475**	**0.9738**	**4.1908**	**0.0000**	**3,956.6673**	**3,956.6673**	**0.6488**	**0.0000**	**3,969.7880**

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					
2021	2.3404	20.2430	17.2709	0.0366	2.7077	1.0434	3.6244	1.4459	0.9738	2.2892	0.0000	3,481.1206	3,481.1206	0.6488	0.0000	3,493.6818
2022	45.8242	18.1818	17.2378	0.0409	0.7800	0.7149	1.4948	0.2121	0.6850	0.8971	0.0000	3,956.6673	3,956.6673	0.5464	0.0000	3,969.7880
Maximum	**45.8242**	**20.2430**	**17.2709**	**0.0409**	**2.7077**	**1.0434**	**3.6244**	**1.4459**	**0.9738**	**2.2892**	**0.0000**	**3,956.6673**	**3,956.6673**	**0.6488**	**0.0000**	**3,969.7880**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**50.51**	**0.00**	**41.02**	**53.62**	**0.00**	**37.56**	**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	Demolition	Demolition	5/3/2021	9/3/2021	5	90	
2	Grading + Trenching	Grading	9/6/2021	11/5/2021	5	45	
3	Building Construction	Building Construction	11/8/2021	7/1/2022	5	170	
4	Architectural Coating	Architectural Coating	7/4/2022	8/1/2022	5	21	

5	Portable Building Haul	Building Construction	8/2/2022	8/15/2022	5	10	
6	Paving	Paving	8/16/2022	10/17/2022	5	45	
7	Finishing/Landscaping	Trenching	10/18/2022	11/16/2022	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.12

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 150,341; Non-Residential Outdoor: 50,114; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading + Trenching	Graders	1	8.00	187	0.41
Grading + Trenching	Rubber Tired Dozers	1	8.00	247	0.40
Grading + Trenching	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Portable Building Haul	Cranes	1	8.00	231	0.29
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing/Landscaping	Excavators	1	8.00	158	0.38

Finishing/Landscaping	Paving Equipment	1	8.00	132	0.36
Finishing/Landscaping	Skid Steer Loaders	1	8.00	65	0.37
Portable Building Haul	Forklifts	2	7.00	89	0.20
Portable Building Haul	Generator Sets	1	8.00	84	0.74
Portable Building Haul	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Portable Building Haul	Welders	3	8.00	46	0.45

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
Demolition	5	13.00	0.00	140.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading + Trenching	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	54.00	21.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Portable Building Haul	8	54.00	21.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2021

Unmitigated 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					0.2761	0.0000	0.2761	0.0418	0.0000	0.0418			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**0.2761**	**1.0409**	**1.3170**	**0.0418**	**0.9715**	**1.0133**		**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

Unmitigated 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	0.0130	0.4173	0.0978	1.2100e-003	0.0272	1.2800e-003	0.0285	7.4600e-003	1.2300e-003	8.6800e-003		131.6694	131.6694	8.9400e-003		131.8928
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	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491
Total	**0.0687**	**0.4556**	**0.6215**	**2.7000e-003**	**0.1725**	**2.4500e-003**	**0.1750**	**0.0460**	**2.3100e-003**	**0.0483**		**279.7095**	**279.7095**	**0.0133**		**280.0419**

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					0.1180	0.0000	0.1180	0.0179	0.0000	0.0179			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**0.1180**	**1.0409**	**1.1589**	**0.0179**	**0.9715**	**0.9893**	**0.0000**	**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

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	0.0130	0.4173	0.0978	1.2100e-003	0.0254	1.2800e-003	0.0266	7.0000e-003	1.2300e-003	8.2300e-003		131.6694	131.6694	8.9400e-003		131.8928
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	0.0557	0.0383	0.5236	1.4900e-003	0.1339	1.1700e-003	0.1351	0.0358	1.0800e-003	0.0368		148.0401	148.0401	4.3600e-003		148.1491
Total	**0.0687**	**0.4556**	**0.6215**	**2.7000e-003**	**0.1593**	**2.4500e-003**	**0.1617**	**0.0428**	**2.3100e-003**	**0.0451**		**279.7095**	**279.7095**	**0.0133**		**280.0419**

3.3 Grading + Trenching - 2021

Unmitigated 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					6.0928	0.0000	6.0928	3.3179	0.0000	3.3179			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**6.0928**	**0.9158**	**7.0085**	**3.3179**	**0.8425**	**4.1604**		**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

Unmitigated 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	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	**0.0429**	**0.0295**	**0.4028**	**1.1400e-003**	**0.1118**	**9.0000e-004**	**0.1127**	**0.0296**	**8.3000e-004**	**0.0305**		**113.8770**	**113.8770**	**3.3600e-003**		**113.9609**

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					2.6047	0.0000	2.6047	1.4184	0.0000	1.4184			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**2.6047**	**0.9158**	**3.5204**	**1.4184**	**0.8425**	**2.2609**	**0.0000**	**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

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	0.0429	0.0295	0.4028	1.1400e-003	0.1030	9.0000e-004	0.1039	0.0275	8.3000e-004	0.0283		113.8770	113.8770	3.3600e-003		113.9609
Total	**0.0429**	**0.0295**	**0.4028**	**1.1400e-003**	**0.1030**	**9.0000e-004**	**0.1039**	**0.0275**	**8.3000e-004**	**0.0283**		**113.8770**	**113.8770**	**3.3600e-003**		**113.9609**

3.4 Building Construction - 2021

Unmitigated 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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	**2.0451**	**16.0275**	**14.5629**	**0.0250**		**0.8173**	**0.8173**		**0.7831**	**0.7831**		**2,288.9355**	**2,288.9355**	**0.4503**		**2,300.1935**

Unmitigated 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	0.0638	2.0389	0.5330	5.4000e-003	0.1344	4.1700e-003	0.1386	0.0387	3.9900e-003	0.0427		577.2493	577.2493	0.0340		578.0995
Worker	0.2315	0.1591	2.1750	6.1700e-003	0.6036	4.8800e-003	0.6085	0.1601	4.4900e-003	0.1646		614.9357	614.9357	0.0181		615.3887
Total	**0.2953**	**2.1980**	**2.7080**	**0.0116**	**0.7380**	**9.0500e-003**	**0.7471**	**0.1988**	**8.4800e-003**	**0.2073**		**1,192.1850**	**1,192.1850**	**0.0521**		**1,193.4882**

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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	**2.0451**	**16.0275**	**14.5629**	**0.0250**		**0.8173**	**0.8173**		**0.7831**	**0.7831**	**0.0000**	**2,288.9355**	**2,288.9355**	**0.4503**		**2,300.1935**

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	0.0638	2.0389	0.5330	5.4000e-003	0.1258	4.1700e-003	0.1300	0.0366	3.9900e-003	0.0406		577.2493	577.2493	0.0340		578.0995
Worker	0.2315	0.1591	2.1750	6.1700e-003	0.5564	4.8800e-003	0.5612	0.1485	4.4900e-003	0.1530		614.9357	614.9357	0.0181		615.3887
Total	**0.2953**	**2.1980**	**2.7080**	**0.0116**	**0.6822**	**9.0500e-003**	**0.6912**	**0.1851**	**8.4800e-003**	**0.1936**		**1,192.1850**	**1,192.1850**	**0.0521**		**1,193.4882**

3.4 Building Construction - 2022

Unmitigated 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	**1.8555**	**14.6040**	**14.3533**	**0.0250**		**0.7022**	**0.7022**		**0.6731**	**0.6731**		**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

Unmitigated 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	0.0599	1.9389	0.5043	5.3500e-003	0.1345	3.6400e-003	0.1381	0.0387	3.4900e-003	0.0422		572.2204	572.2204	0.0328		573.0413
Worker	0.2168	0.1437	2.0067	5.9500e-003	0.6036	4.7200e-003	0.6083	0.1601	4.3500e-003	0.1644		593.3047	593.3047	0.0164		593.7140
Total	**0.2767**	**2.0827**	**2.5110**	**0.0113**	**0.7380**	**8.3600e-003**	**0.7464**	**0.1988**	**7.8400e-003**	**0.2066**		**1,165.5250**	**1,165.5250**	**0.0492**		**1,166.7553**

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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

Total	**1.8555**	**14.6040**	**14.3533**	**0.0250**		**0.7022**	**0.7022**		**0.6731**	**0.6731**	**0.0000**	**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

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	0.0599	1.9389	0.5043	5.3500e-003	0.1258	3.6400e-003	0.1295	0.0366	3.4900e-003	0.0401		572.2204	572.2204	0.0328		573.0413
Worker	0.2168	0.1437	2.0067	5.9500e-003	0.5564	4.7200e-003	0.5611	0.1485	4.3500e-003	0.1528		593.3047	593.3047	0.0164		593.7140
Total	**0.2767**	**2.0827**	**2.5110**	**0.0113**	**0.6822**	**8.3600e-003**	**0.6906**	**0.1851**	**7.8400e-003**	**0.1929**		**1,165.5250**	**1,165.5250**	**0.0492**		**1,166.7553**

3.5 Architectural Coating - 2022

Unmitigated 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	45.5755					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**45.7801**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated 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	0.0442	0.0293	0.4088	1.2100e-003	0.1230	9.6000e-004	0.1239	0.0326	8.9000e-004	0.0335		120.8584	120.8584	3.3400e-003		120.9418
Total	**0.0442**	**0.0293**	**0.4088**	**1.2100e-003**	**0.1230**	**9.6000e-004**	**0.1239**	**0.0326**	**8.9000e-004**	**0.0335**		**120.8584**	**120.8584**	**3.3400e-003**		**120.9418**

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	45.5755					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**45.7801**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**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	0.0442	0.0293	0.4088	1.2100e-003	0.1133	9.6000e-004	0.1143	0.0303	8.9000e-004	0.0311		120.8584	120.8584	3.3400e-003		120.9418
Total	**0.0442**	**0.0293**	**0.4088**	**1.2100e-003**	**0.1133**	**9.6000e-004**	**0.1143**	**0.0303**	**8.9000e-004**	**0.0311**		**120.8584**	**120.8584**	**3.3400e-003**		**120.9418**

3.6 Portable Building Haul - 2022

Unmitigated 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	**1.8555**	**14.6040**	**14.3533**	**0.0250**		**0.7022**	**0.7022**		**0.6731**	**0.6731**		**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

Unmitigated 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	0.0476	1.4951	0.3735	4.6200e-003	0.1049	4.2900e-003	0.1092	0.0288	4.1100e-003	0.0329		501.8610	501.8610	0.0340		502.7097
Vendor	0.0599	1.9389	0.5043	5.3500e-003	0.1345	3.6400e-003	0.1381	0.0387	3.4900e-003	0.0422		572.2204	572.2204	0.0328		573.0413
Worker	0.2168	0.1437	2.0067	5.9500e-003	0.6036	4.7200e-003	0.6083	0.1601	4.3500e-003	0.1644		593.3047	593.3047	0.0164		593.7140
Total	**0.3243**	**3.5778**	**2.8845**	**0.0159**	**0.8430**	**0.0127**	**0.8556**	**0.2276**	**0.0120**	**0.2395**		**1,667.3860**	**1,667.3860**	**0.0832**		**1,669.4650**

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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	**1.8555**	**14.6040**	**14.3533**	**0.0250**		**0.7022**	**0.7022**		**0.6731**	**0.6731**	**0.0000**	**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

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	0.0476	1.4951	0.3735	4.6200e-003	0.0978	4.2900e-003	0.1021	0.0270	4.1100e-003	0.0311		501.8610	501.8610	0.0340		502.7097
Vendor	0.0599	1.9389	0.5043	5.3500e-003	0.1258	3.6400e-003	0.1295	0.0366	3.4900e-003	0.0401		572.2204	572.2204	0.0328		573.0413
Worker	0.2168	0.1437	2.0067	5.9500e-003	0.5564	4.7200e-003	0.5611	0.1485	4.3500e-003	0.1528		593.3047	593.3047	0.0164		593.7140
Total	**0.3243**	**3.5778**	**2.8845**	**0.0159**	**0.7800**	**0.0127**	**0.7926**	**0.2121**	**0.0120**	**0.2240**		**1,667.3860**	**1,667.3860**	**0.0832**		**1,669.4650**

3.7 Paving - 2022

Unmitigated 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	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.1234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0646**	**9.3322**	**11.6970**	**0.0179**		**0.4879**	**0.4879**		**0.4500**	**0.4500**		**1,709.6892**	**1,709.6892**	**0.5419**		**1,723.2356**

Unmitigated 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	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.0602**	**0.0399**	**0.5574**	**1.6500e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**164.8069**	**164.8069**	**4.5500e-003**		**164.9206**

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	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356

Paving	0.1234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0646**	**9.3322**	**11.6970**	**0.0179**		**0.4879**	**0.4879**		**0.4500**	**0.4500**	**0.0000**	**1,709.6892**	**1,709.6892**	**0.5419**		**1,723.2356**

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	0.0602	0.0399	0.5574	1.6500e-003	0.1546	1.3100e-003	0.1559	0.0413	1.2100e-003	0.0425		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.0602**	**0.0399**	**0.5574**	**1.6500e-003**	**0.1546**	**1.3100e-003**	**0.1559**	**0.0413**	**1.2100e-003**	**0.0425**		**164.8069**	**164.8069**	**4.5500e-003**		**164.9206**

3.8 Finishing/Landscaping - 2022

Unmitigated 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	0.4503	4.4432	7.1883	0.0113		0.2052	0.2052		0.1888	0.1888		1,094.8749	1,094.8749	0.3541		1,103.7275
Total	**0.4503**	**4.4432**	**7.1883**	**0.0113**		**0.2052**	**0.2052**		**0.1888**	**0.1888**		**1,094.8749**	**1,094.8749**	**0.3541**		**1,103.7275**

Unmitigated 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	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0321**	**0.0213**	**0.2973**	**8.8000e-004**	**0.0894**	**7.0000e-004**	**0.0901**	**0.0237**	**6.4000e-004**	**0.0244**		**87.8970**	**87.8970**	**2.4300e-003**		**87.9576**

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	0.4503	4.4432	7.1883	0.0113		0.2052	0.2052		0.1888	0.1888	0.0000	1,094.8749	1,094.8749	0.3541		1,103.7275
Total	**0.4503**	**4.4432**	**7.1883**	**0.0113**		**0.2052**	**0.2052**		**0.1888**	**0.1888**	**0.0000**	**1,094.8749**	**1,094.8749**	**0.3541**		**1,103.7275**

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	0.0321	0.0213	0.2973	8.8000e-004	0.0824	7.0000e-004	0.0831	0.0220	6.4000e-004	0.0226		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0321**	**0.0213**	**0.2973**	**8.8000e-004**	**0.0824**	**7.0000e-004**	**0.0831**	**0.0220**	**6.4000e-004**	**0.0226**		**87.8970**	**87.8970**	**2.4300e-003**		**87.9576**

92nd Street Elementary School - Construction Phase 2 - Los Angeles-South Coast County, Winter

92nd Street Elementary School - Construction Phase 2

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	35.13	1000sqft	0.81	35,130.00	0
Other Asphalt Surfaces	69.70	1000sqft	1.60	69,700.00	0
Parking Lot	22.63	1000sqft	0.52	22,630.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Refer to CalEEMod inputs.

Construction Phase - Refer to CalEEMod inputs.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Refer to CalEEMod inputs.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - 140 demo hauling trips added. 60 portable building haul trips added.

Demolition -

Architectural Coating - Modernization added to non-residential interior and exterior area. Parking area based on CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403, 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	17,565.00	50,114.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	52,695.00	150,341.00
tblArchitecturalCoating	ConstArea_Parking	5,540.00	6,036.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	220.00	170.00
tblConstructionPhase	NumDays	220.00	10.00
tblConstructionPhase	NumDays	20.00	90.00
tblConstructionPhase	NumDays	6.00	45.00
tblConstructionPhase	NumDays	10.00	45.00
tblGrading	AcresOfGrading	22.50	3.00
tblTripsAndVMT	HaulingTripNumber	115.00	140.00
tblTripsAndVMT	HaulingTripNumber	0.00	60.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated 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					
2021	2.3695	20.2461	17.1411	0.0361	6.2046	1.0434	7.1212	3.3475	0.9738	4.1908	0.0000	3,429.3767	3,429.3767	0.6486	0.0000	3,441.9668
2022	45.8293	18.2089	17.1382	0.0404	0.8430	0.7150	1.5580	0.2276	0.6852	0.9128	0.0000	3,897.4764	3,897.4764	0.5461	0.0000	3,910.6546
Maximum	**45.8293**	**20.2461**	**17.1411**	**0.0404**	**6.2046**	**1.0434**	**7.1212**	**3.3475**	**0.9738**	**4.1908**	**0.0000**	**3,897.4764**	**3,897.4764**	**0.6486**	**0.0000**	**3,910.6546**

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					
2021	2.3695	20.2461	17.1411	0.0361	2.7077	1.0434	3.6244	1.4459	0.9738	2.2892	0.0000	3,429.3767	3,429.3767	0.6486	0.0000	3,441.9668
2022	45.8293	18.2089	17.1382	0.0404	0.7800	0.7150	1.4950	0.2121	0.6852	0.8973	0.0000	3,897.4764	3,897.4764	0.5461	0.0000	3,910.6546
Maximum	**45.8293**	**20.2461**	**17.1411**	**0.0404**	**2.7077**	**1.0434**	**3.6244**	**1.4459**	**0.9738**	**2.2892**	**0.0000**	**3,897.4764**	**3,897.4764**	**0.6486**	**0.0000**	**3,910.6546**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**50.51**	**0.00**	**41.02**	**53.62**	**0.00**	**37.56**	**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	Demolition	Demolition	5/3/2021	9/3/2021	5	90	
2	Grading + Trenching	Grading	9/6/2021	11/5/2021	5	45	
3	Building Construction	Building Construction	11/8/2021	7/1/2022	5	170	
4	Architectural Coating	Architectural Coating	7/4/2022	8/1/2022	5	21	

5	Portable Building Haul	Building Construction	8/2/2022	8/15/2022	5	10	
6	Paving	Paving	8/16/2022	10/17/2022	5	45	
7	Finishing/Landscaping	Trenching	10/18/2022	11/16/2022	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.12

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 150,341; Non-Residential Outdoor: 50,114; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading + Trenching	Graders	1	8.00	187	0.41
Grading + Trenching	Rubber Tired Dozers	1	8.00	247	0.40
Grading + Trenching	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Portable Building Haul	Cranes	1	8.00	231	0.29
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing/Landscaping	Excavators	1	8.00	158	0.38

Finishing/Landscaping	Paving Equipment	1	8.00	132	0.36
Finishing/Landscaping	Skid Steer Loaders	1	8.00	65	0.37
Portable Building Haul	Forklifts	2	7.00	89	0.20
Portable Building Haul	Generator Sets	1	8.00	84	0.74
Portable Building Haul	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Portable Building Haul	Welders	3	8.00	46	0.45

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
Demolition	5	13.00	0.00	140.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading + Trenching	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	54.00	21.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Portable Building Haul	8	54.00	21.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2021

Unmitigated 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					0.2761	0.0000	0.2761	0.0418	0.0000	0.0418			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**0.2761**	**1.0409**	**1.3170**	**0.0418**	**0.9715**	**1.0133**		**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

Unmitigated 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	0.0133	0.4224	0.1038	1.1900e-003	0.0272	1.3000e-003	0.0285	7.4600e-003	1.2400e-003	8.7000e-003		129.3885	129.3885	9.2500e-003		129.6198
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	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952
Total	**0.0753**	**0.4648**	**0.5825**	**2.5900e-003**	**0.1725**	**2.4700e-003**	**0.1750**	**0.0460**	**2.3200e-003**	**0.0483**		**268.7811**	**268.7811**	**0.0134**		**269.1149**

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					0.1180	0.0000	0.1180	0.0179	0.0000	0.0179			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**0.1180**	**1.0409**	**1.1589**	**0.0179**	**0.9715**	**0.9893**	**0.0000**	**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

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	0.0133	0.4224	0.1038	1.1900e-003	0.0254	1.3000e-003	0.0267	7.0000e-003	1.2400e-003	8.2500e-003		129.3885	129.3885	9.2500e-003		129.6198
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	0.0620	0.0424	0.4787	1.4000e-003	0.1339	1.1700e-003	0.1351	0.0358	1.0800e-003	0.0368		139.3926	139.3926	4.1000e-003		139.4952
Total	**0.0753**	**0.4648**	**0.5825**	**2.5900e-003**	**0.1593**	**2.4700e-003**	**0.1618**	**0.0428**	**2.3200e-003**	**0.0451**		**268.7811**	**268.7811**	**0.0134**		**269.1149**

3.3 Grading + Trenching - 2021

Unmitigated 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					6.0928	0.0000	6.0928	3.3179	0.0000	3.3179			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**6.0928**	**0.9158**	**7.0085**	**3.3179**	**0.8425**	**4.1604**		**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

Unmitigated 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	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	**0.0477**	**0.0326**	**0.3683**	**1.0800e-003**	**0.1118**	**9.0000e-004**	**0.1127**	**0.0296**	**8.3000e-004**	**0.0305**		**107.2251**	**107.2251**	**3.1600e-003**		**107.3040**

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					2.6047	0.0000	2.6047	1.4184	0.0000	1.4184			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**2.6047**	**0.9158**	**3.5204**	**1.4184**	**0.8425**	**2.2609**	**0.0000**	**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

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	0.0477	0.0326	0.3683	1.0800e-003	0.1030	9.0000e-004	0.1039	0.0275	8.3000e-004	0.0283		107.2251	107.2251	3.1600e-003		107.3040
Total	**0.0477**	**0.0326**	**0.3683**	**1.0800e-003**	**0.1030**	**9.0000e-004**	**0.1039**	**0.0275**	**8.3000e-004**	**0.0283**		**107.2251**	**107.2251**	**3.1600e-003**		**107.3040**

3.4 Building Construction - 2021

Unmitigated 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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	**2.0451**	**16.0275**	**14.5629**	**0.0250**		**0.8173**	**0.8173**		**0.7831**	**0.7831**		**2,288.9355**	**2,288.9355**	**0.4503**		**2,300.1935**

Unmitigated 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	0.0670	2.0347	0.5896	5.2500e-003	0.1344	4.3000e-003	0.1388	0.0387	4.1100e-003	0.0428		561.4256	561.4256	0.0362		562.3317
Worker	0.2575	0.1761	1.9886	5.8100e-003	0.6036	4.8800e-003	0.6085	0.1601	4.4900e-003	0.1646		579.0156	579.0156	0.0170		579.4415
Total	**0.3245**	**2.2108**	**2.5782**	**0.0111**	**0.7380**	**9.1800e-003**	**0.7472**	**0.1988**	**8.6000e-003**	**0.2074**		**1,140.4412**	**1,140.4412**	**0.0533**		**1,141.7732**

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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	**2.0451**	**16.0275**	**14.5629**	**0.0250**		**0.8173**	**0.8173**		**0.7831**	**0.7831**	**0.0000**	**2,288.9355**	**2,288.9355**	**0.4503**		**2,300.1935**

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	0.0670	2.0347	0.5896	5.2500e-003	0.1258	4.3000e-003	0.1301	0.0366	4.1100e-003	0.0407		561.4256	561.4256	0.0362		562.3317
Worker	0.2575	0.1761	1.9886	5.8100e-003	0.5564	4.8800e-003	0.5612	0.1485	4.4900e-003	0.1530		579.0156	579.0156	0.0170		579.4415
Total	**0.3245**	**2.2108**	**2.5782**	**0.0111**	**0.6822**	**9.1800e-003**	**0.6914**	**0.1851**	**8.6000e-003**	**0.1937**		**1,140.4412**	**1,140.4412**	**0.0533**		**1,141.7732**

3.4 Building Construction - 2022

Unmitigated 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	**1.8555**	**14.6040**	**14.3533**	**0.0250**		**0.7022**	**0.7022**		**0.6731**	**0.6731**		**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

Unmitigated 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	0.0629	1.9337	0.5581	5.2000e-003	0.1345	3.7600e-003	0.1382	0.0387	3.6000e-003	0.0423		556.4376	556.4376	0.0350		557.3119
Worker	0.2418	0.1591	1.8316	5.6100e-003	0.6036	4.7200e-003	0.6083	0.1601	4.3500e-003	0.1644		558.6675	558.6675	0.0154		559.0521
Total	**0.3047**	**2.0927**	**2.3897**	**0.0108**	**0.7380**	**8.4800e-003**	**0.7465**	**0.1988**	**7.9500e-003**	**0.2067**		**1,115.1051**	**1,115.1051**	**0.0504**		**1,116.3639**

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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

Total	**1.8555**	**14.6040**	**14.3533**	**0.0250**		**0.7022**	**0.7022**		**0.6731**	**0.6731**	**0.0000**	**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

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	0.0629	1.9337	0.5581	5.2000e-003	0.1258	3.7600e-003	0.1296	0.0366	3.6000e-003	0.0402		556.4376	556.4376	0.0350		557.3119
Worker	0.2418	0.1591	1.8316	5.6100e-003	0.5564	4.7200e-003	0.5611	0.1485	4.3500e-003	0.1528		558.6675	558.6675	0.0154		559.0521
Total	**0.3047**	**2.0927**	**2.3897**	**0.0108**	**0.6822**	**8.4800e-003**	**0.6907**	**0.1851**	**7.9500e-003**	**0.1930**		**1,115.1051**	**1,115.1051**	**0.0504**		**1,116.3639**

3.5 Architectural Coating - 2022

Unmitigated 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	45.5755					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**45.7801**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated 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	0.0493	0.0324	0.3731	1.1400e-003	0.1230	9.6000e-004	0.1239	0.0326	8.9000e-004	0.0335		113.8026	113.8026	3.1300e-003		113.8810
Total	**0.0493**	**0.0324**	**0.3731**	**1.1400e-003**	**0.1230**	**9.6000e-004**	**0.1239**	**0.0326**	**8.9000e-004**	**0.0335**		**113.8026**	**113.8026**	**3.1300e-003**		**113.8810**

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	45.5755					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**45.7801**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**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	0.0493	0.0324	0.3731	1.1400e-003	0.1133	9.6000e-004	0.1143	0.0303	8.9000e-004	0.0311		113.8026	113.8026	3.1300e-003		113.8810
Total	**0.0493**	**0.0324**	**0.3731**	**1.1400e-003**	**0.1133**	**9.6000e-004**	**0.1143**	**0.0303**	**8.9000e-004**	**0.0311**		**113.8026**	**113.8026**	**3.1300e-003**		**113.8810**

3.6 Portable Building Haul - 2022

Unmitigated 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	**1.8555**	**14.6040**	**14.3533**	**0.0250**		**0.7022**	**0.7022**		**0.6731**	**0.6731**		**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

Unmitigated 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	0.0488	1.5122	0.3953	4.5400e-003	0.1049	4.3600e-003	0.1093	0.0288	4.1700e-003	0.0329		493.0900	493.0900	0.0351		493.9677
Vendor	0.0629	1.9337	0.5581	5.2000e-003	0.1345	3.7600e-003	0.1382	0.0387	3.6000e-003	0.0423		556.4376	556.4376	0.0350		557.3119
Worker	0.2418	0.1591	1.8316	5.6100e-003	0.6036	4.7200e-003	0.6083	0.1601	4.3500e-003	0.1644		558.6675	558.6675	0.0154		559.0521
Total	**0.3535**	**3.6049**	**2.7849**	**0.0154**	**0.8430**	**0.0128**	**0.8558**	**0.2276**	**0.0121**	**0.2397**		**1,608.1951**	**1,608.1951**	**0.0855**		**1,610.3316**

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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	**1.8555**	**14.6040**	**14.3533**	**0.0250**		**0.7022**	**0.7022**		**0.6731**	**0.6731**	**0.0000**	**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

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	0.0488	1.5122	0.3953	4.5400e-003	0.0978	4.3600e-003	0.1021	0.0270	4.1700e-003	0.0312		493.0900	493.0900	0.0351		493.9677
Vendor	0.0629	1.9337	0.5581	5.2000e-003	0.1258	3.7600e-003	0.1296	0.0366	3.6000e-003	0.0402		556.4376	556.4376	0.0350		557.3119
Worker	0.2418	0.1591	1.8316	5.6100e-003	0.5564	4.7200e-003	0.5611	0.1485	4.3500e-003	0.1528		558.6675	558.6675	0.0154		559.0521
Total	**0.3535**	**3.6049**	**2.7849**	**0.0154**	**0.7800**	**0.0128**	**0.7928**	**0.2121**	**0.0121**	**0.2242**		**1,608.1951**	**1,608.1951**	**0.0855**		**1,610.3316**

3.7 Paving - 2022

Unmitigated 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	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.1234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0646**	**9.3322**	**11.6970**	**0.0179**		**0.4879**	**0.4879**		**0.4500**	**0.4500**		**1,709.6892**	**1,709.6892**	**0.5419**		**1,723.2356**

Unmitigated 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	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	**0.0672**	**0.0442**	**0.5088**	**1.5600e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**155.1854**	**155.1854**	**4.2700e-003**		**155.2922**

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	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356

Paving	0.1234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0646**	**9.3322**	**11.6970**	**0.0179**		**0.4879**	**0.4879**		**0.4500**	**0.4500**	**0.0000**	**1,709.6892**	**1,709.6892**	**0.5419**		**1,723.2356**

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	0.0672	0.0442	0.5088	1.5600e-003	0.1546	1.3100e-003	0.1559	0.0413	1.2100e-003	0.0425		155.1854	155.1854	4.2700e-003		155.2922
Total	**0.0672**	**0.0442**	**0.5088**	**1.5600e-003**	**0.1546**	**1.3100e-003**	**0.1559**	**0.0413**	**1.2100e-003**	**0.0425**		**155.1854**	**155.1854**	**4.2700e-003**		**155.2922**

3.8 Finishing/Landscaping - 2022

Unmitigated 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	0.4503	4.4432	7.1883	0.0113		0.2052	0.2052		0.1888	0.1888		1,094.8749	1,094.8749	0.3541		1,103.7275
Total	**0.4503**	**4.4432**	**7.1883**	**0.0113**		**0.2052**	**0.2052**		**0.1888**	**0.1888**		**1,094.8749**	**1,094.8749**	**0.3541**		**1,103.7275**

Unmitigated 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	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0358**	**0.0236**	**0.2713**	**8.3000e-004**	**0.0894**	**7.0000e-004**	**0.0901**	**0.0237**	**6.4000e-004**	**0.0244**		**82.7656**	**82.7656**	**2.2800e-003**		**82.8225**

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	0.4503	4.4432	7.1883	0.0113		0.2052	0.2052		0.1888	0.1888	0.0000	1,094.8749	1,094.8749	0.3541		1,103.7275
Total	**0.4503**	**4.4432**	**7.1883**	**0.0113**		**0.2052**	**0.2052**		**0.1888**	**0.1888**	**0.0000**	**1,094.8749**	**1,094.8749**	**0.3541**		**1,103.7275**

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	0.0358	0.0236	0.2713	8.3000e-004	0.0824	7.0000e-004	0.0831	0.0220	6.4000e-004	0.0226		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0358**	**0.0236**	**0.2713**	**8.3000e-004**	**0.0824**	**7.0000e-004**	**0.0831**	**0.0220**	**6.4000e-004**	**0.0226**		**82.7656**	**82.7656**	**2.2800e-003**		**82.8225**

Construction Localized Significance Thresholds: Site Preparation

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
12	0.25	25	82	0.25

Source Receptor	South Central LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**46**	Graders	0.5	0.0625	8	1	0.5
CO	**231**	Dozers	0.5	0.0625	0	0	0
PM10	**4.00**	Scrapers	1	0.125	0	0	0
PM2.5	**3.00**					**Acres**	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	46	46	54	70	109
	1	46	46	54	70	109
		46	46	54	70	109
CO	1	231	342	632	1545	5452
	1	231	342	632	1545	5452
		231	342	632	1545	5452
PM10	1	4	12	26	54	139
	1	4	12	26	54	139
		4	12	26	54	139
PM2.5	1	3	4	7	17	70
	1	3	4	7	17	70
		3	4	7	17	70

South Central LA County

0.25 Acres

	25	**50**	**100**	**200**	**500**
NOx	46	46	54	70	109
CO	231	342	632	1545	5452
PM10	4	12	26	54	139
PM2.5	3	4	7	17	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
12	1	12	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Utility Trenching

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
12	0.25	25	82	0.25

Source Receptor	South Central LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**46**	Graders	0.5	0.0625	0	0	0
CO	**231**	Dozers	0.5	0.0625	0	0	0
PM10	**4.00**	Scrapers	1	0.125	0	0	0
PM2.5	**3.00**					**Acres**	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	46	46	54	70	109
	1	46	46	54	70	109
		46	46	54	70	109
CO	1	231	342	632	1545	5452
	1	231	342	632	1545	5452
		231	342	632	1545	5452
PM10	1	4	12	26	54	139
	1	4	12	26	54	139
		4	12	26	54	139
PM2.5	1	3	4	7	17	70
	1	3	4	7	17	70
		3	4	7	17	70

South Central LA County

0.25 Acres

	25	**50**	**100**	**200**	**500**
NOx	46	46	54	70	109
CO	231	342	632	1545	5452
PM10	4	12	26	54	139
PM2.5	3	4	7	17	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
12	1	12	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Portable Installation

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
12	0.00	25	82	0.25

Source Receptor	South Central LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	0	0	0
NOx	**46**	Graders	0.5	0.0625	0	0	0
CO	**231**	Dozers	0.5	0.0625	0	0	0
PM10	**4.00**	Scrapers	1	0.125	0	0	0
PM2.5	**3.00**					**Acres**	0.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	46	46	54	70	109
	1	46	46	54	70	109
		46	46	54	70	109
CO	1	231	342	632	1545	5452
	1	231	342	632	1545	5452
		231	342	632	1545	5452
PM10	1	4	12	26	54	139
	1	4	12	26	54	139
		4	12	26	54	139
PM2.5	1	3	4	7	17	70
	1	3	4	7	17	70
		3	4	7	17	70

South Central LA County

0.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	46	46	54	70	109
CO	231	342	632	1545	5452
PM10	4	12	26	54	139
PM2.5	3	4	7	17	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
12	1	12	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Demolition

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
12	2.00	25	82	2.93

Source Receptor	South Central LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**65**	Graders	0.5	0.0625	0	0	0
CO	**346**	Dozers	0.5	0.0625	8	1	0.5
PM10	**7**	Scrapers	1	0.125	0	0	0
PM2.5	**4**					**Acres**	2.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	65	64	69	82	117
	2	65	64	69	82	117
		65	64	69	82	117
CO	2	346	515	841	1817	5962
	2	346	515	841	1817	5962
		346	515	841	1817	5962
PM10	2	7	20	34	62	146
	2	7	20	34	62	146
		7	20	34	62	146
PM2.5	2	4	6	9	19	74
	2	4	6	9	19	74
		4	6	9	19	74

South Central LA County

2.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	65	64	69	82	117
CO	346	515	841	1817	5962
PM10	7	20	34	62	146
PM2.5	4	6	9	19	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
12	2	12	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Grading + Utility Trenching

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
12	1.88	25	82	2.93

Source Receptor	South Central LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	7	2	0.875
NOx	**63**	Graders	0.5	0.0625	8	1	0.5
CO	**332**	Dozers	0.5	0.0625	8	1	0.5
PM10	**7**	Scrapers	1	0.125	0	0	0
PM2.5	**4**					**Acres**	1.88

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	46	46	54	70	109
	2	65	64	69	82	117
		63	62	67	81	116
CO	1	231	342	632	1545	5452
	2	346	515	841	1817	5962
		332	493	815	1783	5898
PM10	1	4	12	26	54	139
	2	7	20	34	62	146
		7	19	33	61	145
PM2.5	1	3	4	7	17	70
	2	4	6	9	19	74
		4	6	9	19	74

South Central LA County

1.88 Acres

	25	**50**	**100**	**200**	**500**
NOx	63	62	67	81	116
CO	332	493	815	1783	5898
PM10	7	19	33	61	145
PM2.5	4	6	9	19	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
12	1	12	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
12	0.38	25	82	2.93

Source Receptor	South Central LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	6	1	0.375
NOx	**46**	Graders	0.5	0.0625	0	0	0
CO	**231**	Dozers	0.5	0.0625	0	0	0
PM10	**4.00**	Scrapers	1	0.125	0	0	0
PM2.5	**3.00**					**Acres**	0.38

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	46	46	54	70	109
	1	46	46	54	70	109
		46	46	54	70	109
CO	1	231	342	632	1545	5452
	1	231	342	632	1545	5452
		231	342	632	1545	5452
PM10	1	4	12	26	54	139
	1	4	12	26	54	139
		4	12	26	54	139
PM2.5	1	3	4	7	17	70
	1	3	4	7	17	70
		3	4	7	17	70

South Central LA County

0.38 Acres

	25	**50**	**100**	**200**	**500**
NOx	46	46	54	70	109
CO	231	342	632	1545	5452
PM10	4	12	26	54	139
PM2.5	3	4	7	17	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
12	1	12	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Architectural Coating

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
12	0.00	25	82	2.93

Source Receptor	South Central LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	0	0	0
NOx	**46**	Graders	0.5	0.0625	0	0	0
CO	**231**	Dozers	0.5	0.0625	0	0	0
PM10	**4.00**	Scrapers	1	0.125	0	0	0
PM2.5	**3.00**					**Acres**	0.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	46	46	54	70	109
	1	46	46	54	70	109
		46	46	54	70	109
CO	1	231	342	632	1545	5452
	1	231	342	632	1545	5452
		231	342	632	1545	5452
PM10	1	4	12	26	54	139
	1	4	12	26	54	139
		4	12	26	54	139
PM2.5	1	3	4	7	17	70
	1	3	4	7	17	70
		3	4	7	17	70

South Central LA County

0.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	46	46	54	70	109
CO	231	342	632	1545	5452
PM10	4	12	26	54	139
PM2.5	3	4	7	17	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
12	1	12	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Portable Building Haul

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
12	0.00	25	82	2.93

Source Receptor	South Central LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	0	0	0
NOx	**46**	Graders	0.5	0.0625	0	0	0
CO	**231**	Dozers	0.5	0.0625	0	0	0
PM10	**4.00**	Scrapers	1	0.125	0	0	0
PM2.5	**3.00**					**Acres**	0.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	46	46	54	70	109
	1	46	46	54	70	109
		46	46	54	70	109
CO	1	231	342	632	1545	5452
	1	231	342	632	1545	5452
		231	342	632	1545	5452
PM10	1	4	12	26	54	139
	1	4	12	26	54	139
		4	12	26	54	139
PM2.5	1	3	4	7	17	70
	1	3	4	7	17	70
		3	4	7	17	70

South Central LA County

0.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	46	46	54	70	109
CO	231	342	632	1545	5452
PM10	4	12	26	54	139
PM2.5	3	4	7	17	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
12	1	12	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Paving

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
12	0.50	25	82	2.93

Source Receptor	South Central LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**46**	Graders	0.5	0.0625	0	0	0
CO	**231**	Dozers	0.5	0.0625	0	0	0
PM10	**4.00**	Scrapers	1	0.125	0	0	0
PM2.5	**3.00**					**Acres**	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	46	46	54	70	109
	1	46	46	54	70	109
		46	46	54	70	109
CO	1	231	342	632	1545	5452
	1	231	342	632	1545	5452
		231	342	632	1545	5452
PM10	1	4	12	26	54	139
	1	4	12	26	54	139
		4	12	26	54	139
PM2.5	1	3	4	7	17	70
	1	3	4	7	17	70
		3	4	7	17	70

South Central LA County

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	46	46	54	70	109
CO	231	342	632	1545	5452
PM10	4	12	26	54	139
PM2.5	3	4	7	17	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
12	1	12	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Finishing/Landscaping

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
12	0.00	25	82	2.93

Source Receptor	South Central LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	0	0	0
NOx	**46**	Graders	0.5	0.0625	0	0	0
CO	**231**	Dozers	0.5	0.0625	0	0	0
PM10	**4.00**	Scrapers	1	0.125	0	0	0
PM2.5	**3.00**					**Acres**	0.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	46	46	54	70	109
	1	46	46	54	70	109
		46	46	54	70	109
CO	1	231	342	632	1545	5452
	1	231	342	632	1545	5452
		231	342	632	1545	5452
PM10	1	4	12	26	54	139
	1	4	12	26	54	139
		4	12	26	54	139
PM2.5	1	3	4	7	17	70
	1	3	4	7	17	70
		3	4	7	17	70

South Central LA County

0.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	46	46	54	70	109
CO	231	342	632	1545	5452
PM10	4	12	26	54	139
PM2.5	3	4	7	17	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
12	1	12	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Regional Construction Emissions Worksheet - Unmitigated

*CalEEMod, Version 2016.3.2

Construction Phase 1 - Interim Portable Installation

Site Preparation

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2020**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.05	0.00
	Off-Road		0.69	8.43	4.09	0.01	0.34	0.31
	Total		**0.69**	**8.43**	**4.09**	**0.01**	**0.38**	**0.31**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.03	0.02	0.22	0.00	0.05	0.01
	Total		**0.03**	**0.02**	**0.22**	**0.00**	**0.05**	**0.01**
TOTAL			***0.71***	***8.45***	***4.31***	***0.01***	***0.43***	***0.33***

Utility Trenching

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2019**						
	Off-Road		0.45	4.52	5.55	0.01	0.25	0.23
	Total		**0.45**	**4.52**	**5.55**	**0.01**	**0.25**	**0.23**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.03	0.02	0.22	0.00	0.05	0.01
	Total		**0.03**	**0.02**	**0.22**	**0.00**	**0.05**	**0.01**
TOTAL			***0.48***	***4.54***	***5.77***	***0.01***	***0.30***	***0.24***

Portable Installation

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2020**						
	Off-Road		0.86	8.85	7.39	0.01	0.52	0.48
	Total		**0.86**	**8.85**	**7.39**	**0.01**	**0.52**	**0.48**
Offsite								
	Hauling		0.05	1.75	0.41	0.00	0.10	0.03
	Vendor		0.01	0.21	0.06	0.00	0.01	0.00
	Worker		0.03	0.02	0.22	0.00	0.05	0.01
	Total		**0.09**	**1.98**	**0.67**	**0.01**	**0.17**	**0.05**
TOTAL			***0.95***	***10.83***	***8.06***	***0.02***	***0.69***	***0.53***

Construction Phase 2 - Interim Portable Installation

Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2021**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.12	0.02
	Off-Road		1.99	19.70	14.49	0.02	1.04	0.97
	Total		**1.99**	**19.70**	**14.49**	**0.02**	**1.16**	**0.99**
Offsite								
	Hauling		0.01	0.42	0.10	0.00	0.03	0.01
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.06	0.04	0.52	0.00	0.14	0.04

	Total	**0.08**	**0.46**	**0.62**	**0.00**	**0.16**	**0.05**
TOTAL		***2.07***	***20.16***	***15.11***	***0.03***	***1.32***	***1.03***

Grading + Trenching

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021**						
	Fugitive Dust	0.00	0.00	0.00	0.00	2.60	1.42
	Off-Road	1.83	20.21	9.76	0.02	0.92	0.84
	Total	**1.83**	**20.21**	**9.76**	**0.02**	**3.52**	**2.26**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.05	0.03	0.40	0.00	0.10	0.03
	Total	**0.05**	**0.03**	**0.40**	**0.00**	**0.10**	**0.03**
TOTAL		***1.87***	***20.25***	***10.16***	***0.02***	***3.62***	***2.29***

Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021-2022**						
	Off-Road	2.05	16.03	14.56	0.03	0.82	0.78
	Total	**2.05**	**16.03**	**14.56**	**0.03**	**0.82**	**0.78**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.07	2.04	0.59	0.01	0.13	0.04
	Worker	0.26	0.18	2.18	0.01	0.56	0.15
	Total	**0.32**	**2.21**	**2.71**	**0.01**	**0.69**	**0.19**
TOTAL		***2.37***	***18.24***	***17.27***	***0.04***	***1.51***	***0.98***

Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022**						
	Architectural Coating	45.58	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.20	1.41	1.81	0.00	0.08	0.08
	Total	**45.78**	**1.41**	**1.81**	**0.00**	**0.08**	**0.08**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.05	0.03	0.41	0.00	0.11	0.03
	Total	**0.05**	**0.03**	**0.41**	**0.00**	**0.11**	**0.03**
TOTAL		***45.83***	***1.44***	***2.22***	***0.00***	***0.20***	***0.11***

Portable Building Haul

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022**						
	Off-Road	1.86	14.60	14.35	0.03	0.70	0.67
	Total	**1.86**	**14.60**	**14.35**	**0.03**	**0.70**	**0.67**
Offsite							
	Hauling	0.05	1.51	0.40	0.00	0.10	0.03
	Vendor	0.06	1.94	0.56	0.01	0.13	0.04
	Worker	0.24	0.16	2.01	0.01	0.56	0.15
	Total	**0.35**	**3.60**	**2.88**	**0.02**	**0.79**	**0.22**
TOTAL		***2.21***	***18.21***	***17.24***	***0.04***	***1.50***	***0.90***

Paving							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022**						
	Off-Road	0.94	9.33	11.70	0.02	0.49	0.45
	Paving	0.12	0.00	0.00	0.00	0.00	0.00
	Total	**1.06**	**9.33**	**11.70**	**0.02**	**0.49**	**0.45**
Offsite							
	Hauling	0.05	1.73	0.38	0.00	0.10	0.03
	Vendor	0.01	0.21	0.06	0.00	0.01	0.00
	Worker	0.07	0.04	0.51	0.00	0.16	0.04
	Total	**0.08**	**1.95**	**0.66**	**0.01**	**0.17**	**0.05**
TOTAL		***1.15***	***11.29***	***12.35***	***0.02***	***0.66***	***0.50***

Finishing/Landscaping							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022**						
	Off-Road	0.45	4.44	7.19	0.01	0.21	0.19
	Total	**0.45**	**4.44**	**7.19**	**0.01**	**0.21**	**0.19**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.04	0.02	0.30	0.00	0.08	0.02
	Total	**0.04**	**0.02**	**0.30**	**0.00**	**0.08**	**0.02**
TOTAL		***0.49***	***4.47***	***7.49***	***0.01***	***0.29***	***0.21***

MAX DAILY	**46**	**20**	**17**	**0**	**4**	**2**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Localized Construction Emissions Worksheet - Unmitigated

*CalEEMod, Version 2016.3.2

Construction Phase 1						
Site Preparation						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020**				
	Fugitive Dust		0.00	0.00	0.05	0.00
	Off-Road		8.43	4.09	0.34	0.31
	Total		**8.43**	**4.09**	**0.38**	**0.31**
Site Preparation 1.00-acres LST			**46**	**231**	**4**	**3**
Exceed Threshold?			No	No	No	No
Utility Trenching						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020**				
	Off-Road		4.52	5.55	0.25	0.23
	Total		**4.52**	**5.55**	**0.25**	**0.23**
Utility Trenching 1.00-acres LST			**46**	**231**	**4**	**3**
Exceed Threshold?			No	No	No	No

Portable Installation					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
Off-Road		8.85	7.39	0.52	0.48
Total		**8.85**	**7.39**	**0.52**	**0.48**
Portable Installation 1.00-acres LST		**46**	**231**	**4**	**3**
Exceeds Thresholds?		No	No	No	No

Construction Phase 2					
Demolition					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2021**				
Fugitive Dust		0.00	0.00	0.12	0.02
Off-Road		19.70	14.49	1.04	0.97
Total		**19.70**	**14.49**	**1.16**	**0.99**
Demolition 2.00-acres LST		**65**	**346**	**7**	**4**
Exceed Threshold?		No	No	No	No

Grading + Utility Trenching					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2021**				
Fugitive Dust		0.00	0.00	2.60	1.42
Off-Road		20.21	9.76	0.92	0.84
Total		**20.21**	**9.76**	**3.52**	**2.26**
Grading + Utility Trenching 1.88-acres LST		**63**	**332**	**7**	**4**
Exceed Threshold?		No	No	No	No

Building Construction					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2021-2022**				
Off-Road		16.03	14.56	0.82	0.78
Total		**16.03**	**14.56**	**0.82**	**0.78**
Building Construction 1.00-acres LST		**103**	**562**	**4**	**3**
Exceeds Thresholds?		No	No	No	No

Architectural Coating					
		NOx	CO	PM10 Total	PM2.5 Total

Onsite		**2022**				
	Architectural Coating		0.00	0.00	0.00	0.00
	Off-Road		1.41	1.81	0.08	0.08
	Total		**1.41**	**1.81**	**0.08**	**0.08**
Architectural Coating 1.00-acres LST			**103**	**562**	**4**	**3**
Exceeds Thresholds?			No	No	No	No
Portable Building Haul						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Off-Road		14.60	14.35	0.70	0.67
	Total		**14.60**	**14.35**	**0.70**	**0.67**
Portable Building Haul 1.00-acres LST			**103**	**562**	**4**	**3**
Exceeds Thresholds?			No	No	No	No
Paving						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Off-Road		9.33	11.70	0.49	0.45
	Paving		0.00	0.00	0.00	0.00
	Total		**9.33**	**11.70**	**0.49**	**0.45**
Paving 1.00-acres LST			**103**	**562**	**4**	**3**
Exceeds Thresholds?			No	No	No	No
Finishing/Landscaping						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Off-Road		4.44	7.19	0.21	0.19
	Total		**4.44**	**7.19**	**0.21**	**0.19**
Finishing/Landscaping 1.00-acres LST			**103**	**562**	**4**	**3**
Exceeds Thresholds?			No	No	No	No

GHG Emissions Inventory

Construction

	$MTCO_2e$ Total**
2020	27.7786
2021	212.6424
2022	274.4419
Total Construction	**515**

Amortized Construction Emissions***	**17**	$MTCO_2e$/Year
Total	**17**	**$MTCO_2e$/Year**

*CalEEMod, Version 2016.3.2.

** $MTCO_2e$=metric tons of carbon dioxide equivalent.

*** Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2.

GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

2020 Scoping Plan Emissions Inventory

Source: CARB 1990 Inventory. California Air Resources Board. 2007, November. California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — Summary by Economic Sector. https://www.arb.ca.gov/cc/inventory/1990level/1990data.htm

1990 End Use Sector	MTCO2e	MMTCO2e	Notes
Electricity	94,754,207	94.8	Removed Industrial
Transportation	137,901,182	137.9	On-Road Only
Landfills	7,447,544	7.4	Landfill
Wastewater	3,183,648	3.2	Domestic Wastewater Treatment
Commercial	13,848,597	13.8	Removed National Security
Residential	29,740,487	29.7	Includes all
TOTAL LAND USE	286,875,666	286.9	

2017 Scoping Plan Emissions Inventory

Source: Pathways Main Outputs Final (Dec 2017). California Air Resources Board. 2017, December. The 2017 Climate Change Scoping Plan Update: The Proposed Strategy for Achieving California's 2030 Greenhouse Gas Target. https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf.

End Use Sector 2030	MMTCO2e				
	Reference Scenario	Scoping Plan Scenario	Change	Percent Change	Sector Definition
Residential	46.5	41.4	-5.1	-11.0%	Residential final energy consumption
Commercial	36.00	30.1	-5.90	-16.4%	Commercial final energy consumption
Transportation	123.1	105.1	-18	-14.6%	Transportation energy consumption
Industrial*	33.8	30.7	-3.1	-9.2%	Industrial manufacturing final energy consumption,
Oil & Gas Extraction*	19.5	19.4	-0.1	-0.5%	Energy used in the extraction of oil and gas
Petroleum Refining*	32.6	32.5	-0.1	-0.3%	Energy used in petroleum Refining
Agriculture	7.7	6.8	-0.9	-11.7%	Energy use of physical infrastructure of agriculture, like buildings and pumps
Transportation Communications and Utilities	5.5	5.00	-0.5	-9.1%	Transportation Communications and Utilities (TCU) energy supports public infrastructure, like street lighting and waste treatment facilities
Non-Energy GHGs*	84.3	49.4	-34.9	-41.40%	Examples of non-energy GHG emissions include methane and N2O emissions from agriculture and waste, refrigerant F-gases, and emissions from cement production
Solid Waste Non-Energy GHGs	10.7	9.1	-1.6	-14.95%	Isolated the Solid Waste Subsector
Unspecified	0	0	0	n/a	
	389	320.4	-68.6	-17.63%	
Target	260	260			
Gap	-129	-60.4			

CARB 2017 Scoping Plan Assumes GAP from the Scoping Plan Scenario is closed by the Cap-and-Trade

GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

STATEWIDE SERVICE POPULATION CALCULATIONS

Population	
2020	40,639,392
2021	40,980,939
2022	41,321,565
2023	41,659,526
2024	41,994,283
2025	42,326,397
2026	42,655,695
2027	42,981,484
2028	43,304,691
2029	43,624,393
2030	43,939,250
2031	44,250,503
2032	44,556,617
2033	44,856,079
2034	45,150,800
2035	45,440,735
2036	45,726,459
2037	46,006,009
2038	46,277,743
2039	46,544,307
2040	46,804,202
2050	49,077,801

California Department of Finance. 2018, March 8. Report P-1 (County): State and County Total Population Projections, 2010-2060 (1 -year increments).http://www.dof.ca.gov/Forecasting/Demographics/Projections/

CALIFORNIA SERVICE POPULATION (ESTIMATE)

Employment

	Total Employment	Farm Employment	Natural Resources and Mining Employment	Manufacturing + Durable Manufacturing Employment	Employment w/o Industrial and Agricultural Sectors
2020	17,630,930	418,171	22,268	2,177,747	15,012,744
2021	17,787,640	417,961	22,388	2,184,418	15,162,873

GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

2022	17,939,780	418,291	22,578	2,190,008	15,308,902
2023	18,083,910	418,582	22,538	2,192,829	15,449,961
2024	18,224,870	418,862	22,398	2,195,081	15,588,529
2025	18,370,230	419,122	22,188	2,204,979	15,723,941
2026	18,511,920	419,372	22,198	2,215,447	15,854,903
2027	18,648,200	419,612	22,408	2,224,416	15,981,764
2028	18,808,150	419,872	22,438	2,229,397	16,136,443
2029	18,971,340	420,142	22,478	2,234,398	16,294,322
2030	19,137,080	420,402	22,508	2,239,408	16,454,761
2031	19,299,670	420,673	22,538	2,244,399	16,612,060
2032	19,458,160	420,933	22,578	2,249,420	16,765,229
2033	19,615,470	421,203	22,608	2,254,441	16,917,218
2034	19,770,890	421,463	22,648	2,259,502	17,067,277
2035	19,924,140	421,733	22,678	2,264,562	17,215,166
2036	20,078,780	421,993	22,718	2,269,643	17,364,425
2037	20,235,200	422,263	22,748	2,274,724	17,515,465
2038	20,395,030	422,523	22,788	2,279,835	17,669,884
2039	20,551,830	422,794	22,818	2,284,955	17,821,263
2040	20,709,630	423,054	22,859	2,290,086	17,973,632
2050	22,371,010	425,715	23,209	2,342,246	19,579,840

California Department of Transportation. 2017. Long-Term Socio-Economic Forecasts by County.
http://www.dot.ca.gov/hq/tpp/offices/eab/socio_economic.html

Service Population (SP)

	Total Employment	Employment w/o Industrial and Agricultural Sectors
2020	58,270,322	55,652,136
2021	58,768,579	56,143,812
2022	59,261,345	56,630,467
2023	59,743,436	57,109,487
2024	60,219,153	57,582,812
2025	60,696,627	58,050,338
2026	61,167,615	58,510,598
2027	61,629,684	58,963,248
2028	62,112,841	59,441,134
2029	62,595,733	59,918,715
2030	63,076,330	60,394,011
2031	63,550,173	60,862,563
2032	64,014,777	61,321,846
2033	64,471,549	61,773,297
2034	64,921,690	62,218,077
2035	65,364,875	62,655,901

GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

	2036	65,805,239	63,090,884
	2037	66,241,209	63,521,474
	2038	66,672,773	63,947,627
	2039	67,096,137	64,365,570
	2040	67,513,832	64,777,834
	2050	71,448,811	68,657,641

Project Horizon Year Estimate	2024
2024 population	41,994,283
2024 employment (w/o industrial & Ag)	15,588,529
2024 SP	57,582,812

2030 Scoping Plan - Efficiency Metric

Year 2020 Plan-Level		
2020 Target (Plan-Level)	MMTCO2e	431
2020 Per Capita Target	MTCO2e/pc	10.6
2020 Per Service Population Target (Plan-Level)	MTCO2e/sp	7.7
Year 2020 Project-Level		
2020 Target (Project-Level)	MMTCO2e	286.9
2020 Per Capita Target	MTCO2e/pc	7.1
2020 Per Service Population Target (Project-Level)	MTCO2e/sp	5.2
Year 2030 Plan-Level		
2030 Target (Plan-Level)	MMTCO2e	260
2030 Per Capita Target	MTCO2e/pc	5.9
2030 Per Service Population Target (Plan-Level)	MTCO2e/sp	4.3
Year 2030 Project-Level		
Land Use Inventory (Project-Level)	MMTCO2e	190.7
2030 Per Capita Target	MTCO2e/pc	4.3
2030 Per Service Population Target (Project-Level)	MTCO2e/sp	3.2
Year 2050 Plan-Level		
2050 Target estimated (Plan-Level)	MMTCO2e	86
2050 Per Capita Target	MTCO2e/pc	1.8
2050 Per Service Population Target (Plan-Level)	MTCO2e/sp	1.3
Year 2050 Project-Level		
2050 Target estimated (Plan-Level)	MMTCO2e	57
2050 Per Capita Target	MTCO2e/pc	1.2
2050 Per Service Population Target (Plan-Level)	MTCO2e/sp	0.8

GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

Project Horizon Year Estimate	2024		
Land Use Inventory (Project-Level)	MMTCO2e	248	-13%
2024 Per Service Population Target (Project-Level)	MTCO2e/sp	4.3	

Consulting Arborist's Report
December 11, 2017

Campus Tree Evaluation

For: 92nd Street Elementary School

Prepared for: Ammar Sarsam
Principal Operations
HPI Architecture
115 22nd Street
Newport Beach CA 92663

Prepared by: Arborgate Consulting, Inc.
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Introduction

Background

The 92nd Street Elementary School is a rather limited size for its population, so that each tree is important, but space for the roots is very confined. Los Angeles Unified School District is planning campus improvements, updates and landscaping. The campus has a mixture of old and young trees in various conditions and health status. Some trees at the 92nd Street Elementary School have broken and dropped limbs. The planned construction will likely impact mature and young trees. The district and designers would like to save as many existing trees as is safe and reasonable.

This consultant inspected, measured the trees and took photographs on December 4, 2017.

Assignment

Mr. Ammar Sarsam of HPI Architecture, contacted this consultant and asked that I provide an arboricultural evaluation of all 42 trees' health and condition, professional opinions and report as appropriate. Arborgate Consulting reviewed all the existing trees on campus; provided an assessment of their health, a risk assessment, recommendations for protection, and pruning recommendations.

Tree Map


Grape St
Ninety-Second Street Elementary School
E 95th St
Anzac Ave
E 92nd
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Summary

When buildings are built, trenches are dug, and new paving installed near existing mature trees, some trees may deserve to be saved and some may not, but all will suffer some health impacts – visible or not. Roots spread much further than the dripline, more shallow and much longer than many people imagine. With early planning, monitoring and observing certain precautions, valuable large trees may be preserved. Trees as large as the ones found on this site are irreplaceable and are valuable campus landmarks, establishing a sense of continuity in the history of the campus. They can provide an instant benefit after the new building, hardscape and landscape are installed. Sound and healthy large trees in favorable locations will justify more expense to preserve, since they can easily be worth tens of thousands of dollars and still have a good remaining lifespan. Trees like the large Ficus trees can have "value" beyond what any appraisal formula would yield.

There are limits to how close roots can be cut without sacrificing health or stability. Although I am a tree advocate, I know that the lives of people are more important than trees and I will recommend the removal of any tree that cannot be made reasonably safe. At present there are four trees with high risk levels. Three of the four can be made reasonably safe with corrective pruning, but one needs to be removed quickly. Future construction could raise the risk level of other trees, if the tree protection measures are not followed.

In the recommendations chapter separate clearances for health and safety are provided, so that campus administrators can opt to risk a tree's health, but not go so far as to put people at risk due to loss of stability. Clearances are developed to keep an

acceptable loss rate, but some trees defy the odds and survive despite exceeding the standards. Regardless, reports do not save trees unless they are implemented.

Prior to my and inspection, the trees on campus already had a number of failures, injuries and stress factors. The tree map above shows the locations of the trees I was to inspect. The campus staff and LAUSD administration consider these important trees and desired a professional opinion on which trees are worthy and safe to retain and how to protect them during construction.

Protecting trees during construction requires *good* fencing, more than orange plastic fencing, to protect their root zones from compaction, trenching and pollution. Most of the trees have less open root space than they would need to remain healthy into old age. Compacted soil under paving may have some roots growing there, but they are much less healthy and dense. Trees like Ficus tend to create new root space by breaking up the paving, but that would be a danger to the students. To mitigate the effects of confined root space, existing compaction and construction compaction, vertical mulching and a reduction of paved area will be needed. The needs of trees and paving are not compatible when considered on a long term basis. If the surface roots can be protected, replacing large areas of paving around trees with good organic mulch will reduce water use and increase root health and tree health as well as stability.

Planning for large trees and their long term survival will require protecting the existing trees and providing ample space for their ever increasing root space needs. If, after construction, the remaining protected trees had too many roots cut, they will decline and die over the following years. This can take years and the trees may look terrible over that time. If even more roots were cut, they may topple suddenly during a storm or Santa Ana wind. The clearances are minimums. Long term growth and health requires even more space. Good root *and* soil protection will be needed from here on, especially during landscaping when trenching for irrigation may cut additional roots. Supervision or work around the trees through the whole process is essential.

Observations

General Findings

The 92nd Street Elementary School campus is located in Los Angeles, north of the 105 Freeway and East of the 110 Freeway. The site is nearly flat. Most of the site soil is heavily compacted due to years of foot traffic and paving. The heavy soil compaction causes trees to be shallow rooted.

The most abundant tree species around this site are the Chinese elm (10), *Ulmus parviflora*; then the rusty leaf fig (7), *Ficus rubiginosa*; crape myrtles (7, *Lagerstroemia indica*; and the southern magnolia (6), *Magnolia grandiflora*. The Chinese elms are mostly between the classrooms on the west side. The rusty leaf figs are along the south and west edges of the campus playground. Most of the crape myrtles are on the north and west edges.

For many trees, crowding has caused some unnatural one-sided growth as they reach for sunlight around their neighbor. A number of trees have crowded roots, due to being in small cutouts in the paving. The younger trees have not been affected by root crowding. The health of many older trees in cutouts has declined due to reduced gaseous exchange and reduced return of organic matter to the soil. The small planter openings are also be limiting soil moisture by increasing water runoff and decreasing water infiltration.

The larger specimen trees include the rusty leaf figs, with an average trunk diameter of 30.6 inches, and the deodar cedars, *Cedrus deodara*, with an average trunk diameter of 28 inches. Past pruning of the rusty leaf figs included lion-tail pruning, i.e. stripping out inner growth and leaving the weight and wind load concentrated at branch ends, but allowed limbs to grow long, creating a longer

lever arm. Lion-tail pruning has left large gaps of the inner branching and concentrated foliage at the branch ends. This has led to several limb failures in both the Ficus and the deodar cedars.

Several trees have large amounts of included bark in the branch crotches, making for weak branch attachments. Such limbs need to be removed or reduced. Sprouts (epicormic shoots) indicate over-pruning or heading. Sprouts are weakly attached as well, but can be spaced and reduced to correct some of the lion-tail pruning.

The largest tree, a rusty leaf fig cultivar, *Ficus rubiginosa Microphylla*, is a large and health specimen. It has been lion-tailed, leaving the weight of the limbs more concentrated near the ends. Lion-tailing also eliminates trees' "old age insurance", meaning that because trees often develop longer and longer limbs as they age and the weight becomes cantilevered more and more end heavy, it becomes necessary to "drop-crotch" or reduce such long limbs by cutting them back to a good sized interior limb. If most of the interior limbs have been stripped out, there may be no good place to cut them back to. Without the ability to reduce much end weight, those limbs with included bark may need to be entirely removed. Ficus tolerate heavy pruning and this tree is healthy enough to tolerate heavy pruning. This tree should be able to remain in place with appropriate protection measures, but it will need more professional pruning to correct the overly-long, poorly-attached, end-heavy limbs. This is a large and attractive specimen worth good care and more effort.

There is a large healthy Shamel ash, *Fraxinus uhdei*, with 38" trunk diameter. It is growing in a 10 x10 foot cutout east of the kindergarten building. This species is notorious for root damage and even a 10 x 10 foot cutout is not enough root room.

The crape myrtles are multi-trunked, and fairly attractive. However, they have not been trained. There are too many trunk and they have included bark between them. These are small trees, mostly out of the busy areas of the campus and thus have low risk. Although they are small trees, they are beyond the stage where they could benefit from spacing the trunk and training the branching.

The six southern magnolias are young and have not been trained yet. However, as they came from the nursery they had a strong dominant central trunk, which is an ideal form. At this time no additional pruning is needed, except to maintain that form for as long as possible. Magnolias are large shallow rooted trees and appreciate a 2-3" deep layer of mulch. They also have a proportionately wider root crown. As a result of these characteristics, the 8 x 8 foot cutouts will not be adequate for long.

Few of the trees have adequate amounts or adequate coverage of mulch. Mulch will increase root health and soil water retention. It will also protect shallow, exposed roots and, by increasing root density, maximize root utilization of small spaces. Mulch presents no danger to students, and is cleaner than muddy soil.

Common abbreviations in the following matrix include:

1s=one-sided
2long = too long
Brk = broken limb
Circ = circling roots
CO = cutout
Cod=codominant
Cr=crowding or crowded, CrS = crowded scaffolds
Db=dieback
DBH – Diameter at breast height, i.e. 4.5'
Dk = decay, DkT = decayed trunk
DL=Dog-leg
EH=end heavy
epi = epicormic shoots
FC=flush cut
Hd = headed
Inc=included bark
Inj=injury
Lt=lion-tailed
MB = mower blight, root injury
NC = narrow crotch angles
OP=over pruned
OL = over-lifted
PSHB = Polyphagous shot-hole borer
RF = root flare, 1sRF = 1-sided root flare
Sh = shallow roots
Sml = small
Sp=sparse
Tinj = trunk injury
TO – tear out
WW = weed whip damage
Xing = crossing branches

"m" preceding an abbreviation indicates a minor problem.

Matrix of Findings

map#	Species	DBH	Health	Structure	Likely fail	Likely impact	Consequences	Risk	Comments
1	Magnolia grandiflora	9	B	B	improb	unlikely	negligible	Low	Sh
2	Ficus r. Microphylla	45	B	C	possible	unlikely	severe	Low	Lt cod CrS epi
3	Magnolia grandiflora	6.7	B	C	improb	unlikely	negligible	Low	Sh circ
4	Ficus rubiginosa	25	C	C-	possible	somewhat	severe	Moderate	Cod DL FC Lt
5	Ficus rubiginosa	26	C	C	possible	somewhat	severe	Moderate	sml hanger, FC Lt, Tinj
6	Ficus rubiginosa	28	B	C-	possible	somewhat	severe	Moderate	WW cod DL
7	Ficus rubiginosa	25	B	C	possible	somewhat	severe	Moderate	WW cod 2long
8	Ficus rubiginosa	39	B	C	possible	somewhat	severe	Moderate	DL FC Lt 2long
9	Ficus rubiginosa	26	B	D	probable	somewhat	severe	Moderate	Brks cod 2long epi

map#	Species	DBH	Health	Structure	Likely fail	Likely impact	Consequences	Risk	Comments
10	Afrocarpus falcatus	12	B	C	improb	unlikely	minor	Low	2long cod inc leans
11	Afrocarpus falcatus	12	C	C	improb	unlikely	minor	Low	Sp cod leans
12	Afrocarpus falcatus	11	B	C	improb	unlikely	minor	Low	Cod leans
13	Magnolia grandiflora	9	B	C	possible	unlikely	negligible	Low	Cod Xing, 8x8' CO
14	Cupaniopsis anacardioides	16	B	C	improb	somewhat	significant	Moderate	Cod inc FC
15	Magnolia grandiflora	4.5	C	B	improb	unlikely	negligible	Low	FC 8x8' CO
16	Magnolia grandiflora	5.4	B	B	improb	unlikely	negligible	Low	PSHB 8x8' CO
17	Magnolia grandiflora	8	B	B	improb	unlikely	negligible	Low	8x8' CO
18	Cupaniopsis anacardioides	16	A	C	possible	somewhat	significant	Moderate	Cod inc, old scars on T
19	Ulmus parviflora	34	C	D	possible	likely	severe	High	Hd big cankers, 8x8' CO
20	Ulmus parviflora	13.5	B	C	improb	somewhat	severe	Moderate	Cod 4x4' CO, lifts paving
21	Citrus cultivar	6	C-	C	improb	unlikely	negligible	Low	Cod epi aphids
22	Citrus cultivar	6	C-	C	improb	unlikely	negligible	Low	Cod epi aphids
23	Ulmus parviflora	17.3	C	C-	improb	unlikely	significant	Low	Cod DL 2long
24	Fraxinus udhei	38	B	C	improb	unlikely	significant	Low	Cod CrS mLt 10x10' CO
25	Morus alba cv	14	B	D	probable	somewhat	significant	Moderate	FC Dk shear crk 1sRF
26	Handroanthus sp	10	C	C	improb	somewhat	minor	Low	Cod, low head
27	Ulmus parviflora	18	B	C	possible	somewhat	severe	Moderate	Cod Lt epi
28	Ulmus parviflora	18	B	C	improb	somewhat	severe	Moderate	Root injury 1s
29	Ulmus parviflora	17	B	C-	possible	likely	severe	High	leans cod lifts paving
30	Ulmus parviflora	14.5	C	C	improb	somewhat	severe	Moderate	leans OL DL 1sRF cod
31	Ulmus parviflora	16	C	D	possible	somewhat	severe	Moderate	Cod TO DL Lt
32	Ulmus parviflora	18	C-	D	Imminent	somewhat	minor	Low	Cod DL 2long
33	Ulmus parviflora	21	C	D	Imminent	somewhat	severe	Moderate	1s cod DL 2long
34	Lagerstroemia indica	3+4+4	B	C	improb	unlikely	negligible	Low	NC cod inc

map#	Species	DBH	Health	Structure	Likely fail	Likely impact	Consequences	Risk	Comments
35	Lagerstroemia indica	4+5+5	B	C	improb	unlikely	negligible	Low	NC cod inc
36	Lagerstroemia indica	3+9	B	C	improb	unlikely	negligible	Low	NC cod inc
37	Cedrus deodara	29	B	C	probable	likely	significant	High	2long DL
38	Cedrus deodara	27	B	C	probable	likely	significant	High	2long brks Xing
39	Lagerstroemia indica	3,3,3,3,3	B	C	improb	unlikely	negligible	Low	NC CrT
40	Lagerstroemia indica	5,3,3,3,4	B	C	improb	unlikely	negligible	Low	NC CrT Xing
41	Lagerstroemia indica	3,3,3,2,2	B	C	improb	unlikely	negligible	Low	Xing
42	Lagerstroemia indica	3.5+4	B	C	improb	unlikely	negligible	Low	Okay

DBH = diameter at breast height, i.e. 4.5 feet above grade.

Photographic Documentation

#1 Magnolia

#2 Ficus rubiginosa ‘Microcarpa’

#3 Magnolia

#4 Ficus

#5 Ficus

#6 Ficus

#7 Ficus. Note children do play and sit under these trees.

#8 Ficus is quite large

#9 Ficus has dropped limbs before.

#9 Ficus – note broken limb and past lion-tailing

#10 Fern pine (Afrocarpus)

#11 fern pine

#12 Fern pine

#13 Magnolia – note small cutout.

#14 Carrotwood (Cupaniopsis)

#14 Carrotwood – note included bark and old flush cuts.

#15 Magnolia

#16 Magnolia

#17 Magnolia – note symptom of polyphagous shot hole borer.

#17 Magnolia

#18 Carrotwood – note scars on trunk and included bark

#19 Elm – should be removed, due to large cankers from anthracnose.

#20 elm

#23 elm is one-sided

#24 Shamel ash

#25 Mulberry

#25 Mulberry – note decay at base of limb at old flush cut and shear crack in back

#26 Pink trumpet tree (Handroanthus)

#27 Elm

#28 Elm is codominant and lion-tailed

#29 Elm – note severe lean appears stable.

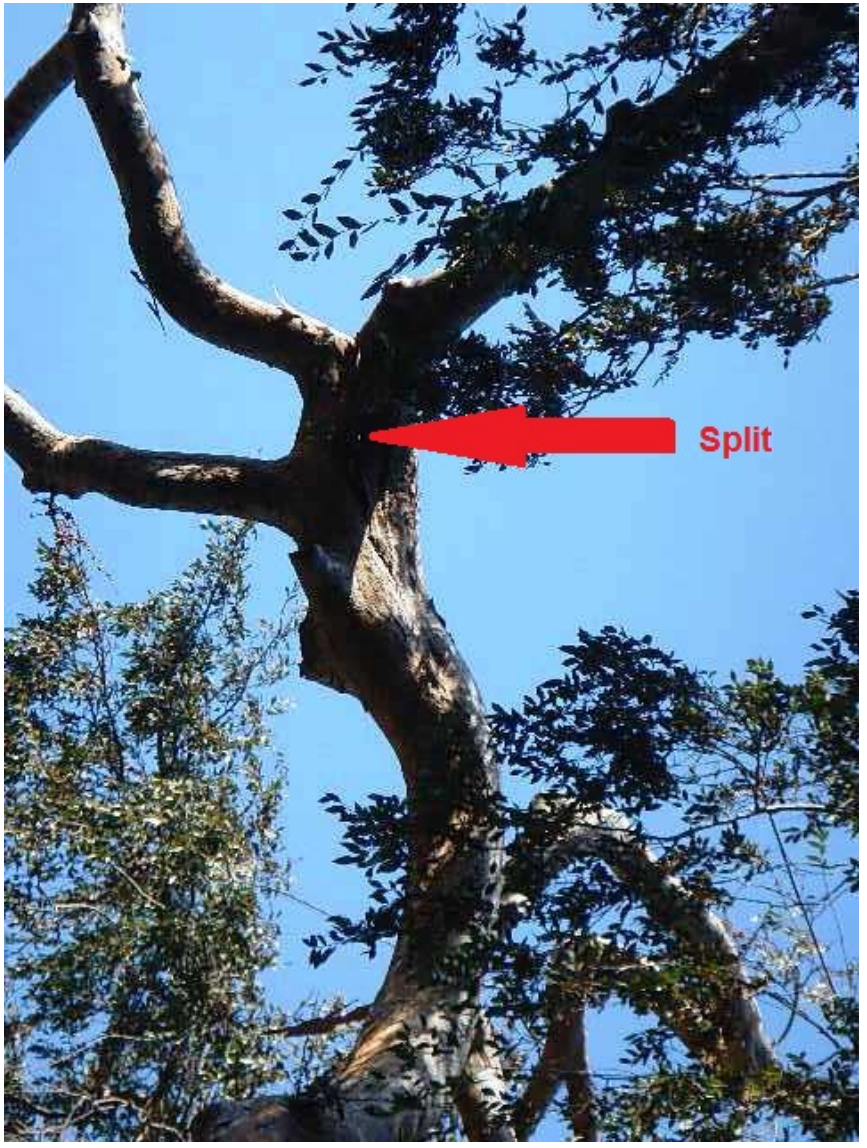
#30 Elm – note lean

#31 Elm is codominant and has dogleg scaffold limbs.

#32 & 33 Elms (right to left)

#33 Elm is codominant, one-sided, and doglegs.

#32 Elm has 2 hangers



#32 Elm also has a split at a codominant end.

#34 to 36 Crape myrtles (front to back) – note narrow crotches.

Deodars and crape myrtles at north end.

Testing & Evaluation

Visual Analysis of Tree Condition

All the subject trees were evaluated for condition of the trunk, its lean, scaffold limbs, secondary branching, foliage density, and root crown condition. The root crown was examined, as far as it was visible, without excavation. Surface roots were noted for weed whip damage, i.e. caused by string trimmers or lawn mowers, was damaging the upper surface of the shallow roots and trunks.

The health was evaluated on a visual basis. If there were no nutrient deficiency symptoms, the foliage was full and dense, there were few dead twigs or limbs, and there were no pest or disease symptoms, it was assumed that they were healthy. To the degree that symptoms or problems existed, the trees were rated on a five point scale (A to F). The best condition is termed “A“ or excellent. If there were only a couple minor problems the condition is called “B“or good. If the health was such that the tree was not in jeopardy, but it was not good, the condition is called “C “or fair. If the tree was in decline, but might be recuperated, the condition is called “D“or poor. “F” is dead or as good as dead. The condition of the structure, i.e. trunk, scaffold limbs and branches were evaluated on a similar five point scale.

The trunk diameter was measured with a Biltmore stick. The measurements were taken at 4.5 feet (DBH) to be in conformity with industry standards. If a tree branched low and the narrowest point of the trunk was below 4.5 feet, the diameter was measured there, i.e. at the narrowest point.

No internal testing was done, but if decay testing is desired, Shigometer, Resistograph and Picus sonic tomography are available.

Discussion

The preservation of trees should be based not only on the soundness, health and value of the trees, but how well they fit the new design and use of the site. The preservation decision must be based on an accurate forecast of the extra stresses imposed on trees during the construction period and landscaping, and the probable end condition of the trees.

The main stresses and risks of construction are:

- Ignoring arborist reports and instructions
- Soil compaction
- Lack of water
- Change of grade in the root zone
- Physical damage to the roots and upper structure
- Spilling or dumping of potentially toxic construction wastes
- Lack of pest control and other care
- Dust

In the consideration of the recommendations included in this report, it was assumed that no matter what level of protection is given the trees from here on, there will be considerable stress imposed on the trees related to construction. It was also considered that the new site use will allow students and staff to hold activities or pass beneath the weakened trees.

Decay, e.g. in #25, that may have been held in check can advance when the trees' reserve carbohydrates are reduced or depleted by construction impacts, or just by aging. Large roots cut for irrigation, underground utilities and footings can immediately render trees less stable during storms and strong winds. Large roots cut inside the root plate are also more likely to decay back into the base of the trunk.

Pruning

Topping, heading and over pruning result in sprout growth. These epicormic sprouts form from dormant buds and ray traces in the area of the cambium and have a weak attachment just in the outer growth ring. Normal branches are laminated on year after year with alternating branch and trunk tissue and have a very strong attachment. The shoots can be kept small to minimize the risk of their breaking out, but this will reduce the amount of green foliage and therefore the amount of food (carbohydrates from photosynthesis) that the trees get. This sort of "starvation" will prevent the tree from forming good new growth rings, healthy roots and strong compartmentalization.

Lion-tail pruning can only be corrected by keeping more internal shoots and grooming them to become permanent branches. This will take several years of annual pruning and more thought and better supervision than is usually applied to maintenance pruning. Older trees of low vigor will take even longer. Without the ability to significantly reduce end weight, those limbs with included bark may need to be entirely removed. When such limbs begin to show signs of sagging and there is no good place to cut back to, they must be removed back to the branch collar.

Careful pruning *can* reduce the risk of limb failure in such cases, but careless or unprofessional pruning will probably make matters worse. A balance needs to be struck, based on the health of the tree and how many shoots need to be removed and how soon they need to be removed. To achieve such a balance will usually require good supervision by a certified arborist, but more appropriately by a board certified master arborist or registered consulting arborist.

Soil Compaction

One of the major impacts of construction is soil compaction, both deliberate and circumstantial. Soil compaction is already at a near critical level due to the paving and turf. The compaction of the soil at a developed site is beneficial for the construction of footings, structures, and paving, but almost fatal to the roots of trees. This soil compaction often goes well beyond the limits of the footings. Evidence linking compaction to the poor health and death of trees is graphic. Root systems are very demanding and simply will not grow in compacted soil. Natural forest soils are a living ecosystem, dependant upon a critical amount of air and water filled pores spaces. A number of the necessary symbiotic partners of tree roots will not survive in less than ten percent pore space.

Converting the areas with surface roots to mulch beds will eliminate the need to mow, increase root depth, and reduce root injuries. Using good green-waste mulch would improve the health of the soil and roots. The campus's own green waste from pruning could be chipped and spread to save money, improve the soil, and minimize land fill problems.

Lack of Water

Water may be disconnected or shut down during construction. Dry soil has benefits and drawbacks. Wet or moist soil compacts more easily, but the trees need water to survive. During construction trees may receive at best light watering from a hose or water trucks, which is far less than most mature trees need. The ficus, elms, deodars, and fern pines could probably tolerate lack of supplemental irrigation for a year or more. However, the magnolias and crape myrtles are not drought tolerant.

Areas with foot or equipment traffic should be kept dry as dry as possible when the equipment traffic level is high and watered when it is low. Wet soil run over by equipment will be excessively compacted. Once compacted, the usual methods of compaction reduction cannot be used without damaging the roots in the soil. Its too late. Prevention and protection is the only realistic way to reduce soil compaction.

All trees to remain should be deep watered before construction begins and kept well irrigated inside the fenced protection zone during construction.

Change of Grade in the Root Zone

Proposed grading plans are unknown to this consultant; however without controls, the grade level near some trees may be changed. The soil level within the protection zone must remain unchanged. Changing the grade around trees is a significant health risk.

Having the proper proportion of air and water in the soil is related to proper watering and avoiding soil compaction. As you go deeper in the soil, the amount of available oxygen naturally drops off rapidly. When roots are deprived of adequate oxygen they quickly die. For the fine feeder roots of a tree this can happen in a matter of minutes. When soil is piled on top of the root system, available oxygen is excluded and the soil compacted. The soil is permanently compressed below, so the effect can last after a pile of soil is removed.

Piles of soil or spoils from trenches and footings can severely compact the soil below, and the equipment used to remove the piles can further compact the soil. Since much of the damage is already done, the best we can do is make sure the original grade is restored and that only track mounted small equipment is used to remove soil piles. This work must also be done when the soil in the haul route is dry.

Physical Damage to the Roots and Structure

Damage to the upper structure of trees seems to always happen on job sites unless secure fencing is in place out to the dripline. Not everyone on a construction site knows about or is concerned about trees. Only physical barriers work, and they need to be supplemented by the cooperation and help of the construction superintendent or inspectors.

Without real fencing, versus orange plastic snow fence, physical injuries to the trunk and branches are likely. Well secured chain link fence is about the only thing that seems to work. Shallow roots are more likely to be damaged during construction. Without controls, trenching for utilities or sprinkler lines is likely to damage roots. Beyond reducing the trees' health, such impacts could also destabilize the trees. Utilities need to be planned to avoid the root zones of trees. Tunneling may be needed to avoid ruining a valuable specimen. Although many people believe mature trees depend on strong, deep tap roots, it is a myth.

Many times trees that people have gone to great measures to preserve through development are severely injured when landscaping is installed under them. Digging holes for shrubs and ground covers can injure main lateral roots, causing extensive damage. Nicking the roots can also open up roots to infection. Roto-tilling can also destroy a large percentage of the feeder roots.

Spilling of Potentially Toxic Construction Wastes

Oil and hydraulic fluid from construction equipment, cement, form oil, acid washes, paint and solvents are toxic to tree roots. Soil pollution also includes concrete debris, asphalt, form oil, and hydraulic fluid. Again, without fencing and active controls, such dumping is likely. Many times debris is just buried on job sites. Concrete debris, some base materials and sand can also be harmful to soils. Concrete debris increases the alkalinity of the soil as do base materials that contain concrete or lime. Sand and gravel disrupt the capillary spread of water in the soil and can create a "perched water table" if enough material is buried. Even the Port-a Johns can pollute the soil by the detergents used to clean them.

Lack of Pest Control and Other Care

Construction can last for more than a year on projects such as this. During this time the pest cycles come and go, especially in spring. Dust accumulates on leaf surfaces and in leaf pores. Most often pest control is put on hold or blocked by fencing until construction is finished. However this is a stressful and demanding time for the trees. Pests can further deplete the reserves of trees and allow decay to advance. Drought stressed trees are more vulnerable to borers and certain other pests.

The polyphagous shot-hole borer (PSHB) is spreading quickly and has already killed tens of thousands of trees. One magnolia (#16) appears to be infested and infected. It spreads a Fusarium disease and there is no effective treatment approved so far. The Huntington Botanic Garden said that almost a third of their 900 species are vulnerable. UCI is losing all their sycamores, about 1,600 trees. No preventative treatment is known to be effective, so the best that can be done is to recommend that only trees known to be resistant be planted. Ficus, crape myrtles, deodars and magnolias are thought to be resistant. The elms are considered "non-reproductive hosts".

Dust

Construction creates copious amounts of dust. The trees, on the other hand, do not benefit from dust. Dust can block the pores the leaves breathe through (stomata) and dust blocks sunlight, reducing photosynthesis. The trees will need to be kept clean. Strict dust control measures may help, but dust is inevitable.

Risk

Risk was assessed on all campus trees according to *American National Standards Institute A300, part 9* and ISA, *Best Management Practices – Tree Risk Assessment*. A level 2 assessment was done, meaning that each tree was examined from all around, but from the ground and without internal testing. For this assessment the children were considered as the primary possible "target".

The data listed in the spreadsheet was run through the following matrix from the ISA Best Management Practices publication to arrive at the risk level, i.e. low, moderate, high or extreme.

Likelihood of failure and impact	**Consequences**			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

Recommendations

Removals

Remove elm #19 immediately and stump grind.

The following matrix shows the radius of protection needed around each tree going forward. One column is for maintaining the health of the trees, which should be provided unless LAUSD administrators are willing to risk killing certain trees for a chance of possibly preserving them. Removing trees after the site is in use will be more expensive and disruptive. Consider though that it is impossible to predict where all the roots are, and many times trees with work inside the health clearance radius do survive. However, testing by Bartlett Tree Research has shown that there are predictable limits beyond which stability is reduced. The column called "stability clearance" is a column that must not be tested here.

Prior to demolition, meet on site with the contractor and clearly mark all trees to be removed. Impress on the demolition contractor that if there are adjoining trees to remain, the roots of the tree to be removed must be cut by a trencher prior to being grubbed out. Otherwise the roots of the adjoining tree may be damaged or ripped up with the roots of the removed tree.

Desirable trees that the district wants to save should have more extensive study done to determine as precisely as possible the extent and depth of their root systems. In addition, an accurate survey, versus GPS, needs to be done to verify or know there will be sufficient room to preserve these trees before construction begins. Deep water trees to be remain before construction begins.

The health clearances given are based on formulas presented in *Trees and Development: a Technical Guide to Preservation of Trees during Construction*, by Matheny and Clark and published by the International Society of Arboriculture. The species, health, size and age of the trees are all considered, as well as site conditions.

Future Landscaping

To achieve a longer lasting landscape and lower maintenance costs, the landscape architects and site designers should attempt to provide as much root space as possible and still select smaller tree species. New planting spaces should have compaction resistant soil throughout. Root space around existing trees should be expanded and include vertical mulching to maximize root depth and volume.

Prior to construction, carefully remove the turf below trees along the playground edge and replace it with a 2-3" deep layer of well-composted, coarse-textured, green-waste type mulch, e.g. Aguinaga Forest Floor ½ to 1 ½ inch particle size. While removing the turf, be careful not to damage shallow roots.

The new landscape plan should be designed and installed to protect and improve the health and habitat of the valuable preserved trees. The trees closer to construction will essentially be in critical care for a decade or more. Once they are clearly recovered, more liberties can be taken with the surrounding landscape.

Irrigation in particular must be designed for the needs of the trees first. Spot bubblers will not serve the needs of mature trees. Deep watering devices sound helpful, but they require water to be drawn up through capillary action and the salts are deposited near the surface rather than being leached below the roots. Low precipitation systems will allow deep irrigation to leach salts and improve root health. Fewer heads will allow less trenching and less trenching causes less root damage. Trenches that approach trees directly toward the trunk will cut fewer roots than trenches passing their canopy as a tangent. Irrigation design around existing trees needs to be more specific and less schematic.

As much as possible, turf and other planting must be eliminated under these trees. Any shrubs must be planted outside the driplines of these trees or have the planting holes dug using AirSpades. Mulch beds will be the best way to improve root health and depth. Apply a 2-3" deep layer of well composted, coarse-textured green waste mulch, e.g Aguinaga Forest Floor ½ to 1½", below all the trees after removing construction debris, including sand, base material, gravel, asphalt and concrete debris. Do not use mulch containing manure or bark. Cover all the soil at least under the driplines and between surrounding paving areas, but do not apply against the trunks.

All trenches for the irrigation should be marked out and approved by this consultant prior to trenching. All soil disturbances within the critical/safety root zone must be prevented or very carefully controlled.

Pest Control

Retain a licensed pest control advisor to prepare a monitoring and prevention program for polyphagous shot-hole borers on the susceptible trees. The plan should include monthly visits and inspections. New trees selected for this site should be checked against the list of shot-hole borer susceptible species.

During construction the increase dust levels often lead to mite infestations. The monitoring program needs to check specifically for these pests, as well as many other possible ones.

Pruning

All pruning must be done by properly licensed and insured tree service that provides a certified arborist to supervise his crew. The project consulting arborist should oversee the pruning of sample trees of each species. The tree service must demonstrate ability to carry out an understanding of the instructions before allowing them to proceed. Do not allow the general contractor to cut on any trees for any reason. Clearance pruning should be done only by the properly licensed and insured tree service, with the general contractor's information of clearance needs.

Beyond clearance pruning, do not prune the more impacted trees for at least 3 years or until they resume normal growth. Focus on balance, subordination of codominant leaders, reducing the length of overly long limbs and control (not necessarily removal) of epicormic shoots. Do not remove more than the recommended limit in the matrix. All pruning must be done in fall or winter for the cedars, ash and elms. All the ficus and magnolias can be pruned in spring, or the ficus can be pruned in early summer.

Follow the recommendations in the matrix to follow and ANSI A300, part 1 pruning standards and the ISA supporting publication "Best Management Practices, Pruning".

Recommendations Matrix

Map #	Species	DBH	Health	Pruning recommendations	Season	*Max % foliage removal	*Health clearance	*Safety clearance
1	Magnolia grandiflora	9	B	minor reduction	spring	10%	9’	3.8’
2	Ficus r. microphylla	45	B	reduction	spring	30%	32’	18.8’
3	Magnolia grandiflora	6.7	B	reduction	spring	20%	6.7’	2.8’
4	Ficus rubiginosa	25	C	Heavy reduction	spring	40%	25’	10.4’
5	Ficus rubiginosa	26	C	Heavy reduction	spring	40%	26’	10.8’
6	Ficus rubiginosa	28	B	Heavy reduction	spring	40%	21’	11.7’
7	Ficus rubiginosa	25	B	Heavy reduction	spring	40%	18’	10.4’
8	Ficus rubiginosa	39	B	Heavy reduction	spring	40%	30’	16.3’
9	Ficus rubiginosa	26	B	Heavy reduction	spring	40%	19’	10.8’
10	Afrocarpus falcatus	12	B	minor reduction	spring	25%	12’	5’
11	Afrocarpus falcatus	12	C	minor reduction	spring	20%	12’	5.’
12	Afrocarpus falcatus	11	B	minor reduction	spring	25%	11’	4.6’
13	Magnolia grandiflora	9	B	deadwood, cut Xing	spring	20%	9’	3.8’
14	Cupaniopsis anacardioides	16	B	subordination + reduction	spring	25%	12’	6.7’
15	Magnolia grandiflora	4.5	C	okay	spring	0%	4.5’	1.9’
16	Magnolia grandiflora	5.4	B	okay	spring	0%	5.4’	2.3’
17	Magnolia grandiflora	8	B	okay	spring	0%	8’	3.3’
18	Cupaniopsis anacardioides	16	A	reduction	spring	30%	12’	6.7’
19	Ulmus parviflora	34	C	REMOVE and stump grind	Fall	100%	n/a	14.2’
20	Ulmus parviflora	13.5	B	reduction	Fall	25%	13.5’	5.6’
21	Citrus cultivar	6	C-	deadwood	spring	5%	6’	2.5’
22	Citrus cultivar	6	C-	deadwood	spring	5%	6’	2.5’
23	Ulmus parviflora	17.3	C	reduction	Fall	10%	17.3’	7.2’
24	Fraxinus uhdei	38	B	reduction	spring	20%	30’	15.8’

Map #	Species	DBH	Health	Pruning recommendations	Season	*Max % foliage removal	*Health clearance	*Safety clearance
25	Morus alba cv	14	B	Heavy reduction	Fall	30%	10’	5.8’
26	Handroanthus sp	10	C	minor reduction	spring	10%	10’	4.2’
27	Ulmus parviflora	18	B	remove south limb	Fall	25%	18’	7.5’
28	Ulmus parviflora	18	B	balance by reduction	Fall	25%	18’	7.5’
29	Ulmus parviflora	17	B	balance by reduction	Fall	30%	17’	10.’
30	Ulmus parviflora	14.5	C	reduction	Fall	25%	14.5’	8.’
31	Ulmus parviflora	16	C	reduction	Fall	25%	16’	6.7’
32	Ulmus parviflora	18	C-	cut hangers + reduction	Fall	20%	18’	10’
33	Ulmus parviflora	21	C	cut hangers + reduction	Fall	20%	21’	8.75’
34	Lagerstroemia indica	3+4+4	B	Train, cut Xing	Fall	10%	6’	4’
35	Lagerstroemia indica	4+5+5	B	Train, cut Xing	Fall	10%	6’	4’
36	Lagerstroemia indica	3+9	B	Train, cut Xing	Fall	10%	6’	4’
37	Cedrus deodara	29	B	Heavy reduction	Fall	25%	29’	12.’
38	Cedrus deodara	27	B	Heavy reduction	Fall	25%	27’	11.3’
39	Lagerstroemia indica	3,3,3,3,3	B	Train, cut Xing	Fall	10%	7’	5’
40	Lagerstroemia indica	5,3,3,3,4	B	Train, cut Xing	Fall	10%	7’	5’
41	Lagerstroemia indica	3,3,3,2,2	B	Train, cut Xing	Fall	10%	7’	5’
42	Lagerstroemia indica	3.5+4	B	Train, cut Xing	Fall	10%	6’	5’

*Clearances and maximum foliage removal are shown for the purpose of possible relocation of paving, trenching or planting.

General Tree Preservation Recommendations

1. Protection Barrier: A protection barrier shall be installed around the tree or trees to be preserved. The barrier shall be constructed of 6' high chain-link fencing. The barrier shall be placed as far from the base of the tree(s) as possible, preferably at or beyond the dripline and the health clearance radius. The fencing shall be maintained in good repair throughout the duration of the project, and shall not be removed, relocated, or encroached upon without permission of the arborist involved.
2. Storage of Materials: There shall be NO storage of materials or supplies of any kind within the area of the protection zone. Concrete and cement materials, block, stone, sand and soil shall not be placed within the protection zone of the tree.
3. Fuel Storage: Fuel storage shall NOT be permitted within 150 feet of any tree to be preserved. Refueling, servicing and maintenance of equipment and machinery shall NOT be permitted within 150 feet of protected trees. Equipment that leaks hydraulic fluid shall be removed from the site immediately.
4. Debris and Waste Materials: Debris and waste from construction or other activities shall NOT be permitted within the protection zone. Wash down of concrete or cement handling equipment, in particular, shall NOT be permitted within 150 feet of protected trees.
5. Grade Changes: Grade changes can be particularly damaging to trees. Even as little as two inches of fill can cause the death of a tree. Lowering the grade can destroy major portions of a root system. Any grade changes proposed should be approved by a Registered Consulting Arborist before construction begins, and precautions taken to mitigate potential injuries.
6. Damages: Any damages or injuries should be reported to the project arborist as soon as possible. Severed roots shall be pruned cleanly to healthy tissue, using proper pruning tools. Broken branches or limbs shall be pruned according to International Society of Arboriculture "Best Management Practices – Pruning", and ANSI A-300, part 1 Pruning Standards.
7. Preventive Measures: Pruning of the tree canopies and branches should be done at the direction of the project arborist to remove any dead or broken branches, and to provide the necessary clearances for the construction equipment.

Appendix

A. Resume

B. Glossary

A. Resume GREGORY W. APPLEGATE, ASCA, ASLA

PROFESSIONAL REGISTRATIONS:

American Society of Consulting Arborists - Registered Consulting Arborist #365
International Society of Arboriculture - Certified Tree Risk Assessor #PNC-444
International Society of Arboriculture - Certified Arborist # WE-180a

EXPERIENCE:

Mr. Applegate is an independent consulting arborist. He has been in the horticulture field since 1963, providing professional arboricultural consulting since 1984 within both private and public sectors. His expertise includes appraisal, tree preservation, diagnosis of tree growth problems, construction impact mitigation, environmental assessment, expert witness testimony, hazard evaluation, pruning programs, species selection and tree health monitoring.

Mr. Applegate has consulted for insurance companies, major developers, theme parks, homeowners, homeowners' associations, landscape architects, landscape contractors, property managers, attorneys and governmental bodies.

Notable projects on which he has consulted are: Disneyland, Disneyland Hotel, DisneySeas-Tokyo, Disney's Wild Animal Kingdom, the New Tomorrowland, Disney's California Adventure, Disney Hong Kong project, Knott's Berry Farm, J. Paul Getty Museum, Tustin Ranch, Newport Coast, Crystal Court, Newport Fashion Island Palms, Bixby Ranch Country Club, Playa Vista, Laguna Canyon Road and Myford Road for The Irvine Company, MTA Expo Line, MWD-California Lakes, Paseo Westpark Palms, Loyola-Marymount campus, Cal Tech, Cal State Long Beach, Pierce College, The Irvine Concourse, UCI, USC, UCLA, LA City College, LA Trade Tech, Riverside City College, Crafton Hills College, MTA projects, and the State of California review of the Landscape Architecture License exam (re: plant materials)

EDUCATION:

Bachelor of Science in Landscape Architecture,
California State Polytechnic University, Pomona 1973
Arboricultural Consulting Academy (by ASCA)
Arbor-Day Farm, Kansas City 1995
Continuing Education Courses in Arboriculture
required to maintain Certified Arborist status and for ASCA membership

PROFESSIONAL AFFILIATIONS:

American Society of Landscape Architects (ASLA), Full member
American Society of Consulting Arborists (ASCA), Full member
International Society of Arboriculture (ISA), Regular member
California Tree Failure Report Program, UC Davis, Participant
Street Tree Seminar (STS), Member

COMMUNITY AFFILIATIONS:

Horticulture Advisory Committee, Saddleback College (1988 until present)
Landscape Architecture License Exam, Reviewer, Cal Poly Pomona (1986-90)
American Institute of Landscape Architects (L.A.) Board of Directors (1980-82)
California Landscape Architect Student Scholarship Fund - Chairman (1985)
International Society of Arboriculture - Examiner-tree worker certification (1990)
Guest lecturer at UCLA, Cal Poly, Saddleback College, & Palomar Junior College

B. Glossary

Arboriculture	The cultivation and care of trees and shrubs.
Caliper	Diameter of a tree trunk. Larger trees are usually measured at 4½ feet (see DBH) Trees with calipers 4 inches and below are measured at 6 inches above grade. Trees above 4 inches, but still transplantable are measured at 12 inches above grade.
Cambium	A thin layer of actively growing and dividing cells, located between the xylem (sapwood) and bark of a plant; the part responsible for lateral growth of a tree stem or branch.
Codominant	stems: two or more vigorous and upright branches of relatively equal size that originate from a common point, usually where the leader has been lost or removed.
Compaction	(Soil Compaction) The compression of soil, causing a reduction of pore space and an increase in the density of the soil. Tree roots cannot grow in compacted soil.
Crotch	The union of two or more branches; the axillary zone between branches.
Crown	The upper portions of a tree or shrub, including the main limbs, branches, and twigs.
DBH	Diameter of the trunk, measured at breast height or 54 inches above the average grade. Syn. = caliper.
Decay	Progressive deterioration of organic tissues, usually caused by fungal or bacterial organisms, resulting in loss of cell structure, strength, and function. In wood, the loss of structural strength.
Decline	Progressive reduction of health or vigor of a plant.
Decurrent	Referring to crowns which are made up of a system of codominant scaffold branches. Lacking a central leader.
Dieback	Progressive death of buds, twigs and branch tissues, on individual limbs, or throughout the canopy.
Drop-crotch	Reduction cuts meant to shorten a limb or branch by cutting back to an inner branch that can serve as the new end of the limb.
Epicormic	Epi - upon; cormic – stem. Branches that are upon the stem, i.e. sprouting from either dormant buds in the cambial zone, or from buds sprung anew from ray traces. Epicormic shoots are a sign that energy reserves have been lowered.

Grading	Also Regrading. Intentional altering of topography and soil levels, using machinery.
Hanger	broken, hanging limb hung up in tree, but has not fallen
Hazardous condition	The combination of a likely failure of a tree or tree part with the presence of a likely target.
Heading	Pruning techniques where the cut is made to a bud, weak lateral branch or stub.
Included bark	Bark or cortex tissue that is included or trapped between close-growing branches. Usually found in narrow or tight crotches.
Leader	A dominant upright stem, usually the main trunk. There can be several leaders in one tree.
Limb	A large lateral branch growing from the main trunk.
Reduction cut	A pruning cut meant to shorten a limb or branch by cutting it back to an inner branch that will serve as the new end of the limb or branch.
Root crown	Area at the base of a tree where the roots and stem merge (synonym - root collar)
Root plate	The stiff primary roots close to the trunk and able to provide compressive support.
Root system	The portion of the tree containing the root organs, including buttress roots, transport roots, and fine absorbing roots; all underground parts of the tree.
Root zone	The area and volume of soil around the tree in which roots are normally found. May extend to three or more times the branch spread of the tree, or several times the height of the tree.
Scaffold	large, main branches that form the main structure of the crown.
Sprout	Also water sprout. A shoot or stem that grows from the bark of a tree; adventitious or secondary growth.
Stress	"Stress is a potentially injurious, reversible condition, caused by energy drain, disruption, or blockage, or by life processes operating near the limits for which they were genetically programmed." Alex Shigo
Subordination	Pruning to reduce the size and growth rate of a branch or leader in relation to other branches or leaders.
Target	People or property potentially affected by tree or limb failure.
Value	Value is the present worth of future benefits. Value is not necessarily cost.
Wound	Any injury which induces a compartmentalization response.

Disclaimer

Good current information on tree preservation has been applied. However, even when every limb and root is inspected, inspection involves sampling, therefore some areas of decay or weakness may be missed. Weather, winds and the magnitude and direction of storms are not predictable and some failures may still occur despite the best application of high professional standards. Future tree maintenance will also affect the trees health and stability and is not under the supervision or scrutiny of this consultant. Continuing construction activity such as trenching will also affect the health and safety, but are unknown and unsupervised by this consultant. Trees are living, dynamic organisms and their future status cannot be predicted with complete certainty by any expert. This consultant does not assume liability for any tree failures involved with this property.

Certification

I, Gregory W. Applegate, certify to the best of my knowledge and belief:

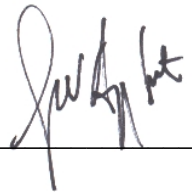
That the statements of fact contained in this report are true and correct. That the report analysis, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are my personal unbiased professional analysis, opinions and conclusions.

That I have no present or prospective interest in the vegetation that is the subject of this report, and I have no personal interest or bias with respect to the parties involved.

That my compensation is not contingent upon the reporting or a predetermined reporting that favors the cause of the client, the attainment of stipulated result, or the occurrence of a subsequent event.

That my analysis, opinions, and conclusions were developed, and this report has been prepared, in conformity with the standards of arboricultural practice.

That I have made a personal inspection of the plants that are the subject of this report. No one provided significant professional assistance to the person signing this report.

Arborgate Consulting, Inc.
Gregory W. Applegate  Date 12-11-17
Registered Consulting Arborist #365

Historical Resources Evaluation Report for 92nd Street Elementary School 9211 Grape Street, Los Angeles, California 90002

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:

Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

September 2018

TABLE OF CONTENTS

ATTACHMENTS

SECTION 1.0
EXECUTIVE SUMMARY

This report presents the results of an Historical Resources Evaluation Report (HRER) prepared for the 92nd Street Elementary School (AIN 6046-002-901) located in the Watts neighborhood of Los Angeles, California. The school contains 18 buildings, 12 of which are permanent buildings and 6 of which are portable buildings. Extant buildings at the school were constructed intermittently from 1939 to the early 2000s.

Sapphos Environmental, Inc. understands that the Los Angeles Unified School District (LAUSD) intends to improve the subject school in support of the 92nd Street Elementary School Comprehensive Modernization Project. Sapphos Environmental, Inc. was retained to determine if any of the buildings at the school may be considered historical resources pursuant to Section 15064.5(a) of the California Environmental Quality Act (CEQA) Guidelines. The buildings at the 92nd Street Elementary School were evaluated in this report using the eligibility criteria for listing in the National Register of Historic Places (National Register), California Register of Historical Resources (California Register), and for designation as a City of Los Angeles Historic-Cultural Monument (HCM).

The school was previously evaluated under SurveyLA in 2012 in the Southeast Los Angeles Survey. SurveyLA found the Assembly & Classroom Building West eligible for listing in the National Register, California Register, and as a City of Los Angeles HCM pursuant to Criteria A/1/1 and C/3/3. This survey misidentified the building's construction date as 1931, and evaluated the building using the Pre-1933 Long Beach Earthquake theme.

This HRER was prepared by Ms. Alexandra Madsen, Senior Architectural Historian, and Ms. Carrie Chasteen, Historic Resources Manager at Sapphos Environmental. Ms. Madsen and Ms. Chasteen meet the Secretary of the Interior's *Professional Qualification Standards* for History and Architectural History (Attachment A, *Resumes of Key Personnel*).

To inform the findings of this HRER, Sapphos Environmental, Inc. (Ms. Madsen) conducted a field inspection of the project site on August 24, 2018, to ascertain the general condition and physical integrity of the buildings thereon. Digital photographs were taken during the site inspection and field notes were made. The building permits for the parcel were obtained from the City of Los Angeles Department of Building and Safety. Dates of construction and subsequent alterations were determined by the building permit record, as well as additional resources, such as the field inspection, Sanborn maps, and historic plans and photographs. Additionally, the project site and surrounding area were researched at local libraries and archives to establish the general history and context of the project site, including a review of the Historic Property Data File for Los Angeles County, newspapers, books, and articles.

After careful research and evaluation, Sapphos Environmental, Inc. concluded that the Assembly & Classroom Building West is individually eligible for listing in the National Register, the California Register, and as a City of Los Angeles HCM pursuant to Criterion C/3/3 for its quality of architecture and as the work of a significant architect. Additionally, the Administration & Classroom Building/Kindergarten Building and Cafeteria Building are eligible for listing at the local level as HCMs pursuant to Criterion 3 for their architecture and as the work of a significant architect. Therefore, the Assembly & Classroom Building West, Administration & Classroom Building/Kindergarten Building, and Cafeteria Building meet the criteria to be considered historical resources pursuant to Section 15064.5(a) of the CEQA Guidelines.

SECTION 2.0
INTRODUCTION

2.1 PROJECT LOCATION AND CURRENT SETTING

The 92nd Street Elementary School occupies a 6-acre city block in the northeastern region of the Watts neighborhood of Los Angeles, California. The property's legal address is 9211 Grape Street, Los Angeles. The topography of this region is relatively flat and urban. The school is bordered by 92nd Street to the north, Grape Street to the east, 95th Street to the south, and Anzac Avenue to the west. The school is located east of Interstate 110 (I-110), north of Interstate 105 (I-105), and west of Interstate 710 (I-710).

Residential development surrounding the school to the north, east, south, and west is characterized by parcels with single-family residences. Single-family residences primarily date from the 1920s to the 1950s and are mostly vernacular. A Bible Revival Church is located across from the northwest corner of the school at 92nd Street and Anzac Avenue (Figure 1, *Sketch Map of 92nd Street Elementary School;* Figure 2, *Project Location Map of 92nd Street Elementary School*).

Figure 1. Sketch Map of 92nd Street Elementary School
SOURCE: *Sapphos Environmental, 2018*

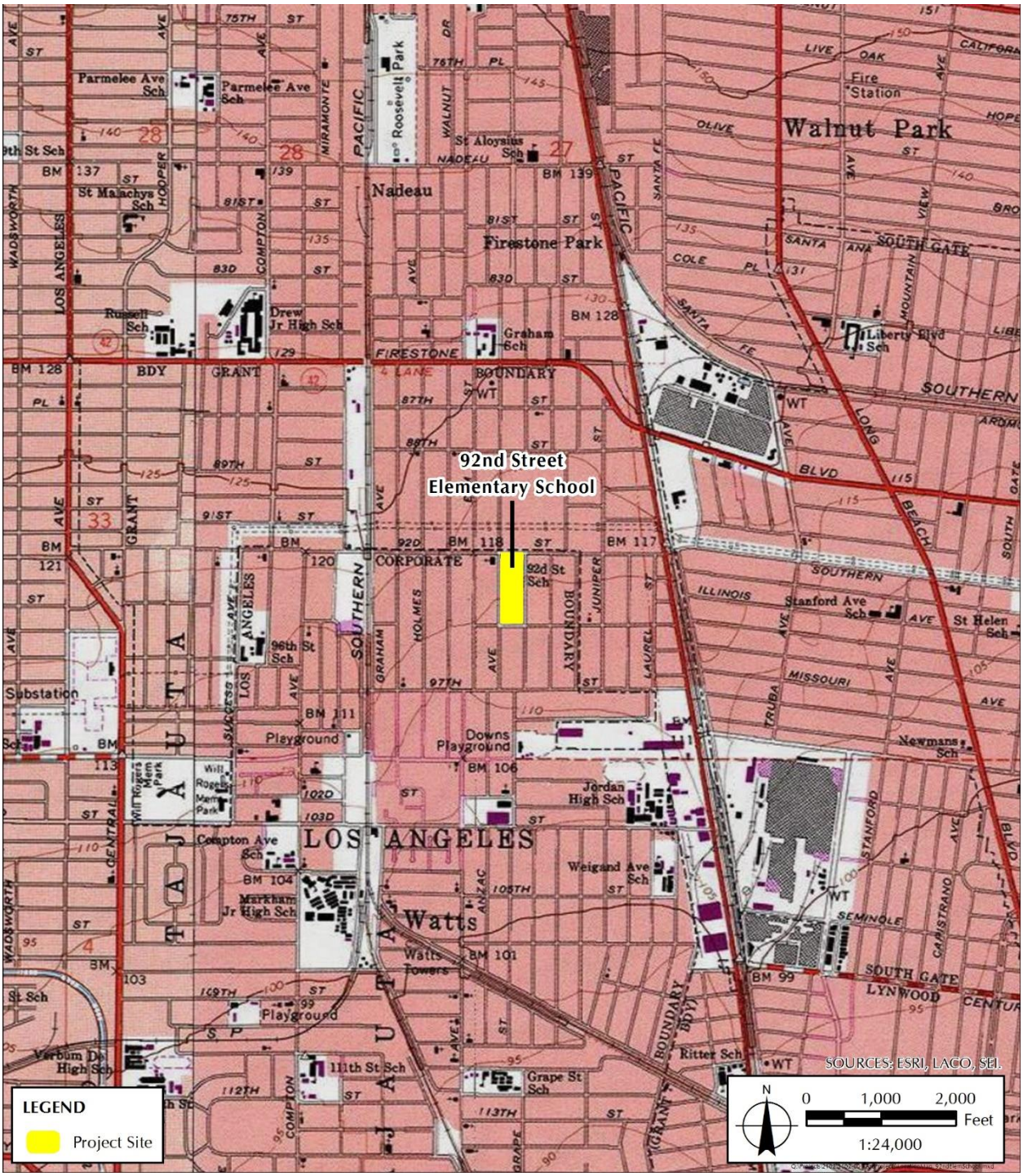


Figure 2. Project Location Map of 92nd Street Elementary School
SOURCE: *U.S. Geological Survey, 1991*

2.2 REGULATORY FRAMEWORK

2.2.1 Federal

The National Historic Preservation Act of 1966, as amended, defines the criteria to be considered eligible for listing in the National Register of Historic Places (National Register):

> *The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and*
>
> *A. that are associated with events that have made a significant contribution to the broad patterns of our history; or*
>
> *B. that are associated with the lives of persons significant in our past; or*
>
> *C. that embody 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. that have yielded, or may be likely to yield, information important in prehistory or history* (36 Code of Federal Regulations [CFR] Section part 63).

According to *National Register Bulletin No. 15*, "to be eligible for listing in the National Register, a property must not only be shown to be significant under National Register criteria, but it also must have integrity." Integrity is defined in *National Register Bulletin No. 15* as "the ability of a property to convey its significance."[1] Within the concept of integrity, the National Register recognizes the following seven aspects or qualities that in various combinations define integrity: location, design, setting, materials, workmanship, feeling, and association.

2.2.2 State of California

Section 5024.1(c), Title 14 CCR, Section 4852 of the California Public Resources Code defines the criteria to be considered eligible for listing in the California Register of Historical Resources (California Register):

> *A resource may be listed as an historical resource in the California Register if it meets any of the following* [National Register] *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;*

[1] National Park Service, U.S. Department of the Interior. *National Register Bulletin, How to Apply the National Register Criteria for Evaluation.* 2017. Available at: https://www.nps.gov/nr/publications/bulletins/nrb15/

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*.

Section 4852(C) of the California Code of Regulations[2] defines integrity as follows:

> *Integrity is the authenticity of an historical resource's physical identity evidenced by the survival of characteristics that existed during the resource's period of significance. Historical resources eligible for listing in the California Register must meet one of the criteria of significance described in section 4852(b) of this chapter and retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. Historical resources that have been rehabilitated or restored may be evaluated for listing.*
>
> *Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. It must also be judged with reference to the particular criteria under which a resource is proposed for eligibility. Alterations over time to a resource or historic changes in its use may themselves have historical, cultural, or architectural significance.*

2.2.3 City of Los Angeles

Historic-Cultural Monument. Section 22.171.7 of the City Cultural Heritage Ordinance defines a Historic-Cultural Monument (HCM):

> *For purposes of this article, a Historic-Cultural Monument (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 of Los Angeles. A proposed Monument may be designated by the City Council upon the recommendation of the Commission if it meets at least one of the following criteria:*
>
> 1. *Is identified with important events of national, state, or local history, or exemplifies significant contributions to the broad cultural, economic, or social history of the nation, state, city or community;*
>
> 2. *Is associated with the lives of historic personages important to national, state, city, or local history; or*
>
> 3. *Embodies the distinctive characteristics of a style, type, period, or method of construction; or represents a notable work of a master designer, builder, or architect whose individual genius influenced his or her age.* [3]

[2] California Office of Historic Preservation. 1999. *California State Law and Historic Preservation*, 4853 (c), p. 66.

[3] City of Los Angeles. 2018. Ordinance No. 185472, Section 22.171.7. Available at: https://preservation.lacity.org/sites/default/files/Cultural%20Heritage%20Ordinance%2C%20Revised%202018.pdf

Unlike the National and California Registers, the City Cultural Heritage Ordinance makes no mention of concepts such as integrity or period of significance. Additionally, properties do not have to reach a minimum age, such as 45 to 50 years, to be designated as HCMs.

Historic Preservation Overlay Zone. The City has established 33 Historic Preservation Overlay Zones (HPOZs), or historic districts. City Ordinance No. 175891 amended Section 12.20.3 of the City's municipal code regarding HPOZs. The purpose of the ordinance was stated as:

> *It is hereby declared as a matter of public policy that the recognition, preservation, enhancement, and use of buildings, structures, Landscaping, natural features, and areas within the City of Los Angeles having Historic, architectural, cultural, or aesthetic significance are required in the interest of the health, economic prosperity, cultural enrichment, and general welfare of the people.*

Contributing elements are defined as any building, structure, landscape, or natural feature identified in a historic resource survey as contributing to the historic significance of the HPOZ, including a building or structure which has been altered, where the nature and extent of the alterations are determined reversible by the historic resources survey.

2.3 CURRENT HISTORIC RESOURCE STATUS

SurveyLA, a city-wide survey undertaken by the City of Los Angeles Office of Historic Resources, previously evaluated the subject property in the 2012 Southeast Los Angeles Community Plan Area (CPA) Survey. This survey found the Assembly & Classroom Building West eligible for listing in the National Register, California Register, and as a City of Los Angeles HCM pursuant to Criteria A/1/1 and C/3/3.[4] However, the survey incorrectly dated the Assembly & Classroom Building West to 1931 and evaluated the building under the Pre-1933 Long Beach Earthquake Theme. This building was constructed in 1939/1940 and post-dates this earthquake.

[4] City of Los Angeles. 2012. *Historic Resources Survey Report: Southeast Los Angeles Community Plan Area*. Prepared by: Architectural Resources Group, San Francisco, CA.

SECTION 3.0
CAMPUS SITE DESCRIPTION AND SITE HISTORY

GENERAL CAMPUS SITE DESCRIPTION

92nd Street Elementary School occupies a rectangular city block of approximately 6 acres. The school has 18 buildings, 12 of which are permanent buildings and 6 of which are portable buildings (Figure 3, *Map of Permanent and Portable Buildings at 92nd Street Elementary School*). Buildings on the campus are mostly clustered in the central and northern region of the school, as the southern end is reserved for outdoor playground space.

The northernmost building, the Assembly & Classroom Building West, has an 'L'-shaped footprint and is situated in the northwestern corner of the lot. All other buildings have generally rectangular footprints. The school's primary pedestrian entrance is accessible from 92nd Street and cuts southward through the school's campus to create an accessible north-south axis. A person walking southward along this route would pass almost all of the buildings on the campus. Parking spaces are reserved to the eastern edge of the school along Grape Street, both at the northeast corner and along the center of the block.

The general design of the school evidences the evolution of thought regarding school campus layouts from the 1930s to the 1970s. The Assembly & Classroom Building West, the oldest extant building on the campus, reflects early design philosophies. These philosophies were reflected in self-contained monumental buildings that integrated various facilities, were often designed in Revival styles, and were intended to "impart prestige."[5] It also reflects a minimalization of ornament reflected in Revival-style buildings constructed after the 1933 Long Beach Earthquake.

Over time, as the school grew to accommodate more students, the look of the campus changed accordingly. By the 1950s, the general plan was most illustrative of the "finger-plan" school first introduced by Franklin & Kump and Associates in the late 1930s.[6] The two classroom buildings designed using this layout were completed in 1957, and a third finger (Classroom Building C) was added in 1960. These buildings have stucco exteriors and low-pitched gable roofs with exposed rafter tails. They are connected via a sheltered breezeway that features a flat roof upheld by evenly placed metal poles. Planters with various trees dot the open corridors between buildings.

Two buildings constructed in the mid-1960s, Classroom Building D and one of the kindergarten buildings, are generally vernacular. These buildings are situated perpendicular to each other in the central-eastern region of the school, across from the finger buildings.

Additional buildings, including the Administrative & Library Building/Kindergarten Building and the Cafeteria Building, were designed by architect Vincent J. Proby in 1975 and constructed in 1976. The Administrative & Library Building is oriented north-south and is attached to and perpendicular to the east-west facing Kindergarten Building in the northeastern corner of the

[5] Los Angeles Unified School District. 2014. *Historic Context Statement, 1870 to 1969*. Prepared by: Sapphos Environmental, Inc., Pasadena, CA, p. 49. Available at: http://preservation.lacity.org/sites/default/files/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf

[6] Los Angeles Unified School District. 2014. *Historic Context Statement, 1870 to 1969*. Prepared by: Sapphos Environmental, Inc., Pasadena, CA, p. 56. Available at: http://preservation.lacity.org/sites/default/files/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf

campus. The Cafeteria Building is the southeasternmost building and is situated on a north-south axis. These three buildings are New Formalist-style buildings that feature flat roofs with thick, curving fascia and stucco-clad exteriors.

From the 1980s to the present, a number of portable and utilitarian buildings were added to the campus design. These buildings are temporary in nature. These portable buildings are for the most part clustered in the southwestern region of the campus.

Figure 3. Map of Permanent and Portable Buildings at 92nd Street Elementary School
SOURCE: *Sapphos Environmental, Inc., 2018*

INDIVIDUAL BUILDINGS AND STRUCTURES

Assembly & Classroom Building West

The Assembly & Classroom Building West is situated in the northwest corner of the school, is designed in the Renaissance Revival style, was built in 1939/1940, and is the oldest extant building on the 92nd Street Elementary School campus. The Assembly & Classroom Building West is 1 story and approximately 15 feet in height. The exterior of all façades is common-coursed brick comprised of various natural tones. A diamond pattern of clinker bricks accents the parapet of the primary ell of the building. A flat roof with a slightly overhanging simple concrete cornice graces the uppermost section of the school building. Cast concrete detailing around windows and doors features quoins and label molds.

The building's assembly room projects slightly further north than the rest of the building, which is comprised of two ells. This building has an upside-down 'L'-shaped footprint and can be divided into a primary façade that faces 92nd Street, an eastern ell with an east-west axis, and a western ell with a north-south axis.

Primary (Northern) Façade

The primary (northern) façade of the Assembly & Classroom Building West slightly projects from the main ell of the building, and features many of the character-defining features of the Renaissance Revival style. From 92nd Street, this façade gives the impression of a generally rectangular massing. A concrete foundation and water table define the lower region of the building and are bordered by a thin belt course that wraps around the sides of the building. Small, rectangular air vents are evenly placed along the upper region of the elevation to provide passive air flow.

The original primary entrance to the building situated along this façade slightly projects from the rest of the façade and is accessible via two low, concrete stairs. This projecting bay provides minimal shelter for the entrance. Fenestration is linear and standard in nature; windows and doors are emphasized and ornamented with cast concrete molded trim and quoins. The primary door was replaced and windows along this façade have been covered with panels (Figure 4, *General View of Northern Façade, Assembly & Classroom Building West*; Figure 5, *Northern Façade, Assembly & Classroom Building West*).

Figure 4. General View of Northern Façade, Assembly & Classroom Building West
SOURCE: *Sapphos Environmental, Inc., 2018*

Figure 5. Northern Façade, Assembly & Classroom Building West
SOURCE: *Sapphos Environmental, Inc., 2018*

A side entrance along the northern façade is accessible via an Americans with Disabilities Act (ADA)-compliant concrete ramp with metal railings. One of the two parking lots on the campus abuts the Assembly & Classroom Building West's northern façade (Figure 6, *Detail, Northern Façade, Assembly & Classroom Building West;* Figure 7, *Entrance, Northern Façade, Assembly & Classroom Building West*).

Figure 6. Detail, Northern Façade, Assembly & Classroom Building West
SOURCE: *Sapphos Environmental, Inc., 2018*

Figure 7. Entrance, Northern Façade, Assembly & Classroom Building West
SOURCE: *Sapphos Environmental, Inc., 2018*

Eastern Ell

The eastern ell of the building features the most frequently traversed entrance to the building, which is across from the main office. This entrance has a raised concrete entrance and stairs with a metal handrailing. A shed roof provides a covered entrance porch that is upheld by metal columns. The boiler vault building is located kitty-corner to this entrance (Figure 8, *Eastern Façades of Eastern Ell, Assembly & Classroom Building West*).

Figure 8. Eastern Façades of Eastern Ell, Assembly & Classroom Building West
SOURCE: *Sapphos Environmental, Inc., 2018*

The water table and concrete belt course wrap around the eastern ell. Windows along the eastern ell of the building are mostly covered with heating, ventilation, air conditioning (HVAC) units, wood or metal panels, or aluminum screens that are not original. However, the few visible windows do appear to be original 6-light double-hung wood windows. A number of doors along this ell provide access to individual classrooms and feature concrete steps with metal railings. Original metal box gutters line this and the western ell. Vents below the roof provide passive air flow for the building, and lights are installed for security purposes (Figure 9, *Southern Façade of Eastern Ell, Assembly & Classroom Building West*).

Figure 9. Southern Façade of Eastern Ell, Assembly & Classroom Building West
SOURCE: *Sapphos Environmental, Inc., 2018*

Western Ell

The western ell of the building continues the symmetry and detailing evident on the northern façade and eastern ell. An electrical box is located against the exterior of the western ell's eastern façade (Figure 10, *Eastern Façade of Western Ell, Assembly & Classroom Building West*).

Figure 10. Eastern Façade of Western Ell, Assembly & Classroom Building West
SOURCE: *Sapphos Environmental, Inc., 2018*

A mural depicting various animals set upon desert and tropical backgrounds that was likely completed by students, faculty, or a local artist is painted on the water table along this ell. Paint is an impermanent material that can easily be removed. The southern façade of the western ell features the rear entrance to the building. The rear entrance features both a central concrete staircase and perpendicular ADA-compliant concrete ramp with metal railing. Vents line the building's foundation (Figure 11, *Southern Façade of Western Ell, Assembly & Classroom Building West*).

Figure 11. Southern Façade of Western Ell, Assembly & Classroom Building West
SOURCE: *Sapphos Environmental, Inc., 2018*

The western façade of the western ell of the building mimics much of the detailing, design, and appearance of the other facades. Individual staircases with metal railings lead to each classroom's back door. Crape myrtle (*Lagerstroemia indica*) trees are planted in a line along this façade as it borders Anzac Avenue (Figure 12, *Western Façade of Western Ell, Assembly & Classroom Building West;* Figure 13, *Detail, Western Façade of Western Ell, Assembly & Classroom Building*).

Figure 12. Western Façade of Western Ell, Assembly & Classroom Building West
SOURCE: *Sapphos Environmental, Inc., 2018*

Figure 13. Detail, Western Façade of Western Ell, Assembly & Classroom Building West
SOURCE: *Sapphos Environmental, Inc., 2018*

The interior of the building retains many original features, such as the exposed brick walls and transom windows with wood surrounds that line the hallway.

Compared to a photograph from 1940, shortly after the building was completed, it is evident that the interior of the building maintains much of its integrity despite minor alterations. Although the original transom windows, doors, and light fixtures were replaced, the wood surrounds remain, and the building's interior retains its original general appearance and feeling (Figure 14, *Hallway, Interior, Assembly & Classroom Building West* [*2018*]; Figure 15, *Hallway, Interior, Assembly & Classroom Building West* [*1940*]). Additional photographs of the interior were unavailable because the classes were in session at the time of the site visit.

Figure 14. Hallway, Interior, Assembly & Classroom Building West (2018)
SOURCE*: Sapphos Environmental, Inc., 2018*

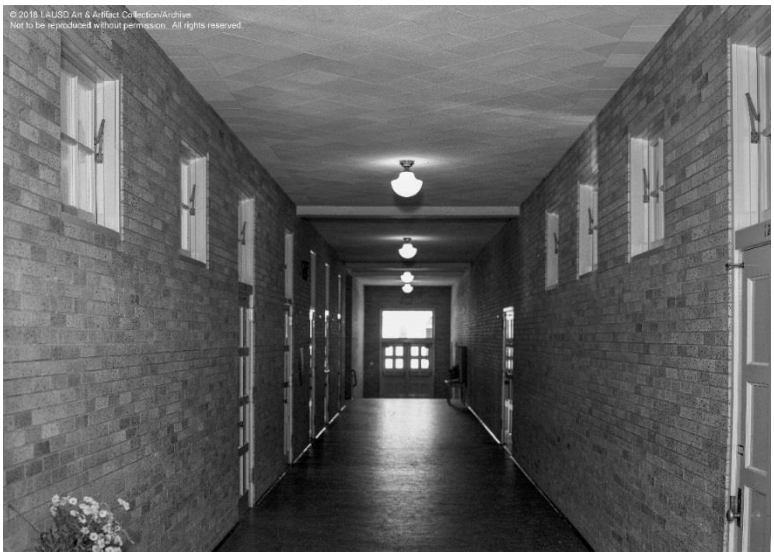


Figure 15. Hallway, Interior, Assembly & Classroom Building West (1940)
SOURCE: *LAUSD, Negative Slide Transparency PH.5548.002*

Classroom Buildings

The two 1957-built Classroom Buildings and the 1960-built Classroom Building C form the finger building plan that lines the western boundary of the campus. These buildings are attached via a sheltered breezeway along their eastern façades; this breezeway stretches the length of the three buildings and the campus boundary to the west. The breezeway also reaches east towards the Administrative & Library Building (Figure 16, *General View of Classroom Buildings*).

Figure 16. General View of Classroom Buildings
SOURCE: *Sapphos Environmental, Inc., 2018*

The classroom buildings feature low-pitch gable roofs clad in composition shingles with boxed, slightly overhanging eaves that provide shelter for the classroom entrances. The buildings have concrete foundations and stucco exteriors. Classrooms in this building are paired, as visible from exterior fenestration. Metal casement windows with aluminum screens are broken by HVAC units and flanked on either side by metal doors. Vents line the wall to provide air flow and security lights are installed on the overhanging eaves (Figure 17, *Representative Classroom Building*).

Figure 17. Representative Classroom Building
SOURCE*: Sapphos Environmental, Inc., 2018*

Sheltered Breezeway

The classroom buildings are connected by the modest Modern-style sheltered breezeway. The breezeway has a flat roof that is lined with a metal pipe and is upheld by metal columns. The negative space between classroom buildings creates courtyards with asphalt paving, numerous trees, and circular planters that are evenly placed. The combination of the sheltered breezeway and trees provides some shade and shelter from the elements (Figure 18, *Sheltered Breezeway and Courtyards, Classroom Buildings*).

Figure 18. Sheltered Breezeway and Courtyards, Classroom Buildings
SOURCE: *Sapphos Environmental, Inc., 2018*

Kindergarten Building

The 1965-built Kindergarten Building is located south of the Administrative & Library Building and is situated on a north-south axis. This building is vernacular, has a rectangular footprint, and features a low-pitch gable roof with bracketed eave. From afar, this design mimics the look of exposed rafter tails. A metal column upholds the deeply overhanging roof and provides shelter.

The building's exterior is stucco and a central vent beneath the gable provides passive air flow for the building (Figure 19, *Kindergarten Building*).

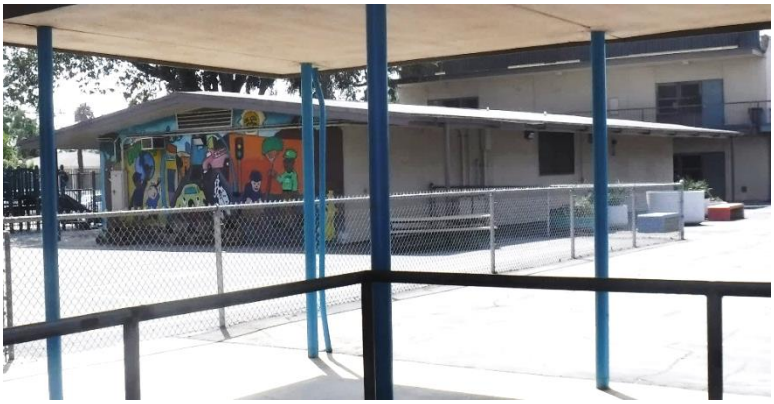


Figure 19. Kindergarten Building
SOURCE: *Sapphos Environmental, Inc., 2018*

Classroom Building D

Classroom Building D is perpendicular to, and located just south of, the Kindergarten Building. It was constructed in 1968 and is the only 2-story building on the campus. The building is vernacular, has a rectangular footprint, and features a flat roof with a metal fenced enclosure. A flat, boxed eave projects along the northern façade about 3 feet below the roof to provide shelter for the second story of the building. The second story has classrooms and is accessible via a staircase that winds around the western façade. The floor of the second-story exterior hallway in turn provides shelter for classrooms at the first story of the building. Fenestration includes paired metal casement windows with aluminum screens. The doors of Classroom Building D are industrial metal (Figure 20, *Classroom Building D*).

Figure 20. Classroom Building D
SOURCE: *Sapphos Environmental, Inc., 2018*

Administrative & Library Building/ Kindergarten Building

The Administrative & Library Building and Kindergarten Building are attached to form an 'L'-shaped complex in the northwestern corner of the school campus. The complex was designed in 1975 by architect Vincent J. Proby Jr., constructed in 1976, and reflects the New Formalist style of architecture. The sheltered breezeway is attached to the southwestern corner of the complex.

The buildings feature stucco-clad exteriors and 12-light casement aluminum windows. Metal doors line the exterior. The most dramatic character-defining feature of these buildings are their sweeping, exaggerated eaves which are rounded and slightly flared at the top. This project parapet wall screens the building's otherwise flat roof and gives the building a monumental appearance (Figure 21, *Administrative & Library Building/Kindergarten Building*).

Figure 21. Administrative & Library Building/Kindergarten Building
SOURCE: *Sapphos Environmental, Inc., 2018*

Cafeteria Building

The 1976-built Cafeteria Building is similar to the Administrative & Library Building/Kindergarten Building in design and construction. The Cafeteria Building has a generally rectangular plan and is situated in the southeastern region of the campus. The building has a rough-texture stucco exterior and generally flat roof. It was also designed by Vincent J. Proby Jr. in the New Formalism style of architecture.

Like the Administrative & Library Building/Kindergarten Building, the Cafeteria Building has an exaggerated, large, rounded eave that slightly flares at the top. The Cafeteria Building's eave dramatically projects to provide a sheltered walkway in front of the building. The eave is upheld by inverted golf-tee-shaped columns that narrow as they raise, creating a colonnade. These columns have brick polygon-shaped bases with metal railings to provide additional stability. A mural of a water scene decorates the building's western façade (Figure 22, *Cafeteria Building*).

Figure 22. Cafeteria Building
SOURCE: *Sapphos Environmental, Inc., 2018*

Boiler Vault Building

The boiler vault building is located next to the Assembly & Classroom Building West and was constructed in 1971. It has a rough-textured stone exterior, a flat roof with metal parapet, and metal doors with cut-out vents to provide passive air flow (Figure 23, *Boiler Vault Building).*

Figure 23. Boiler Vault Building
SOURCE: *Sapphos Environmental, Inc., 2018*

Lunch Shelter

The Lunch Shelter was built in 2001 and has a metal gable roof upheld by metal squared columns (Figure 24, *Lunch Shelter*).

Figure 24. Lunch Shelter
SOURCE: *Sapphos Environmental, Inc., 2018*

SITE HISTORY AND CONSTRUCTION CHRONOLOGY

The Planning Phase, 1920–1930

Prior to the development of 92nd Street Elementary School in the late 1920s and early 1930s, the block that comprises the school campus was a residential area of single-family residences. Situated in the northeastern corner of the Watts neighborhood, a topographic map of Watts from 1923 evidences the residential character of the future area of development. The city block where the school is located is highlighted in red (Figure 25, *Topographic Map of Watts* [*1923*]).

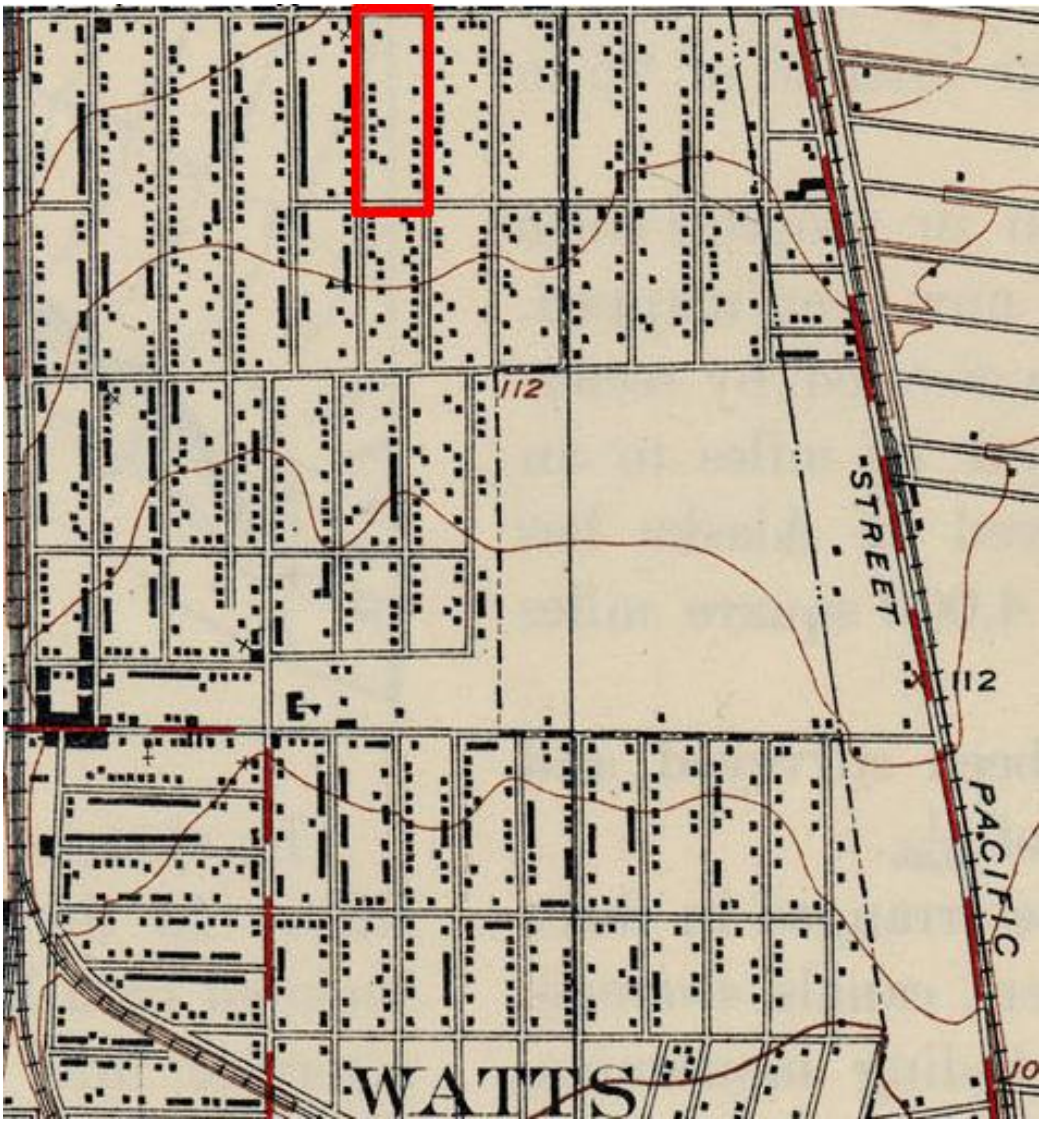


Figure 25. Topographic Map of Watts (1923)
SOURCE: *University of Texas at Austin, Perry-Castaneda Library Map Collection*[7]

Early Development, 1930–1940

In April of 1930, funds for the development of the school were allocated. As a newspaper article from that month records:

> *Funds to build twelve-room buildings on the Crescent Heights and the Ninety-second-street school sites were appropriated by the Board of Education yesterday. Each of the new school buildings will cost $84,000. Supt. Bouelle advised the board that the buildings housing the students of these schools at present are altogether unsatisfactory.* [8]

[7] University of Texas at Austin: University of Texas Libraries. Perry Castaneda Library Map Collection: California Topographic Maps (Watts, 1923) 1:24,000. Accessed September 4, 2018. Available at: http://legacy.lib.utexas.edu/maps/topo/california/txu-pclmaps-topo-ca-watts-1923.jpg
*This is likely a misspelling of A.S. Nibecker.

[8] "School Board Votes Fund for Buildings." 4 April 1930. *Los Angeles Times,* p. 23.

This development is further illustrated in a second topographic map dating to 1931; this map shows the northern area of the city block cleared of residences (Figure 26, *Topographic Map of Watts and 92nd Street Elementary School* [*1931*]).

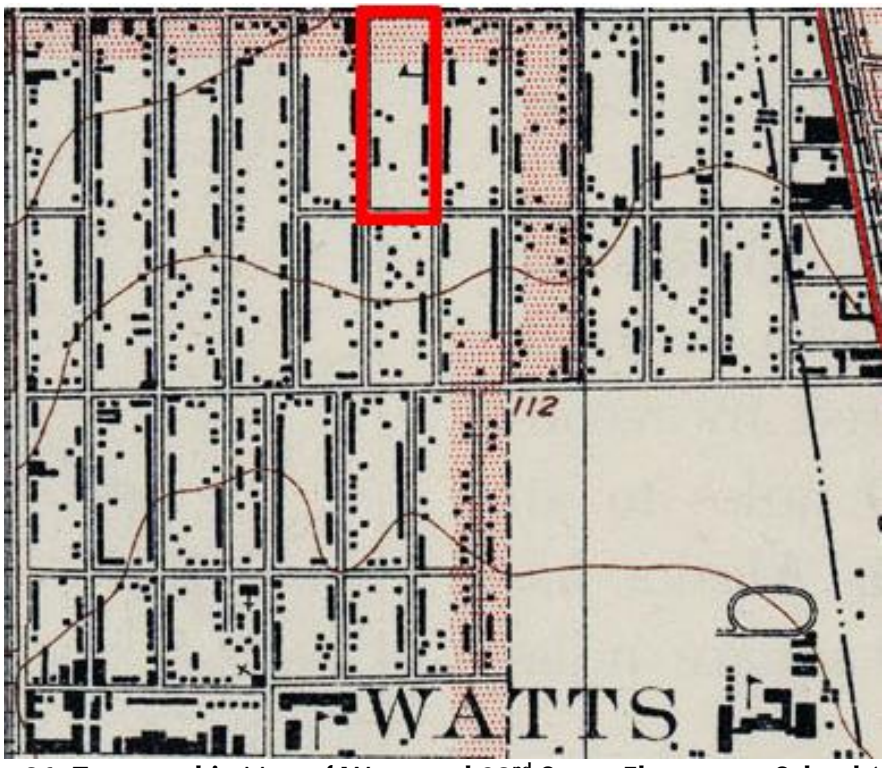


Figure 26. Topographic Map of Watts and 92nd Street Elementary School (1931)
SOURCE: *University of Texas at Austin, Perry-Castaneda Library Map Collection*[9]

A plot plan of the school evidences the original layout of six bungalows, a swing box, and sand box on the site in 1930 (Figure 27, *Plot Plan of 92nd Street Elementary School* [*1930*]).

[9] University of Texas at Austin: University of Texas Libraries. Perry Castaneda Library Map Collection: California Topographic Maps (Watts, 1931) 1:24,000. Accessed September 4, 2018. Available at: http://legacy.lib.utexas.edu/maps/topo/california/txu-pclmaps-topo-ca-watts-1931.jpg

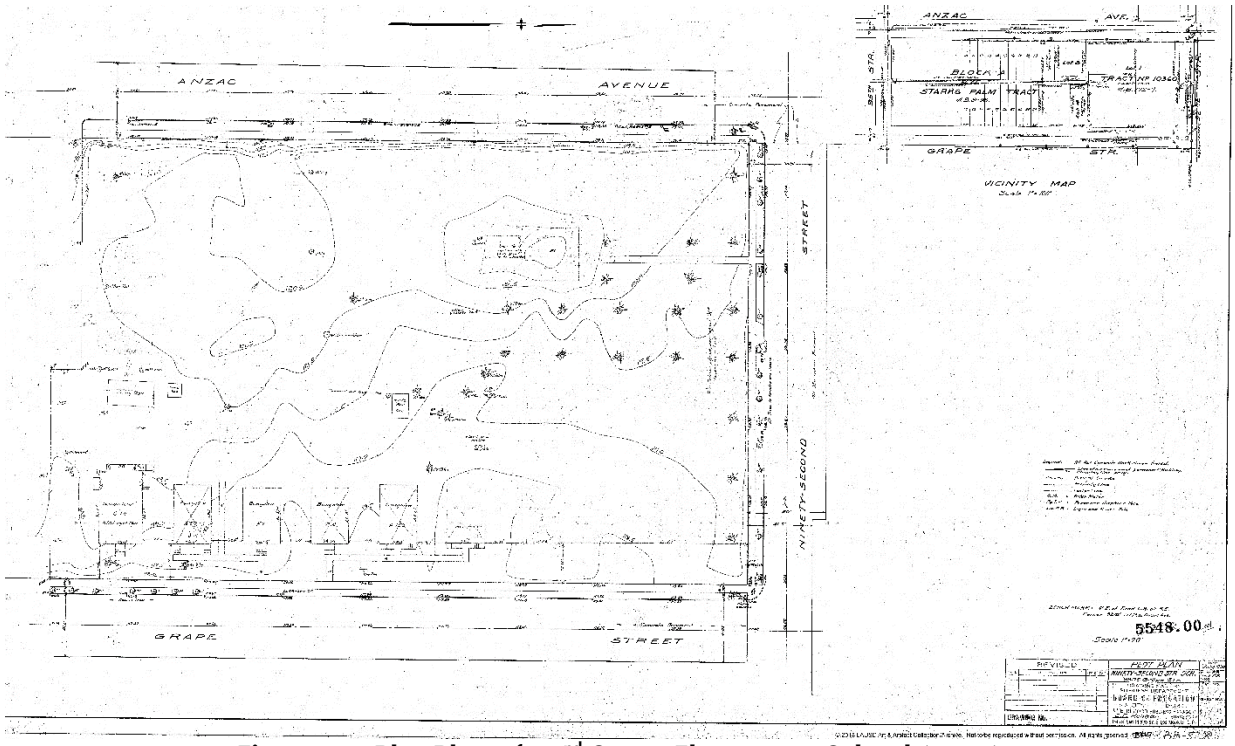


Figure 27. Plot Plan of 92nd Street Elementary School (1930)
SOURCE: *LAUSD Vault Drawing No. 5548.00.000 [001]*

In August of 1930, the sketches for the new school building were approved by the Board of Education. A.S. Becker,* head of the department of architecture, completed these renditions.[10] Prior to and during the construction of this building, bungalows were used as temporary school houses. A sanitary building was moved onto the campus in 1931 and a "temporary school bungalow" was relocated onto the lot from Garage Avenue in 1935.[11]

According to a building permit issued on March 17, 1931, architect Alfred S. Nibecker Jr. designed the original school building.[12] Nibecker revised the first floor's framing two months later in May of 1931.[13] A historical photograph from 1932 shows what the building looked like shortly after its construction (Figure 28, *Historical Photograph of Original School Building* [*1932*]). Additionally, 1939 plans for alterations illustrate the original building's design (Figure 29, *Architectural Drawing of Original School Building* [1939]).

[10] "Sketches for New School Approved." 1 August 1930. *Los Angeles Times,* p. 18.
[11] City of Los Angeles. Issued 18 December 1931. Relocation Permit No. 26735; City of Los Angeles. Issued 25 November 1935. Relocation Permit No. 22236.
[12] City of Los Angeles. Issued 17 March 1931. Building Permit No. 05502.
[13] City of Los Angeles. Issued 22 May 1931.Building Permit No. 10654.

Figure 28. Historical Photograph of Original School Building (1932)
SOURCE: *LAUSD, Negative Slide Transparency, PH.5548.001*

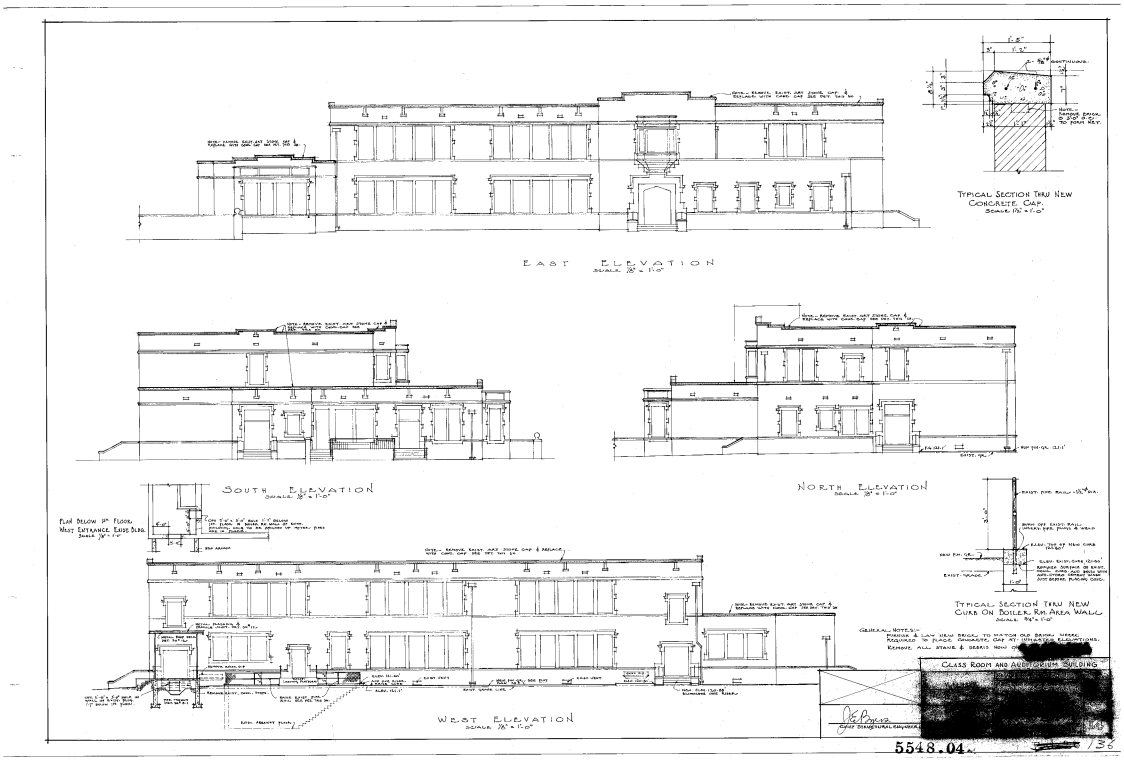


Figure 29. Architectural Drawing of Original School Building (1939)
SOURCE: *LAUSD Vault Drawing No. 5548.00.000 [0014]*

The original school building occupied the northeastern corner of the campus. An aerial photograph from 1938 shows the building's plan and the single-family residences that occupied the southern half of the block. The surrounding area was generally residential (Figure 30, *Aerial Photograph of 92nd Street Elementary School* [*1938*]).

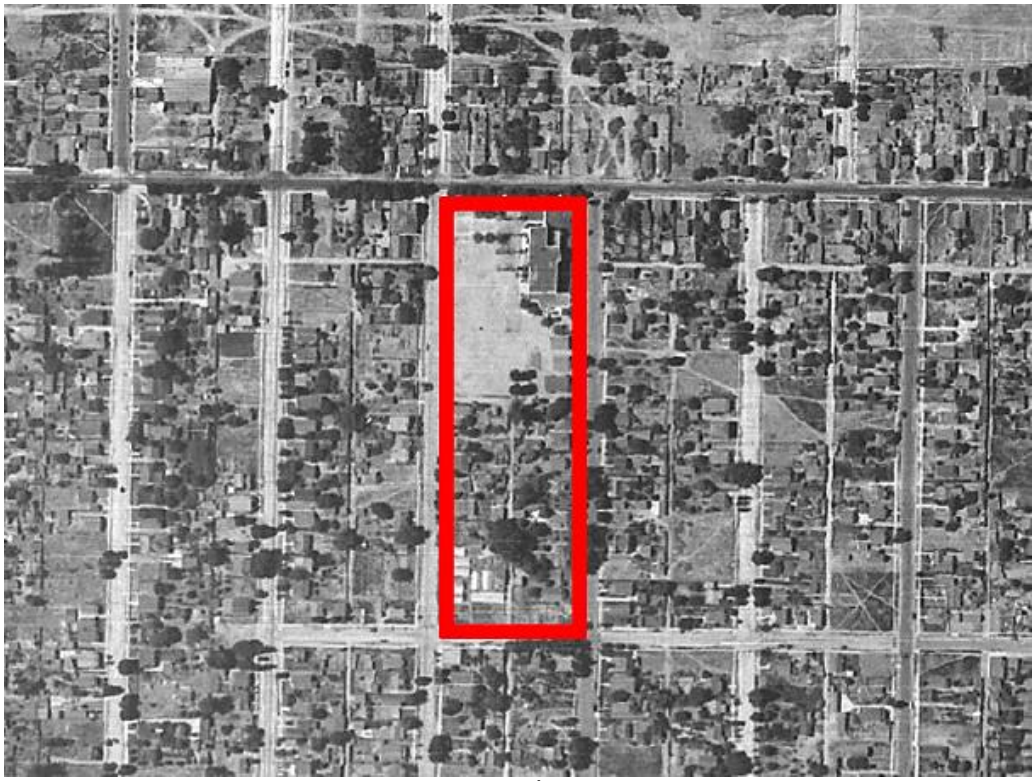


Figure 30. Aerial Photograph of 92nd Street Elementary School (1938)
SOURCE: *Environmental Data Resources, Inc.* (*EDR*)

The aerial also attests to the original school building's survival after the 1933 Long Beach Earthquake, a decisive natural event that left many buildings in ruins and challenged building codes across Southern California. The City of Los Angeles adopted new stringent building codes in 1927 to account for future earthquakes.[14] Because the original school building was built in 1931, five years after the City adopted new seismic regulations, the original school building was constructed to be more resilient than buildings from earlier decades. It is likely because of the new building code requirements that the original school building withstood the earthquake. The *Los Angeles Unified School District Historic Context Statement* describes this change after the earthquake, specifically noting the building's architect Alfred S. Nibecker Jr.:

> *As reconstruction began, Los Angeles City school districts intended to build new seismically sound buildings but also facilities with regionally inflected styles. As the* Los Angeles Times *reported in 1934, new and repaired buildings would be designed for "absolute safety with simplicity and beauty of architecture in harmony with the atmosphere and traditions of Southern California." Many designs were executed by the district's architectural department, under the direction of Alfred Nibecker, but bids were also issued to outside architects, with the intention of awarding the work to a wide field of architects. In addition, new buildings were to be explicitly Southern Californian in design but "free of needless ornamentation."*

[14] Los Angeles Unified School District. 2014. *Historic Context Statement, 1870 to 1969*. Prepared by: Sapphos Environmental, Inc., Pasadena, CA, p. 63. Available at: http://preservation.lacity.org/sites/default/files/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf

After the 1933 Long Beach Earthquake, additional building codes were added to supplement existing codes related to seismic activity. New buildings incorporated advanced construction techniques and the new building codes were enforced at the state and local level.[15] The buildings constructed at 92nd Street Elementary School after 1933 reflect these new guidelines.

In 1939, Alfred S. Nibecker Jr. completed numerous improvements at the school campus, including an addition to the original school building for new classrooms and an auditorium. The original stone coping on the building was replaced with concrete coping. These alterations were estimated at $75,000.[16]

Alfred S. Nibecker Jr. also designed the Assembly & Classroom Building West in the northwest corner of the campus at this date. Although the original building permit was not available, architectural drawings of the school illustrate its design and identify Nibecker as the building's architect (Figure 31, *Architectural Drawing of Assembly & Classroom Building West* [*1939*]). Nibecker designed this building in the Renaissance Revival style of architecture but also minimized the amount of ornament that was displayed on the building—this was a direct nod to the move away from ostentatious detailing that could become dangerous if there were another earthquake. The building's construction was completed by 1940.

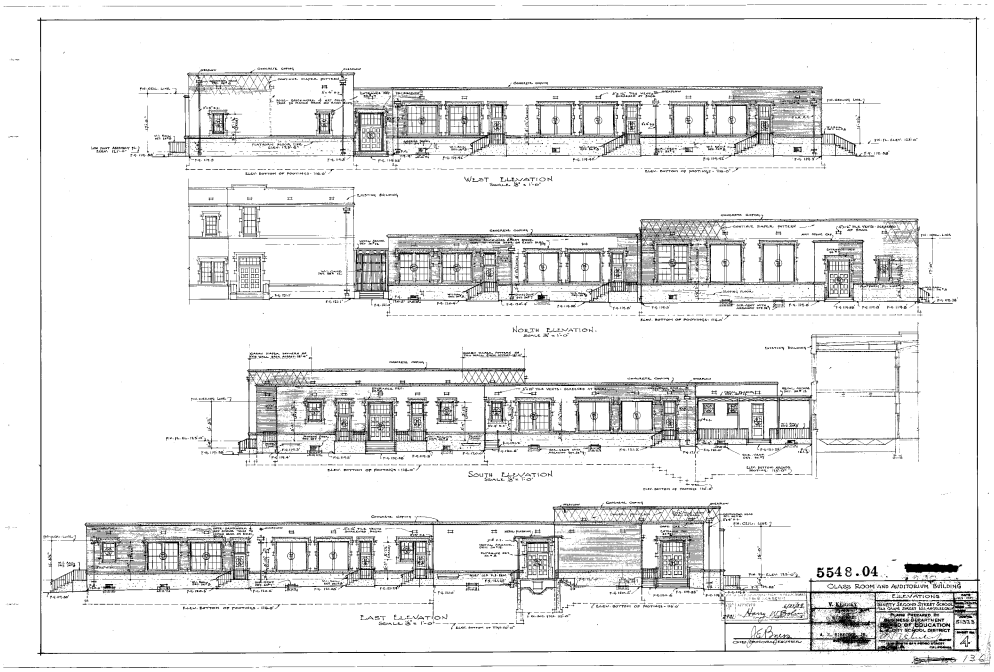


Figure 31. Architectural Drawing of Assembly & Classroom Building West (1939)
SOURCE: *LAUSD Vault Drawing No. 5548.00.000 (004)*

[15] Los Angeles Unified School District. 2014. *Historic Context Statement, 1870 to 1969*. Prepared by: Sapphos Environmental, Inc., Pasadena, CA, p. 63. Available at: http://preservation.lacity.org/sites/default/files/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf

[16] City of Los Angeles. Issued 19 September 1939. Building Permit No. 36810.

Early Expansion, 1940–1950

In 1948, Nibecker constructed a school building in the southwestern corner of the campus. This building had a rectangular footprint and a stucco-clad exterior.[17] A year later, E.B.C. Billerbeck designed a second stucco-clad school building to the west of the new construction.[18] Sketches of the proposed buildings were submitted with the building permits (Figures 32A–B, *Building Permit Sketches of New Building Locations* [*1948–1949*]).

Figures 32A–B. Building Permit Sketches of New Building Locations (1948–1949)
SOURCE: *City of Los Angeles, Department of Building and Safety, Online Portal*[19]

A 1950 Sanborn Fire Insurance Map displays the growth of the school in the 1930s and 1940s. The 1939/1940 Assembly & Classroom Building West as well as three buildings south of the original school building evidence this development (Figure 33, *Sanborn Fire Insurance Map of 92nd Street Elementary School* [*1950*]). The first portable building was installed in 1949 just south of the finger buildings.

[17] City of Los Angeles. Issued 10 November 1948. Building Permit No. 28981.
[18] City of Los Angeles. Issued 27 June 1949. Building Permit No. 16800.
[19] City of Los Angeles. Issued 10 November 1948. Building Permit No. 28981; City of Los Angeles. Issued 27 June 1949. Building Permit No. 16800. Available at: http://ladbsdoc.lacity.org/idispublic/

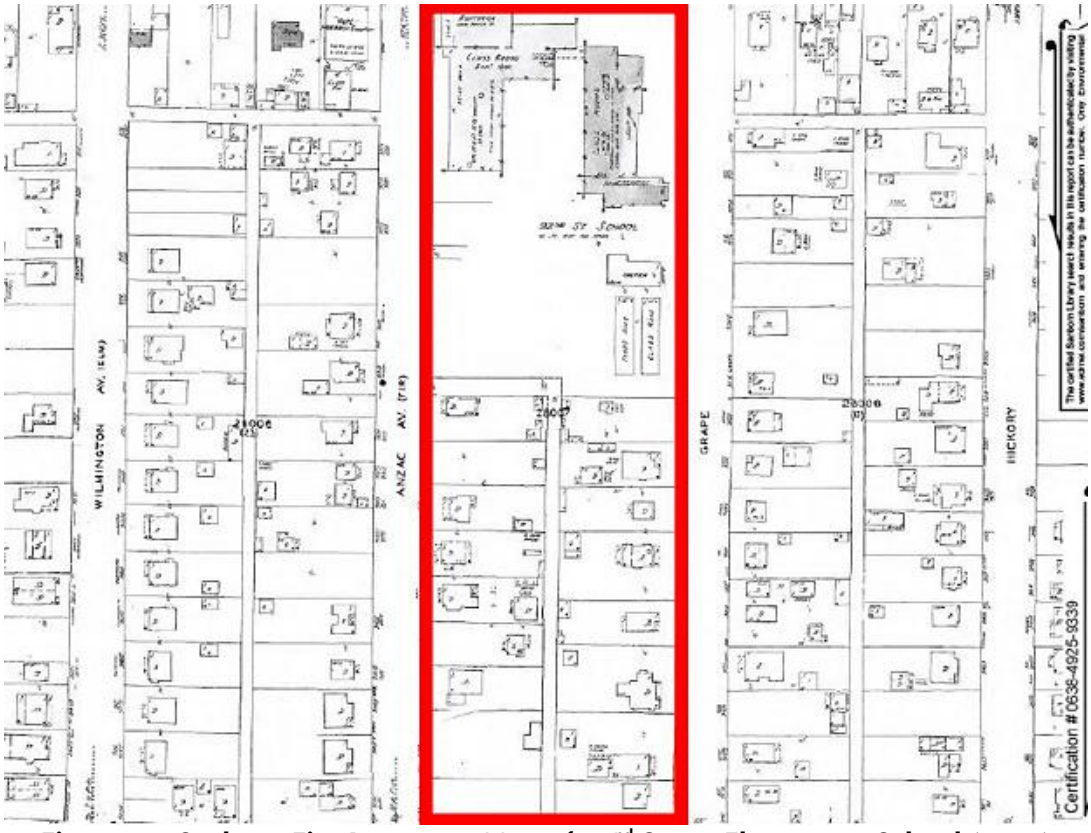


Figure 33. Sanborn Fire Insurance Map of 92nd Street Elementary School (1950)
SOURCE: *Sanborn Fire Insurance Map, Environmental Data Resources, Inc. (EDR)*

Between 1940 and 1960 the black population of Watts increased eightfold.[20] This reflected a general population boom in the area. As more families moved to the area, the demands on 92nd Street Elementary School and surrounding education facilities were exacerbated, and the school commissioned more buildings to meet the increased demand.

A plot plan and architectural rendition from 1956 illustrate the additional buildings completed at the site to meet this increased demand (Figure 34, *Plot Plan of 92nd Street Elementary School* [*1956*]; Figure 35, *Architectural Rendering of 92nd Street Elementary School* [*1956*]).

[20] Wyatt, David. 1997. Five Fires: Race, Catastrophe, and the Shaping of California. Reading, MA: Addison-Wesley.

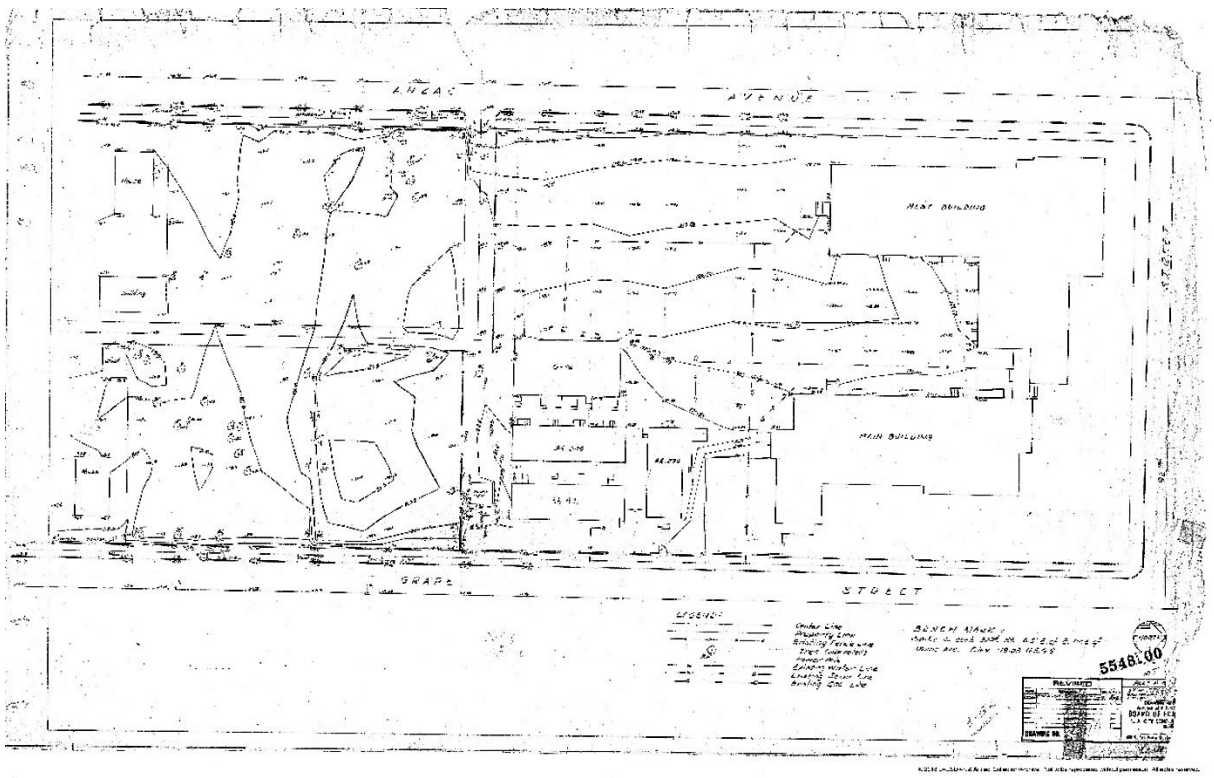


Figure 34. Site Plan of 92nd Street Elementary School (1956)
SOURCE: *LAUSD Vault Drawing No. 5548.00.000 (005)*

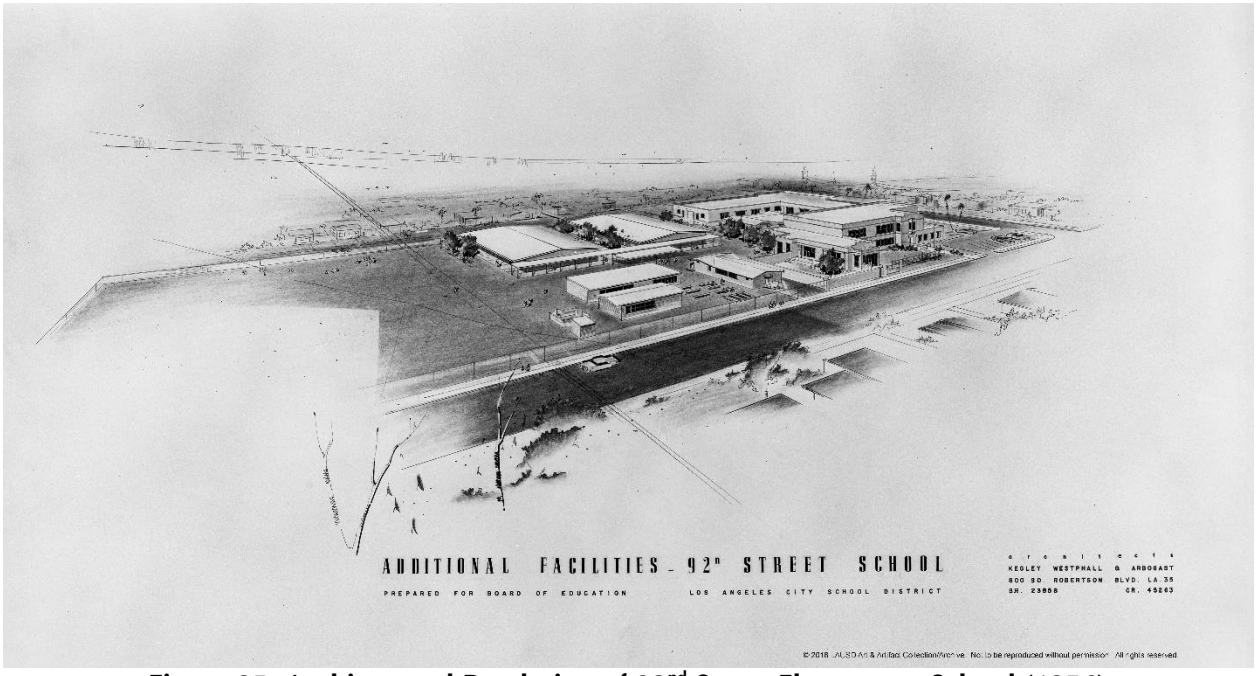


Figure 35. Architectural Rendering of 92nd Street Elementary School (1956)
SOURCE: *LAUSD, Negative Slide Transparency PH.5548.002*

The two earlier Classroom Buildings and the covered breezeway that comprise the finger buildings along the western edge of the campus were designed by James E. Westphall in 1956 and constructed by John A. Martin in 1957.[21,22] The third finger building (Classroom Building C) was constructed in 1960 although no building permit was available for this construction. An architectural rendering and aerial photograph from 1960 show the new classroom construction at the school campus (Figure 36, *Aerial Photograph of 92nd Street Elementary School* [*1960*]; Figure *37, Architectural Rendering of Classroom Building, 92nd Street Elementary School* [*1959*]). The school also purchased and demolished the single-family residences that remained on the southern end of the city block.

Figure 36. Aerial Photograph of 92nd Street Elementary School (1960)
SOURCE: *Environmental Data Resources, Inc. (EDR)*

[21] City of Los Angeles. Issued 2 November 1956. Building Permit No. 56993.
[22] City of Los Angeles. Issued 5 November 1956. Building Permit No. 56994.

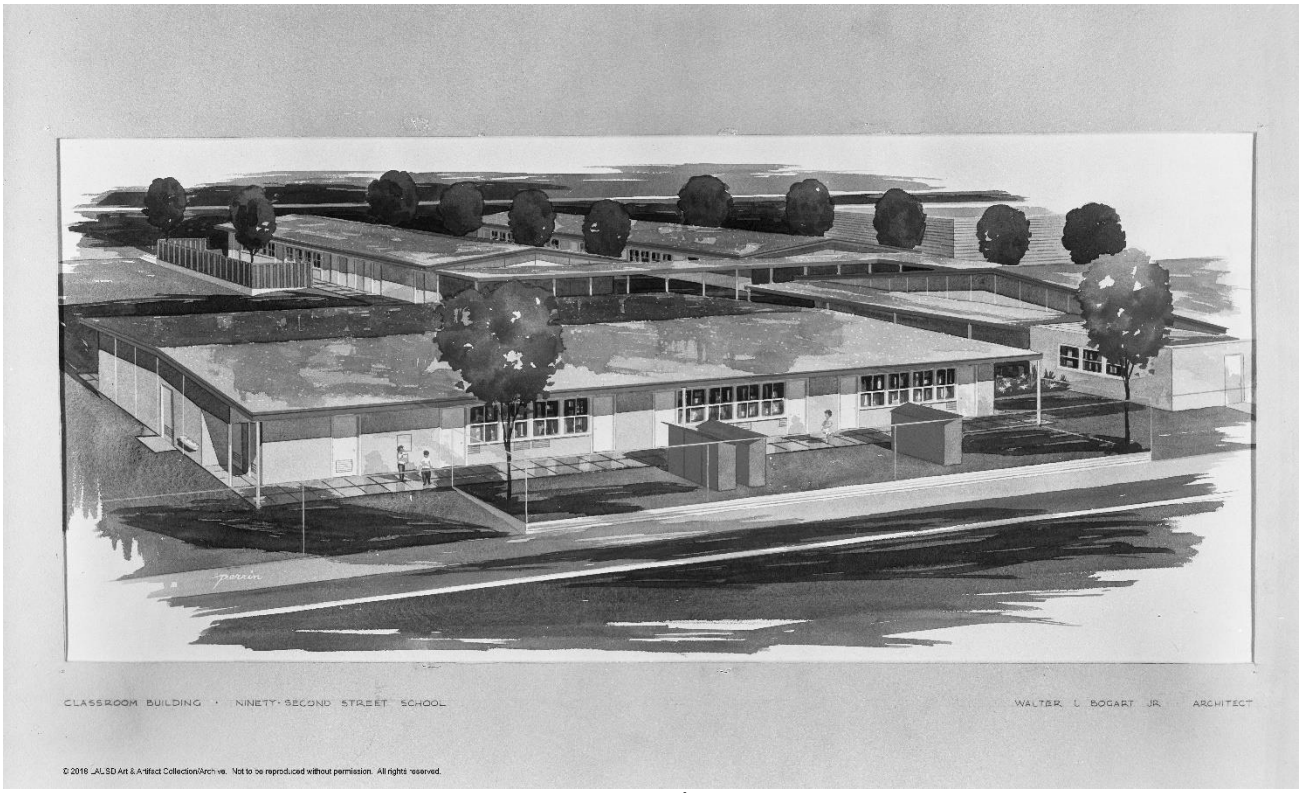


Figure 37. Architectural Rendering of 92nd Street Elementary School (1959)
SOURCE: *LAUSD, Negative Slide Transparency PH.5548.004*

Continued Growth, 1960–1970

In the 1960s, as fear of a nuclear war loomed on the American conscience, 92nd Street Elementary School was one of 21 sites approved as a fallout shelter by the City of Los Angeles Board of Education. The facilities' "concrete basements, in most cases, [were] made available to federal, state, and city civil defense authorities as temporary shelters."[23] The school was stocked with dehydrated food and temporary emergency administrative offices were arranged, likely in the basement of one of the finger buildings. No information was available on when this shelter was disbanded.

Although the school campus continued to grow over the course of the 1960s, it was identified as a school where students absences were an issue. For this reason, is was one of 14 schools to receive a specialized dropout deterrent program in 1963.[24]

By 1970, numerous additional buildings were completed at the site, including the Kindergarten Building and Classroom Building D which were constructed in 1965 and 1968, respectively (Figure 38, *Sanborn Fire Insurance Map of 92nd Street Elementary School* [*1970*]).

[23] "21 L.A. School Sites Picked for Use as Fallout Shelters." 30 October 1962. *Los Angeles Times,* p. 31.
[24] "14 Schools Selected to Deter Dropouts." 6 March 1963. *Los Angeles Times,* p. 34.

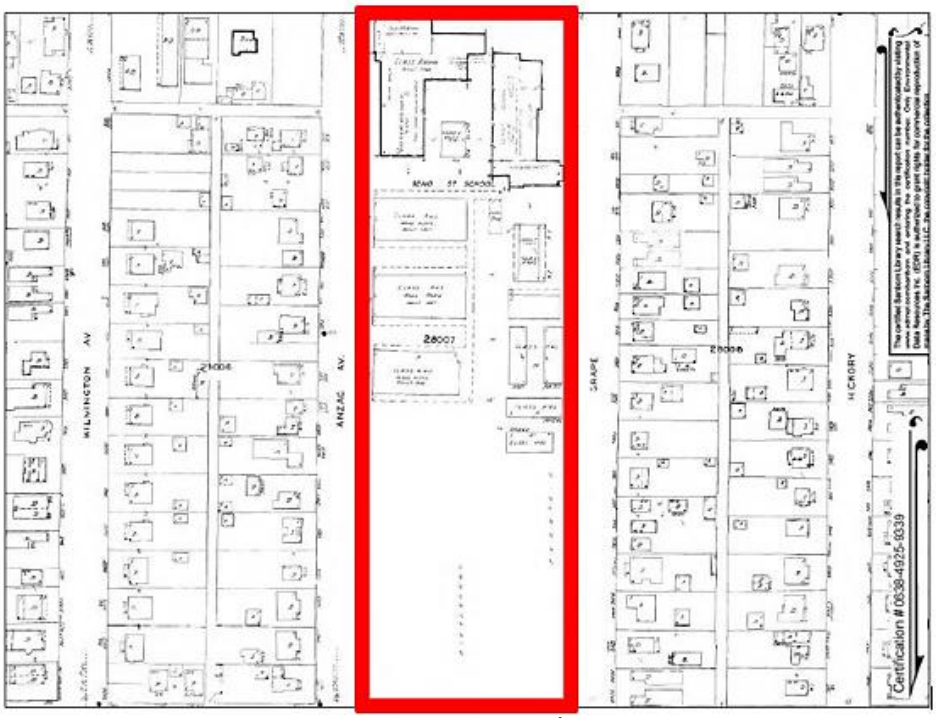


Figure 38. Sanborn Fire Insurance Map of 92nd Street Elementary School (1970)
SOURCE: *Sanborn Fire Insurance Map, Environmental Data Resources, Inc. (EDR)*

In 1976, three key buildings were constructed at the school campus. The construction of one of these buildings, the Administrative & Library Building, required the demolition of the original school building as evidenced in a 1974 plot plan (Figure 39, *Plot Plan of 92nd Street Elementary School* [*1974*]).

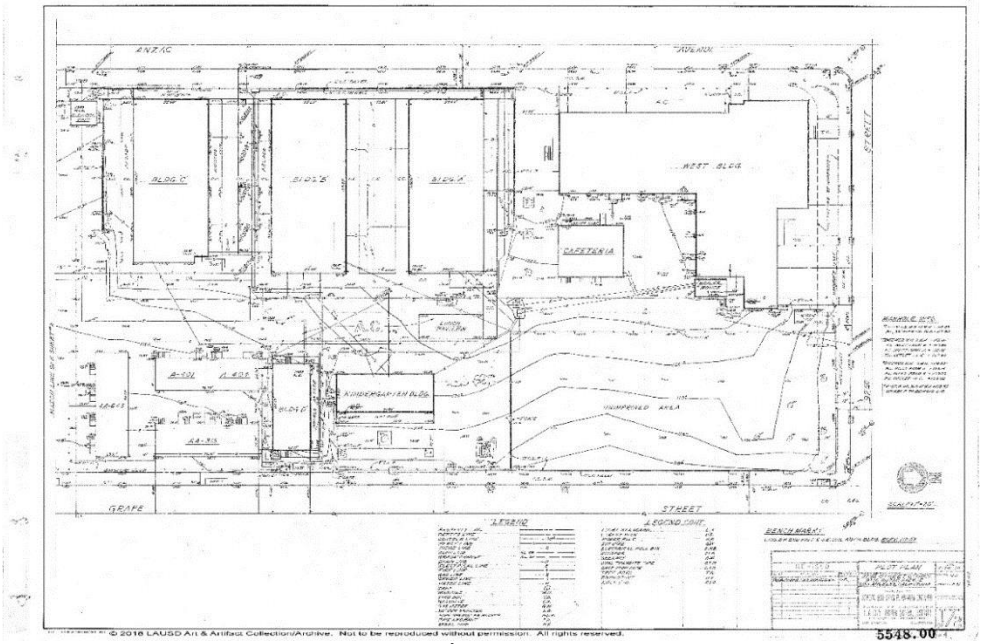


Figure 39. Plot Plan of 92nd Street Elementary School (1974)
SOURCE: *LAUSD Vault Drawing No. 5548.00.000 (014)*

The Administrative & Library Building/Kindergarten Building and Cafeteria Building were all designed in the same style of New Formalism with rough textured stucco exteriors and sweeping, exaggerated eaves by architect Vincent J. Proby Jr. The Cafeteria Building is the southeastern most building on the campus. Proby's design of these buildings is evident from 1975 plans (Figure 40, *Architectural Plan of Administrative & Library Building/Kindergarten Building and Cafeteria Building* [*1976*]).

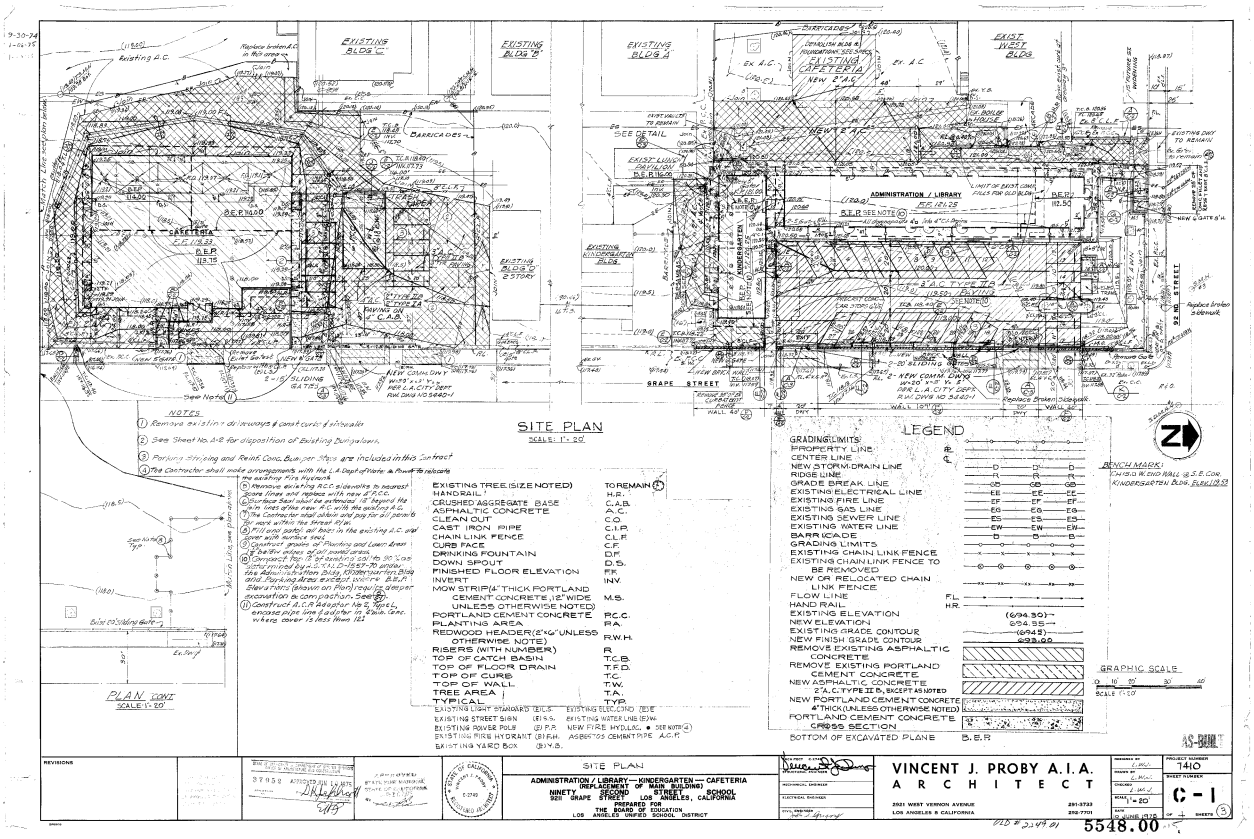


Figure 40. Architectural Plan of Administrative & Library Building/Kindergarten Building and Cafeteria Building
SOURCE: *LAUSD Vault Drawing No. 5548.00.000 [015]*

Additionally, in the 1970s, the southern portion of the school campus was converted into a blacktop outdoor play area and a parking lot was added along the central-eastern boundary of the campus.

The boiler vault building, next to the Assembly & Classroom Building West, was constructed in 1971. A permanent storage unit was installed in 1973. The addition of these buildings is visible in a 1977 aerial photograph (Figure 41, *Aerial Photograph of 92nd Street Elementary School* [*1977*]).

Figure 41. Aerial Photograph of 92nd Street Elementary School (1977)
SOURCE: *Environmental Data Resources, Inc.* (*EDR*)

Later Additions, 1980–Present

Two portable singular modular buildings were installed in 1986 just south of the Assembly & Classroom Building West. Additional modular buildings for sanitary purposes and classrooms were installed in 1998 and 2005. These portable buildings are located in the southwestern region of the school campus. A shade structure, next to the Cafeteria Building, was installed in 2001.

A contemporary aerial photograph of the school visualizes the changes that occurred from 1977 to present. The newer permanent and portable buildings are evident, as is the use of the southern end of the school for outdoor activities (Figure 42, *Aerial Photograph of 92nd Street Elementary School* [*2018*]).

Figure 42. Aerial Photograph of 92nd Street Elementary School (2018)
SOURCE: *Google Earth Pro, 2018*

4.1. FOCUSED NEIGHBORHOOD CONTEXT

92nd Street Elementary School is in the Watts neighborhood of the Southeast Los Angeles Community Plan Area (CPA). This area was surveyed for SurveyLA in 2012. Background information regarding the area in general, and Watts specifically, is excerpted from this survey below.[25]

4.1.1 Neighborhood Geography

The Southeast Los Angeles CPA developed in a southward pattern beginning in the late 19th century, as the city's growing network of streetcars allowed for development outside the historic city center. Though the area north of Slauson Boulevard was largely built out by the late 1910s, at this time the land to the south was still largely undeveloped and relatively remote. Much of it was used for vegetable and fruit cultivation by Chinese and Japanese residents. In 1903, however, a group of investors evicted the farmers and constructed the Ascot Park horse racing track at generally the area south of Slauson Boulevard and east of Avalon Boulevard. Referred to as being located in the "no man's land" on the skinny stretch of territory "running from Los Angeles to the sea," Ascot Park quickly became known as a notorious den of gambling and drinking. Its investors hoped to incorporate the area, and though unsuccessful, the larger area was known as Ascot Park until the late teens when the park (which converted to automobile racing from horse racing in the late 1900s) was dissolved altogether. The removal of the vast acreage of Ascot Park freed the land for residential and industrial development, which ensued at a monumental pace south of Slauson Boulevard in the 1920s.

The Southeast Los Angeles CPA became the center of the city's African American community during the first half of the 20th century. The African American community in Los Angeles was first concentrated in the historic city center, around the neighborhood that is now Little Tokyo. As the community grew, it began moving south after the turn of the 20th century. Central Avenue was the primary thoroughfare around which this movement and development was centered, and blacks created a vibrant community there. By the late 1920s, the area had become home to jazz clubs, a vibrant social scene and nightlife, as well as black-owned businesses.

The neighborhood of Watts developed as a separate city (incorporated in 1907) at the southernmost end of the CPA prior to being consolidated in 1926. What became the area of Watts was originally a portion of the Rancho La Tajauta. The land was devoted to cattle ranching. Farmers began moving into the area in the 1870s and the land was subdivided into smaller acreage. The railroad arrived in Watts after the turn of the 20th century, spurring development. The area was a diverse mixture of white, African American, Japanese/Japanese American, and Mexican/Mexican American residents. Its cheap land prices attracted working-class residents.

[25] City of Los Angeles. March 2012. *SurveyLA: Southeast Los Angeles Community Plan Area*. Prepared by: Galvin Preservation Associates, El Segundo, CA. Available at: http://preservation.lacity.org/sites/default/files/SELA%20Final%20Report_HPLAEdit.pdf

During this time, the area remained racially and ethnically diverse. Despite the increasing concentration of African Americans, they remained in the minority. Whites, Asians, and Hispanics made up the remaining portion of the area's population during this period. It was not until the 1930s that the demographics in the area began to shift as these groups moved out of the area, and blacks became an increasing percentage of the population. Large numbers of African Americans moved to Los Angeles in the late 1920s and 1930s, drawn by the promise of jobs and homeownership. Prevented from moving farther west by racially restrictive covenants, they moved into the neighborhoods of Southeast Los Angeles. By 1940, for example, the neighborhood of Watts was 35 percent African American. As the black population increased, tensions rose between the black community in Watts and the white communities in adjacent areas. Racial covenants became enforced more fiercely as African Americans became a more noticeable presence in the city and Anglo Americans attempted to maintain their separation. Blacks became restricted to the area between Alameda Street on the east, San Pedro Street on the west, and Slauson Avenue on the south. Those who attempted to move outside this proscribed area met with resistance, at times intimidating and violent.

The advent of World War II brought about an explosion in the city's population. The area became overcrowded as people flooded into the city seeking jobs in the defense industry, but the boundaries of the area around Central Avenue remained enforced by restrictive covenants. The postwar era continued these trends. It was in the postwar era that Central Avenue began its decline in earnest as overcrowding and deteriorating conditions brought about by the influx of migrants during the war only worsened. Middle-class blacks began moving out of the area after racial covenants were struck down by the Supreme Court case Shelley v. Kraemer *in 1948, and the center of the prosperous black community shifted westward. In the decades after World War II, movement into the area continued, and the population became ever-increasingly African American. However, the notable and unifying businesses and institutions that had existed along Central Avenue moved westward as well, leaving the community around Central Avenue underserved and lacking in businesses and institutions.*

For much of its history, Watts had been lacking in the kinds of services and community institutions that served Central Avenue. This was largely a result of its distance from the remainder of the city. This was only exacerbated by the exodus of middle-class blacks and community institutions after World War II. This lack of services plagued the community in the 1950s and 1960s. Tensions mounted, ultimately contributing to the Watts Riots in August 1965. During the five days of civil unrest, nearly a thousand buildings were destroyed, leaving a permanent mark on the built environment of the area. [26]

4.1.2 Types of Development

The CPA largely comprises single-family neighborhoods, which followed a typical development pattern with commercial corridors along larger streets and single-family residential development along smaller, gridded streets in between. Multi-family duplex and fourplex property types are scattered throughout these early developments.

[26] City of Los Angeles. March 2012. *SurveyLA: Southeast Los Angeles Community Plan Area*. Prepared by: Galvin Preservation Associates, El Segundo, CA. Available at: http://preservation.lacity.org/sites/default/files/SELA%20Final%20Report_HPLAEdit.pdf

Commercial development along major thoroughfares typically include historic theaters, restaurants, one-to-three story mixed use commercial and residential buildings, gas stations, and banks. The majority of resources from this period of development date from the 1890s to the 1920s.

Institutional resources occurring throughout the CPA include religious buildings, schools, and public facilities such as Department of Water and Power buildings. These resources are typically sited within residential neighborhoods or along commercial corridors and are generally contemporaneous with adjacent residential development. There is a significant amount of industrial development in the CPA, and there are large portions zoned for industrial use along Alameda Street and Slauson Avenue. A small residential tract planned and constructed by the Goodyear Tire and Rubber Company is located adjacent to the former site of the Goodyear industrial plant; this development is an extremely rare example of purpose-built worker housing in Los Angeles.[27]

4.2 "REDLINING" AND "BUSING" IN LOS ANGELES

In 1933, President Roosevelt founded the Homeowners' Loan Corporation (HOLC). Under the HOLC, instead of refinancing of mortgages every 5 to 10 years as the precedent, mortgage terms were extended to about 20 years, after which they were fully paid off.[28] The Federal Housing Administration (FHA), intended to determine areas safe for bank investment versus those with low property values, was formed in 1934. In order to relay these findings, "safety maps" were created by real estate agents, which showed the hazards and amenities of the city, block-by-block. Green and blue areas were deemed desirable, yellow areas were mediocre, and red areas indicated neighborhoods in decline. Tellingly, red areas often had a so-called 'subversive racial element,' indicating that Jews, Mexicans, Chinese, or African-Americans lived in the area, which banks claimed indicated low property value. These maps were the origins of "redlining."[29]

As a result of this discriminatory real estate practice, many of these red areas, typically located in the core of inner cities, were neglected by investors and fell into decay. To stimulate the move to the suburbs, the FHA services were mostly dispensed on the edges of cities in new developments.[30] However, African-American families were prohibited from participating in the suburban housing boom,[31] and many moved to designated black neighborhoods, which were often located in the most undesirable areas (Figure 43, *Map of "Redlining" in Los Angeles* [*1939*]).[32]

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27 City of Los Angeles. March 2012. *SurveyLA: Southeast Los Angeles Community Plan Area*. Prepared by: Galvin Preservation Associates, El Segundo, CA. Available at: http://preservation.lacity.org/sites/default/files/SELA%20Final%20Report_HPLAEdit.pdf

28 Wright, Russell O. 2007. *Chronology of Housing in the United States*. Jefferson, NC: McFarland & Co., p. 23.

29 Nichols, Chris. 13 January 2013. "Disp L.A. Case #29: Redlining Maps." *Los Angeles Magazine*. Available at: http://www.lamag.com/askchris/displa-case-29-redlining-maps/

30 Wright, Russell O. 2007. *Chronology of Housing in the United States*. Jefferson, NC: McFarland & Co., p. 24.

31 Wright, Russell O. 2007. *Chronology of Housing in the United States*. Jefferson, NC: McFarland & Co., p. 24.

32 Madrigal, Alexis C. "The Racist Housing Policy That Made Your Neighborhood." 22 May 2014. *The Atlantic*. Available at: http://www.theatlantic.com/business/archive/2014/05/the-racist-housing-policy-that-made-your-neighborhood/371439/

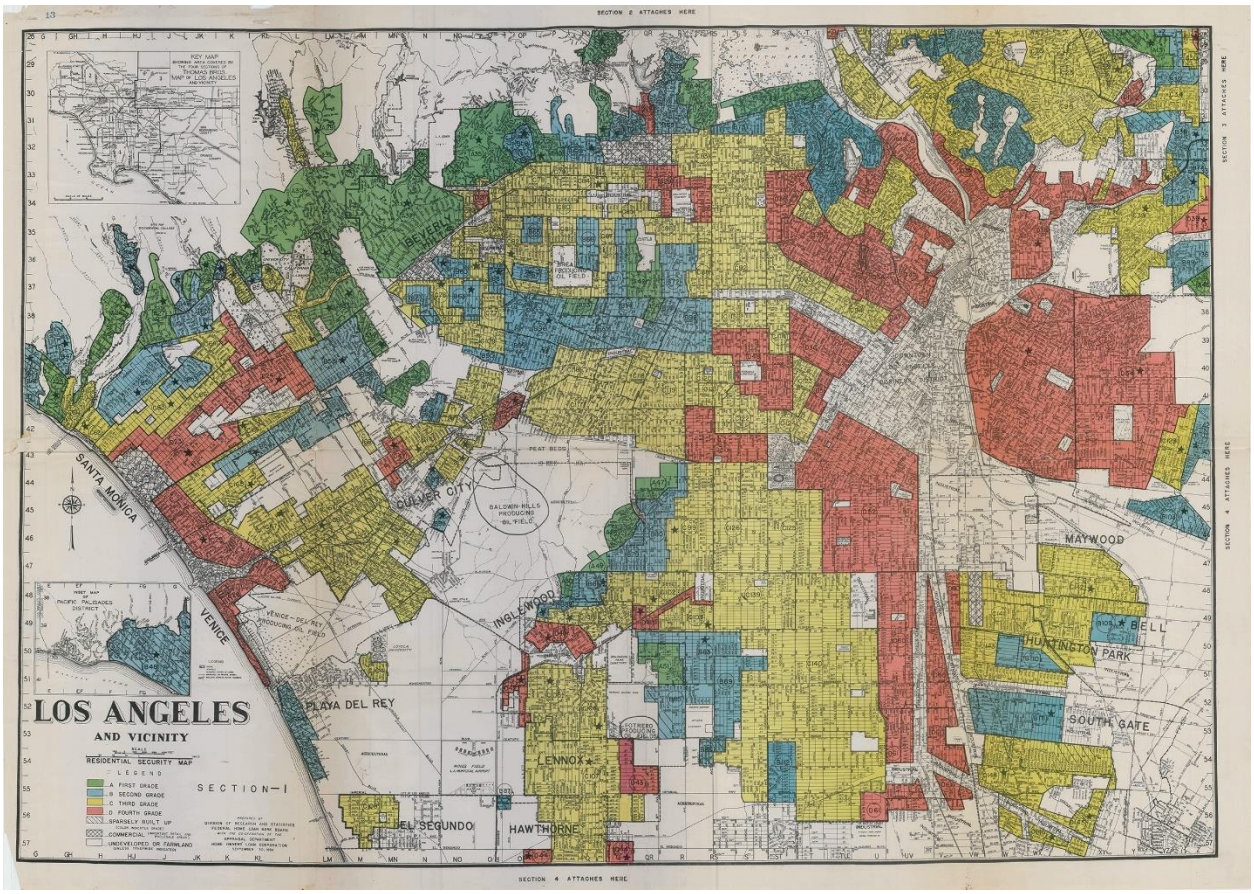

Figure 43. Map of "Redlining" in Los Angeles (1939)
SOURCE: *Los Angeles County Public Library, Tessa Digital Collections*[33]

In 1938, complaints were filed against the principal of the 92nd Street Elementary School. Parents of students there decried the principal's suggestion that black children "would be happier if they enrolled in a school ten blocks away where the majority of students were colored" and attempted to force black students to transfer.[34] The *Los Angeles Sentinel* launched an investigation of the Board of Education. No further information was available in the historical record on this issue.

The issues associated with "redlining" visibly manifested in the school system into the 1960s. As the population increased—enrollment from 1959–1960 to 1960–1961 rose by 28,000 students—discrimination and racial segregation became increasingly pronounced. The black population of Watts increased eightfold between 1940 and 1960.[35] As Architectural Historian Teresa Grimes, *et al.*, writes:

> *While the LAUSD officially mandated that students attend the school closest to them, white students in racially mixed neighborhoods were able to seek a waiver and attend a predominately white school. This practice, combined with segregated residential patterns, resulted in de facto segregation well into the 1950s. When the* [National Association for the Advancement of Colored People] *NAACP started investigating the schools' system in 1953*

[33] Los Angeles Public Library, Tessa Digital Collections, Accessed September 5, 2018. Available at: https://www.lapl.org/sites/default/files/media/images/blog-central/history/LosAngelesHOLC-lg.jpg
[34] "Charge Prejudice to School Head." 15 September 1938. *Los Angeles Sentinel*.
[35] Wyatt, David. 1997. Five Fires: Race, Catastrophe, and the Shaping of California. Reading, MA: Addison-Wesley.

> *and U.S. Supreme Court handed down the* landmark Brown v. Board of Education *case in 1954, schools became a central focus of the Los Angeles civil rights movement. Resistance from both the LAUSD and white parents in affected neighborhoods throughout the city led to a protracted battle over school desegregation well into the 1970s.*[36]

One of the solutions presented by the Los Angeles Unified School District was to "bus" students from various areas of the City to other schools, thereby forcibly integrating the student body. This was perhaps the most controversial solution, and some students were sent to schools that were hours away from their homes.[37]

A study on integration included two students from 92nd Street Elementary School in 1977. The 45-member committee marked "the first integration activity carried out from those ideas proposed in the school district's integration plan now before the Los Angeles Superior Court."[38] Besides the two students involved in this study, there is no evidence that busing was conducted at the 92nd Street Elementary School.

Indeed, there were many other schools in the Watts neighborhood that were more directly involved in conversations regarding discrimination, inequal access to education, and involved in busing programs. A dozen are listed in the *Historic Resources Associated with African Americans in Los Angeles* by Architectural Historian Theresa Grimes.[39] This is not to say 92nd Street Elementary School did not suffer similar issues, but that the historical record only briefly mentions an example of discrimination in 1938 and two students from the school who were involved in a 3-day summit on busing. The school was established prior to the demographic changes that occurred in Watts, but the school also did not experience an event that was significant in this change through integration of the schools.

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[36] Grimes, Teresa. 31 December 2008. "Historic Resources Associated with African Americans in Los Angeles, Los Angeles County, California," National Register of Historic Places. Washington, DC: U.S. Department of the Interior, National Park Service.

[37] Los Angeles Unified School District. 2014. *Historic Context Statement, 1870 to 1969*. Prepared by: Sapphos Environmental, Inc., Pasadena, CA, p. 112. Available at: http://preservation.lacity.org/sites/default/files/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf

[38] Birkinshaw, Jack. 14 April 1977. "Committee to Begin Study of L.A. Student Integration." *Los Angeles Times,* p. 182.

[39] Grimes, Teresa. 31 December 2008. "Historic Resources Associated with African Americans in Los Angeles, Los Angeles County, California," National Register of Historic Places. Washington, DC: U.S. Department of the Interior, National Park Service.

5.1 ARCHITECTS

5.1.1 Alfred S. Nibecker Jr.

Alfred S. Nibecker Jr. worked as an architect during a pivotal moment in Los Angeles architectural history from the 1920s through the 1950s. As further explained in the *Los Angeles Unified School District Historic Context Statement:*

> *Guiding the Los Angeles school districts through rapid expansion in 1920s, disaster and depression during the 1930s, and the great postwar boom through the mid-1950s was district architect and business manager Alfred S. Nibecker, Jr. In the 1920s, Nibecker began private practice in Los Angeles; he joined the Los Angeles City Board of Education as an architect in 1926, where he remained until his retirement in 1955. In his three-decade career with the school district, Nibecker oversaw the construction of, and contributed designs to, hundreds of school plant projects. Many commissions were completed by the district's in-house staff, but many others were handled by a range of the region's best architects and builders, with an increasing number of firms specializing in school design. In addition to his work with the Los Angeles City school districts, Nibecker was a fellow of the American Institute of Architects and served on the National Committee on School House Construction, the National Advisory Council on School Building Problems, run under the auspices of the U.S. Department of the Interior, Office of Education. In 1955, Nibecker was made an honorary member of the Structural Engineers Association of Southern California, the association's highest award.*[40]

Alfred S. Nibecker Jr. was mostly active in Los Angeles. The below table identifies some of Nibecker's other designs at schools in the City and their potential eligibility criteria as identified by SurveyLA (Table 1, *Alfred S. Nibecker-Designed Architecture in Los Angeles*).

[40] Los Angeles Unified School District. March 2014. *Historic Context Statement, 1870 to 1969.* Prepared by: Sapphos Environmental, Inc., Pasadena, CA, p. 42. Available at: http://preservation.lacity.org/sites/default/files/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf

TABLE 1
ALFRED S. NIBECKER JR.-DESIGNED ARCHITECTURE IN LOS ANGELES

Name	CPA	Location	Style	Year	Eligibility
Pacific Palisades Elementary School	Brentwood-Pacific Palisades	Pacific Palisades, CA	Spanish Colonial Revival	1930	A/C; 1/3; 1/3[41]
David Starr Jordan High School	Southeast Los Angeles	Los Angeles, CA	PWA Moderne	1933–1935	A/C; 1/3; 1/3[42]
El Sereno Middle School	Northeast Los Angeles	Los Angeles, CA	Renaissance Revival	1940	C/3/3[43]
109th Street Elementary School	Southeast Los Angeles	Los Angeles, CA	French Revival (Norman)	1930	A/C; 1/3; 1/3[44]

As evidenced by this table, Nibecker was active designing educational facilities across the city from the 1930s to 1950s. He worked in a number of designs, including PWA Moderne, Renaissance Revival, Spanish Colonial Revival, and French Norman Revival. Nibecker's skills at learning and creating exemplary high-style designed buildings of various architectural styles demonstrates his mastery of architecture. Nibecker is recognized for his greatness in the field of Revival-style design of educational facilities and is a known craftsman of consummate skill.

5.1.2 Vincent J. Proby Jr.

Vincent Jarvis Proby Jr. was born in Wichita, Texas in 1928. His family moved to Oklahoma shortly after his birth, where he resided for much of his childhood. Proby and his family moved to Los Angeles in the 1940s, where he lived for the rest of his life.[45] Proby attended Los Angeles City College before transferring to the University of California, Los Angeles (UCLA) where he studied architecture.[46] As an architect, Proby completed the A. C. Bilbrew branch library in Willowbrook in 1974.[47] In 1984, he and Jack W. Haywood designed the California African-American Museum

[41] City of Los Angeles. 2013. "Historic Districts, Planning Districts and Multi-Property Resources." *SurveyLA: Brentwood-Pacific Palisades Community Plan Area,* pp. 94–97. Prepared by: Architectural Resources Group, Inc., San Francisco, CA. Available at: http://www.preservation.lacity.org/files/Brentwood%20Pacific%20Palisades%20Districts.pdf

[42] City of Los Angeles. 2012. "Historic Districts, Planning Districts and Multi-Property Resources." *SurveyLA: Southeast Los Angeles Community Plan Area,* pp. 19–21. Prepared by: Galvin Preservation Associates, El Segundo, CA. Available at: http://preservation.lacity.org/files/SELAAppendixCFinal3_12.pdf

[43] City of Los Angeles. [2012] February 2017. "Individual Resources." *SurveyLA: Northeast Los Angeles Community Plan Area*, p. 69. Prepared by: Historic Resources Group, Pasadena, CA and Galvin Preservation Associates, El Segundo, CA. Available at: http://preservation.lacity.org/sites/default/files/NortheastLosAngeles_IndividualResources.pdf

[44] City of Los Angeles. 2012. "Individual Resources." *SurveyLA: Southeast Los Angeles Community Plan Area,* p. 21. Prepared by: Galvin Preservation Associates, El Segundo, CA. Available at: http://preservation.lacity.org/files/SELAAppendixAFinal3-12.pdf

[45] "Vincent Jarvis Proby Jr., Family Tree." Ancestry.com.

[46] "Proby, Vincent J. Jr." 1970. American Architects Directory. Accessed September 10, 2018. Available at: http://public.aia.org/sites/hdoaa/wiki/American%20Architects%20Directories/1970%20American%20Architects%20Directory/Bowker_1970_P.pdf

[47] "Vincent Proby." 2005–2012. Pacific Coast Architecture Database. Accessed September 10, 2018. Available at: http://pcad.lib.washington.edu/firm/864/

(CAAM) in Exposition Park in Los Angeles.[48] This building was identified as a potential historic resource in Los Angeles.[49] Other educational buildings he designed included buildings at UCLA, Los Angeles City College, and Pierce College.[50] He also completed the Aldama Street School Auditorium as well as classroom buildings at 74th Street School, 52nd Street School, and Brocton Avenue School.[51,52] Additionally, Proby designed multiple Bank of America branches, churches, shopping malls, and medical buildings. [53]

Proby was the first African-American to be appointed to the State Board of Architectural Examiners where he served as President, Vice President, and Treasurer over the course of eight years. He won the State Board of Architectural Examiners Leadership Award, the NAACP's Act-So Award and was honored by the City of Los Angeles and County of Los Angeles.[54]

[48] "Black History Month Recognizes: California African American Museum. 22 February 2018. *Los Angeles Sentinel*. Accessed September 10, 2018. Available at: https://lasentinel.net/black-history-month-recognizes-california-african-american-museum.html

[49] City of Los Angeles. SurveyLA: LA Citywide Historic Context Statement, African American History of Los Angeles. 2018. Prepared by GPA Consulting and Alison Rose Jefferson. Page 214.

[50] "Untitled." Los Angeles County Arts Commission. Accessed September 10, 2018. Available at: https://www.lacountyarts.org/civicart/objects-1/info/176

[51] "Proby, Vincent J. Jr." 1970. American Architects Directory. Accessed September 10, 2018. Available at: http://public.aia.org/sites/hdoaa/wiki/American%20Architects%20Directories/1970%20American%20Architects%20Directory/Bowker_1970_P.pdf

[52] "Work Started on Drawings for School." 21 November 1965. *Los Angeles Times*.

[53] "Architect, Proby, Dies." 10 December 1987. *Los Angeles Sentinel*.

[54] "Architect, Proby, Dies." 10 December 1987. *Los Angeles Sentinel*.

6.1 SIGNIFICANT EVALUATION

The Assembly & Classroom Building West was designed in the Renaissance Revival style of architecture. The Administrative & Library Building/Kindergarten Building and Cafeteria Building were designed in the New Formalist style of architecture. Other buildings at the campus that date to the historic period are vernacular. For this reason, the subsequent architectural theme for the Renaissance Revival from the *Los Angeles Unified School District Historic Context Statement,* has been included. The architectural theme for New Formalism was also adapted from the Riverside Historic Context, which covers Southern California, as this theme was not included in the *Los Angeles Unified School District Historic Context Statement*. The Administrative & Classroom Building West was built just after the 1933 Long beach earthquake, for this reason the Post-1933 Long Beach Earthquake School Plans theme has been included:

6.1.1 Renaissance Revival Style[55]

In the late 19th and early 20th centuries, the Renaissance Revival style began as a fairly literal translation of sixteenth-century Italian palazzi in two- and three-story buildings. The style evolved into one of the most popular of the 1920s, in particular for midrise office buildings. The architecture firm of McKim, Mead, and White, which included architects Charles McKim, William Mead, and Stanford White, designed some of the United States' most elegant expressions of the revival during its earlier years. During the 1920s, local architects such as the firms of Walker and Eisen (Albert R. Walker and Percy A. Eisen) and Parkinson and Parkinson (John Parkinson and Donald Parkinson) designed many of Los Angeles's best examples.

Renaissance Revival buildings in Southern California are generally sheathed in brick or stucco. Facades are symmetrical or highly regular and divided into bays by the fenestration pattern or by piers, which are often treated as columns with bases and capitals. Variations in surface finishes, fenestration, and level of detail visually distinguish each section, creating a horizontal emphasis that is reinforced by prominent belt courses. A cornice, set above a frieze and/or architrave, traditionally tops a Renaissance Revival building. Windows on top stories are often distinguished from lower stories by different surrounds and configuration.

Typical Character-Defining Features:

- Rectangular massing
- Brick, stucco, and concrete, with trim of terra cotta or cast stone and bases of granite or masonry
- Horizontal emphasis; differentiated treatment of stories
- Symmetry and regularity
- Brick, stucco, or concrete exterior, often scored to resemble masonry
- Gabled and/or hipped roof, often sheathed in clay tiles

[55] Los Angeles Unified School District. March 2014. *Historic Context Statement, 1870 to 1969*. Prepared by: Sapphos Environmental, Inc., Pasadena, CA, p. 120. Available at: http://preservation.lacity.org/sites/default/files/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf

- Linear fenestration pattern
- Belt courses and cornices
- Classical detailing
- Cast stone or terra cotta architectural ornament

6.1.2 New Formalism (Post-1945)[56]

New Formalism was developed in the mid-1950s as a reaction to modernism's total rejection of historical precedent. A maturing modernism grasped the many commonalities with classicism, such as emphases on structure and a uniform construction grid, a carefully organized hierarchy, and clarity of geometric form. Searching for symbolic meaning, modernist architects of the mid-1950s through the early 1970s embraced classical precedents in establishing building proportions, in the use of the arches, stylized classical columns and entablatures, and in use of the colonnade as a compositional device, as well as the elevated podium. Traditional rich materials such as travertine, marble, or granite were used, as were manmade materials that mimicked their luxurious qualities. However, they were used in a panelized way that was non-traditional. On a larger urban design scale, grand axes and symmetry were used to achieve a modern monumentality. Primary in developing New Formalism were three architects: Edward Durrell Stone, Philip Johnson, and Minoru Yamasaki, all of whom had earlier achieved prominence working within the International Style and other modernist idioms. Stone's well-published American Embassy in New Delhi (1954) is considered by many to mark the origin of the movement.

In Southern California the style was applied mainly to auditoriums, museums, and educational facilities. In these campus settings, buildings were often arranged symmetrically along grand axes and landscape features to achieve a modern monumentality. Edward Durrell Stone produced his first Southern California design in the mode of New Formalism in 1958. His local masterpiece, the Stuart Pharmaceutical Company Plant and Office Building in Pasadena is listed in the National Register.

Typical Character-Defining Features:

- Symmetrical plans
- Flat rooflines with heavy overhanging entablatures
- Full-height colonnades and elevated podiums used as compositional devices
- Repeating arches and rounded openings
- Large screens of perforated cast stone or concrete or metal grilles
- Lacey concrete block privacy walls
- Buildings set behind plazas

[56] City of Riverside. *Modernism Context Statement*. 2009. Available at: https://www.riversideca.gov/historic/pdf/Modernism.pdf

6.1.3 Historic Context Statement

CONTEXT: PUBLIC AND PRIVATE INSTITUTIONAL DEVELOPMENT | EDUCATION

THEME: LAUSD | POST–1933 LONG BEACH EARTHQUAKE SCHOOL PLANTS, 1933–1945 [57]

Property Type:	Institutional/Educational
Property Subtypes:	Elementary, Junior High, and High School Buildings and Campuses
Period of Significance:	1933 to 1945
Area of Significance:	Education
Geographic Location:	Citywide
Area of Significance:	A/1

Eligibility Standards:

- Exemplifies post–Long Beach earthquake school planning and design concepts of the period, including requirements under the 1934 Field Act
- One-story massing for elementary schools; up to two stories for junior/high schools
- Retains most of the associative and character-defining features from the period of significance

Character-Defining Features | Buildings/Structures:

- One-story massing for elementary schools; up to two stories for middle and senior high schools
- Reinforced concrete, steel- or wood-frame construction
- Classroom wings designed for easy access and views to outdoors—with variations including 'L'-, 'H'-, 'T'-shaped building plans
- Generous expanses of windows, including steel- and wood-framed multi-light windows, awning and hopper casements, clerestories, and large-pane fixed windows; window groupings often mark the location of classrooms
- Stylistically more streamlined and less ornamental than 1920s period-revival styles
- Emphasis on "traditional Southern Californian" styles, such as Spanish Colonial and Mission Revival
- Styles can also include PWA Streamline Moderne, Art Deco, Late Moderne, and proto-modern styles
- May have been partially or fully funded through Works Progress Administration (WPA), 1935 to 1943
- WPA projects may include significant interior artwork such as murals, paintings and sculpture
- May have been designed by a prominent architect of the period

[57] Los Angeles Unified School District. March 2014. *Historic Context Statement, 1870 to 1969*. Prepared by: Sapphos Environmental, Inc., Pasadena, CA, p. 120. Available at: http://preservation.lacity.org/sites/default/files/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf

Character-Defining Features | Campus/District:

- Unified site plan consisting of buildings and structures designed and sited according to their use
- Use of designed outdoor and landscaped spaces, for outdoor study, recreation, and dining
- Often displays connecting sheltered corridors throughout campus
- Emphasis on a more expansive site plan
- Varied collection of buildings, differentiated by function and use (rather than a single building with all functions inside)
- Might include an elaborate administration building, located near the campus entrance; administration buildings usually serve as the focal point of the campus
- Campus often composed of groupings of classroom wings, auditoriums, gymnasiums, cafeterias, and outdoor recreation and dining areas
- Middle or senior high schools might include a gymnasium designed in the style of the campus overall

Integrity Considerations:

- Should retain most of the essential physical features from the period of significance
- Some materials may have been removed or altered
- Modern lighting and fencing of site acceptable
- Schools from this period generally include buildings constructed after the period of significance, in particular post-World War II buildings, which may be noncontributing
- Eligible properties under this theme may be a single building, if it exemplifies the design ideals of the era, or a grouping (campus) of buildings constructed during the period of significance
- Intact campus groupings from the pre-1945 era are not common
- Many pre-1933 schools were substantially remodeled following the Long Beach earthquake—may retain a 1920s plan but with 1930s stylistic detailing.
- Pre-1933 schools rehabilitated post-1933 might exhibit added seismic supports of steel columns, beams, or diagonal bracing; original masonry might be covered by concrete/stucco sheathing
- Should retain integrity of Materials, Design, Workmanship, Feeling, and Association from its period of significance

Comments: Buildings exhibiting distinctive design features might also qualify under Criteria C/3, as the embodiment of the distinctive characteristics of a type/period or method of construction, as an example of the work of a master architect, or for high artistic values.

6.2 SIGNIFICANCE ANALYSIS

The individual buildings were evaluated against the above applicable Contexts, Themes, and Property Types including the Renaissance Revival architectural style and the Post-1933 Long Beach Earthquake School Plants. Features of the school were evaluated both for individual eligibility for listing in the National Register, the California Register, and for local designation as a HCM. The school campus was also considered for eligibility as a historic district (Historic Preservation Overlay Zone).

6.2.1 Individual Components

The following chart reflects the eligibility findings of individual resources at the 92nd Street Elementary School. Note that only buildings that are 45+ years of age or will reach that date within the projected timeline for the subject property (approximately 3 years) and thereby date to the historic period were evaluated (Table 2, *Eligibility of Buildings and Structures at 92nd Street Elementary School*).

TABLE 2
ELIGIBILITY OF BUILDINGS AND STRUCTURES AT
92ND STREET ELEMENTARY SCHOOL

Name	Figure 3 Number	Year Built	Type	Historical Resource
Administrative & Library Building/ Kindergarten Building	1/6	1976	Permanent	Yes
Assembly & Classroom Building West	2	1939/1940	Permanent	Yes
Classroom Building (Finger)	3	1957	Permanent	No
Classroom Building (Finger)	4	1957	Permanent	No
Classroom Building C (Finger)	5	1960	Permeant	No
Kindergarten Building	7	1965	Permanent	No
Sheltered Breezeway	8	1957	Permanent	No
Classroom Building D	9	1968	Permanent	No
Cafeteria Building	10	1976	Permanent	Yes
Two/Three Unit Relocatable	11	1949	Portable	No
Storage Unit	12	1973	Permanent	No
Boiler Vault Building	13	1971	Permanent	No
Single Unit Modular	14	1986	Portable	N/A
Single Unit Modular	15	1986	Portable	N/A
Lunch Shelter	16	2001	Permanent	N/A
Sanitary Modular Building	17	2005	Portable	N/A
Double Unit Modular Building	18	1998	Portable	N/A
Double Unit Modular Building	19	2005	Portable	N/A

92ND STREET ELEMENTARY SCHOOL ELIGIBILITY

Criterion A/1/1

Based upon a review of the Post-1933 Long Beach Earthquake School Plants context of the *Los Angeles Unified School District Historic Context Statement*, the 92nd Street Elementary School does not have an important association with the early settlement or educational development within the Watts neighborhood. The school was constructed in in the 1930s, before the demographics of the neighborhood changed to a majority African-American area and was not associated with any notable events. Therefore, the school is not eligible under Criterion A.

Criterion B/2/2

No information was found to suggest that anyone associated with the 92nd Street Elementary School through the 1970s were historic personages, or that any other individuals of historic significance were associated with the property. Therefore, the 92nd Street Elementary School is not eligible under Criterion B.

Criterion C/3/3

Three building at the school are individually significant for their architecture and design by significant architects: The Assembly & Classroom Building West, the Administrative & Library Building/Kindergarten Building, and the Cafeteria Building. Whereas all three buildings are historical resources, the Assembly & Classroom Building West is eligible under the federal, state, and local criteria whereas the Administrative & Library Building/Kindergarten Building and the Cafeteria Building are only eligible under local criteria.

The 92nd Street Elementary School is not eligible for listing as a historic district because the school lacks a cohesive plan. Although the school was constructed organically, it represents piece-meal construction that occurred over the course of many decades, from the 1930s to present. The 1939 Assembly & Classroom Building West reflects the Post-1933 Long Beach Earthquake School Plants design. The finger buildings (Classroom Buildings, 1956) are not significant in design nor are they strong examples of this design and therefore are not eligible for listing under the Postwar Modern, Functionalist School Plant theme. The Administrative & Library Building/Kindergarten Building and the Cafeteria Building were constructed in 1976 as individual buildings scattered throughout the existing campus and do not reflect a clear campus design. Therefore, the 92nd Street Elementary School is not a unified entity as the historical resources' significance is not interrelated.

Moreover, the individually eligible buildings were designed in varying architectural styles by different architects. Therefore, these building are significant independent of each other and represent different designs. Alfred S. Nibecker designed the Assembly & Classroom Building West in the Renaissance Revival style of architect that reflected a minimization of ornament, likely to account for changes in building practices to account for seismic activity. Vincent J. Proby was an architect active in the 1960s through 1980s who designed the Administrative & Library Building/Kindergarten Building and Cafeteria Building in the New Formalist style of architecture. The 92nd Street Elementary School therefore is not eligible as a historic district because it lacks a cohesive plan and represents different periods of architectural productivity reflecting diverse architects and architectural styles.

Assembly & Classroom Building West

The Assembly & Classroom Building West was designed in 1939 by significant architect Alfred S. Nibecker in the Renaissance Revival style. The building was evaluated using the Renaissance Revival architectural style and the Post-1933 Long Beach Earthquake School Plants and comparative methods to other Nibecker-designed schools across Los Angeles.

Alfred S. Nibecker was a significant architect who focused on Revival-style educational facilities across Los Angeles. Recognized for his ability to adopt and master various architectural styles, Nibecker was known for designing French Norman Revival, Renaissance Revival, and Spanish Colonial Revival-style buildings. Nibecker also evidences a mastery of designing buildings in these Revival-styles with conservative ornament without unnecessary ornamentation, a necessary change

in design that occurred after the 1933 Long Beach Earthquake. Nibecker's ability to capture the true essence of a style without gaudy or excessive finishes proves his skill as an architect. The Assembly & Classroom Building West is a prime example of his reformed yet true-to-form rendition of the Renaissance Revival architectural style. Therefore, the Assembly & Classroom Building West represents Nibecker's architectural versatility and capability and quality of design.

The Assembly & Classroom Building West exhibits quality of craftsmanship and is an excellent example of the Renaissance Revival style of architecture in Los Angeles. The building retains its character-defining features of this style of architecture. As this building is a unique and intact example of this architectural style which was designed by a significant architect in the City of Los Angeles, the building is significant in design. The Assembly & Classroom Building West embodies distinctive characteristics of Renaissance Revival-style architecture and is the work of a significant architect. Therefore, the property is eligible for individual listing in the National Register, California Register, and as an HCM at the local level of significance under Criterion C/3/3 for its architecture and association with Alfred S. Nibecker (Figure 44, *Sketch Map of Assembly & Classroom Building West, 92nd Street Elementary School*).

Administrative & Library Building/ Kindergarten Building and Cafeteria Building

The Administrative & Library Building/Kindergarten Building and Cafeteria Building were designed in 1976 by significant architect Vincent J. Proby in the New Formalism style of architecture. The buildings evidence this style's emphasis on symmetrical plans, flat rooflines with heavy overhanging entablatures, and full-height colonnades. Therefore, the buildings were evaluated using the New Formalism style theme.

Proby designed the A. C. Bilbrew branch library in Willowbrook, the CAAM in Exposition Park, as well as numerous educational buildings at University of California, Los Angeles (UCLA), Los Angeles City College, and Pierce College.[58] Additionally, Proby designed multiple Bank of America branches, churches, shopping malls, and medical buildings. [59] Proby was the first African-American to be appointed to the State Board of Architectural Examiners where he served as President, Vice President, and Treasurer over the course of eight years. He won the State Board of Architectural Examiners Leadership Award, the NAACP's Act-So Award, and was honored by the City of Los Angeles and County of Los Angeles.[60] Proby was a significant architect in Los Angeles who broke the color barrier for awards and adopted a new and monumental form of architecture, notably the New Formalism style.

The Administrative & Library Building/Kindergarten Building and Cafeteria Building exhibit quality of craftsmanship and are strong local examples of the New Formalist style of architecture. Moreover, few examples of this style appear to be extant in Southeast Los Angeles, making these buildings rare examples in the Watts area. Although the buildings are significant for style, design, and association with Vincent J. Proby, a significant architect, this significance is limited to the local level. Therefore, the Administrative & Library Building/Kindergarten Building and Cafeteria Building are eligible for designation as HCMs for their design by significant architect Vincent J. Proby pursuant to Criterion 3 (Figure 45, *Sketch Map of Administrative & Library Building/Kindergarten Building and Cafeteria Building, 92nd Street Elementary School*).

[58] "Untitled." Los Angeles County Arts Commission. Accessed September 10, 2018. Available at: https://www.lacountyarts.org/civicart/objects-1/info/176

[59] "Architect, Proby, Dies." 10 December 1987. *Los Angeles Sentinel*.

[60] "Architect, Proby, Dies." 10 December 1987. *Los Angeles Sentinel*.

Criterion D/4/4

Criterion D was not considered in this report as it generally applies to archaeological resources. Additionally, there is no reason to believe the property has the potential to yield important information regarding prehistory or history (Attachment B, *DPR 523 Series Forms)*.

Figure 44. Assembly & Classroom Building West, 92nd Street Elementary School
SOURCE: *Sapphos Environmental, Inc., 2018*

Figure 45. Administrative & Classroom Building/Kindergarten Building and Cafeteria Building, 92nd Street Elementary School
SOURCE: *Sapphos Environmental, Inc., 2018*

7.1 INTEGRITY

Assembly & Classroom Building West

The Assembly & Classroom Building West retains its *location, design, workmanship, feeling,* and *association*. Some *materials* have changed where original windows were replaced with HVAC units and the *location* is somewhat changed from the time of construction. The *setting* has been only minimally altered from the construction and demolition of surrounding buildings. Overall, the Assembly & Classroom Building West retains its integrity and ability to convey its significance (Table 3, *Integrity of Assembly & Classroom Building West*).

TABLE 3
INTEGRITY OF ASSEMBLY & CLASSROOM BUILDING WEST

	High	Medium	Low	Remarks
Location	X			Remains in original location.
Design	X			Maintains major designed relationships including form, plan, space, structure, and style of the building.
Setting		X		Some changes to setting character, as original buildings surrounding the subject building were demolished, and new ones have been built since the time of construction in 1939. However, surrounding structures also used for educational purposes.
Materials		X		Building retains key exterior and interior materials from this period of historic significance. Some windows and doors have been replaced.
Workmanship	X			Retains original workmanship and evidence of the crafts of the architect.
Feeling	X			Property continued to express aesthetic and historic sense of 1939.
Association	X			Retains association and conveys architectural character.

Administrative & Library Building/Kindergarten Building and Cafeteria Building

The Administrative &Library Building/Kindergarten Building and Cafeteria Building retain their *location, design, materials, workmanship, feeling,* and *association*. The *setting* has been only minimally altered from the construction and demolition of surrounding buildings. Overall, the Administrative & Library Building/Kindergarten Building and Cafeteria Building retain their integrity and ability to convey their significance (Table 4, *Integrity of Administrative & Library Building/Kindergarten Building and Cafeteria Building*).

TABLE 4
INTEGRITY OF ADMINISTRATIVE & LIBRARY BUILDING/KINDERGARTEN BUILDING AND CAFETERIA BUILDING

	High	Medium	Low	Remarks
Location	X			Remains in original location.
Design	X			Maintains major designed relationships including form, plan, space, structure, and style of the building.
Setting		X		Some changes to setting character, as original buildings surrounding the subject building were demolished, and new ones have been built since the time of construction in 1939. However, surrounding structures also used for educational purposes.
Materials	x			Building retains key exterior and interior materials from this period of historic significance.
Workmanship	X			Retains original workmanship and evidence of the crafts of the architect.
Feeling	X			Property continued to express aesthetic and historic sense of 1939.
Association	X			Retains association and conveys architectural character.

8.1 CHARACTER-DEFINING FEATURES

Assembly & Classroom Building West

The Assembly & Classroom Building West retains numerous original details that comprise the building's character-defining features. These include aspects of the building's shape/form, roof, openings, projections, trim and secondary features, and materials. The character-defining features are also ranked to inform advance planning (Table 5, *Character-Defining Features of Assembly & Classroom Building*).

TABLE 5
CHARACTER-DEFINING FEATURES OF ASSEMBLY & CLASSROOM BUILDING

Type	Feature	Ranking
Shape/Form	'L'-shaped plan	MS
	1-story (approximately 15 feet)	MS
Roof	Flat Roof	S
	Concrete cornice	MS
Openings	Projecting primary entrance along 92nd Street	MS
	Rhythm of windows and doors	S
	Concrete ADA-accessible ramps and stairs	NHNS
	Original Wood Windows	MS
Projections	Slightly projecting assembly room along front façade	S
Trim and Secondary Features	Cast concrete molded trim and quoins around windows and doors	MS
	Metal Box Pipes	S
	Metal Window Screens	NHNS
	HVAC units	NHNS
Materials	Natural-tone common-bond speckled brick exterior	MS
	Diamond design of clinker bricks	MS
	Concrete water table	MS
	Concrete belt course	MS
Interior	Exposed natural-tone common-bond speckled brick walls	MS
	Wood transom window surrounds	MS
	Door surrounds	S
	Original cabinets	S
	Linoleum floor	CU
	Light Fixtures	NHNS
	Transom Windows	NHNS
	Ceiling	NHNS
Setting	Setback from 92nd Street and Anzac Avenue	MS

KEY:
MS = Most significant
S = Significant
CU = Common and Utilitarian
HNS = Historic; Not Significant
NHNS = Not Historic; Not Significant

Administrative & Classroom Building/Kindergarten Building and Cafeteria Building

The Administrative & Classroom Building/Kindergarten Building and Cafeteria Building retain numerous original details that comprise the buildings' character-defining features. These include aspects of the buildings' shape/form, roof, openings, projections, and materials. The character-defining features are also ranked to inform advanced planning (Table 6, *Character-Defining Features of Administrative & Classroom Building/Kindergarten Building*).

TABLE 6
CHARACTER-DEFINING FEATURES OF ADMINISTRATIVE & CLASSROOM BUILDING/KINDERGARTEN BUILDING

Type	Feature	Ranking
Shape/Form	Rectangular floor plan	S
	1-story	S
Roof	Flat Roof	S
	Curved Fascia/Eave	MS
	Stylized colonnade (Cafeteria Building only)	MS
Openings	Flush entrances with metal doors	S
	Rhythm of windows and doors	S
	Twelve-light aluminum windows	MS
	Original Aluminum transom windows	MS
Secondary Features	Brick polygon-shaped bases (Cafeteria Building only)	MS
Materials	Stucco Exterior	MS
	Aluminum windows	S
	Metal doors	NHNS
Setting	Setback from 92nd Street and Anzac Avenue	S
KEY: MS = Most significant S = Significant NHNS = Not Historic; Not Significant		

"14 Schools Selected to Deter Dropouts." 6 March 1963. *Los Angeles Times,* p. 34.

"21 L.A. School Sites Picked for Use as Fallout Shelters." 30 October 1962. *Los Angeles Times,* p. 31.

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ATTACHMENT A
RESUMES OF KEY PERSONNEL

Sapphos environmental inc

Alexandra I. Madsen, MA, BA

Senior Architectural Historian

MA, Art History, University of Texas at Austin, Austin, TX

BA (Magna Cum Laude), History, Saint Anselm College, Manchester, NH

- *Cultural resources management and legal compliance*
- *Identification and evaluation of the built environment*
- *Archival documentation*
- *Historic preservation consultation*
- *Secretary of the Interior's* Standards for the Treatment of Historic Properties
- *CEQA cultural resources analysis*
- *Section 106*

Years of Experience: 6+

Relevant Experience

- *Los Angeles County Department of Parks and Recreation 523 Series Forms*
- *Los Angeles Unified School District Design Review Reports*
- *Design Review*
- *Mills Act Tax Abatement Program*
- *Historic American Buildings Survey Report and Pamphlet, Bakersfield, CA*
- *Board Member, Highland Park Heritage Trust*

Ms. Alexandra Madsen, Senior Architectural Historian for Sapphos Environmental, Inc., has over six years of experience in the field of cultural resource management. Ms. Madsen has a Master's Degree in Art History from the University of Texas at Austin, where she focused on built environments, and a Bachelor's Degree in History from Saint Anselm College. She meets and exceeds the Secretary of the Interior's *Professional Qualification Standards* in History and Architectural History.

Ms. Madsen is experienced with Section 106 of the National Historic Preservation Act, California Environmental Quality Act (CEQA) compliance, and the Secretary of the Interior's *Standards for the Treatment of Historic Properties* (*Standards*). She has extensive experience in archival research and field surveys, completing cultural resources reports, and in evaluating properties under federal, State, and local criteria. She has worked on historic projects located in Los Angeles, Orange, and Kern Counties in Southern California.

Ms. Madsen has served as the project manager for numerous historic resource assessments within Los Angeles County for CEQA compliance. She completed evaluations for properties located in Glendale, Huntington Beach, Los Angeles, Long Beach, Monrovia, Orange, Sierra Madre, South Pasadena, Tustin, and West Hollywood among others.

In addition to these assessments, Ms. Madsen considered over 20 Los Angeles County Parks and Golf Courses for inclusion in federal, State, and local registers. These evaluations were documented with Department of Parks and Recreation (DPR) 523 series forms and informed by site visits, historic context statements, and substantial archival research. She also has extensive survey experience, and completed a Historical Resources Evaluation Report (HRER) and Historic Property Survey Report (HPSR) for the California Department of Transportation (Caltrans) in support of the SR 55 improvement project in Orange County.

Moreover, Ms. Madsen evaluated several educational institutions for the Los Angeles Unified School District (LAUSD), including Canfield Avenue Elementary School, Canoga Park High School, and Locke High School, consistent with the requirements of CEQA. These reports documented the construction of the school campuses, their early history, and notable events, people, or architectural styles encompassed on the campuses.

Ms. Madsen has reviewed the design of proposed construction, alterations, and additions to ensure compliance with the *Standards* for residential, commercial, and municipal properties. Properties assessed for compliance include a proposed podium-style building on Melrose Avenue in Los Angeles, alterations to a Mid-Century Modern clubhouse at the Los Verdes Golf Course, and an addition to a private residence in Sierra Madre, among others.

Ms. Madsen completed Historic American Buildings Survey (HABS) documentation in support of the 24th Street Widening Project in the City of Bakersfield, consistent with the requirements of Section 106. For this project, she authored a Historic Context Statement exploring the history of Bakersfield and a pamphlet illustrating the subject historic district's character.

Ms. Madsen is a member of the National Trust for Historic Preservation, California Preservation Foundation, L.A. Conservancy, and Pasadena Heritage. She is a board member of the Highland Park Heritage Trust.

Sapphos environmental inc.

Carrie E. Chasteen, MS, BA

Senior Historic Resource Specialist

MS, Historic Preservation, School of the Art Institute of Chicago, Chicago, IL

BA, History and Political Science, University of South Florida, Tampa, FL

Phi Alpha Theta historical honor society

- *Cultural resources management and legal compliance*
- *History of California*
- *Identification and evaluation of the built environment*
- *Historic American Building Survey (HABS) and Engineering Record (HAER) documentation*
- *Historic Property Survey Reports (HPSRs)*
- *Historical Resources Evaluation Reports (HRERs)*

Years of Experience: 15+

Relevant Experience

- *Certified Oregon Transportation Investment Act (OTIA) III CS3 Technical Lead*
- *Historic Preservation Commissioner, City of Pasadena, CA*
- *Historic consultant for the Shangri La Hotel renovation project, Santa Monica, CA*
- *Principal Architectural Historian for the Interstate 10 (I-10) Corridor Project*
- *HABS/HAER documentation for Mission Control at NASA JPL in Pasadena, CA*

Ms. Carrie Chasteen has more than 15 years of experience in the field of cultural resources management and the built environment, including project management, agency coordination, archival research, managing large surveys, preparation of Environmental Impact Statement / Environmental Impact Report (EIS/EIR) sections, peer review, and regulatory compliance. She meets and exceeds the Secretary of the Interior's *Professional Qualification Standards* in the fields of History and Architectural History.

Ms. Chasteen has served as Principal Investigator / Principal Architectural Historian on projects in Kern, San Bernardino, Riverside, Ventura, Los Angeles, Orange, Imperial, and San Diego Counties in Southern California. She has extensive experience with the California Office of Historic Preservation, the California Department of Transportation (Caltrans), San Bernardino Associated Governments (SANBAG), Los Angeles County Department of Parks and Recreation, the City of Los Angeles, and various other State, county, and local government agencies.

Ms. Chasteen served as the historic consultant for the design team for the renovation of the Shangri La Hotel, Santa Monica, California, which won a historic preservation award from the Santa Monica Conservancy. For the Shangri La Hotel project, Ms. Chasteen documented and ranked the character-defining features of the building and structures on the property; reviewed plans for consistency with the Secretary of the Interior's *Standards for the Treatment of Historic Properties;* assisted with developing creative solutions to meet the objectives of updating the hotel amenities while maintaining the historic character of the building; assisted with the entitlement process including presentations before the Planning Commission; and prepared Historic American Building Survey (HABS) documentation of the linoleum flooring which was set in unique patterns per room throughout the entire building. Additional experience includes serving as Principal Architectural Historian for the Interstate 10 (I-10) Corridor Project. For this project, Ms. Chasteen prepared a Historic Property Survey Report (HPSR), Historical Resources Evaluation Report (HRER), and a Finding of No Adverse Effect with Non-Standard Conditions (FNAE). As part of the FNAE, she conducted agency consultation with the Cities of Redlands, Upland, and Ontario, and with other interested parties including regional historical societies. Ms. Chasteen has also prepared Historic American Buildings Survey / Historic American Engineering Record (HABS / HAER) documentation for the former Caltrans District 7 headquarters building and the Space Flight Operations Facility, commonly referred to as Mission Control, a National Historic Monument, at the Jet Propulsion Laboratory (JPL) in Pasadena.

Ms. Chasteen is a member of the Society of Architectural Historians, National Trust for Historic Preservation, California Preservation Foundation, and Pasadena Heritage. Ms. Chasteen is also a Historic Preservation Commissioner for the City of Pasadena.

ATTACHMENT B
DPR 523 SERIES FORMS

State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION **PRIMARY RECORD**	Primary # HRI # Trinomial NRHP Status Code: 3S
Other Listings Review Code	Reviewer Date

Page 1 **of** 11 ***Resource Name or #** (Assigned by recorder)**:** Assembly & Classroom Building West
P1. Other Identifier: None

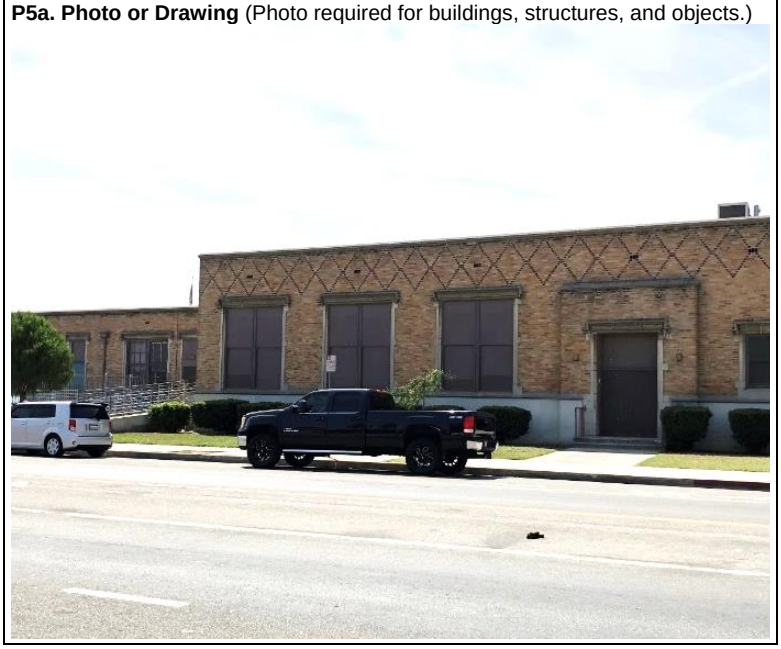
***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted**
***a. County:** Los Angeles **and** (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad:** South Gate **Date**: 1981 **T; R;__of__of Sec** ;__**B.M.**
c. Address: 9211 Grape Street **City:** Los Angeles **Zip:** 90002
d. UTM (Give more than one for large and/or linear resources) **Zone:** 11 , 385715 mE/ 37575641 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate): Rancho San Pascual (APN 6046-002-901)

***P3a. Description** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries): The Assembly & Classroom Building West is situated in the northwest corner of the school, is designed in the Renaissance Revival style, was built in 1939/1940, and is the oldest extant building on the 92nd Street Elementary School campus. The Assembly & Classroom Building West is 1 story and approximately 15 feet in height. The exterior of all façades is common-coursed brick comprised of various natural tones. A diamond pattern of clinker bricks accents the parapet of the primary ell of the building. A flat roof with a slightly overhanging simple concrete cornice graces the uppermost section of the school building. Cast concrete detailing around windows and doors features quoins and label molds. (*See Continuation Sheet page 4*)

***P3b. Resource Attributes** (List attributes and codes)**:** HP15. Educational Building

***P4. Resources Present:** ☒Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo (view, date, accession #): View facing southeast; August 24, 2018; IMG_1672.jpg (*See Continuation Sheet page 5*)

***P6. Date Constructed/Age and Source:**
☒Historic ☐Prehistoric ☐Both

***P7. Owner and Address:**
Los Angeles Unified School District
333 South Beaudry Avenue
Los Angeles, CA 90017

***P8. Recorded by** (Name, affiliation, and address): Alexandra Madsen
Carrie Chasteen
Sapphos Environmental, Inc.
430 N. Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:** September 18, 2018

***P10. Survey Type** (Describe)**:**
Intensive, CEQA Compliance, P—Project Review

***P11. Report Citation** (Cite survey report and other sources, or enter "none")**:** Sapphos Environmental, Inc. 2018. Historical Resource Assessment Report for the Assembly & Classroom Building West at 92nd Street Elementary School.

Attachments: ☐ NONE ☒ Location Map ☐ Sketch Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder): Classroom & Assembly Building West ***NRHP Status Code:** 3S

B1. Historic Name: Classroom & Assembly Building West
B2. Common Name: Classroom & Assembly Building West
B3. Original Use: Educational Facility **B4. Present Use:** Educational Facility
***B5. Architectural Style:** Renaissance Revival
***B6. Construction History:** (Construction date, alterations, and date of alterations)

Alfred S. Nibecker Jr. designed the Assembly & Classroom Building West in the northwest corner of the campus at this date. The original building permit was not available, although architectural drawings of the school illustrate its design and identify Nibecker as the architect. Nibecker designed this building in the Renaissance Revival style of architecture but also minimized the amount of ornament that was displayed on the building—this was a direct nod to the move away from ostentatious detailing that could become dangerous if there were another earthquake.

***B7. Moved?** ☒ **No** ☐ **Yes** ☐ **Unknown** **Date:** N/A **Original Location:** N/A
***B8. Related Features:** N/A
B9a. Architect: Alfred S. Nibecker Jr. **b. Builder:** C. W. Pierce
***B10. Significance: Theme: Residential architecture** **Area:** Watts, Los Angeles
Period of Significance: 1939 **Property Type:** Education Building **Applicable Criteria:** C/3/3
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

See Continuation Sheet page 8.

B11. Additional Resource Attributes (List attributes and codes): N/A

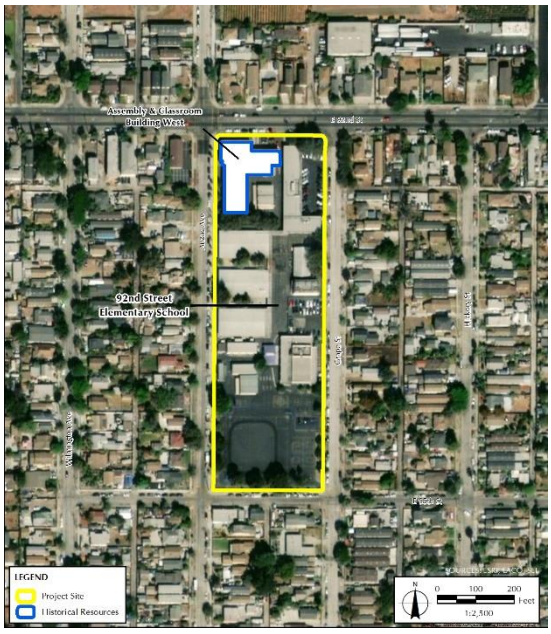
***B12. References:** See Continuation Sheet page 8.

***B13. Remarks:** N/A

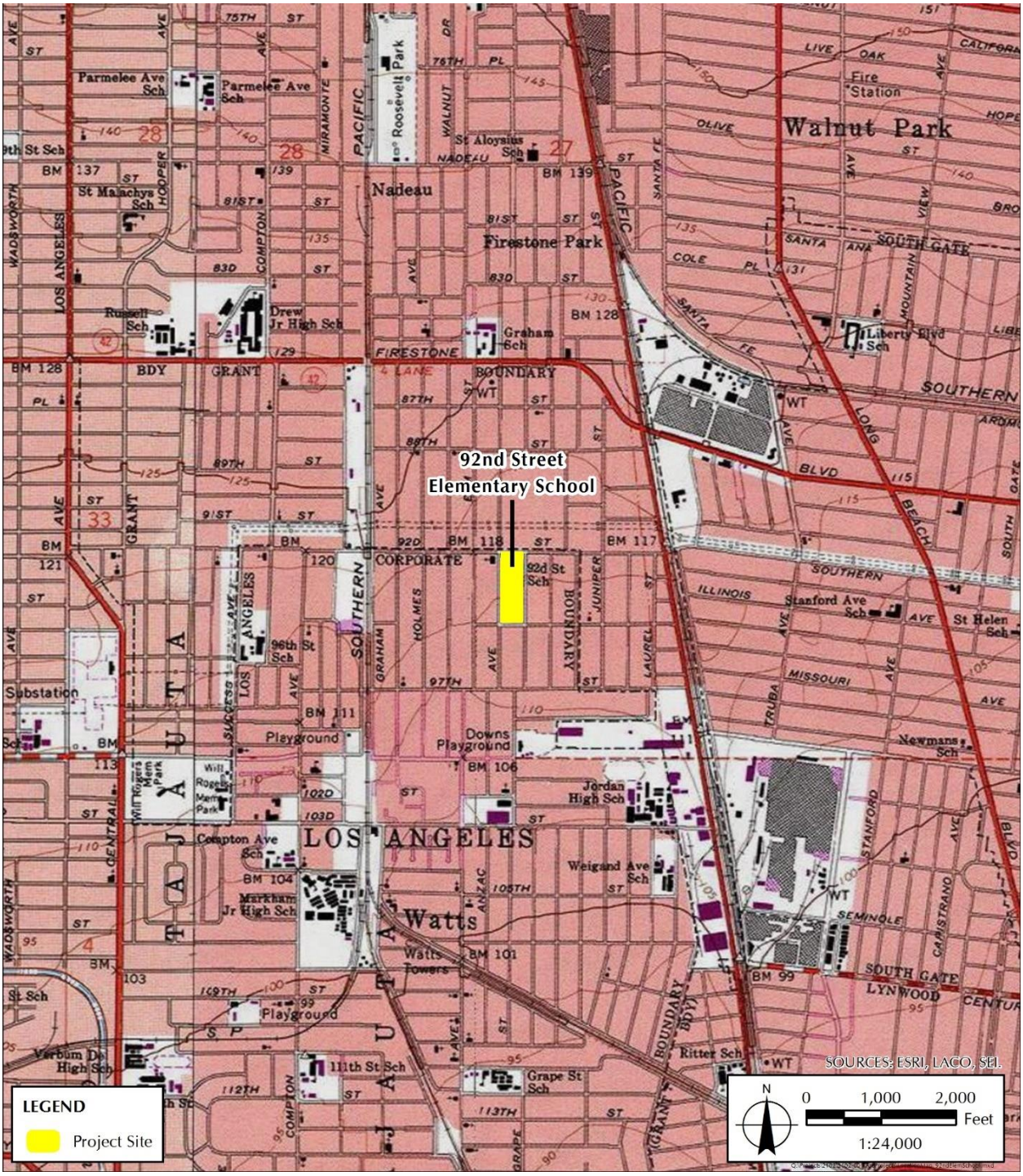
***B14. Evaluator:**
Alexandra Madsen
Carrie Chasteen
Sapphos Environmental, Inc.
430 N. Halstead Street
Pasadena, CA 91107

***Date of Evaluation:** September 18, 2018

(Sketch Map with north arrow required.)



(This space reserved for official comments.)


92nd Street
Elementary School
LEGEND
Project Site
SOURCES: ESRI, LACO, SEI.
N
0
1,000
2,000
Feet
1:24,000

***P3a. Description:** (*Continued from Primary Record page 1*)

The building's assembly room projects slightly further north than the rest of the building, which is comprised of two ells. This building has an upside-down 'L'-shaped footprint and can be divided into a primary façade that faces 92nd Street, an eastern ell with an east-west axis, and a western ell with a north-south axis.

Primary (Northern) Façade

The primary (northern) façade of the Assembly & Classroom Building West slightly projects from the main ell of the building, and features many of the character-defining features of the Renaissance Revival style. From 92nd Street, this façade gives the impression of a general rectangular massing. A concrete foundation and water table define the lower region of the building and are bordered by a thin belt course that wraps around the sides of the building. Small, rectangular air vents are evenly placed along the upper region of the elevation to provide passive air flow.

The original primary entrance to the building situated along this façade slightly projects from the rest of the façade and is accessible via two low, concrete stairs. This projecting bay provides minimal shelter for the entrance. Fenestration is linear and standard in nature; windows and doors are emphasized and ornamented with cast concrete molded trim and quoins. The primary door was replaced and windows along this façade have been covered with panels.

A side entrance along the northern façade is accessible via an Americans with Disabilities Act (ADA)-compliant concrete ramp with metal railings. One of the two parking lots on the campus abuts the Assembly & Classroom Building West's northern façade.

Eastern Ell

The eastern ell of the building features the most frequently traversed entrance to the building, which is across from the main office. This entrance has a raised concrete entrance and stairs with a metal handrailing. A shed roof provides a covered entrance porch that is upheld by metal columns. The boiler vault building is located kitty-corner to this entrance.

The water table and concrete belt course wrap around the eastern ell. Windows along the eastern ell of the building are mostly covered with heating, ventilation, air conditioning (HVAC) units, wood or metal panels, or aluminum screens that are not original. However, the few visible windows do appear to be original 6-light double-hung wood windows. A number of doors along this ell provide access to individual classrooms and feature concrete steps with metal railings. Original metal box gutters line this and the western ell. Vents below the roof provide passive air flow for the building, and security lights are installed for security purposes.

Western Ell

The western ell of the building continues the symmetry and detailing evident on the northern façade and eastern ell. An electrical box is located against the exterior of the western ell's eastern façade.

This ell features a painted mural depicting various animals set upon desert and tropical backgrounds that was likely completed by students, faculty, or a local artist. Paint is an impermanent material that can easily be removed. The southern façade of the western ell features the rear entrance to the building. The rear entrance features both a central concrete staircase and perpendicular ADA-compliant concrete ramp with metal railing. Vents line the building's foundation.

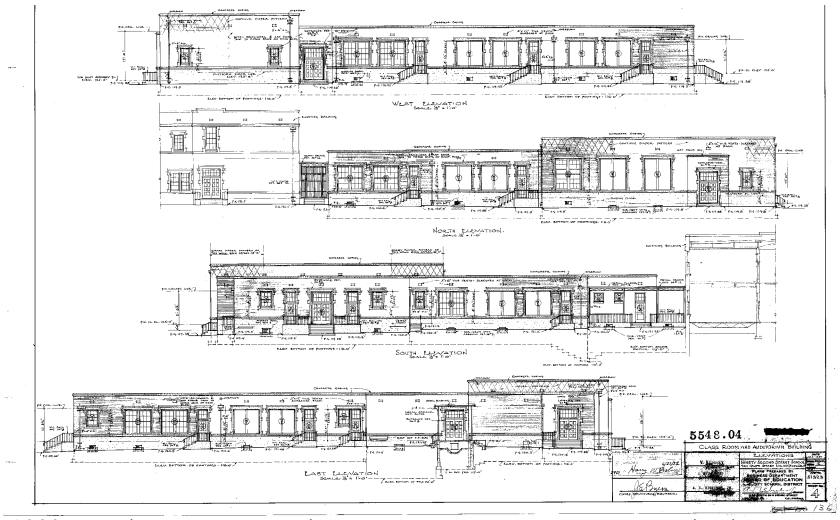
The western façade of the western ell of the building mimics much of the detailing, design, and appearance of the other facades. Individual staircases with metal railings lead to each classroom's back door. Crape myrtle (*Lagerstroemia indica*) trees are planted in a line along this façade as it borders Anzac Avenue. (*See Continuation Sheet page 5*)

***P3a. Description:** (*Continued from Continuation Sheet page 4*)

As visible from the entrance accessible on the southern façade of the western ell, the interior of the building retains many original features, such as the exposed brick walls and transom windows with wood surrounds that line the hallway.

Compared to a photograph from 1940, shortly after the building opened, it is evident that the interior of the building maintains much of its integrity despite minor alterations. Although the original transom windows, doors, and light fixtures were replaced, the wood surrounds remain, and the building's interior retains its original general appearance and feeling. Additional photographs of the interior were unavailable because the classes were in session at the time of the site visit.

P5a. Photo or Drawing: (*Continued from Primary Record page 1*)



1939 Architectural Drawing of Assembly & Classroom Building West
SOURCE: *LAUSD Vault Drawing No. 5548.00.000 (004)*

Detail, Northern Façade

(*See Continuation Sheet Page 6*)

P5a. Photo or Drawing: (*Continued from Continuation Sheet page 5*)

Eastern Façades of Eastern Ell

Eastern Façade of Western Ell

Southern Façade of Western Ell

(*See Continuation Sheet Page* 7)

P5a. Photo or Drawing: (*Continued from Continuation Sheet page 6*)

Western Façade of Western Ell

Hallway, Interior

***B10. Significance:** (*Continued from Building, Structure, and Object Record page 2*)

Alfred S. Nibecker Jr.

Alfred S. Nibecker Jr. worked as an architect during a pivotal moment in Los Angeles architectural history from the 1920s through the 1950s. As further explained in the *Los Angeles Unified School District Historic Context Statement:*

> *Guiding the Los Angeles school districts through rapid expansion in 1920s, disaster and depression during the 1930s, and the great postwar boom through the mid-1950s was district architect and business manager Alfred S. Nibecker, Jr. In the 1920s, Nibecker began private practice in Los Angeles; he joined the Los Angeles City Board of Education as an architect in 1926, where he remained until his retirement in 1955. In his three-decade career with the school district, Nibecker oversaw the construction of, and contributed designs to, hundreds of school plant projects. Many commissions were completed by the district's in-house staff, but many others were handled by a range of the region's best architects and builders, with an increasing number of firms specializing in school design.*
>
> *In addition to his work with the Los Angeles City school districts, Nibecker was a fellow of the American Institute of Architects and served on the National Committee on School House Construction, the National Advisory Council on School Building Problems, run under the auspices of the U.S. Department of the Interior, Office of Education. In 1955, Nibecker was made an honorary member of the Structural Engineers Association of Southern California, the association's highest award.*

Alfred S. Nibecker Jr. was mostly active in Los Angeles. The below table identifies some of Nibecker's other designs at schools in the City and their potential eligibility criteria as identified by SurveyLA. Nibecker was active designing educational facilities across the city from the 1930s to 1950s. He worked in a number of designs, including PWA Moderne, Renaissance Revival, Spanish Colonial Revival, and French Norman Revival. Nibecker's skills at learning and creating exemplary high-style designed buildings in various architectural styles demonstrates his mastery of architecture. Nibecker is recognized for his greatness in the field of Revival-style design of educational facilities and is a known craftsman of consummate skill.

EVALUATION

Criterion A/1/1

Based upon a review of the Post-1933 Long Beach Earthquake School Plants context of the *Los Angeles Unified School District Historic Context Statement*, the 92nd Street Elementary School does not have an important association with the early settlement or educational development within the Watts neighborhood. The school was constructed in in the 1930s, before the demographics of the neighborhood changed to a majority African-American area and was not associated with any notable events. Therefore, the school is not eligible under Criterion A.

Criterion B/2/2

No information was found to suggest that anyone associated with the 92nd Street Elementary School through the 1970s were historic personages, or that any other individuals of historic significance were associated with the property. Therefore, the 92nd Street Elementary School is not eligible under Criterion B.

Criterion C/3/3

Three building at the school are individually significant for their architecture and design by master architects: The Assembly & Classroom Building West, the Administrative & Library Building/Kindergarten Building, and the Cafeteria Building. The Assembly & Classroom Building West is eligible under the federal, state, and local criteria.

(*See Continuation Sheet page 9*)

***B10. Significance:** (*Continued from Continuation Sheet page 8*)

The 92nd Street Elementary School is not eligible for listing as a historic district because the school lacks a cohesive plan. Although the school was constructed organically, it represents piece-meal construction that occurred over the course of many decades, from the 1930s to present. The 1939 Assembly & Classroom Building West reflects the Post-1933 Long Beach Earthquake School Plants design. The finger buildings (Classroom Buildings, 1956) are not significant in design nor are they strong examples of this design and therefore are not eligible for listing under the Postwar Modern, Functionalist School Plant theme. The Administrative & Library Building/Kindergarten Building and the Cafeteria Building were constructed in 1976 as individual buildings scattered throughout the existing campus and do not reflect a clear campus design. Therefore, the 92nd Street Elementary School is not a unified entity as the historical resources' significance is not interrelated.

Moreover, the individually eligible buildings were designed in varying architectural styles by different architects. Therefore, these building are significant independent of each other and represent different designs. Alfred S. Nibecker designed the Assembly & Classroom Building West in the Renaissance Revival style of architect that reflected a minimization of ornament, likely to account for changes in building practices to account for seismic activity. Vincent J. Proby was an architect active in the 1960s through 1980s who designed the Administrative & Library Building/Kindergarten Building and Cafeteria Building in the New Formalist style of architecture. The 92nd Street Elementary School therefore is not eligible as a historic district because it lacks a cohesive plan and represents different periods of architectural productivity reflecting diverse architects and architectural styles.

Assembly & Classroom Building West

The Assembly & Classroom Building West was designed in 1939 by master architect Alfred S. Nibecker in the Renaissance Revival style. The building was evaluated using the Renaissance Revival architectural style and the Post-1933 Long Beach Earthquake School Plants and comparative methods to other Nibecker-designed schools across Los Angeles.

Alfred S. Nibecker was a master architect who focused on Revival-style educational facilities across Los Angeles. Recognized for his ability to adopt and master various architectural styles, Nibecker was known for designing French Norman Revival, Renaissance Revival, and Spanish Colonial Revival-style buildings. Nibecker also evidences a mastery of designing buildings in these Revival-styles with conservative ornament without unnecessary ornamentation, a necessary change in design that occurred after the 1933 Long Beach Earthquake. Nibecker's ability to capture the true essence of a style without gaudy or excessive finishes proves his skill as an architect. The Assembly & Classroom Building West is a prime example of his reformed yet true-to-form rendition of the Renaissance Revival architectural style. Therefore, the Assembly & Classroom Building West represents Nibecker's architectural versatility and capability and quality of design.

The Assembly & Classroom Building West exhibits quality of craftsmanship and is an excellent example of the Renaissance Revival style of architecture in Los Angeles. The building retains its character-defining features of this style of architecture. As this building is a unique and intact example of this architectural style which was designed by a master architect in the City of Los Angeles, the building is significant in design. The Assembly & Classroom Building West embodies distinctive characteristics of Renaissance Revival-style architecture and is the work of a master architect. Therefore, the property is eligible for individual listing in the National Register, California Register, and as an HCM at the local level of significance under Criterion C/3/3 for its architecture and association with Alfred S. Nibecker.

Criterion D/4/4

Criterion D was not considered in this report as it generally applies to archaeological resources. Additionally, there is no reason to believe the property has the potential to yield important information regarding prehistory or history.

Integrity

The Assembly & Classroom Building West retains its *location*, *design*, *workmanship*, *feeling*, and *association*. Some *materials* have changed where original windows were replaced with HVAS units and the *location* is somewhat changed from the time of construction. Overall, the Assembly & Classroom Building West retains its integrity and ability to convey its significance.

(*See Continuation Sheet page 10*)

***B10. Significance:** (*Continued from Continuation Sheet page 9*)

INTEGRITY OF ASSEMBLY & CLASSROOM BUILDING WEST

	High	Medium	Low	Remarks
Location	X			Remains in original location.
Design	X			Maintains major designed relationships including form, plan, space, structure, and style of the building.
Setting		X		Some changes to setting character, as original buildings surrounding the subject building were demolished, and new ones have been built since the time of construction in 1939. However, surrounding structures also used for educational purposes.
Materials		X		Building retains key exterior and interior materials from this period of historic significance. Some windows and doors have been replaced.
Workmanship	X			Retains original workmanship and evidence of the crafts of the architect.
Feeling	X			Property continued to express aesthetic and historic sense of 1939.
Association	X			Retains association and conveys architectural character.

The Assembly & Classroom Building West retains numerous original details that comprise the building's character-defining features. These include aspects of the building's shape/form, roof, openings, projections, trim and secondary features, and materials. The character-defining features are also ranked to inform advance planning.

CHARACTER-DEFINING FEATURES OF ASSEMBLY & CLASSROOM BUILDING

Type	Feature	Ranking
Shape/Form	'L'-shaped plan	MS
	1-story (approximately 15 feet)	MS
Roof	Flat Roof	S
	Concrete cornice	MS
Openings	Projecting primary entrance along 92nd Street	MS
	Rhythm of windows and doors	S
	Concrete ADA-accessible ramps and stairs	NHNS
	Original Wood Windows	MS
Projections	Slightly projecting assembly room along front façade	S
Trim and Secondary Features	Cast concrete molded trim and quoins around windows and doors	MS
	Metal Box Pipes	NHNS
	Metal Window Screens	NHNS
	HVAC units	NHNS
Materials	Natural-tone common-bond speckled brick exterior	MS
	Diamond design of clinker bricks	MS
	Concrete water table	MS
	Concrete belt course	MS
Interior	Exposed natural-tone common-bond speckled brick walls	MS
	Wood transom window surrounds	MS
	Door surrounds	S
	Original cabinets	S
	Linoleum floor	CU
	Light Fixtures	NHNS
	Transom Windows	NHNS
	Ceiling	NHNS
Setting	Setback from 92nd Street and Anzac Avenue	MS

KEY:
MS = Most significant; S = Significant; CU= Common and Utilitarian; HNS = Historic; Not Significant; NHNS = Not Historic; Not Significant

***B12. References:** (*Continued from Building, Structure, and Object Record page 2*)

Los Angeles Unified School District. March 2014. Historic Context Statement, 1870 to 1969. Prepared by: Sapphos Environmental, Inc., Pasadena, CA, p. 42. Available at: http://preservation.lacity.org/sites/default/files/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf

State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION **PRIMARY RECORD**	Primary # HRI # Trinomial NRHP Status Code: 3CS
Other Listings Review Code	Reviewer Date

Page 1 **of** 8 ***Resource Name or #** (Assigned by recorder)**:** Administrative & Classroom Building/ Kindergarten Building and Cafeteria Building

P1. Other Identifier: None

***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted**

***a. County:** Los Angeles **and** (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** South Gate **Date**: 1981 **T; R;__of__of Sec** ;__**B.M.**

c. Address: 9211 Grape Street **City:** Los Angeles **Zip:** 90002

d. UTM (Give more than one for large and/or linear resources) **Zone:** 11 , 385715 mE/ 37575641 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate): Rancho San Pascual (APN 6046-002-901)

***P3a. Description** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries):

Administrative & Library Building/ Kindergarten Building

The Administrative & Library Building and Kindergarten Building are attached to form an 'L'-shaped complex in the northwestern corner of the school campus. The complex was designed in 1975 by architect Vincent J. Proby Jr., constructed in 1976, and reflects the New Formalist style of architecture. The sheltered breezeway is attached to the southwestern corner of the complex. (*See Continuation Sheet page 4*)

***P3b. Resource Attributes** (List attributes and codes)**:** HP15. Educational Building

***P4. Resources Present:** ☒Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)

P5b. Description of Photo (view, date, accession #): View of Administrative & Classroom Building/Kindergarten Building; August 24, 2018; IMG_1679.jpg (*See Continuation Sheet page 4*)

***P6. Date Constructed/Age and Source:**
☒Historic ☐Prehistoric ☐Both

***P7. Owner and Address:**
Los Angeles Unified School District
333 South Beaudry Avenue
Los Angeles, CA 90017

***P8. Recorded by** (Name, affiliation, and address): Alexandra Madsen
Carrie Chasteen
Sapphos Environmental, Inc.
430 N. Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:** September 18, 2018

***P10. Survey Type** (Describe)**:**
Intensive, CEQA Compliance, P—Project Review

***P11. Report Citation** (Cite survey report and other sources, or enter "none")**:** Sapphos Environmental, Inc. 2018. Historical Resource Assessment Report for Administrative & Classroom Building/Kindergarten Building and Cafeteria Building at 92nd Street Elementary School.

Attachments: ☐ NONE ☒ Location Map ☐ Sketch Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder)**:** Administrative & Classroom Building/Kindergarten Building and Cafeteria Building ***NRHP Status Code:** 3CS

B1. Historic Name: Administrative & Classroom Building/Kindergarten Building and Cafeteria Building
B2. Common Name: Administrative & Classroom Building/Kindergarten Building and Cafeteria Building
B3. Original Use: Educational Facility **B4. Present Use:** Educational Facility
***B5. Architectural Style:** New Formalism
***B6. Construction History:** (Construction date, alterations, and date of alterations)

The Administrative & Library Building/Kindergarten Building and Cafeteria Building were all designed in the same style of New Formalism with rough textured stucco exteriors and sweeping, exaggerated eaves by architect Vincent J. Proby Jr. The Cafeteria Building is the southeastern most building on the campus. Proby's design of these buildings is evident from 1975 plans.

***B7. Moved?** ☒ **No** ☐ **Yes** ☐ **Unknown** **Date:** N/A **Original Location:** N/A
***B8. Related Features:** N/A
B9a. Architect: Vincent J. Proby **b. Builder:** Unknown
***B10. Significance: Theme: Residential architecture** **Area:** Watts, Los Angeles
Period of Significance: 1975–1976 **Property Type:** Education Building **Applicable Criteria:** 3
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

See Continuation Sheet page 5.

B11. Additional Resource Attributes (List attributes and codes): N/A

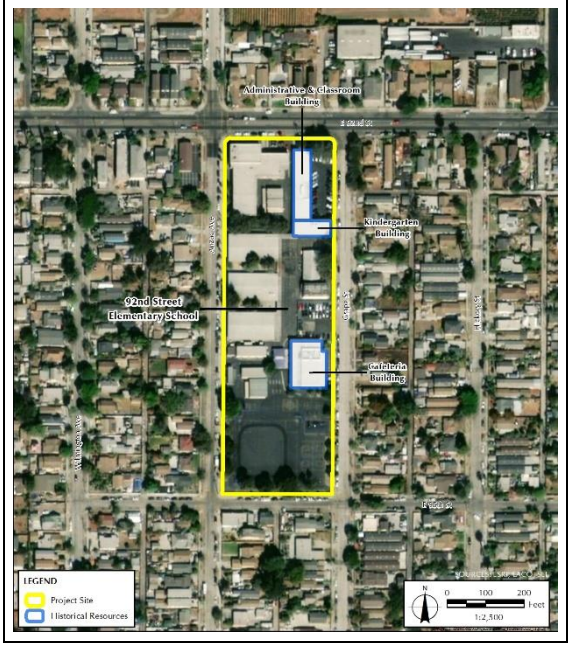
***B12. References:** See Continuation Sheet page 8.

***B13. Remarks:** N/A

***B14. Evaluator:**
Alexandra Madsen
Carrie Chasteen
Sapphos Environmental, Inc.
430 N. Halstead Street
Pasadena, CA 91107

***Date of Evaluation:** September 18, 2018

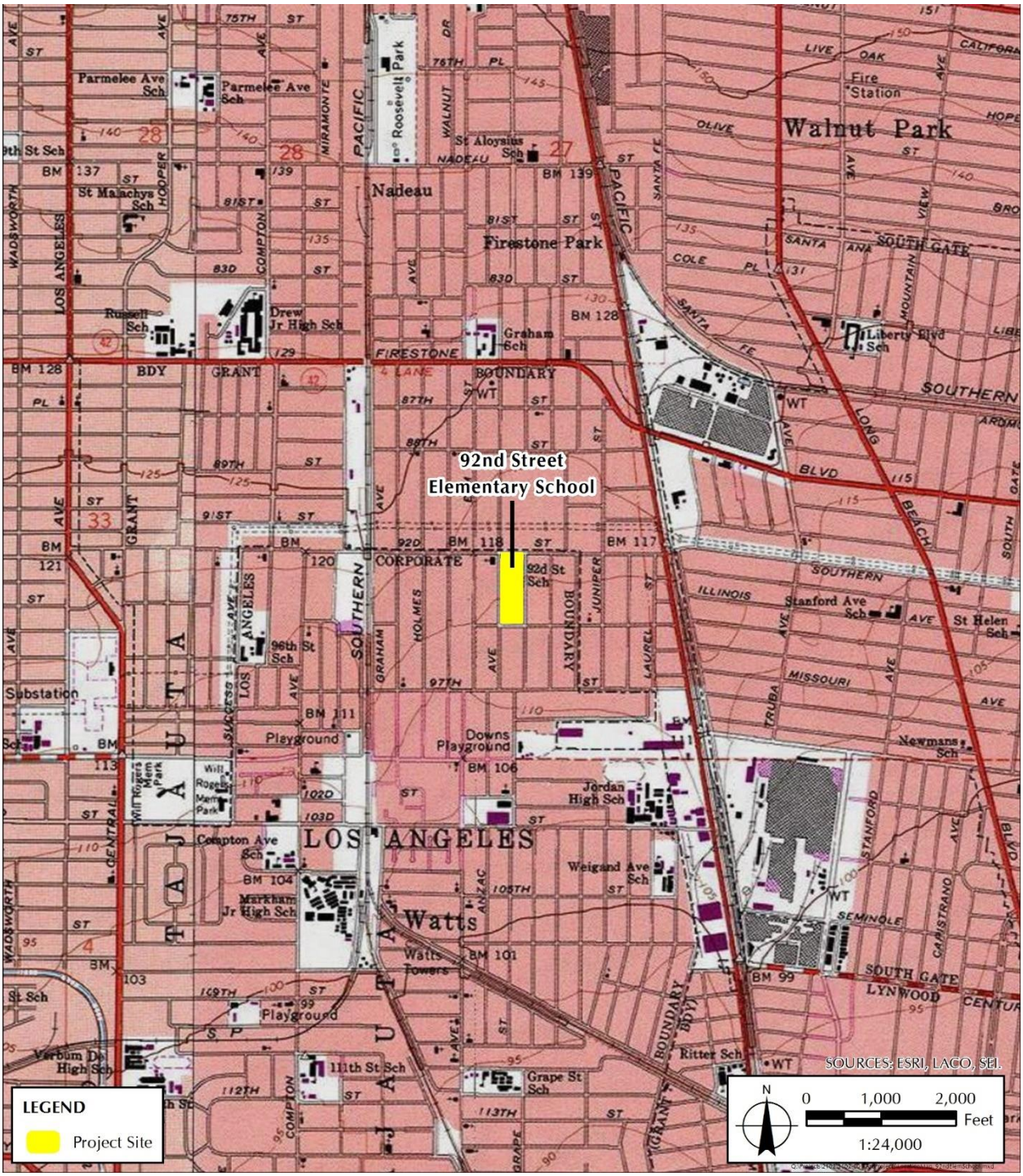
(Sketch Map with north arrow required.)



(This space reserved for official comments.)

***Resource Name or #** (Assigned by recorder): Administrative & Classroom Building/ Kindergarten Building and Cafeteria Building

***Map Name:** South Gate ***Scale:** 1:24,000 ***Date of map:** 1981



***P3a. Description:** (*Continued from Primary Record page 1*)

Administrative & Library Building/ Kindergarten Building

The buildings feature stucco-clad exteriors and 12-light casement aluminum windows. Metal doors line the exterior. The most dramatic character-defining feature of these buildings are their sweeping, exaggerated eaves which are rounded and slightly flared at the top. This project parapet wall screens the building's otherwise flat roof and gives the building a monumental appearance.

Cafeteria Building

The 1976-built Cafeteria Building is similar to the Administrative & Library Building/Kindergarten Building in design and construction. The Cafeteria Building has a generally rectangular plan and is situated in the southeastern region of the campus. The building has a rough-texture stucco exterior and generally flat roof. It was also designed by Vincent J. Proby Jr. in the New Formalism style of architecture.

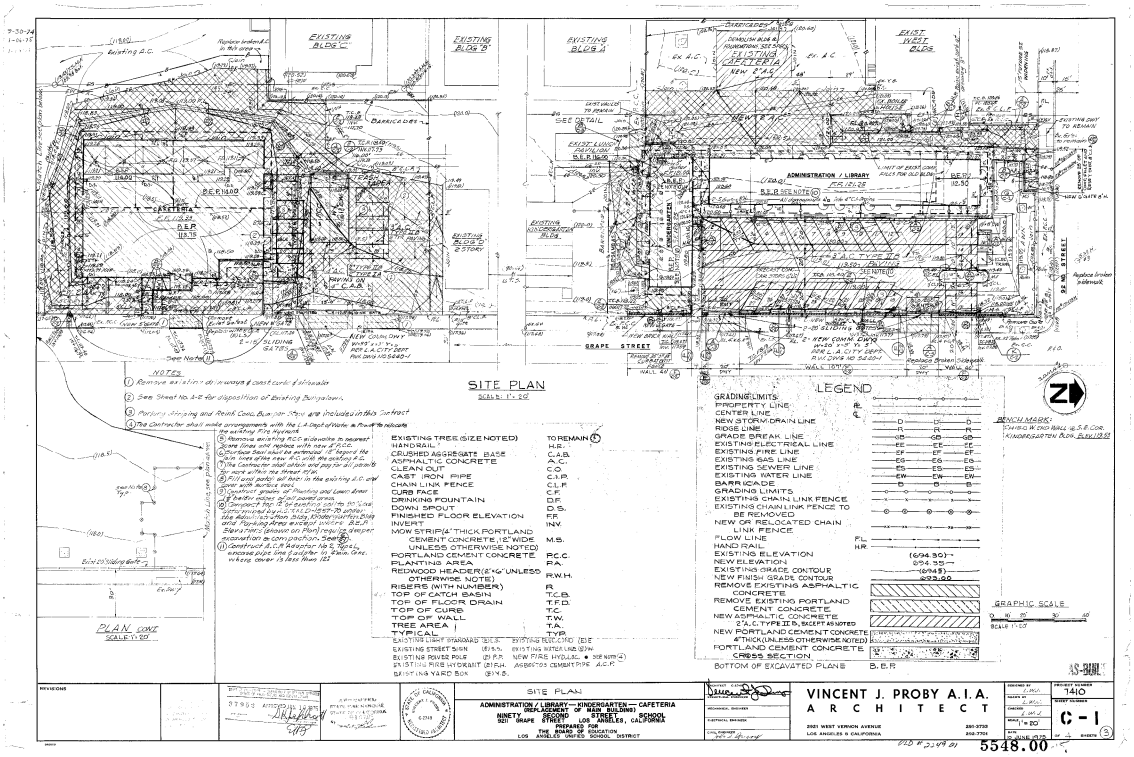
Like the Administrative & Library Building/Kindergarten Building, the Cafeteria Building has an exaggerated, large, rounded eave that slightly flares at the top. The Cafeteria Building's eave dramatically projects to provide a sheltered walkway in front of the building. The eave is upheld by inverted golf-tee-shaped columns that narrow as they raise, creating a colonnade. These columns have brick polygon-shaped bases with metal railings to provide additional stability. A mural of a water scene decorates the building's western façade.

P5a. Photo or Drawing: (*Continued from Primary Record page 1*)

Cafeteria Building

(*See Continuation Sheet page 5*)

P5a. Photo or Drawing: (*Continued from Continuation Sheet page 4*)



1975 Architectural Drawing of Administrative & Classroom Building/Kindergarten Building and Classroom Building
SOURCE: *LAUSD Vault Drawing No. 5548.00.000 (015)*

***B10. Significance:** (*Continued from Building, Structure, and Object Record page 2*)

Vincent J. Proby Jr.

Vincent Jarvis Proby Jr. was born in Wichita, Texas in 1928. His family moved to Oklahoma shortly after his birth, where he resided for much of his childhood. Proby and his family moved to Los Angeles in the 1940s, where he lived for the rest of his life. Proby attended Los Angeles City College before transferring to the University of California, Los Angeles (UCLA) where he studied architecture. As an architect, Proby completed the A. C. Bilbrew branch library in Willowbrook in 1974. In 1984, he and Jack W. Haywood designed the California African-American Museum (CAAM) in Exposition Park in Los Angeles. This building was identified as a potential historic resource in Los Angeles. Other educational buildings he designed included buildings at UCLA, Los Angeles City College, and Pierce College. He also completed the Aldama Street School Auditorium as well as classroom buildings at 74th Street School, 52nd Street School, and Brocton Avenue School. Additionally, Proby designed multiple Bank of America branches, churches, shopping malls, and medical buildings.

(*See Continuation Sheet Page 6*)

***B10. Significance:** (*Continued from Continuation Sheet page 5*)

Proby was the first African-American to be appointed to the State Board of Architectural Examiners where he served as President, Vice President, and Treasurer over the course of eight years. He won the State Board of Architectural Examiners Leadership Award, the NAACP's Act-So Award and was honored by the City of Los Angeles and County of Los Angeles.

EVALUATION

Criterion A/1/1

Based upon a review of the Post-1933 Long Beach Earthquake School Plants context of the *Los Angeles Unified School District Historic Context Statement*, the 92nd Street Elementary School does not have an important association with the early settlement or educational development within the Watts neighborhood. The school was constructed in in the 1930s, before the demographics of the neighborhood changed to a majority African-American area and was not associated with any notable events. Therefore, the school is not eligible under Criterion A.

Criterion B/2/2

No information was found to suggest that anyone associated with the 92nd Street Elementary School through the 1970s were historic personages, or that any other individuals of historic significance were associated with the property. Therefore, the 92nd Street Elementary School is not eligible under Criterion B.

Criterion C/3/3

Three building at the school are individually significant for their architecture and design by master architects: The Assembly & Classroom Building West, the Administrative & Library Building/Kindergarten Building, and the Cafeteria Building. Whereas all three buildings are historical resources, the Assembly & Classroom Building West is eligible under the federal, state, and local criteria whereas the Administrative & Library Building/Kindergarten Building and the Cafeteria Building are only eligible under local criteria.

The 92nd Street Elementary School is not eligible for listing as a historic district because the school lacks a cohesive plan. Although the school was constructed organically, it represents piece-meal construction that occurred over the course of many decades, from the 1930s to present. The 1939 Assembly & Classroom Building West reflects the Post-1933 Long Beach Earthquake School Plants design. The finger buildings (Classroom Buildings, 1956) are not significant in design nor are they strong examples of this design and therefore are not eligible for listing under the Postwar Modern, Functionalist School Plant theme. The Administrative & Library Building/Kindergarten Building and the Cafeteria Building were constructed in 1976 as individual buildings scattered throughout the existing campus and do not reflect a clear campus design. Therefore, the 92nd Street Elementary School is not a unified entity as the historical resources' significance is not interrelated.

Moreover, the individually eligible buildings were designed in varying architectural styles by different architects. Therefore, these building are significant independent of each other and represent different designs. Alfred S. Nibecker designed the Assembly & Classroom Building West in the Renaissance Revival style of architect that reflected a minimization of ornament, likely to account for changes in building practices to account for seismic activity. Vincent J. Proby was an architect active in the 1960s through 1980s who designed the Administrative & Library Building/Kindergarten Building and Cafeteria Building in the New Formalist style of architecture. The 92nd Street Elementary School therefore is not eligible as a historic district because it lacks a cohesive plan and represents different periods of architectural productivity reflecting diverse architects and architectural styles.

(*See Continuation Sheet page* 7)

***B10. Significance:** (*Continued from Continuation Sheet page 6*)

Administrative & Library Building/ Kindergarten Building and Cafeteria Building

The Administrative & Library Building/Kindergarten Building and Cafeteria Building were designed in 1976 by master architect Vincent J. Proby in the New Formalism style of architecture. The buildings evidence this style's emphasis on symmetrical plans, flat rooflines with heavy overhanging entablatures, and full-height colonnades. Therefore, the buildings were evaluated using the New Formalism style theme.

Proby designed the A. C. Bilbrew branch library in Willowbrook, the CAAM in Exposition Park, as well as numerous educational buildings at University of California, Los Angeles (UCLA), Los Angeles City College, and Pierce College. Additionally, Proby designed multiple Bank of America branches, churches, shopping malls, and medical buildings. Proby was the first African-American to be appointed to the State Board of Architectural Examiners where he served as President, Vice President, and Treasurer over the course of eight years. He won the State Board of Architectural Examiners Leadership Award, the NAACP's Act-So Award, and was honored by the City of Los Angeles and County of Los Angeles. Proby was a master architect in Los Angeles who broke the color barrier for awards and adopted a new and monumental form of architecture, notably the New Formalism style.

The Administrative & Library Building/Kindergarten Building and Cafeteria Building exhibit quality of craftsmanship and are strong local examples of the New Formalist style of architecture. Moreover, few examples of this style appear to be extant in Southeast Los Angeles, making these buildings rare examples in the Watts area. Although the buildings are significant for style, design, and association with Vincent J. Proby, a master architect, this significance is limited to the local level. Therefore, the Administrative & Library Building/Kindergarten Building and Cafeteria Building are eligible for designation as HCMs for their design by master architect Vincent J. Proby pursuant to Criterion 3.

Criterion D/4/4

Criterion D was not considered in this report as it generally applies to archaeological resources. Additionally, there is no reason to believe the property has the potential to yield important information regarding prehistory or history.

Integrity

The Administrative &Library Building/Kindergarten Building and Cafeteria Building retain their *location, design, materials, workmanship, feeling,* and *association*. The *setting* has been only minimally altered from the construction and demolition of surrounding buildings. Overall, the Administrative & Library Building/Kindergarten Building and Cafeteria Building retain their integrity and ability to convey their significance.

INTEGRITY OF ADMINISTRATIVE & LIBRARY BUILDING/KINDERGARTEN BUILDING AND CAFETERIA BUILDING

	High	Medium	Low	Remarks
Location	X			Remains in original location.
Design	X			Maintains major designed relationships including form, plan, space, structure, and style of the building.
Setting		X		Some changes to setting character, as original buildings surrounding the subject building were demolished, and new ones have been built since the time of construction in 1939. However, surrounding structures also used for educational purposes.
Materials	x			Building retains key exterior and interior materials from this period of historic significance.
Workmanship	X			Retains original workmanship and evidence of the crafts of the architect.
Feeling	X			Property continued to express aesthetic and historic sense of 1939.
Association	X			Retains association and conveys architectural character.

(*See Continuation Sheet page 8*)

***B10. Significance:** (*Continued from Continuation Sheet page* 7)

Administrative & Classroom Building/Kindergarten Building and Cafeteria Building

The Administrative & Classroom Building/Kindergarten Building and Cafeteria Building retain numerous original details that comprise the buildings' character-defining features. These include aspects of the buildings' shape/form, roof, openings, projections, and materials. The character-defining features are also ranked to inform advanced planning.

CHARACTER-DEFINING FEATURES OF ADMINISTRATIVE & CLASSROOM BUILDING/KINDERGARTEN BUILDING

Type	Feature	Ranking
Shape/Form	Rectangular floor plan	S
	1-story	S
Roof	Flat Roof	S
	Curved Fascia/Eave	MS
	Stylized colonnade (Cafeteria Building only)	MS
Openings	Flush entrances with metal doors	S
	Rhythm of windows and doors	S
	Twelve-light aluminum windows	MS
	Original Aluminum transom windows	MS
Secondary Features	Brick polygon-shaped bases (Cafeteria Building only)	MS
Materials	Stucco Exterior	MS
	Aluminum windows	S
	Metal doors	NHNS
Setting	Setback from 92nd Street and Anzac Avenue	S
KEY: MS = Most significant S = Significant NHNS = Not Historic; Not Significant		

***B12. References:** (*Continued from Building, Structure, and Object Record page 2*)

Los Angeles Unified School District. March 2014. Historic Context Statement, 1870 to 1969. Prepared by: Sapphos Environmental, Inc., Pasadena, CA, p. 42. Available at: http://preservation.lacity.org/sites/default/files/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf

GEOTECHNICAL
PROFESSIONALS INC

GEOTECHNICAL INVESTIGATION
PROPOSED CAMPUS MODIFICATIONS
92ND STREET ELEMENTARY SCHOOL
9211 GRAPE STREET
LOS ANGELES, CALIFORNIA

Prepared for:
Los Angeles Unified School District
Design and A/E Technical Support
333 S. Beaudry Avenue, 22nd Floor, Room 217
Los Angeles, California 90017

Prepared by:
Geotechnical Professionals Inc.
5736 Corporate Avenue
Cypress, California 90630
(714) 220-2211

GPI Project No. 2677.171

May 17, 2017

GPI GEOTECHNICAL PROFESSIONALS INC

May 17, 2017

Los Angeles Unified School District
Design & A/E Technical Support
333 S. Beaudry Avenue, 22nd Floor, Room 217
Los Angeles, California 90017

Attention: Mr. Peyman Soroosh Moghadam, S.E.
Supervision Structural Engineer

Subject: Geotechnical Investigation
Proposed Campus Modifications
92nd Street Elementary School
9211 Grape Street
Los Angeles, California
GPI Project No. 2677.17I

Dear Mr. Moghadam:

Transmitted herewith are four copies of our geotechnical investigation report for the proposed campus modifications at 92nd Street Elementary School.

We appreciate the opportunity of offering our services to your organization and look forward to seeing the project through its successful completion. Please do not hesitate to call us if you have any questions on the contents of our report or need further geotechnical assistance.

Very truly yours,
Geotechnical Professionals Inc.

Paul R. Schade, G.E.
Principal

PS:sph

Distribution: (4) Addressee
(1) Ms. Cristina Cho, Los Angeles Unified School District (email)
(1) Mr. David L. Dobson, Los Angeles Unified School District (email)

5736 Corporate Avenue • Cypress, CA 90630 • (714) 220-2211 • FAX (714) 220-2122

TABLE OF CONTENTS

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TABLE NO.

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APPENDIX B

APPENDIX C

APPENDIX D

1.0 INTRODUCTION

1.1 GENERAL

This report presents the results of a preliminary geotechnical investigation performed by Geotechnical Professionals Inc. (GPI) for the proposed campus modifications at 92nd Street Elementary School in Los Angeles, California. The site location is shown on the Site Location Map, Figure 1.

A detailed geologic-seismic evaluation was performed for the project, including site-specific response spectra, as required by the 2016 California Building Code (CBC).

The project is at an early stage at this time, and specific details on the extent of the modifications and location of the new improvements are limited. A comprehensive investigation, utilizing the data obtained in this preliminary investigation, will be required prior to the final design to satisfy the regulatory agency requirements when further details of the project are available. Additional explorations and testing may also be required as part of the comprehensive investigation.

1.2 PROJECT DESCRIPTION

The project covered by this report includes modifications and modernization of the existing elementary school campus. We understand that the modifications may include new buildings as well as modernization of the existing buildings. The project also includes an evaluation of the non-wood-framed structures as outlined in AB300. The project is at an early stage at this time, and specific details on the extent of the modifications and locations of the new improvements are limited. The locations of the existing structures are shown on the Site Plan, Figure 2.

Detailed information regarding structural loads or site topography was not available at the time this report was prepared. We have assumed that the structural loads for the new buildings will be less than 150 kips for columns, and 2 to 3 kips per lineal foot for walls. We understand that the proposed buildings will predominantly be supported at or near the existing grade, but that one level subterranean construction (i.e. below-grade parking) may be considered. Modernization of the existing buildings may include additional loads being imposed to the existing foundations or new columns or foundations being added. Proposed grades are not anticipated to change significantly from the existing grades.

Our recommendations are based upon the above-assumed structural and finish grade information. We should be notified if the actual loads and/or grades differ or change during the project design to allow our office to either confirm or modify our recommendations. Also, when the project grading plan becomes available, we should be provided with a copy for review and comment.

1.3 PURPOSE OF INVESTIGATION

The primary purpose of this investigation and report is to provide an evaluation of the existing geotechnical and geologic conditions at the site as they relate to the design and construction of the proposed development.

2.0 SCOPE OF WORK

Our scope of work included a field investigation, laboratory testing, geologic and seismic evaluation, foundation analyses, and preparation of this report.

Our field investigation consisted of five Cone Penetration Tests (CPT's) and five exploratory borings. The CPT's were performed to depths of 40 to 60 feet below existing grades. The borings were performed to depths of 20 to 60 feet below the existing grade. A description of field procedures and logs of the CPT's and explorations are presented in Appendices A and B, respectively.

Our laboratory testing program included evaluations of in-place moisture content, Atterberg Limits, fines content, direct shear, consolidation, expansion index, maximum dry density and optimum moisture content, and corrosivity. Laboratory test procedures and results are presented in Appendix C.

Soil corrosivity testing was performed by HDR under subcontract to GPI. Their test results are presented at the end of Appendix C.

An evaluation of geologic and seismic hazards is presented in Appendix D.

Engineering evaluations were performed to provide earthwork criteria and foundation design parameters. The results of our evaluations are presented in the remainder of the report.

3.0 SITE CONDITIONS

3.1 SURFACE CONDITIONS

The school site is bounded by East 92nd Street to the north, Anzac Avenue to the west, East 95th Street to the south, and Grape Street to the east. The site is approximately 7.65 acres in plan area, with various school buildings and parking areas in the northern two-thirds of the campus, and blacktop playground in the southern one-third of the campus. The topography across the site is relatively flat, with ground surface elevations ranging from approximately 117 feet (in the south) to 122 feet (in the north). The pavement sections at our exploration locations generally consisted of 4 inches of asphalt concrete without an underlying aggregate base course. At one of our locations (Boring B-4), the pavement section consisted of 3.5 inches of asphalt concrete over 3.5 inches of aggregate base.

We reviewed historical aerial photographs of the site dating back to 1952. In 1952, the school site appears to have been confined to the northern half of the existing campus limits, with the southern half appearing to be occupied by single-family residences and park space. In 1963, the single family residences are no longer present and the bounds of the school site have been expanded to their approximate current limits, with the southern half not appearing to be occupied by structures. Additional buildings were added to the southern half of the site between 1963 and 2005, when the final currently existing building was visible in the aerial photographs. Since 2005, the site appears to have remained unchanged.

3.2 SUBSURFACE SOIL CONDITIONS

Our field investigation disclosed a subsurface profile consisting of undocumented fill soils over natural soils. Detailed descriptions of the conditions encountered are shown on the Log of the CPT's and Borings in Appendices A and B, respectively.

Undocumented fill soils to depths of 4 feet were encountered in the borings. The fill soils at the boring locations consisted of moist to wet silts, clayey silts, and sandy silts, with lesser amounts of silty clay and silty sand. The fill soils are likely undocumented and relatively old, given the age of the school. The upper fill soils have a low potential for expansion and are expected to shrink and swell with severe changes in moisture content.

The underlying natural materials consisted predominantly of stiff to very stiff silts, sandy silts, silty clays, and clays, with lesser deposits of medium dense to dense silty sands and sands. In the northern half of the site (C-1, C-2, and B-1 through B-3), the sandy soils were encountered typically between depths of 10 to 20 feet, 35 to 40 feet, and 55 to 60 feet. In the southern half of the site (C-4, C-5, B-4, and B-5), the sandy soils were typically encountered between depths of 5 to 10 feet, 20 to 28 feet, and 50 to 55 feet. The natural soils are generally moist to wet, with higher moisture contents encountered within the fine-grained soils. Moisture contents of the near surface soil were as high as 30 percent, roughly 19 percent above optimum moisture of 11 percent,

with an average moisture content of 18 percent within the upper 7 feet. At shallow depths, the natural soils exhibited moderate strength and low compressibility characteristics.

The site is not located in a Methane Buffer Zone, as designated by the City of Los Angeles.

3.3 GROUNDWATER AND CAVING

Groundwater was not encountered within our explorations performed to depths of up to 60 feet below existing grade. Historical data provided by the California Geologic Survey (CGS) indicates a shallowest depth to groundwater of 8 to 10 feet in the vicinity of the site (average of approximately 9 feet).

Caving was not encountered in our relatively small diameter borings.

3.4 GEOLOGIC - SEISMIC HAZARDS

A detailed evaluation of the geologic conditions at the site, including seismic hazards, is presented in Appendix D. Ground motion and seismic settlement is addressed in a following section of this report.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 OVERVIEW

Based on the results of our investigation, it is our opinion that from a geotechnical viewpoint it is feasible to develop the site as proposed. The proposed structures and modifications can be supported on shallow foundations provided the geotechnical constraints discussed below are mitigated. The most significant geotechnical issues that will affect the design and construction of the proposed structures are as follows:

- The existing undocumented fill soils encountered to depths of 4 feet in our borings are not considered to be suitable for direct support of shallow foundations and floor slabs in their current state. To provide uniform support for the proposed improvements, we recommend that these materials be removed and replaced as properly compacted fill.

- The upper natural soils are somewhat variable between the northern and southern portions of the campus. Within the northern half of campus, the sandy soils were encountered as shallow as 10 feet below existing grades. In the southern half of campus, the sandy soils were encountered as shallow as 5 feet below existing grades. The upper fine-grained soils are predominantly firm to stiff and the sandy soils are medium dense. To provide uniform support for the proposed at-grade shallow foundations and floor slabs, we recommend that the upper portion of the natural materials be removed and replaced as properly compacted fill.

- Below-grade structures may be supported on conventional spread or continuous footings established on at least 2 feet of properly compacted fill. As an alternative, mat foundations are also feasible.

- Conventional cast-in-place concrete piles may be used to support light standards and similar pole structures.

- The site is located in a seismic hazard zone for soil liquefaction. Based on our analyses, we computed a potential total seismic-induced liquefaction settlement of ½- to ¾-inch. Differential seismic settlement is estimated to be between ¼- and ½-inch across a span of 40 feet. These estimates are based on a published historical high groundwater level of 9 feet below the existing grade. Groundwater was not encountered within the 60-foot depth of our current explorations.

- Moisture contents of the near surface soils (within 7 feet of the existing grades) are predominantly very moist to wet, averaging about 7 percent above the optimum moisture content. Therefore, adequate moisture conditioning (drying) will be required prior to being placed as properly compacted fill. In addition, over-optimum subgrade soils exposed during grading may require stabilization in order to support compaction

equipment. Stabilization may be accomplished using crushed aggregate base and geogrid or in-place cement treatment.

- The upper silty/clayey fill soils have a low potential for expansion (EI of 23) and are expected to shrink and swell with severe changes in moisture content. As such, these soils are not considered to be suitable for use as retaining wall backfill. The silty soils may be used for direct support of building floor slabs and hardscape provided they are properly moisture-conditioned and not allowed to dry-out prior to covering.

- Corrosivity testing performed by HDR on samples provided from our borings indicates a negligible level of soluble sulfate content with respect to concrete. The soils are also considered to be moderately corrosive to ferrous metals.

Our recommendations related to the geotechnical aspects of the development of the site are presented in the subsequent sections of this report.

4.2 SEISMIC DESIGN

4.2.1 General

Details of our geologic and seismic evaluation for the site are presented in Appendix D.

We assume the seismic design of the proposed development will be in accordance with the California Building Code (CBC), 2016 edition. For the 2016 CBC, a Soil Class D may be used. The seismic code values can be obtained directly from the tables in the building code using the above values and appropriate United States Geological Survey web site (geohazards.usgs.gov). We also present these values on Table 1, Site Specific Response Spectra Worksheet. The Project Structural Engineer should determine the seismic design method.

4.2.2 Site-Specific Ground Motion Analyses

Site-specific response spectra were generated in accordance with the 2016 California Building Code (CBC) (Section 1613A) and Section 21.2 of ASCE 7-10 (ASCE, 2010). Creation of a site-specific response spectrum requires analyzing site-specific deterministic and probabilistic seismic response spectra in order to create the Risk-Targeted Design and Maximum Considered Earthquake (MCE) response spectra.

Probabilistic and deterministic site response spectra were calculated using the computer program EZ-FRISK (Version 7.65, 2015). The program estimates uniform hazard spectra using faults as earthquake sources. The program database includes geographic and seismic information on known active faults in California from 2008. For both our deterministic and probabilistic analyses, we used NGA attenuation relationships for the maximum rotated component of ground motion as proposed by Boore and Atkinson (2008), Campbell and Bozorgnia (2008), and Chiou and Youngs (2007).

For our evaluations, we used a shear wave velocity, V_{S30}, of 295 meters per second, or about 968 feet per second, for attenuation relationships. This value corresponds to a CBC Site Class D (stiff soil) and was estimated from blow counts obtained during the investigation at the project site.

A site-specific probabilistic response spectrum was generated for the MCE per the requirements of ASCE 7-10. The MCE corresponds to an earthquake ground motion having a 2 percent probability of exceedance within a 50-year period, or an average return period of 2,475 years. The final probabilistic response spectrum was based on the maximum rotated component mean of the spectral response values at 5% damping for the three above noted attenuation relationships. The site-specific probabilistic response spectra, including the average probabilistic spectrum, is shown on Figure 3.

Site-specific deterministic MCE response spectra were generated per the requirements of ASCE Section 7-10. Response spectra were generated from known active faults within 100 kilometers of the subject site in order to determine the controlling spectral accelerations. Spectral acceleration ordinates were calculated as the 84th percentile of the maximum rotated component of the spectral acceleration at 5% damping (mean S_a + one standard deviation). The controlling deterministic response spectrum is based on the Puente Hills (LA) Fault. Site-specific deterministic response spectra from nearby faults, along with the required lower deterministic limit per Section 21.2.2 (Figure 21.2-1), are shown on Figure 4. The controlling upper bound site-specific deterministic response spectrum is shown on Figure 5.

The above-described analytical steps are presented in the attached Table 1, Site Specific Seismic Response Spectra Worksheet.

The site-specific MCE response spectrum was generated per the requirements of comparing the spectral response accelerations from the probabilistic MCE and the deterministic MCE, with the resulting MCE response spectrum being the lesser of the spectra accelerations at each period. The coordinates for the MCE response spectrum are presented in Table 1 (Column 9).

The site-specific design response spectrum was generated per the requirements of taking 2/3 of the MCE response spectrum, but confirming that the values are not less than 80 percent of the spectral acceleration determined per Section 11.4.5 of ASCE 7-10. The ordinates for the site-specific design spectrum are presented in Table 1 (Column 12).

We compared the spectral response accelerations from the probabilistic MCE of Section 21.2.1 (Figure 3) and the deterministic MCE of Section 21.2.2 (Figure 5), with the resulting MCE response spectra being the lesser of the spectral accelerations. The site-specific MCE and design response spectra are shown on Figure 6. The corresponding coordinates for the MCE and design response spectra are tabulated in Table 1.

4.2.3 Liquefaction, Lateral Spreading, and Seismic Settlement

Liquefaction is a phenomenon in which saturated cohesionless soils undergo a temporary loss of strength during severe ground shaking and acquire a degree of mobility sufficient to permit ground deformation. In extreme cases, the soil particles can become suspended in groundwater, resulting in the soil deposit becoming mobile and fluid-like. Liquefaction is generally considered to occur primarily in loose to medium dense deposits of saturated sandy soils. Thus, three conditions are required for liquefaction to occur: (1) a sandy soil of loose to medium density; (2) saturated conditions; and (3) rapid, large strain, cyclic loading, normally provided by earthquake motions.

The site is located in a Seismic Hazard Zone for liquefaction, as mapped by the State of California (South Gate Quadrangle). Groundwater was not encountered in our explorations to depths of 60 feet below existing grade. Historical high groundwater levels provided by the California Geologic Survey indicate a shallowest groundwater table of approximately 9 feet below existing grades (CGS, 1999). As such, we assumed a groundwater depth of 9 feet in our liquefaction evaluation.

Revisions to the 2016 California Building Code, ASCE 7-10 and Special Publication 117A (CGS, 2008) require that the ground motion used for this evaluation be based on the Peak Ground Acceleration (PGA_M) adjusted for site class effects or a site-specific response spectra. As detailed in the previous section, we developed site-specific response spectra per the requirements of Section 21.2 of ASCE 7-10 and the 2013 CBC. Per the requirements of Section 21.5.3, the site-specific peak ground acceleration shall not be taken as less than 80 percent of PGA_M, which is defined as the product of the PGA for the mapped MCE_G (Site Class B) and a site coefficient, F_{PGA}. Based on this analysis, we considered a site-specific design peak ground acceleration of 0.56g for a magnitude 6.35 earthquake (Puente Hills - LA) for our analyses, which corresponds to the lesser of the probabilistic and deterministic spectral accelerations at a period of 0 seconds obtained using the methods described above.

The potential for liquefaction was evaluated using the methods presented by the NCEER and updated by Robertson (Robertson, 2009) and modifications provided in Special Publication 117A. Criterion for liquefaction susceptibility of the fine-grained soils was based on methods presented in Bray and Sancio (2006).

The materials encountered generally consisted of alternating layers of firm to very stiff fine-grained soils (silts and clays) and medium dense coarse-grained soils (sands and silty sands) throughout the explored depth. Below depths of 20 feet, some of the sand and silty sand layers were dense. Overall, the soils encountered exhibited moderate strength.

Per the requirements of SP 117, liquefaction analyses are typically limited to depths of 50 feet below the structural foundation. Based on our analyses, and assuming a potential groundwater depth of 9 feet, we computed potential total seismic-induced

liquefaction settlements of ½- to ¾-inch. Differential seismic settlements (across a 40-foot span) are estimated to be between ¼- and ⅜-inch.

Seismic ground subsidence (not related to liquefaction induced settlements) occurs when strong earthquake shaking results in densification of loose to medium dense sandy soils above groundwater. Due to the shallow depths to groundwater used in our liquefaction analysis (9 feet) and the limited amount of sandy soils above this groundwater level, the potential for dry seismic to adversely affect the site is considered to be low. As such, we do not anticipate measurable seismic settlement of the soil above the groundwater.

4.3 EARTHWORK

The earthwork at the project site is anticipated to consist of clearing, subgrade preparation, and the placement and compaction of fill.

4.3.1 Clearing

Prior to grading, performing excavations, or constructing the proposed improvements, the areas to be developed should be cleared of debris and pavements. Buried obstructions, such as footings, abandoned utilities, and tree roots should be removed from areas to be developed. Deleterious material generated during the clearing operation, including organic topsoil or material within the existing undocumented fill, should be removed from the site. If approved by the District, inert demolition debris, such as concrete, asphalt, and brick may be crushed for reuse in engineered fills outside the planned building areas in accordance with the criteria presented in the "Materials for Fill" section of this report. It is our experience that such material will be required to be exported from the site.

If cesspools or septic systems are encountered during grading, they should be removed in their entirety. The resulting excavation should be backfilled as recommended in the "Subgrade Preparation" and "Placement and Compaction of Fill" sections of this report. As an alternative, cesspools can be backfilled with lean sand-cement slurry. At the conclusion of the clearing operations, a representative of the personnel from GPI should observe and accept the site prior to further grading.

4.3.2 Excavations

Excavations at this site will include removals of undocumented fill soils, soils disturbed during demolition and portions of the weak native soils, foundation excavations, and trenching for new utility lines.

Prior to placing fills or construction of the structures or pavement, the existing undocumented fill and loose soils disturbed during demolition, and portions of the upper soils should be removed and replaced as properly compacted fill. To provide uniform support for planned structures supported on shallow foundations, the footings and floor slabs should be underlain by properly compacted fill. For planning purposes, we anticipate average removal depths across the building pads of 7 feet below existing

grades or 4 feet below the base of foundations, whichever is deeper, for planned at-grade buildings (e.g. classroom, administration buildings). Existing grades refer to the grades at our exploration locations.

For subterranean structures, removals should extend deep enough for the placement of at least 2 feet of properly compacted fill beneath the base of foundations.
For minor structures (e.g. site walls, trash enclosures), removals should extend 4 feet below grade or 2 feet below the base of foundations, whichever is deeper. Deeper removals may be required where deep undocumented fill soils are encountered. Removals are not required for pile supported minor structures such as light standards.

For new pavements and hardscape, removals should extend at least 1-foot below the existing or proposed subgrade, whichever is deeper.

For building retrofit where new foundations are required within the footprint of a building to remain, or where existing footings will be enlarged to carry additional loads, the extent of remedial grading will depend on the subsurface conditions encountered. For planning purposes, these foundations should be underlain by at least 1-foot of new properly compacted fill soils. Deeper removals may be required depending on the actual conditions exposed in the foundation excavations.

The actual depths of removals should be determined in the field during grading by a representative of GPI.

The Project Surveyor should accurately stake the corners of the areas to be overexcavated in the field. Where space is available, the base of the excavations should extend laterally at least 5 feet beyond the building line or edge of foundations, or a minimum lateral distance equal to the depth of overexcavation/compaction below finish grade (i.e., a 1:1 projection below the bottom outside edge of footings), whichever is greater. Building lines include the footprint of the building and other foundation supported improvements, such as canopies and attached site walls. For new footings inside an existing building related to retrofit, the limits of the removal can be limited to the lateral limits of the new foundation.

In general, the upper fill soils are considered to be only moderately susceptible to caving in shallow excavations. Temporary construction excavations may be made vertically without shoring to a depth of 4 feet below the adjacent grade. For deeper cuts up to 10 feet, the slopes should be properly shored or sloped back to at least 1:1 or flatter. For cuts deeper than 10 feet but not exceeding 20 feet, slopes should be properly shored or sloped back to at least 1¼:1 (horizontal:vertical) or flatter. Some raveling of the sandy deposits should be anticipated at the slope inclinations recommended. If raveling cannot be tolerated, flatter slope inclinations should be considered. The exposed slope face should be kept moist (but not saturated) during construction to reduce local sloughing.

Excavations adjacent to existing foundations should not extend below an imaginary plane descending at an inclination of 1:1 from a point 1-foot above the base of an existing foundation unless slot cutting or shoring are used.

"ABC" slot cuts may be utilized in place of temporary shoring where removals adjacent to existing improvements or property lines are performed (e.g. retrofits to existing foundations. The slots should not exceed 8 feet in height and 8 feet in width and should be backfilled immediately to finished grade prior to excavation of the adjacent slots. If the slots are performed adjacent to an existing building that has perimeter pad footings in addition to a continuous footing, the slots should be aligned so that not more than one-half of the pad footing is exposed at a time. We should review the plans for excavation adjacent to existing buildings when they are developed.

Surcharge loads should not be permitted within a horizontal distance equal to the height of cut from the top of the excavation or 5 feet from the top of the slopes, whichever is greater, unless the cut is properly shored. Excavations that extend below an imaginary plane inclined at 45 degrees below the edge of the adjacent existing site facilities should be properly shored to maintain support of adjacent elements. Excavations and shoring systems should meet the minimum requirements given in the State of California Occupational Safety and Health Standards.

In general, the excavation can be accomplished by conventional soil excavation equipment such as backhoes, loaders, scrapers, or dozers.

4.3.3 Subgrade Preparation

Prior to placing fills, the subgrade soils at the bottom of overexcavations should be scarified to a depth of 8 inches, moisture-conditioned as necessary, and compacted to at least 90 percent of the maximum dry density determined in accordance with ASTM D1557. This recommendation also pertains to the subgrade areas of asphalt pavement and hardscape.

During our investigation, very moist to wet soils with moisture contents of up to 30 percent (roughly 19 percent above optimum) were encountered within the upper 7 feet. The earthwork subcontractors should review the moisture content information presented on the boring logs, as wet soils may be encountered that will require drying or stabilization prior to compaction. Also, heavy rubber-tired equipment is likely to cause pumping or yielding of wet subgrade. We do not recommend that the earthwork be performed in wet-weather seasons.

If wet soils are encountered or if the exposed soils become wet from seasonal rains, subgrade stabilization may be required to support compaction equipment. For planning purposes, the stabilization would require the placement of 12 inches of crushed aggregate base (CAB) over a geogrid, such as Tensar BX1100. A thicker section of CAB could be used if the geogrid is omitted. As an alternative, the wet soils can be cement treated. For planning purposes, we anticipate stabilization can be achieved by mixing 4 percent cement within the upper 15 inches of exposed soil by unit weight (assume 120 pcf). The cement treatment should be performed by a subcontractor experienced with the process, using equipment that can thoroughly mix the soil-cement prior to compaction.

4.3.4 Material for Fill

Soils available from on-site excavations, less debris or organic matter, will be suitable for re-use in compacted fills, with the exception of the on-site clays that are not suitable for placement as retaining wall backfill or within 1-foot of the finished subgrade for building floor slabs and hardscape. Soils placed behind retaining walls should be predominately granular (containing no more than 40 percent fines - portion passing No. 200 sieve) and non-expansive (E.I. of 20 or less). Such materials are not anticipated to be available in sufficient quantities within the upper 7 feet below existing grades.

Soils placed within 1-foot of the finished subgrade in slab and hardscape areas may consist of the onsite silty sands and sandy silts. The onsite clays should not be placed within 1-foot of new floor slabs or hardscapes.

Imported fill material should be predominately granular and non-expansive as defined above. Import or on-site materials used in compacted fills should not contain particles larger than 3 inches in diameter. GPI should be provided with a sample (at least 50 pounds) and notified of the location of soils proposed for import at least 72 hours in advance of importing. Each proposed import source should be sampled, tested and accepted for use prior to delivery of the soils to the site. Soils imported prior to acceptance by GPI may be rejected if not suitable.

If open-graded gravel is used as backfill, such as for stormwater infiltration or retention systems, the material should be separated from the adjacent soils with a suitable non-woven filter fabric, such as Mirafi 140N.

4.3.5 Placement and Compaction of Fills

Fill soils should be placed in horizontal lifts, moisture-conditioned, and mechanically compacted to densities equal to at least 90 percent of the maximum dry density, determined in accordance with ASTM D1557. The optimum lift thickness will depend on the compaction equipment used and can best be determined in the field. The following uncompacted lift thickness can be used as preliminary guidelines.

Plate compactors	4-6 inches
Small vibratory or static rollers (5-ton±) or track equipment	6-8 inches
Scrapers, heavy loaders, or heavy vibratory rollers	8-12 inches

The maximum lift thickness should not be greater than 12 inches and each lift should be thoroughly compacted and accepted prior to subsequent lifts.

Fills should be placed at moisture contents of 0 to 2 percent over the optimum moisture content for granular soils and silts, and 1 to 3 percent over optimum for clays. The moisture content of the soils encountered in the explorations was, on average, roughly 7 percent above optimum. As such, moisture conditioning (drying) is anticipated prior to replacing the soils as properly compacted fill. The on-site soils should not be allowed to dry out prior to covering or additional moisture conditioning and processing will be

required. The moisture content of the subgrade soils should be confirmed by GPI prior to covering.

During backfill of excavations, the fill should be properly benched into the construction slopes as it is placed in lifts.

4.3.6 Shrinkage and Subsidence

Shrinkage is the loss of soil volume caused by compaction of fills to a higher density than before grading. Subsidence is the settlement of in-place subgrade soils caused by loads generated by large earthmoving equipment. For earthwork volume estimating purposes, an average shrinkage value of 15 to 20 percent may be assumed for the surficial soils. Higher values may be realized if deep undocumented fills are encountered. Subsidence is anticipated to be less than 0.1 feet. These values are estimates only and exclude losses due to removal of vegetation or debris. Actual shrinkage and subsidence will depend on the types of earthmoving equipment used and should be verified during grading.

4.3.7 Trench/Wall Backfill

Utility trench and wall backfill, consisting of the on-site materials or imported sand, should be mechanically compacted in lifts. The on-site clays and silts should not be used for retaining wall or wall-below-grade backfill. Lift thickness should not exceed those values given in the "Placement and Compaction of Fill" section of this report. Moisture conditioning of the on-site soils will be required prior to re-use as backfill. Jetting or flooding of backfill materials should not be permitted. A representative of GPI should observe and test trench and wall backfills as they are placed.

In backfill areas where mechanical compaction of soil backfill is impractical due to space constraints, sand-cement slurry may be substituted for compacted backfill. The slurry should contain one sack of cement per cubic yard. Within building areas, the slurry should contain two sacks of cement per cubic yard. When set, such a mix typically has the consistency of compacted soil. Under foundations, concrete equal in strength to the foundation concrete should be used if fill is required.

4.3.8 Observation and Testing

A representative of GPI should observe excavations, subgrade preparation, and fill placement activities. Sufficient in-place field density tests should be performed during fill placement and in-place compaction to evaluate the overall compaction of the soils. Soils that do not meet minimum compaction requirements should be reworked and tested prior to placement of additional fill.

4.4 FOUNDATIONS

4.4.1 General

The proposed structures and modifications to existing buildings may be supported on conventional isolated and/or continuous shallow footings or a mat foundation, provided the subsurface soils are prepared in accordance with the recommendations given in this report. Shallow foundations should be supported on properly compacted fill. We are also providing recommendations for design of deep foundations for support of both light standards and similar type structures.

4.4.2 Bearing Capacity

Spread Footings

Based on the shear strength and elastic settlement characteristics of the recompacted on-site soils, a static allowable net bearing pressure of up to 3,000 pounds per square foot (psf) may be used for both continuous footings and isolated column footings. The actual bearing pressure used may be less, such that economics and structural loads will determine the minimum width for footings as discussed below. These bearing pressures are for dead load-plus-live loads, and may be increased one-third for short-term, transient, wind and seismic loading. The maximum edge pressures induced by eccentric loading or overturning moments should not be allowed to exceed these recommended values.

The following minimum footing widths and embedments are recommended for the corresponding allowable bearing pressure.

STATIC BEARING PRESSURE (psf)	MINIMUM FOOTING WIDTH (inches)	MINIMUM FOOTING* EMBEDMENT (inches)
3,000	24	24
2,500	18	24
2,000	18	18
1,500	15	15

* Depth to bottom of footing below lowest adjacent finish grade.

A minimum footing width and depth of 15 inches should be used even if the actual bearing pressure is less than 1,500 psf.

Mat Foundation

The allowable bearing pressure for a mat foundation is generally not the governing geotechnical issue as compared to the anticipated settlement. At this time, we have not been provided with estimated static mat foundation pressures for the proposed structures. If a mat foundation is to be considered, we should be provided with a detailed plot of the anticipated bearing pressures to review.

For the elastic design of the mat foundation, a modulus of subgrade reaction (k-value) of 150 pounds per cubic inch (pounds per square inch per inch of deflection) may be used. This value is for a 1-foot by 1-foot square loaded area and should be adjusted for the area of the mat foundation using appropriate elastic theory. Using generally accepted methods and our site specific consolidation test results, we recommend using a value of 35 pci for the adjusted k-value in designing the mat foundation. As previously discussed, we should be provided with the anticipated mat pressures when they are developed so that we can review and confirm the recommendations provided, as well as provide an estimate for the anticipated maximum static settlements for the mat foundations.

The allowable soil bearing pressure will be significantly greater than the average bearing pressures required for the mat foundation as discussed above. At localized areas of the mat, such as columns and point of load applications along exterior walls, a static allowable net bearing pressure of 2,000 pounds per square foot may be used. These allowable bearing pressures are for dead-plus-live loads, and may be increased one-third for short-term, transient, wind and seismic loading.

4.4.3 Settlement

Under the static load conditions assumed (column loads of up to 150 kips and wall loads of up to 3 kips per lineal foot), maximum total static settlement of the proposed structures is expected to be on the order of ½- to ¾-inch. Maximum differential static settlement between similarly loaded adjacent footings is estimated to be on the order of ¼- to ⅜-inch across a lateral distance of 40 feet.

As discussed earlier, we computed total seismic settlements of ½- to ¾-inch for the purpose of evaluating total foundation settlement. As such, total combined static plus seismic settlement for the purposed of determining foundation feasibility is expected to be between 1- and 1½-inches. Combined differential static plus seismic settlement is expected to be between ½- and ¾-inch across a lateral distance of 40 feet. The combined settlements (total or differential) are within the generally accepted limits for spread and/or continuous footing foundations

The above settlement estimates are based on the assumption that the recommended earthwork will be performed and that the footings will be sized in accordance with our recommendations.

4.4.4 Lateral Resistance

Soil resistance to lateral loads will be provided by a combination of frictional resistance between the bottom of footings and underlying soils and by passive soil pressures acting against the embedded sides of the footings. For frictional resistance, a coefficient of friction of 0.35 may be used for design. In addition, an allowable lateral bearing pressure equal to an equivalent fluid weight of 275 pounds per cubic foot may be used, provided the footings are poured tight against the compacted fill. A one-third increase in the above allowable lateral bearing pressure (but not the frictional resistance) may be

taken for short-term wind and seismic loads. The passive pressure provided also assumes a level ground surface extending to a horizontal distance from the wall or footing face at least twice the depth of embedment. These values may be used in combination without reduction.

4.4.5 Light Standards and Poles

Light standards and similar structures may be supported on drilled pier foundations. The design of such piers is typically governed by lateral loading conditions. Soil resistance to lateral loads can be provided by the piles. The design of the piles will be governed by lateral force considerations. For design by the simplified pole formula presented in Section 1807A.3.2.1 of the 2016 California Building Code, a unit passive resistance of 275 pounds per square foot per foot (to a maximum of 2,750 pounds per square foot) may be used for the piles with level ground in lieu of the presumptive lateral bearing values presented in Table 1806A.2. As stated in the code, a passive resistance of 550 pounds per square foot per foot (to a maximum of 5,500 pounds per square foot) may be used for isolated piles as determined by the Project Structural Engineer. This value incorporates the allowable increase stated in the Section 1806A.3.4 of the code for single poles that can tolerate a ½-inch of deflection under short-term loads. We recommend that the upper 1-foot of the subgrade soils be ignored in determining the required depth of embedment to allow for surface disturbance adjacent to the pile.

A pile designed for adequate embedment to resist the anticipated lateral loads should have adequate axial capacity to support the anticipated vertical loads. The net allowable vertical compressive capacity can be conservatively calculated based on a unit side friction of 325 pounds per square foot, neglecting end bearing contribution. We recommend that the upper 1-foot of the subgrade soils be ignored in determining the required depth of embedment to allow for future surface disturbance adjacent to the pile.

4.4.6 Foundation Concrete

Laboratory testing by HDR (Appendix B) indicates that the on-site soils have a soluble sulfate content of 75 mg/kg (0.0075 percent by weight). In accordance with the 2016 CBC, foundation concrete should conform to the requirements outlined to the requirements outlined in ACI 318, Section 4.3 for a negligible level of soluble sulfate exposure for soil (ACI Category 'S0'). Chloride contents were 15 mg/kg, which is considered to be low.

4.4.7 Foundation Observation

Prior to placement of steel and concrete, a representative of GPI should observe and approve foundation excavations. Footing excavations should be moistened immediately prior to concrete placement.

4.5 CONCRETE SLABS

A moisture vapor retarder should be placed under slabs that are to be covered with moisture-sensitive floor coverings (parquet, vinyl, tile, etc.). Currently, common practice is to use a 10 or 15 mil polyolefin product such as Stego Wrap for this purpose. Whether to place the concrete slab directly on the vapor barrier or place a clean sand layer between the slab and vapor barrier is a decision for the Project Architect and General Contractor, as it is not a geotechnical issue. If covered by sand, the sand layer should be about 2 inches thick and contain less than 5 percent by weight passing the No. 200 sieve. Based on our explorations and laboratory testing, the soils at the site are not suitable for this purpose. The function of the sand layer is to protect the vapor retarder during construction and to aid in the uniform curing of the concrete. This layer should be nominally compacted using light equipment. The sand placed over the vapor retarder should only be slightly moist. If the sand gets wet (for example as a result of rainfall or excessive moistening) it must be allowed to dry prior to placing concrete. Care should be taken to avoid infiltration of water into the sand layer after placement of the concrete slab, such as at slab cut-outs and other exposures. A sand layer is not required beneath the vapor retarder, but we take no exception if one is provided.

It should be noted that the material used as a vapor retarder is only one of several factors affecting the prevention of moisture accumulation under floor coverings. Other factors include maintaining a low water-cement ratio for the concrete used for the floor slab and effective sealing of joints and edges (particularly at pipe penetrations). The manufacturer of the floor coverings should be consulted for establishing acceptable criteria for the condition of the floor surface prior to placing moisture-sensitive floor coverings.

For the elastic design of slabs supporting sustained concentrated loads, a modulus of subgrade reaction (k) of 150 pounds per cubic inch (pounds per square inch per inch of deflection) may be used. This value is for a 1-foot by 1-foot square loaded area and should be adjusted by the structural designer for the area of the proposed building slab using appropriate elastic theory.

Concrete hardscape should be supported on non-expansive, compacted soils as discussed in the "Placement and Compaction of Fill" section. Suitable soils, such as the onsite sandy silts and silty sands, are anticipated to be readily available within the upper 7 feet below existing grades. Based on our testing, the on-site clays are not suitable for direct support of slabs and hardscape. The subgrade soils should not be allowed to dry out prior to concrete placement or additional processing and moisture conditioning will be required.

4.6 PAVED AREAS

Pavement design has been based on an assumed R-value of 15, which is consistent with the upper silts and clays encountered. R-value testing should be performed prior to construction of the pavement sections to confirm the preliminary design. The California Division of Highways Design Method was used for design of the recommended preliminary pavement sections. These recommendations are based on the assumption

that the pavement subgrades will consist of existing near surface soils. The following pavement sections are recommended:

PAVEMENT AREA	TRAFFIC INDEX	SECTION THICKNESS (inches)	
		ASPHALT/PORTLAND CONCRETE	AGGREGATE BASE COURSE
Asphalt Concrete			
Playground (no vehicles)	---	2.0	3.0
Automobile Parking	4.0	3.0	5.0
Automobile Drives	5.0	3.0	8.0
Truck/Bus Drives	6.0	3.5	11.0
Portland Cement Concrete			
Automobile Parking	4.0	6.0	4.0
Automobile Drives	5.0	6.5	4.0
Truck/Bus Drives	6.0	7.0	4.0

The concrete used for paving should have a modulus of rupture of at least 550 psi (equivalent to an approximate compressive strength of 3,700 psi at the time the pavement is subjected to traffic). If the site is base paved prior to the start of building construction, the above pavement sections should be re-evaluated based on the anticipated construction traffic loads.

The pavement subgrade underlying the aggregate base should be properly prepared and compacted in accordance with the recommendations outlined under "Subgrade Preparation".

The pavement base course should be compacted to at least 95 percent of the maximum dry density (ASTM D 1557). Aggregate base should conform to the requirements of Section 200-2 of the Standard Specifications for Public Works Construction (Green Book) for crushed aggregate base (CAB) materials.

The above recommendations are based on the assumption that the base course and compacted subgrade will be properly drained. The design of paved areas should incorporate measures to prevent moisture build-up within the base course, which can otherwise lead to premature pavement failure. For example, curbing adjacent to landscaped areas should be deep enough to act as a barrier to infiltration of irrigation water into the adjacent base course.

4.7 RETAINING STRUCTURES AND SHORING

Based on information available to us at the time this report was prepared, significant retaining walls are not planned but relatively tall walls may be required for subterranean parking levels, if constructed. The following recommendations are provided for cantilevered site walls or subterranean building walls up to 15 feet in height. We recommend that walls be properly drained and backfilled with sandy soils (less than 40 percent passing the No. 200 sieve). The onsite clays and silts are not suitable for use as retaining wall backfill where conventional backfill is used.

Although data provided by CGS indicates an approximate historical high groundwater level of 9 feet below existing grades, we did not encounter groundwater within the 60-foot depth explored. Based on current groundwater management practices, the potential for groundwater to negatively impact the proposed development is considered to be negligible.

4.7.1 Basement and Retaining Walls

Active earth pressures can be used for designing walls that can yield at least ½-inch laterally per 10 feet of wall height under the imposed loads. For level, drained backfill, derived from non-expansive granular soils (EI $\leq$ 20), a lateral pressure of an equivalent fluid weighing of 38 pounds per cubic foot may be used. At-rest pressures should be used for restrained walls that remain rigid enough to be essentially non-yielding. For select, non-expansive, level, drained backfill, a lateral pressure of an equivalent fluid weighing 54 pounds per cubic foot can be used. If the wall backfill is not drained, the combined earth and water pressures could be much higher.

A seismic lateral pressure should be used for the design of retaining walls as required. We recommend a seismic lateral pressure of 20 pounds per cubic foot be added to the active earth pressure recommended above. If at-rest pressure is used to design the retaining wall, the total lateral pressure used (at-rest plus seismic) should not exceed the total active plus seismic pressure (58 pounds per cubic foot).

Walls subject to surcharge loads should be designed for an additional uniform lateral pressure equal to one-third and one-half the anticipated surcharge pressure for unrestrained and restrained walls, respectively.

The recommended pressures assume that the supported earth will be fully drained, preventing the build-up of hydro-static pressures. For traditional backfilled retaining walls, a drain consisting of perforated pipe and gravel, wrapped in a suitable filter fabric should be used. As a minimum, one cubic foot of rock should be used for each lineal foot of drain. The fabric (non-woven filter fabric, Mirafi 140N or equivalent) should be lapped at the top. For basement walls cast directly against temporary shoring, we recommend a drainage board be placed between the wall and shoring that extends from about 3 feet below finished grade down to the base of the wall. The drainage board should be connected to a suitable collection device and discharged to a sump.

4.7.2 Temporary Shoring

Where there is not sufficient space for sloped embankments, such as along the property limits or adjacent to existing structures, shoring will be required. One method of shoring would consist of steel soldier piles placed in drilled holes and backfilled with concrete. Driven or vibrated soldier piles may also be more economical alternative to drilled holes, and they can be used for supporting cuts that do not support existing structures.

For cantilever shoring with level backfill, the magnitude of active pressure is equivalent to the pressures imposed by a fluid weighing 38 pounds per cubic foot (pcf). For sloping backfill with a 1:1 inclination, the active pressure would be 65 pcf.

In addition to the recommended earth pressure, the shoring should be designed for surcharge loads due the adjacent structures and construction traffic surcharge loads. The upper 10 feet of the shoring adjacent to streets should be designed to resist a uniform lateral pressure of 100 pounds per square foot, acting as a result of an assumed 300 pound per square foot surcharge behind the shoring due to normal street traffic. If traffic is kept at least 10 feet from the shoring, the traffic surcharge may be neglected. Existing adjacent structures will impart a surcharge load on shoring. The location and depth of the adjacent building footings, as well as the loading, will need to be determined to estimate the surcharge pressure on the shoring.

For design of soldier piles spaced at least two diameters on centers, the allowable lateral bearing value (passive value) of the soils below the excavation may be taken to be 550 pounds per square foot at the excavated surface, up to a maximum of 5,500 psf. To develop the full lateral value, provisions should be made to assure firm contact between the soldier piles and the undisturbed soils. The concrete placed in the soldier pile excavation below the excavated level may be a lean mix, but it should be of adequate strength to transfer the imposed loads to the surrounding soils.

The shoring contractor should evaluate the potential drilling conditions when planning the installation methods.

Driven or vibrated soldier piles may be a feasible and more economical alternative. If soldier piles are vibrated or driven, predrilling should not be allowed below the planned excavation level. Predrilling should be performed with a continuous flight auger capable of reversing the auger to minimize the removal of soil during the process. The diameter used for predrilling should not exceed 80 percent of the maximum depth of the soldier pile section. For design, the width of the driven or vibrated pile should be taken as the width of the flange.

The frictional resistance between the soldier piles and the retained earth may be used in resisting the downward component of the anchor load, if used. The coefficient of friction between the soldier pile and the retained earth may be taken as 0.35. This value is based on the assumption that uniform full bearing will be developed between the steel soldier beam and the lean-mix concrete and between the lean mix concrete and the retained earth. In addition, provided the portion of the soldier piles below the excavated level is backfilled with structural concrete, the soldier piles below the excavated level may be used to resist downward loads. The frictional resistance between the concrete soldier piles and the soils below the excavated level may be taken as equal to 400 pounds per square foot.

Continuous lagging will be required between the soldier piles. Careful installation of the lagging will be necessary to achieve bearing against the retained earth. We recommend that the voids between the lagging and retained earth be backfilled with a lean-mix sand-cement slurry prior to continuing the excavation deeper. The soldier piles should

be designed for the full anticipated lateral pressure. However, the pressure on the lagging will be less because of arching of the soils between piles. We recommend that the lagging be designed for the recommended earth pressure but limited to a maximum value of 400 pounds per square foot, provided the soldier beam spacing is 8 feet or less.

It is difficult to accurately predict the amount of deflection of the shored embankment. It should be realized, however, that some deflection will occur. Adjacent to city right-of-way, the shoring should be designed to limited deflection to 1-inch. We recommend limiting the lateral deflection of shoring adjacent to structures to ½-inch. If greater deflection occurs during construction, additional bracing may be necessary. In areas where less deflection is desired, such as adjacent to existing settlement sensitive improvements, the shoring should be designed for higher lateral earth pressures.

We recommend performing a detailed survey of the improvements to be supported above the planned shoring prior to and during the shoring installation. The survey should include topographic data and a video account of the condition of the existing improvements, including cracks or signs of distress. During construction, the monitoring should consist of periodic surveying of the lateral and vertical locations of the tops of the soldier piles. We suggest weekly readings during the excavation and for the first three weeks after achieving the bottom of the excavation. After that time, the readings should be performed every other week until the completion of the basement walls.

4.8 CORROSION

Resistivity testing indicated that the on-site soils are moderately corrosive to ferrous metals. GPI does not practice corrosion engineering. We recommend that a corrosion engineering firm, such as HDR, be consulted if corrosion protection recommendations are required.

4.9 SURFACE DRAINAGE AND INFILTRATION

Positive surface gradients should be provided adjacent to structures so as to direct surface water run-off and roof drainage away from foundations and slabs toward suitable discharge facilities. Long-term ponding of surface water should not be allowed on pavements or adjacent to buildings.

Field infiltration testing was not included in our scope. The potential for water to infiltrate into a soil is based on the gradation and in-place density of a soil. Based on the subsurface conditions encountered, sandy soils were present within the upper 5 to 15 feet in our explorations. These soils may be suitable for infiltration, although the infiltration rates may be limited because of the high fines contents of the silty sands and the presence of stiff to very stiff silts and clays underlying the sandier materials. We recommend subsurface infiltration options be located a lateral distance of at least 30 feet from existing or proposed structures. Increased lateral offsets should be used for retaining walls or planned subterranean structures.

4.10 GEOTECHNICAL OBSERVATION AND TESTING

We recommend that a representative of GPI observe the earthwork during construction to confirm that the recommendations provided in our report are applicable during construction. The earthwork activities include grading, compaction of fills, subgrade preparation, pavement construction and foundation excavations. If conditions are different than expected, we should be afforded the opportunity to provide an alternate recommendation based on the actual conditions encountered.

5.0 LIMITATIONS

This report, exploration logs, and other materials resulting from GPI's efforts were prepared exclusively for use by the Los Angeles Unified School District and their consultants in designing the proposed development. The report is not intended to be suitable for reuse on extensions or modifications of the project or for use on project other than the currently proposed development as it may not contain sufficient or appropriate information for such uses.

Soil deposits may vary in type, strength, and many other important properties between points of exploration due to non-uniformity of the geologic formations or to man-made cut and fill operations. While we cannot evaluate the consistency of the properties of materials in areas not explored, the conclusions drawn in this report are based on the assumption that the data obtained in the field and laboratory are reasonably representative of field conditions and are conducive to interpolation and extrapolation.

Furthermore, our recommendations were developed with the assumption that a proper level of field observation and construction review will be provided by GPI during grading, excavation, and foundation construction. If construction phase services are performed by others they must accept full responsibility for geotechnical aspects of the project, including this report.

Our investigation and evaluations were performed using generally accepted engineering approaches and principles available at this time and the degree of care and skill ordinarily exercised under similar circumstances by reputable geotechnical engineers practicing in this area. No other representation, either expressed or implied, is included or intended in our report.

Respectfully submitted,
Geotechnical Professionals Inc.

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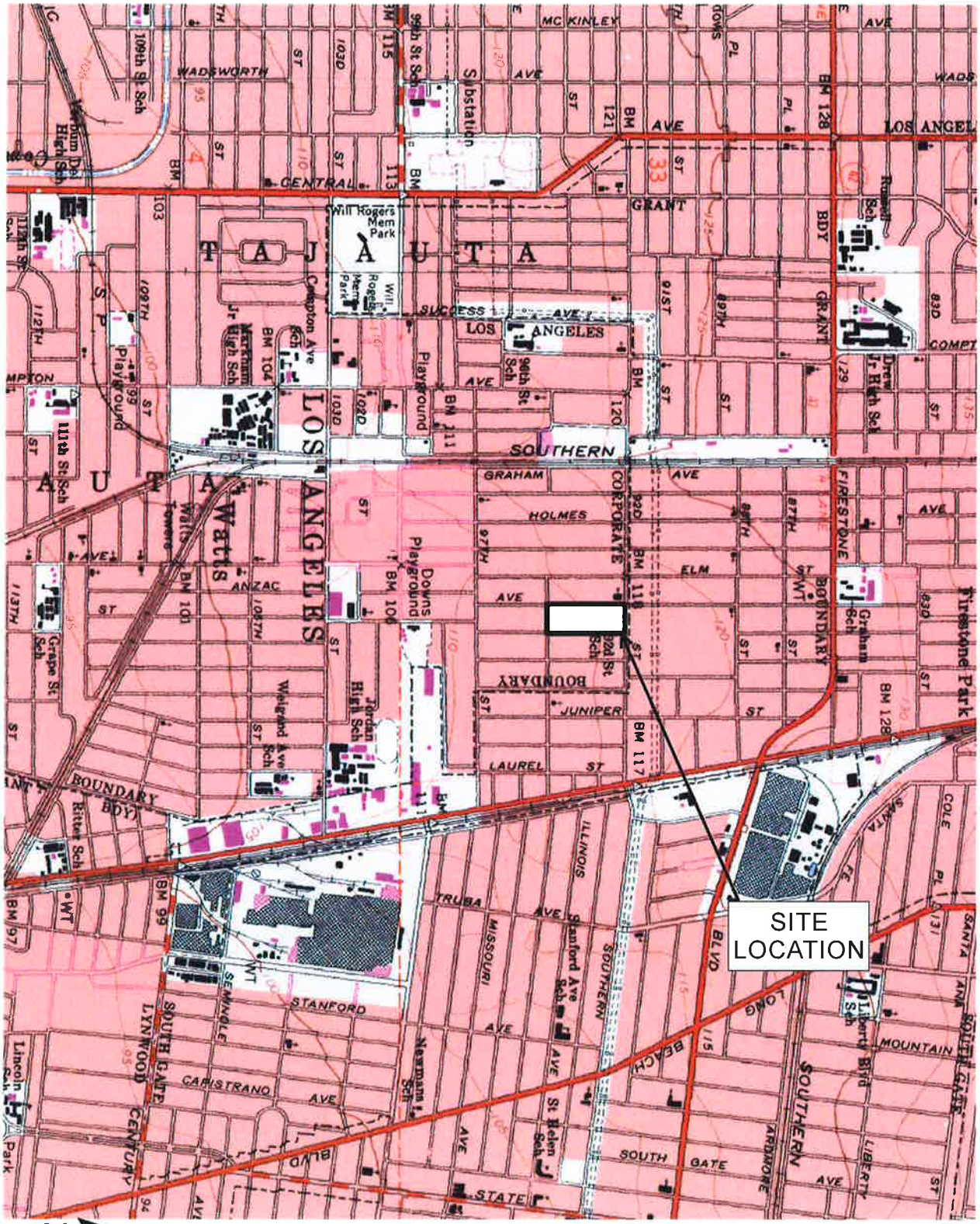


BASE MAP REPRODUCED FROM © CalTopo, USGS

GPI GEOTECHNICAL PROFESSIONALS, INC.

92ND STREET E.S.

GPI PROJECT NO. 2677.171 | SCALE: 1" = 2000 FEET

SITE LOCATION

FIGURE 1

EXPLANATION

B-5 — APPROXIMATE LOCATION AND NUMBER OF EXPLORATORY BORING

C-5 — APPROXIMATE LOCATION AND NUMBER OF CONE PENETRATION TEST

N

0 100 200 FEET

BASE MAP REPRODUCED FROM PLOT PLAN PRODUCED BY LAUSD ASSET MANAGEMENT BRANCH, DATED (06/27/17)

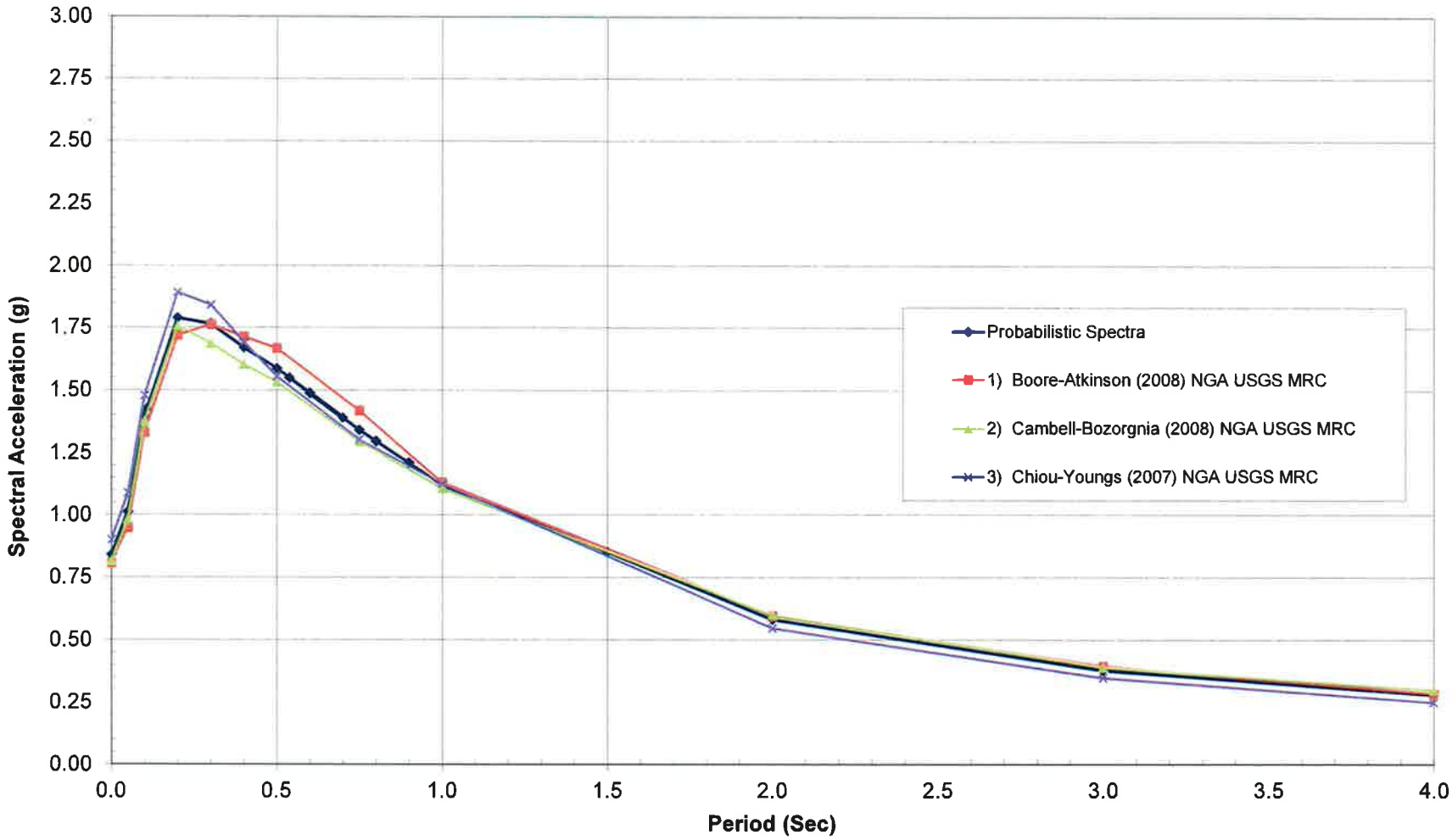
GPI GEOTECHNICAL PROFESSIONALS, INC.

92ND STREET E.S.

GPI PROJECT NO.: 2677.17I | SCALE: 1" = 100'

SITE PLAN

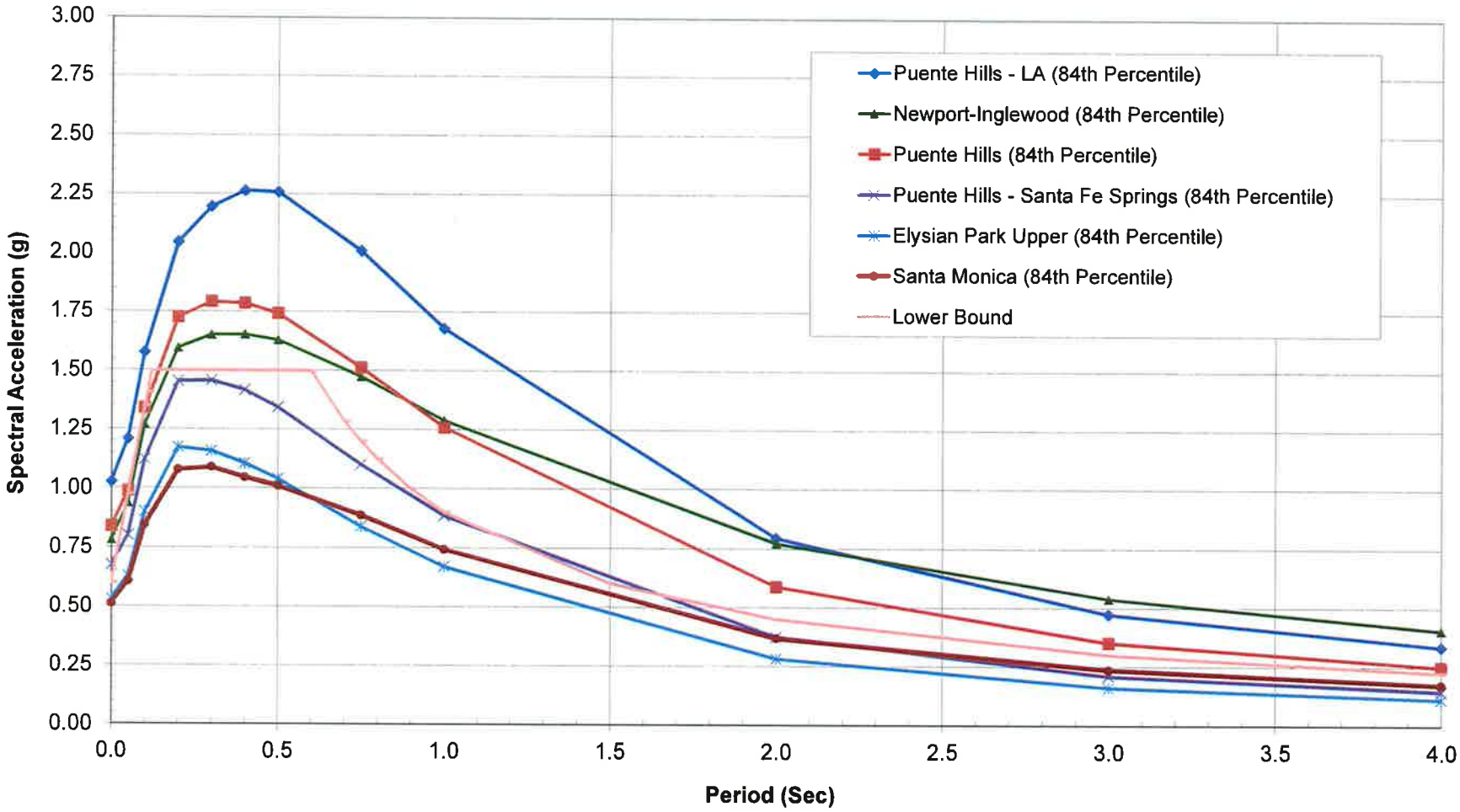
FIGURE 2



Probabilistic MCE_R Response Spectra at 5% Damping
92nd Street Elementary School
Los Angeles Unified School District
Los Angeles, California

GEOTECHNICAL PROFESSIONALS, INC.

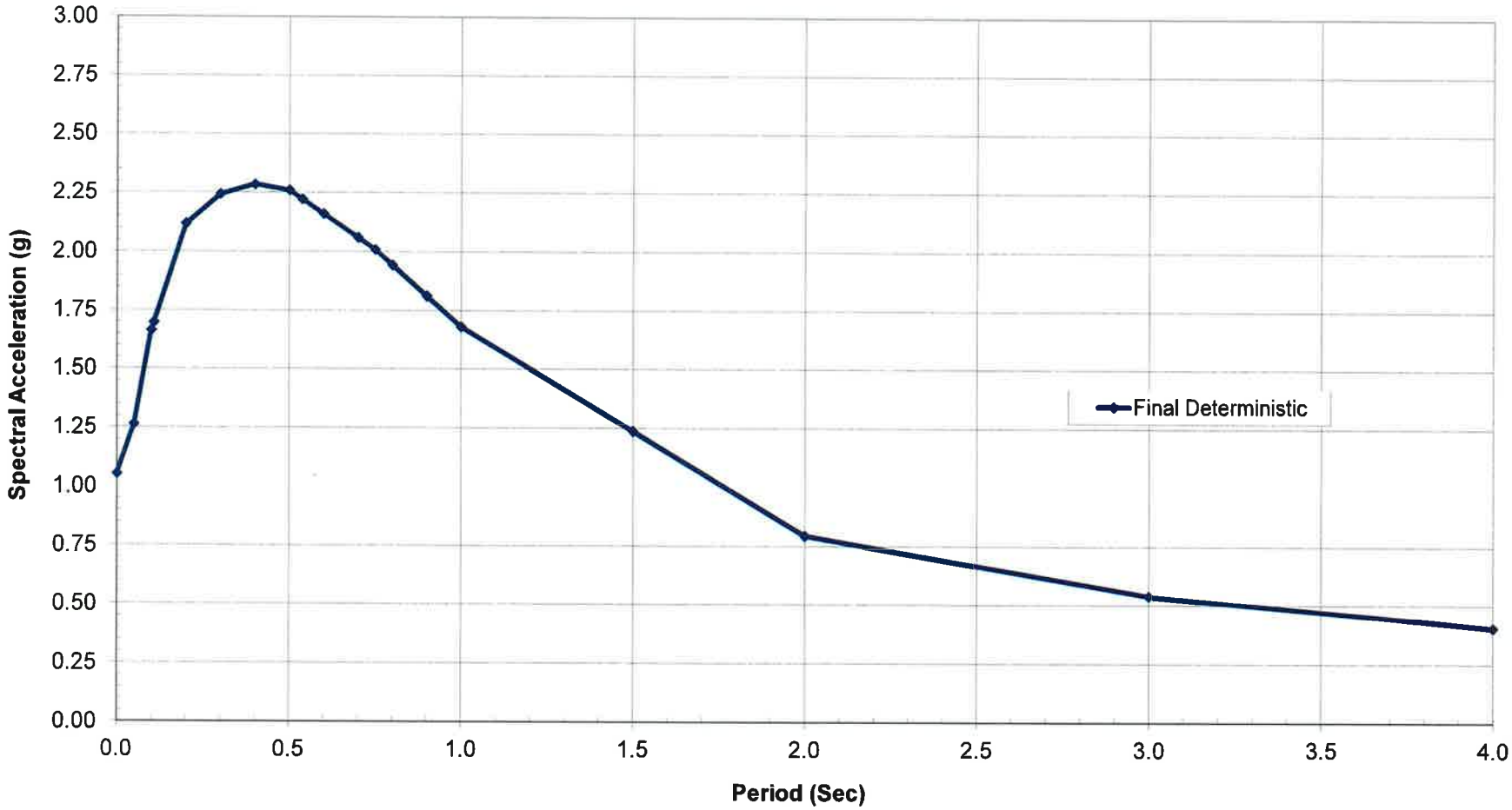
Project No. 2677.17I FIGURE 3



Deterministic Response Spectra at 5% Damping - Select Faults
92nd Street Elementary School
Los Angeles Unified School District
Los Angeles, California

GPI GEOTECHNICAL PROFESSIONALS, INC.

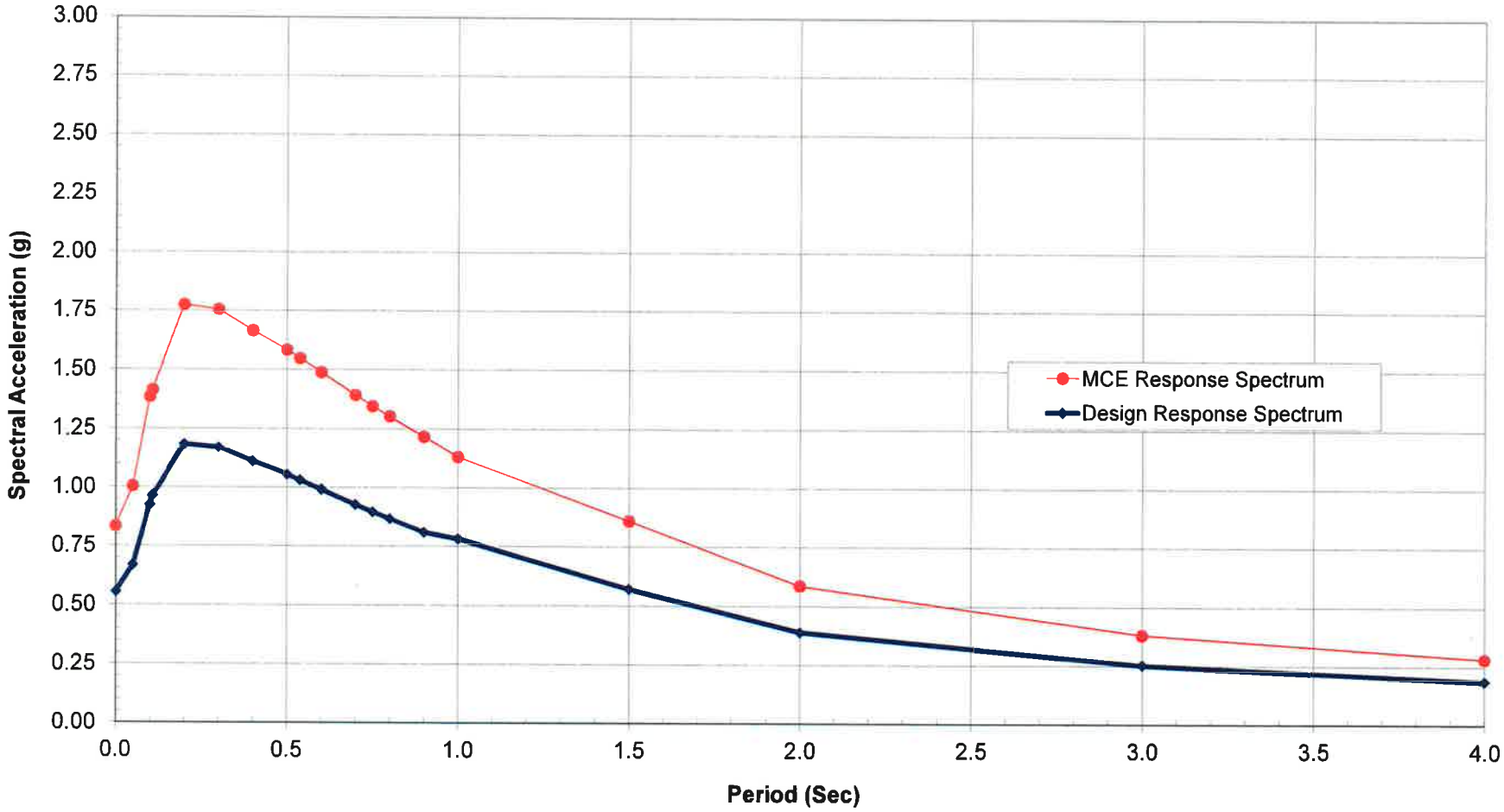
Project No. 2677.171 FIGURE 4



Deterministic Response Spectrum at 5% Damping - Upper Bound
92nd Street Elementary School
Los Angeles Unified School District
Los Angeles, California

GPI GEOTECHNICAL PROFESSIONALS, INC.

Project No. 2677.171 FIGURE 5



MCE_R and Design Response Spectra at 5% Damping Per 2016 CBC
92nd Street Elementary School
Los Angeles Unified School District
Los Angeles, California

GEOTECHNICAL PROFESSIONALS, INC.

Project No. 2677.171 FIGURE 6

TABLE D-1
RISK-TARGETED SITE SPECIFIC SEISMIC RESPONSE SPECTRA WORKSHEET

(DJB 7/28/14 Based Upon ASCE 7-10)

Project	**92nd Street ES**
Proj. No.	**2677.17I**
Latitude	**33.9520**
Longitude	**-118.2369**

Site Class	D
T_o	0.107 sec
T_s	0.537 sec
T_L	8.0 sec

Parameter	2016 CBC Value
S_s	1.803
S_1	0.646
F_a	1.000
F_v	1.500
S_{MS}	1.803
S_{M1}	0.969
S_{DS}	1.202
S_{D1}	0.646
$S_{DS}/2.5$	0.481

Parameter	2016 CBC Value
C_{RS}	0.992
C_{R1}	1.007
$0.08\ F_v/F_a$	0.120
$0.4F_v/F_a$	0.600
PGA_M	0.659

Attentuation Relationships

1) Boore-Atkinson (2008) NGA USGS MRC
2) Cambell-Bozorgnia (2008) NGA USGS MRC
3) Chiou-Youngs (2007) NGA USGS MRC

SITE-SPECIFIC PARAMETERS

S_{MS}	**1.775**
S_{M1}	**1.175**
S_{DS}	**1.183**
S_{D1}	**0.783**
PGA	**0.56**

1) Period (sec)	2) Risk-Targeted MCE_R Spectrum (g)	3) 2016 CBC Design Response Spectrum	4) Risk Coefficient C_R	5) MCE_R Deterministic Lower Limit Spectrum	6) Probabilistic Spectra; 2% in 50 years (g)	7) Probabilistic w/ Risk Coefficient (C_R)	8) 84th Percentile Deterministic Spectrum	9) Site Specific MCE_R Spectrum	10) 2/3 Site Specific MCE_R Spectrum	11) 80% of 2016 CBC Design Spectrum	12) **Design Response Spectrum**
0.000	0.659	0.439	0.992	0.600	0.841	0.834	1.052	0.834	0.556	0.351	**0.556**
0.050	1.224	0.816	0.992	0.975	1.013	1.005	1.263	1.005	0.670	0.653	**0.670**
0.100	1.728	1.152	0.992	1.350	1.396	1.385	1.664	1.385	0.923	0.921	**0.923**
0.107	1.803	1.202	0.992	1.406	1.425	1.414	1.698	1.414	0.943	0.962	**0.962**
0.200	1.803	1.202	0.992	1.500	1.789	1.775	2.118	1.775	1.183	0.962	**1.183**
0.300	1.803	1.202	0.994	1.500	1.765	1.754	2.243	1.754	1.169	0.962	**1.169**
0.400	1.803	1.202	0.996	1.500	1.671	1.664	2.285	1.664	1.109	0.962	**1.109**
0.500	1.803	1.202	0.998	1.500	1.587	1.583	2.260	1.583	1.055	0.962	**1.055**
0.537	1.803	1.202	0.998	1.500	1.550	1.548	2.223	1.548	1.032	0.962	**1.032**
0.600	1.615	1.077	1.000	1.500	1.489	1.488	2.160	1.488	0.992	0.861	**0.992**
0.700	1.384	0.923	1.001	1.286	1.390	1.392	2.060	1.392	0.928	0.738	**0.928**
0.750	1.292	0.861	1.002	1.200	1.341	1.344	2.010	1.344	0.896	0.689	**0.896**
0.800	1.211	0.808	1.003	1.125	1.297	1.302	1.944	1.302	0.868	0.646	**0.868**
0.900	1.077	0.718	1.005	1.000	1.210	1.216	1.813	1.216	0.811	0.574	**0.811**
1.000	0.969	0.646	1.007	0.900	1.123	1.131	1.681	1.131	0.754	0.517	**0.783**
1.500	0.646	0.431	1.007	0.600	0.853	0.859	1.239	0.859	0.573	0.345	**0.573**
2.000	0.485	0.323	1.007	0.450	0.583	0.587	0.796	0.587	0.392	0.258	**0.392**
3.000	0.323	0.215	1.007	0.300	0.380	0.383	0.540	0.383	0.255	0.172	**0.255**
4.000	0.242	0.162	1.007	0.225	0.281	0.283	0.406	0.283	0.188	0.129	**0.188**

SITE SPECIFIC SEISMIC RESPONSE SPECTRA WORKSHEET
(DJB 7/28/14 Based Upon ASCE 7.10)

INPUT BLUE ONLY - BLACK CALCULATED

Column Descriptions

01) Periods including To and Ts calculated from US Seismic Design Maps (2010 ASCE)
02) USGS, U.S. Seismic Design Maps Web Application - MCE_R Response Spectrum
03) USGS, U.S. Seismic Design Maps Web Application - Design Spectrum (2/3 of Column B)
04) Risk Coefficient, C_R, for 0.2s and 1.0s periods (Section 21.2.1.1); from Web Application
05) Deterministic Lower Limit on MCE_R (Figure 21.2-1)
06) EZ-Frisk, 2% in 50 years Probabilistic Spectrum (Section 21.2.1.1)
07) EZ-Frisk, Probabilistic MCE_R Spectrum (Section 21.2.1.1)
08) EZ-Frisk, 84th Percentile Deterministic Spectrum (Section 21.2.2)
09) Site-Specific MCE_R (Section 21.2.3); Lesser of Column 7 and Greater of Columns 5 and 8
10) Uncorrected Design Response Spectrum (Section 21.3), 2/3 of Column 9
11) 80% of 2013 CBC Design Spectra (Column 3), (Section 21.3) Lower Limit of the Design Spectrum
12) Design Response Spectrum (Section 21.3); Greater of Columns 10 and 11

T_L = Figure 22-12 ASCE 7-10 (typically 8 sec Southern California)

Minimum Allowable Value of PGA: (80% of PGA_M)	**0.527**
Minimum Allowable Value of S_{DS}: (90% of S_{DS} at any period)	**1.053**
Minimum Allowable Value of S_{D1}: (200% of S_a at 2 sec)	**0.783**

MUST CHECK THAT VALUES EXCEED MINIMUMS

APPENDIX A

APPENDIX A

CONE PENETRATION TESTS

The subsurface conditions were investigated by performing five Cone Penetration Tests (CPT's) at the site. The soundings were advanced to depths of 40 to 60 feet below existing grades. The locations of the CPT's are shown on the Site Plan, Figure 2.

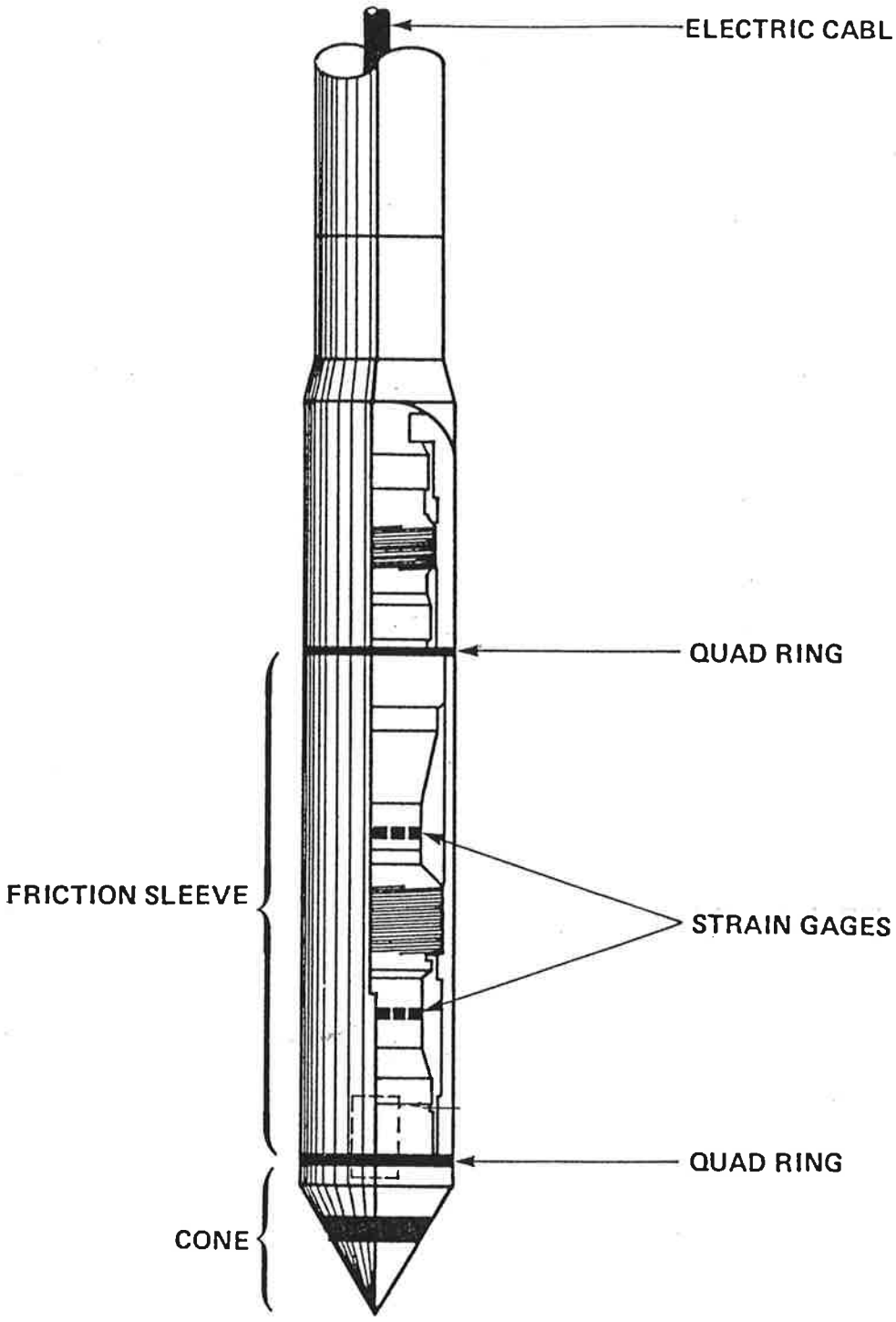
The Cone Penetration Test consists of pushing a cone-tipped probe into the soil deposit while simultaneously recording the cone tip resistance and side friction resistance of the soil to penetration (refer to Figure A-1). The CPT described in this report was conducted in general accordance with ASTM specifications (ASTM D 5778) using an electric cone penetrometer.

The CPT equipment consists of a cone assembly mounted at the end of a series of hollow sounding rods. A set of hydraulic rams is used to push the cone and rods into the soil while a continuous record of cone and friction resistance versus depth is obtained in both analog and digital form at the ground surface. A specially designed truck is used to transport and house the test equipment and to provide a 30-ton reaction to the thrust of the hydraulic rams.

Standard data obtained during a CPT consists of continuous stratigraphic information with close vertical resolution. Stratigraphic interpretation is based on relationships between cone tip resistance and friction resistance. The calculated friction ratio (CPT friction sleeve resistance divided by cone tip resistance) is used as an indicator of soil type. Granular soils typically have low friction ratios and high cone resistance, while cohesive or organic soils have high friction ratios and low cone resistance. These stratigraphic material categories form the basis for all subsequent calculations which utilize the CPT data.

Computer plots of the reduced CPT data acquired for this investigation are presented in Figures A-2 to A-6 of this appendix. The field testing and computer processing was performed by Kehoe Testing and Engineering under subcontract to Geotechnical Professionals Inc. (GPI). The interpreted soil descriptions were prepared by GPI.

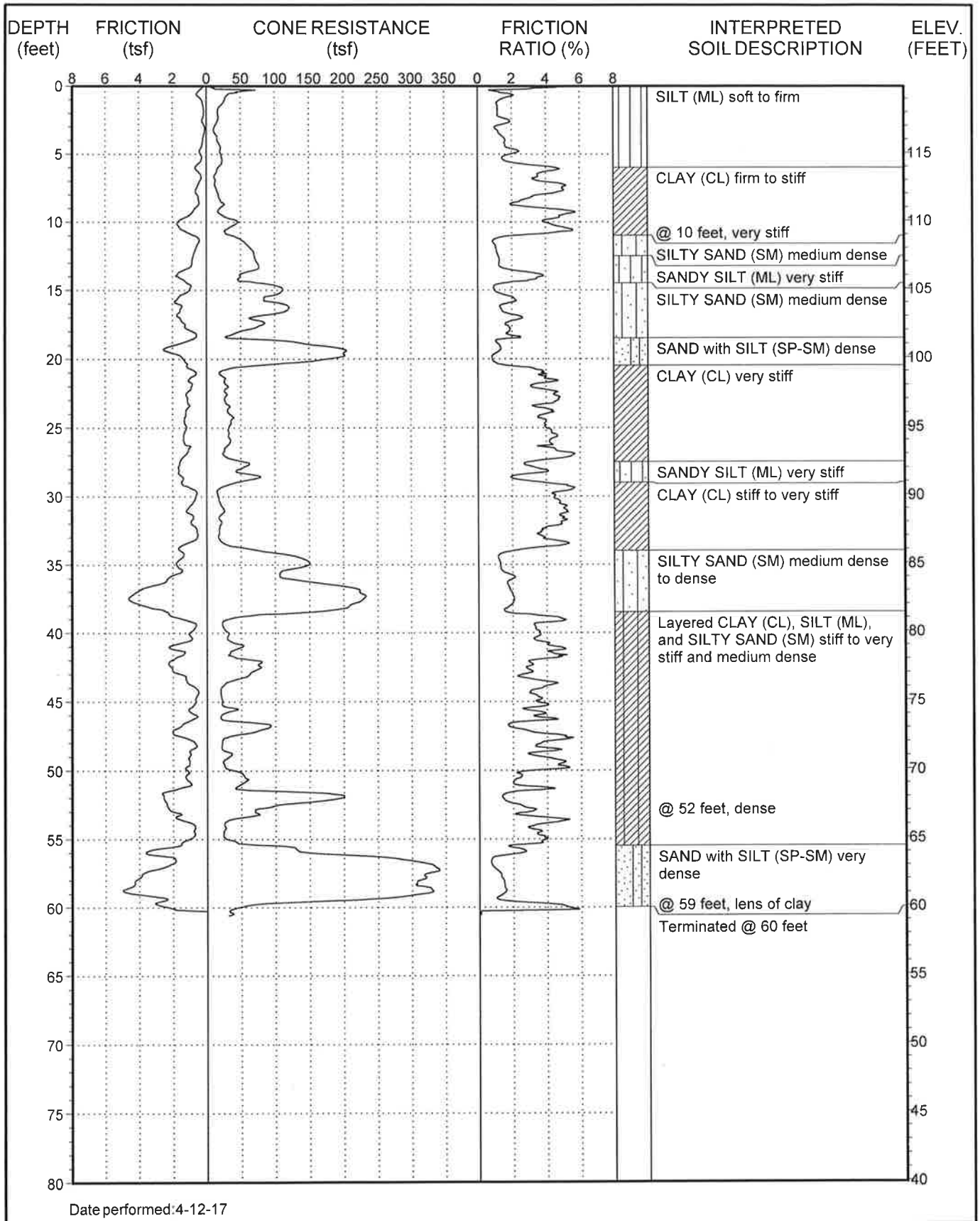
The CPT locations were laid out in the field by measuring from existing site features. Upon completion, the uncaved portions of the CPT holes were backfilled with bentonite chips. CPT's performed in asphalt or concrete areas were patched with cold-patch asphalt or rapid-set concrete, respectively. Ground surface elevations at the CPT locations were estimated from internet sources and should be considered approximate.



GPI GEOTECHNICAL PROFESSIONALS INC.

CONE PENETROMETER

FIGURE A-1



Date performed:4-12-17

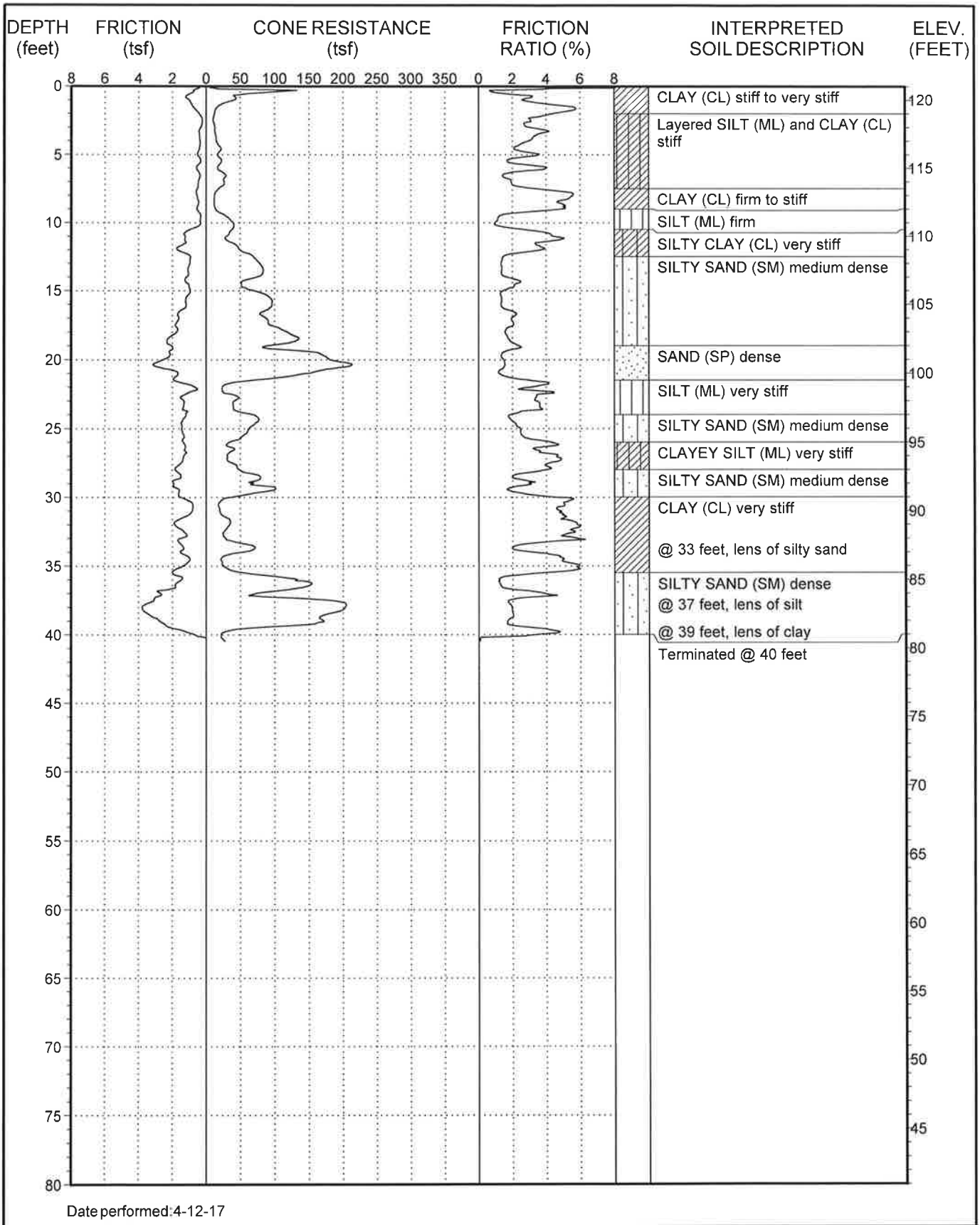
This summary applies only at the location of this cone penetration test and at the time of the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The interpreted soil description is derived from the friction ratio and cone resistance and is a simplification of actual conditions encountered.

GPI

PROJECT NO.: 2677.171
92ND STREET ES

LOG OF CPT NO. C-1

FIGURE A-2



Date performed:4-12-17

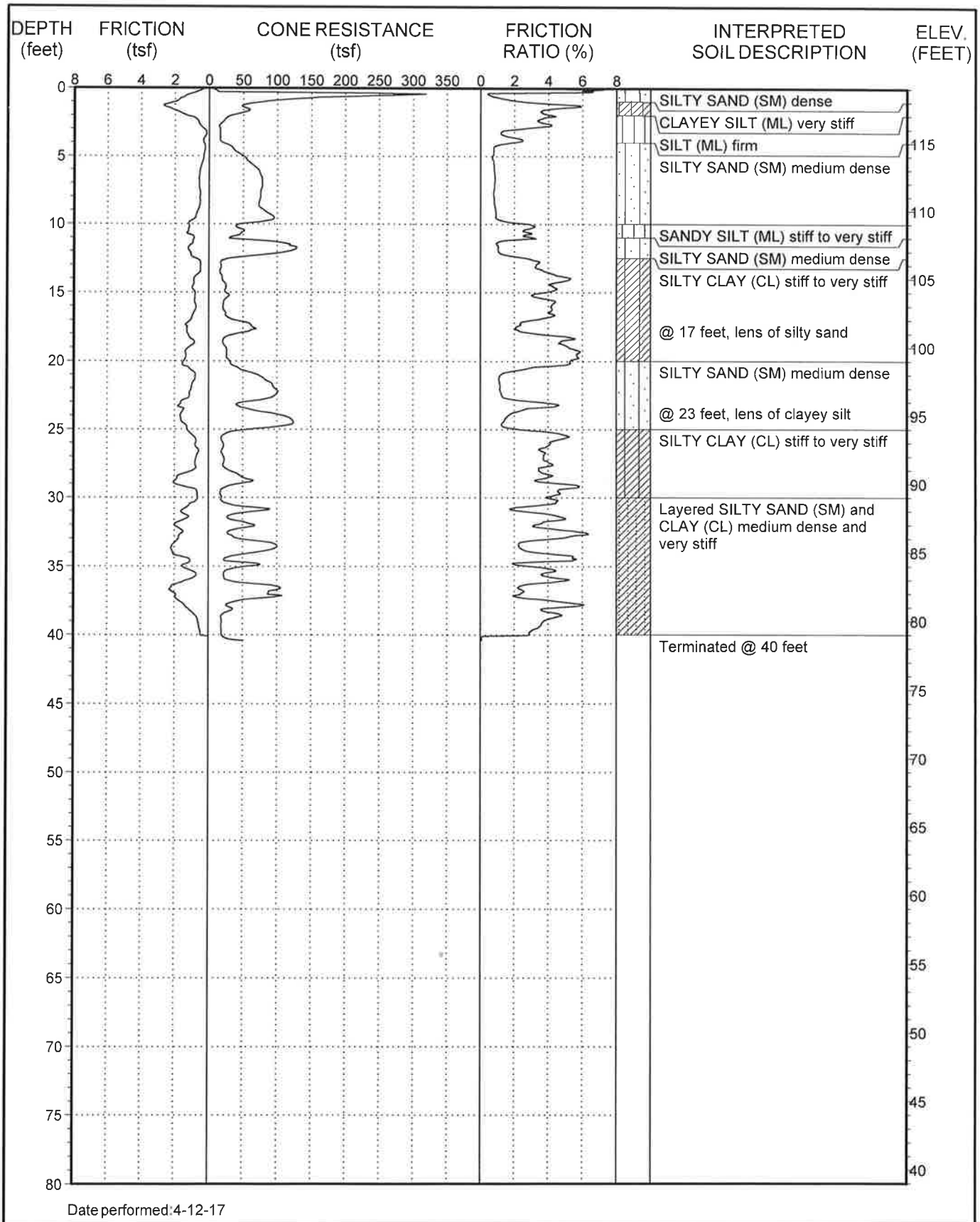
This summary applies only at the location of this cone penetration test and at the time of the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The interpreted soil description is derived from the friction ratio and cone resistance and is a simplification of actual conditions encountered.

GPI

PROJECT NO.: 2677.171
92ND STREET ES

LOG OF CPT NO. C-2

FIGURE A-3



Date performed:4-12-17

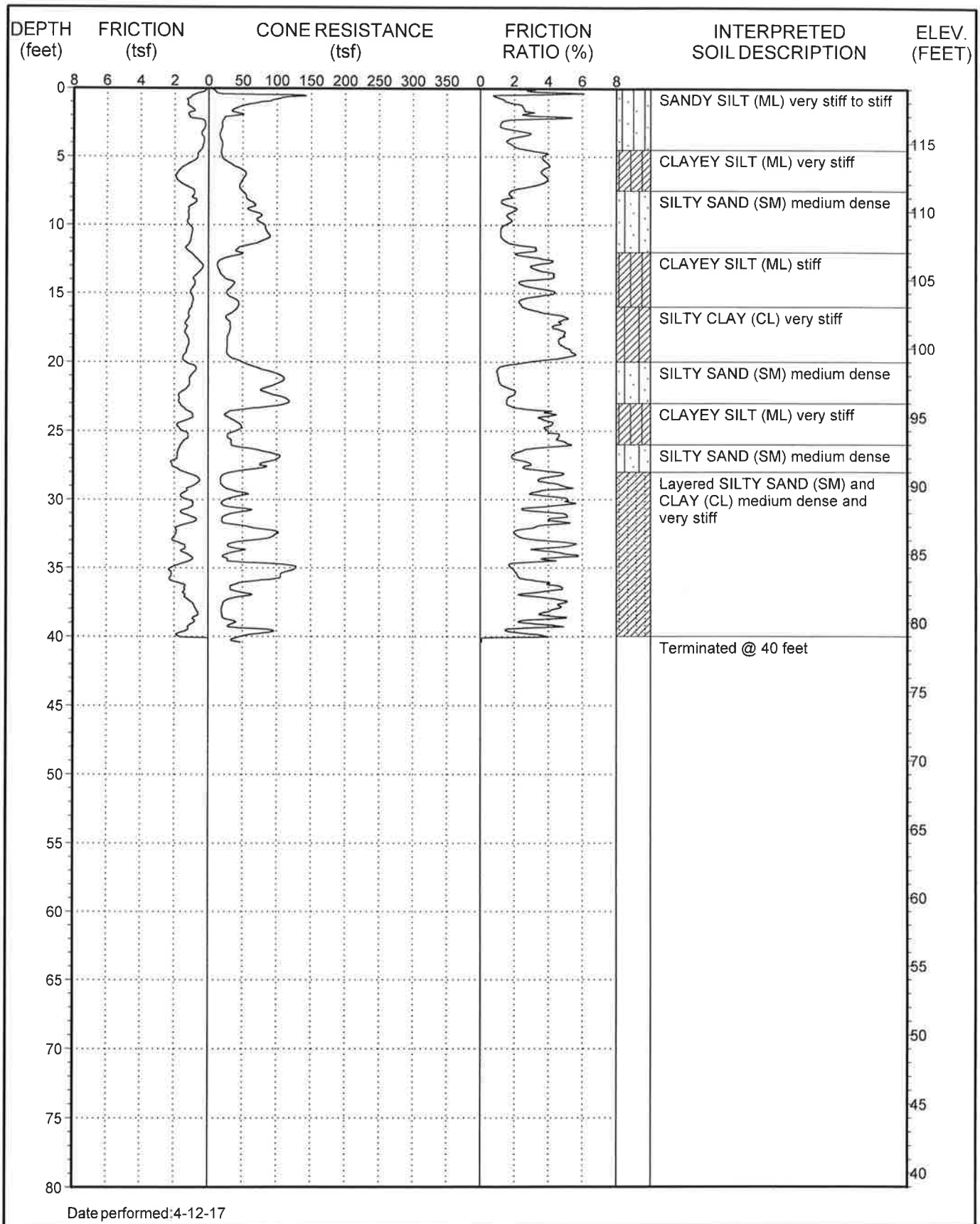
This summary applies only at the location of this cone penetration test and at the time of the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The interpreted soil description is derived from the friction ratio and cone resistance and is a simplification of actual conditions encountered.

GPI

PROJECT NO.: 2677.17I
92ND STREET ES

LOG OF CPT NO. C-3

FIGURE A-4



Date performed:4-12-17

This summary applies only at the location of this cone penetration test and at the time of the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The interpreted soil description is derived from the friction ratio and cone resistance and is a simplification of actual conditions encountered.

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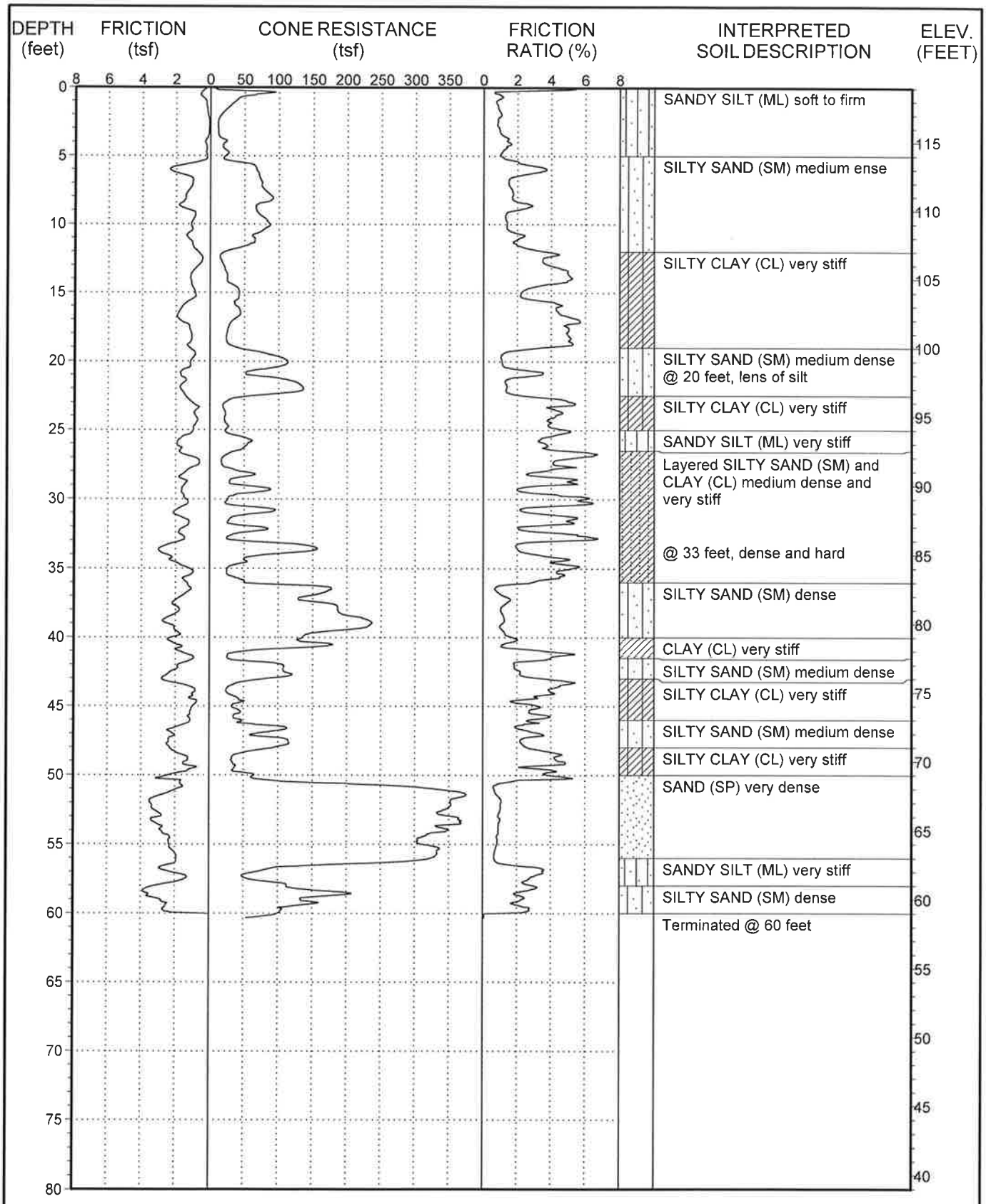
92ND STREET ES

LOG OF CPT NO. C-4

FIGURE A-5



Date performed:4-12-17

This summary applies only at the location of this cone penetration test and at the time of the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The interpreted soil description is derived from the friction ratio and cone resistance and is a simplification of actual conditions encountered.

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PROJECT NO.: 2677.17I
92ND STREET ES

LOG OF CPT NO. C-5

FIGURE A-6

APPENDIX B

APPENDIX B

EXPLORATORY BORINGS

We investigated the subsurface conditions at the site by drilling and sampling five exploratory borings. The borings were advanced to depths ranging from 20 to 60 feet below the existing ground surface. The locations of the explorations are shown on the Site Plan, Figure 2.

The borings were drilled using truck-mounted hollow-stem auger drill equipment. Relatively undisturbed samples were obtained using a brass-ring lined sampler (ASTM D 3550). The brass-rings have an inside diameter of 2.42 inches. The ring samples were driven into the soil by a 140-pound hammer dropping 30 inches. The number of blows needed to drive the sampler into the soil was recorded as the penetration resistance.

At selected locations, disturbed samples were obtained using a split-spoon sampler by means of the Standard Penetration Test (SPT, ASTM D 6066). The spoon sampler was driven into the soil by a 140-pound hammer dropping 30 inches, employing the "free-fall" hammer described above. After an initial seating drive of 6 inches, the number of blows needed to drive the sampler into the soil a depth of 12 inches was recorded as the penetration resistance. These values are the raw uncorrected blowcounts.

The field explorations for the investigation were performed under the continuous technical supervision of GPI's representative, who visually inspected the site, maintained detailed logs of the borings, classified the soils encountered, and obtained relatively undisturbed samples for examination and laboratory testing. The soils encountered in the borings were classified in the field and through further examination in the laboratory in accordance with the Unified Soils Classification System. Detailed logs of the borings are presented in Figures B-1 to B-5 in this appendix.

The boring locations were laid out in the field by measuring from existing site features. Ground surface elevations at the exploration locations were estimated from internet sources and should be considered approximate.

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS 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 actual conditions encountered.	ELEVATION (FEET)
			B	0	4" AC over 0" BASE Fill: **SILT (ML)** brown, moist, firm, with sand	
30.6	90	8	D		@ 3 feet, firm, wet	
24.2	96	10	D	5	**CLAY (CL)** brown, very moist, firm	115
23.1	99	12	D		**SANDY SILT (ML)** brown, wet, firm to stiff **CLAY (CL)** brown, very moist, firm to stiff	
16.9	106	16	D	10	**SILTY SAND (SM)** brown, wet, medium dense, trace porosity	110
18.1	96	20	D	15	**SANDY SILT (ML)** grey, very moist to wet, stiff **SILTY SAND (SM)** brown, wet, medium dense	105
10.6		10	S	20	**SAND with SILT (SP-SM)** light brown, very moist, loose to medium dense	100
27.4					**SILTY CLAY (CL)** dark grey, wet, stiff	
26.5	95	20	D	25		95
26.1		9	S	30	**SANDY SILT (ML)** grey, wet, stiff	90
					SILTY CLAY (CL) grey, wet, stiff	
10.4	105	24	D	35		85
					SILTY SAND (SM) grey, moist, medium dense	
					Layered **CLAY (CL), SILT (ML) and SILTY SAND (SM)**	80

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 4-13-17

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

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92ND STREET ES

LOG OF BORING NO. B-1

FIGURE B-1

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					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 actual conditions encountered.	
31.1		9	S	40	grey, wet, stiff and medium dense	
28.0						
				45		75
				50		70
35.5		15	S			
				55		65
					SAND with SILT (SP-SM) grey, wet, medium dense	
17.4		15	S			
				60	Total Depth 60 feet	60

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 4-13-17

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2677.17I

92ND STREET ES

LOG OF BORING NO. B-1

FIGURE B-1

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					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 actual conditions encountered.	
			B	0	Pavement: 4" AC over 0" BASE	
16.1	106	17	D		Fill: **SANDY SILT (ML)** brown, very moist, stiff, trace gravel	120
28.0	90	15	D	5	Natural: **SILTY CLAY (CL)** brown, wet, stiff, trace porosity	
21.0	99	13	D		**SILT (ML)** brown, very moist, stiff, trace clay	115
13.3	109	13	D	10	**SILTY SAND (SM)** brown, very moist, loose	
						110
8.9	103	28	D	15	@ 14 feet, moist, medium dense	
						105
19.9	97	24	D	20	**SILT (ML)** brown, moist, very stiff	
					SILTY CLAY (CL) grey, very moist, very stiff	100
23.7		20	S	25		
						95
				30		
						90
19.9 15.7		37	S		**SILTY SAND (SM)** grey, very moist, dense	
				35	Total Depth 35 feet	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 4-13-17
EQUIPMENT USED: 8 " Hollow Stem Auger
GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2677.17I
92ND STREET ES

LOG OF BORING NO. B-2

FIGURE B-2

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS 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 actual conditions encountered.	ELEVATION (FEET)
			B	0	Pavement: 4" AC over 0" BASE Fill: **SILTY SAND (SM)** brown, slightly moist, with gravel	
9.3	95	31	D	5	Natural: **SANDY SILT (ML)** brown, moist, very stiff, trace porosity	115
					Layered **SILT (ML), and CLAY (CL)** brown, slightly moist, very stiff	
6.6	95	20	D	10	**SILTY SAND (SM)** light brown, slightly moist, medium dense	110
11.1	92	22	D	15	**SANDY SILT (ML)** brown, moist, stiff to very stiff	105
					SILTY SAND (SM) brown, moist, medium dense	
15.0	96	18	D	20	**SILTY CLAY (CL)** dark brown, moist, stiff	100
					Total Depth 20 feet	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 4-13-17
EQUIPMENT USED: 8 " Hollow Stem Auger
GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2677.17I
92ND STREET ES

LOG OF BORING NO. B-3

FIGURE B-3

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS 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 actual conditions encountered.	ELEVATION (FEET)
			B	0	Pavement: 3.5" AC over 3.5" BASE Fill: **CLAYEY SILT (ML)** brown, moist	120
15.0	98	10	D		Natural: **SANDY SILT (ML)** brown, moist to very moist, firm	
19.4	98	9	D		@ 4 feet, wet	
19.4	94	23	D	5	**CLAYEY SILT (ML)** brown, very moist, very stiff	115
4.2	89	22	D	10	**SILTY SAND (SM)** light brown, slightly moist, medium dense	110
25.5	91	17	D	15	Layered **CLAY (CL) and SILT (ML)** brown, wet, very stiff	105
18.5	109	24	D	20	**CLAY (CL)** brown, very moist, very stiff, trace sand	100
25.4		17	S	25	**SILTY SAND (SM)** brown, wet, dense **CLAYEY SILT (ML)** brown, moist, stiff	95
36.1		17	S	30	**SILTY SAND (SM)** brown, wet, medium dense Layered **SILTY SAND (SM) and CLAY (CL)** brown, very moist to wet, medium dense and stiff	90
				35	Total Depth 35 feet	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 4-13-17
EQUIPMENT USED: 8 " Hollow Stem Auger
GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2677.17I
92ND STREET ES

LOG OF BORING NO. B-4

FIGURE B-4

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS 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 actual conditions encountered.	ELEVATION (FEET)
			B	0	Fill: **CLAYEY SILT (ML)** brown, moist	
13.6	95	9	D		Natural: **SILTY SAND (SM)** brown, moist, loose, trace porosity	
11.0	102	19	D		@ 4 feet, medium dense	115
6.4	95	21	D	5	@ 6 feet, slightly moist	
26.2	92	18	D		**SANDY SILT (ML)** brown, very moist, stiff	110
				10	**SILTY SAND (SM)** brown, very moist, medium dense	
					CLAYEY SILT (ML) brown, very moist, stiff, trace porosity	
24.0	97	20	D	15		105
					SILTY SAND (SM) brown, very moist, medium dense	
13.8	99	20	D	20		100
					Layered **SILTY SAND (SM), SILT (ML), and CLAY (CL)** brown, very moist to wet, very stiff and medium dense	
24.7		18	S	25		95
				30		90
31.9 26.4		13	S		@ 34 feet, stiff	85
				35	Total Depth 35 feet	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 4-13-17
EQUIPMENT USED: 8 " Hollow Stem Auger
GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2677.17I
92ND STREET ES

LOG OF BORING NO. B-5

FIGURE B-5

APPENDIX C

APPENDIX C

LABORATORY TESTS

INTRODUCTION

Representative undisturbed soil samples and bulk samples were carefully packaged in the field and sealed to prevent moisture loss. The samples were then transported to our Cypress office for examination and testing assignments. Laboratory tests were performed on selected representative samples as an aid in classifying the soils and to evaluate the physical properties of the soils affecting foundation design and construction procedures. Detailed descriptions of the laboratory tests are presented below under the appropriate test headings. Test results are presented in the figures that follow.

MOISTURE CONTENT AND DRY DENSITY

Moisture content and dry density was determined from a number of the samples. The samples were weighed to determine the wet weight and then were dried in accordance with ASTM D 2216. After drying, the weight of each sample was measured, and moisture content was calculated. Moisture content values are presented on the boring logs in Appendix B.

ATTERBERG LIMITS

Liquid and plastic limits were determined for select samples in accordance with ASTM D 4318. The results of the Atterberg Limits tests are presented in Figure C-1.

GRAIN SIZE DISTRIBUTION

Select soil samples were dried, weighed, soaked in water until individual soil particles were separated, and then washed on the No. 200 sieve. That portion of the material retained on the No. 200 sieve was oven-dried and weighed to determine the percentage of the material passing the No. 200 sieve. A summary of the percentages passing the No. 200 sieve is presented below.

BORING NO.	DEPTH (ft)	SOIL DESCRIPTION	PERCENT PASSING No. 200 SIEVE
B-1	0 – 5	Sandy Silt (ML)	70
B-1	40	Silt (ML) with Sand	71
B-2	9	Silty Sand (SM)	31
B-3	4	Sandy Silt (ML)	51
B-4	0 – 5	Sandy Silt (ML)	51
B-5	0 – 5	Silty Sand (SM)	48
B-5	24	Sandy Silt (ML)	56

DIRECT SHEAR

Direct shear tests were performed on select samples in accordance with ASTM D 3080. Tests were performed on relatively undisturbed samples and samples remolded to 90 percent relative compaction. The sample was placed in the shear machine, and pre-selected normal loads were applied. The sample was submerged, allowed to consolidate, and then was sheared to failure. Shear stress and sample deformation were monitored throughout the test. The results of the direct shear test are presented in Figures C-2 to C-4.

CONSOLIDATION

One-dimensional consolidation testing was performed on selected undisturbed samples in accordance with ASTM D 2435. After trimming the ends, the samples were placed in the consolidometer and loaded to 0.4 or 0.5 ksf. Thereafter, the samples were incrementally loaded to a maximum load of 16.0 or 25.6 ksf. The samples were inundated at either 0.8, 1.6, or 2.0 ksf. Sample deformation was measured to 0.0001 inch. Rebound behavior was investigated by unloading the samples back to 0.4 ksf. Results of the consolidation tests, in the form of percent consolidation versus log pressure, are presented in Figures C-5 to C-7.

EXPANSION INDEX

An expansion index test was performed on a bulk sample. The test was performed in accordance with ASTM 4829, to assess the expansion potential of on-site soils. The results of the test are summarized below:

BORING NO.	DEPTH (ft)	SOIL DESCRIPTION	EXPANSION INDEX
B-4	0 - 5	Sandy Silt (ML)	23

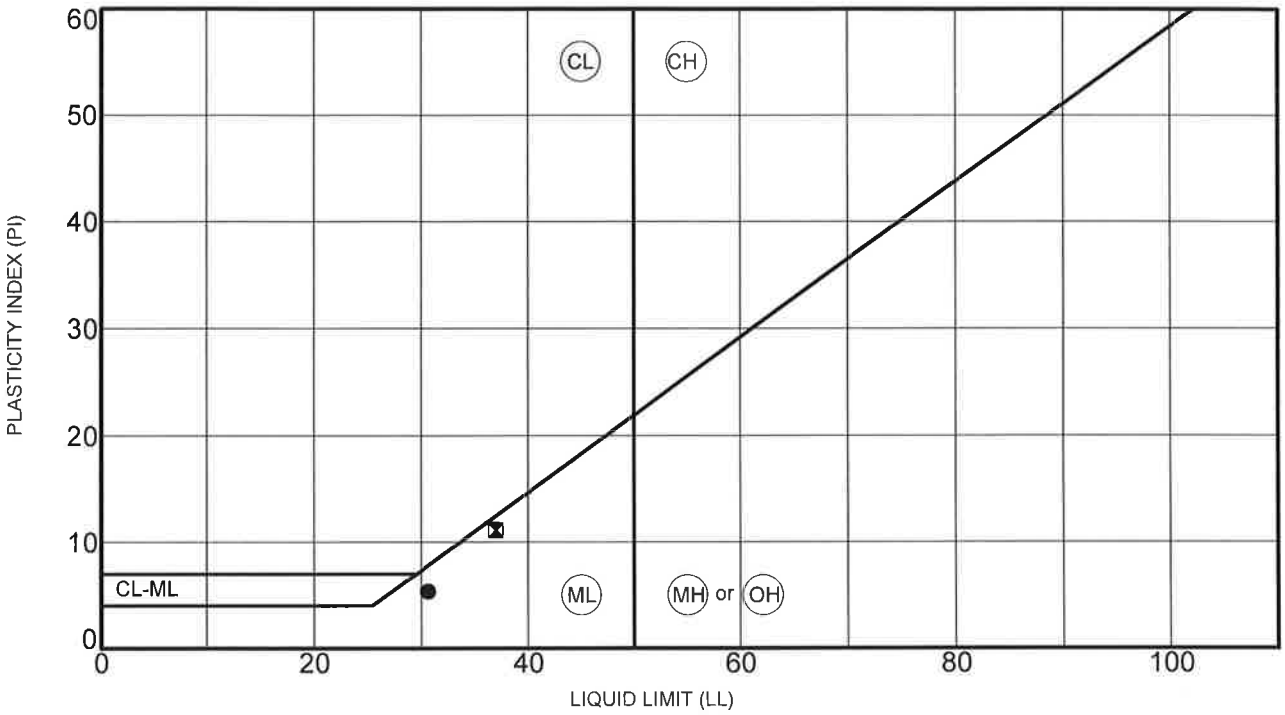
COMPACTION TEST

A maximum dry density/optimum moisture test was performed in accordance with ASTM D1557 on a representative bulk sample of the surficial soils. The test results are as follows.

BORING NO.	DEPTH (ft)	SOIL DESCRIPTION	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)
B-5	0 - 5	Silty Sand (SM)	11.0	124

CORROSIVITY

Soil corrosivity testing was performed by HDR on selected soil samples provided by GPI. The test results and corrosion protection recommendations are summarized in Table 1 of this Appendix.



	SAMPLE LOCATION		LL	PL	PI	Fines, %	Classification
●	B-1	30.0	31	25	5		SANDY SILT (ML)
⊠	B-1	50.0	37	26	11		SILT (ML)

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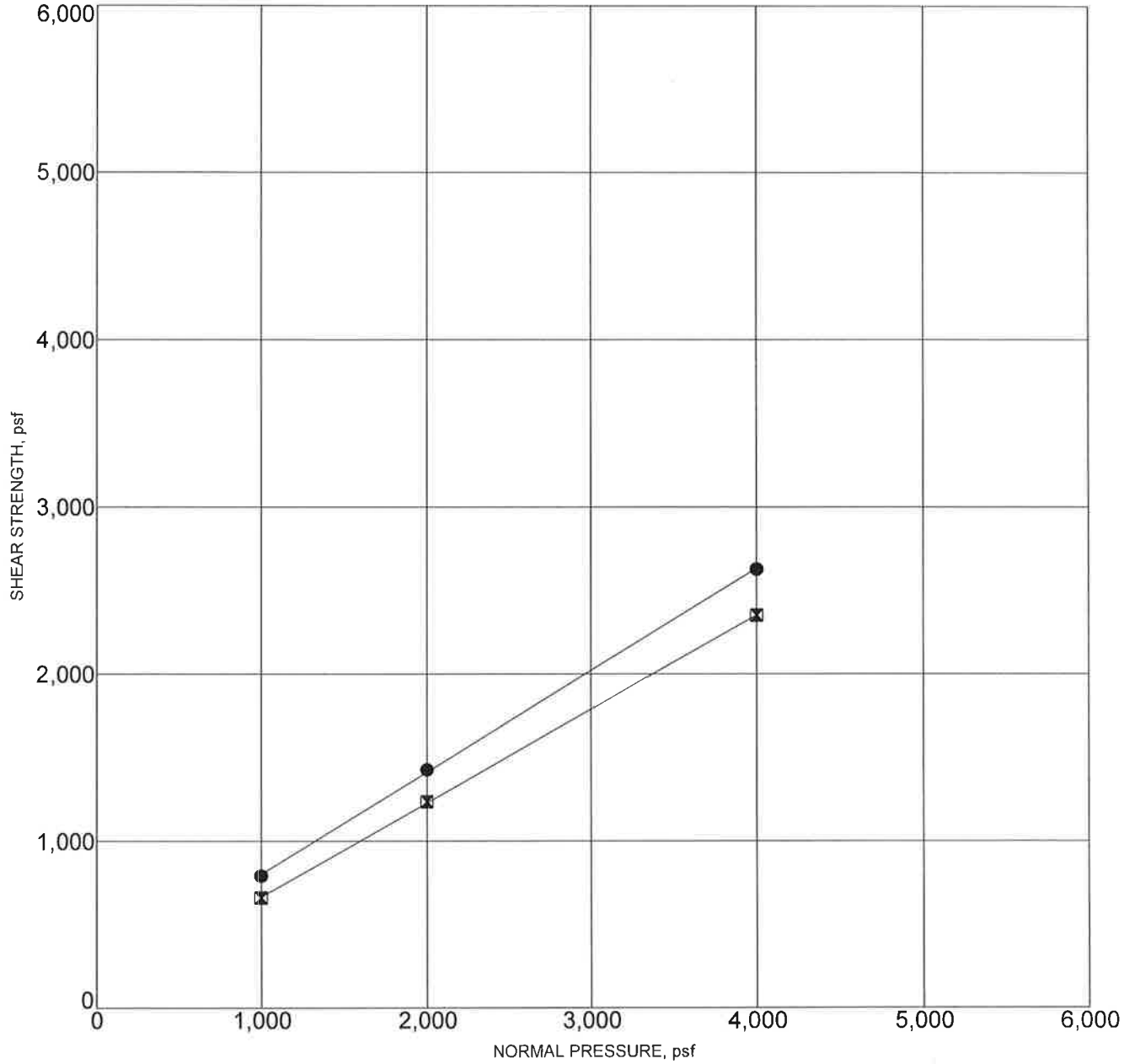
ATTERBERG LIMITS TEST RESULTS

FIGURE C-1



● **PEAK STRENGTH**
Friction Angle= 31 degrees
Cohesion= 192 psf

⧓ **ULTIMATE STRENGTH**
Friction Angle= 29 degrees
Cohesion= 102 psf

Sample Location		Classification	DD,pcf	MC,%
B-1	15.0	SANDY SILT (ML)	96	18.1

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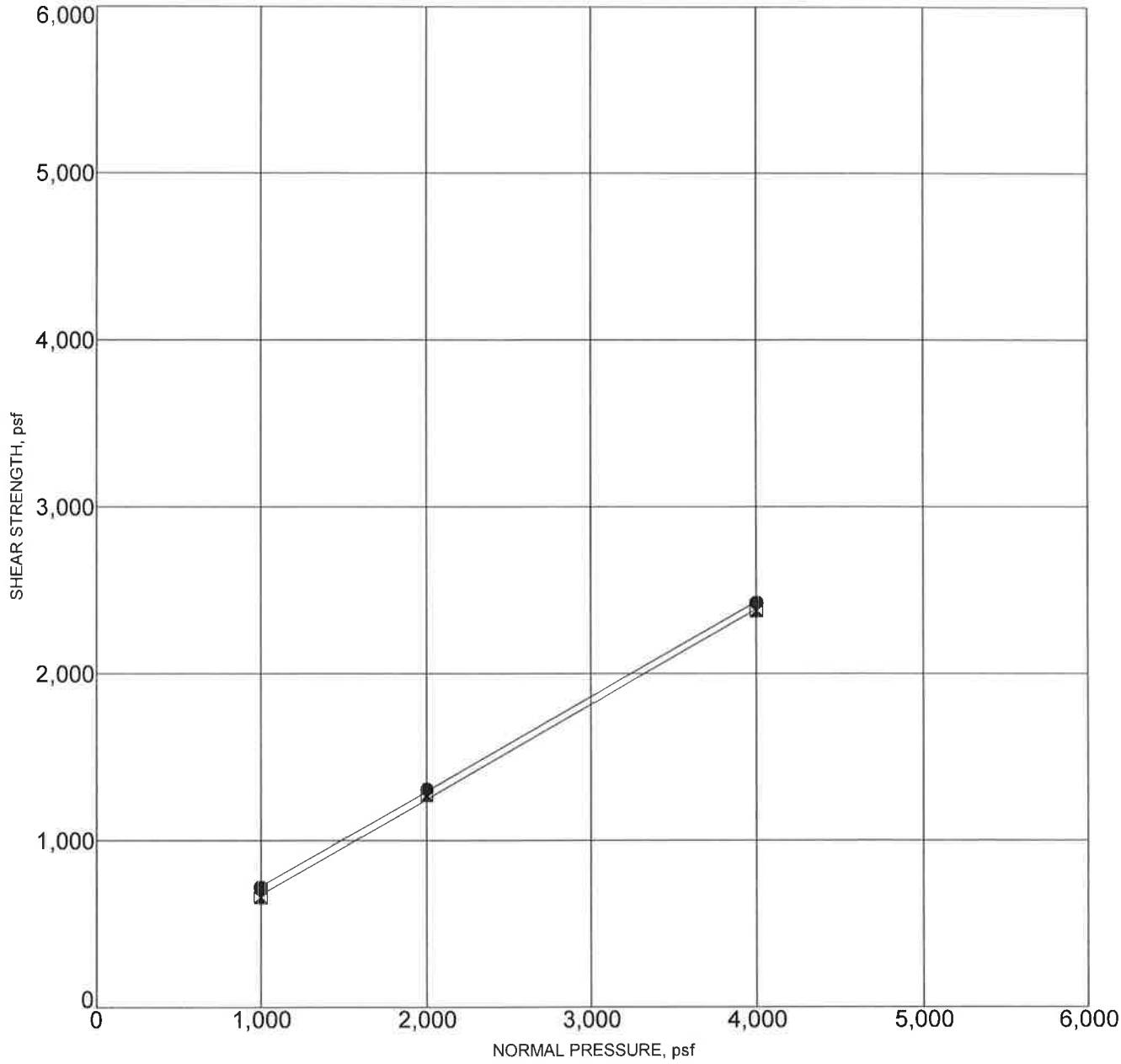
DIRECT SHEAR TEST RESULTS

FIGURE C-2



● **PEAK STRENGTH**
Friction Angle= 30 degrees
Cohesion= 162 psf

⊠ **ULTIMATE STRENGTH**
Friction Angle= 30 degrees
Cohesion= 108 psf

Sample Location		Classification	DD,pcf	MC,%
B-3	9.0	SILTY SAND (SM)	95	6.6

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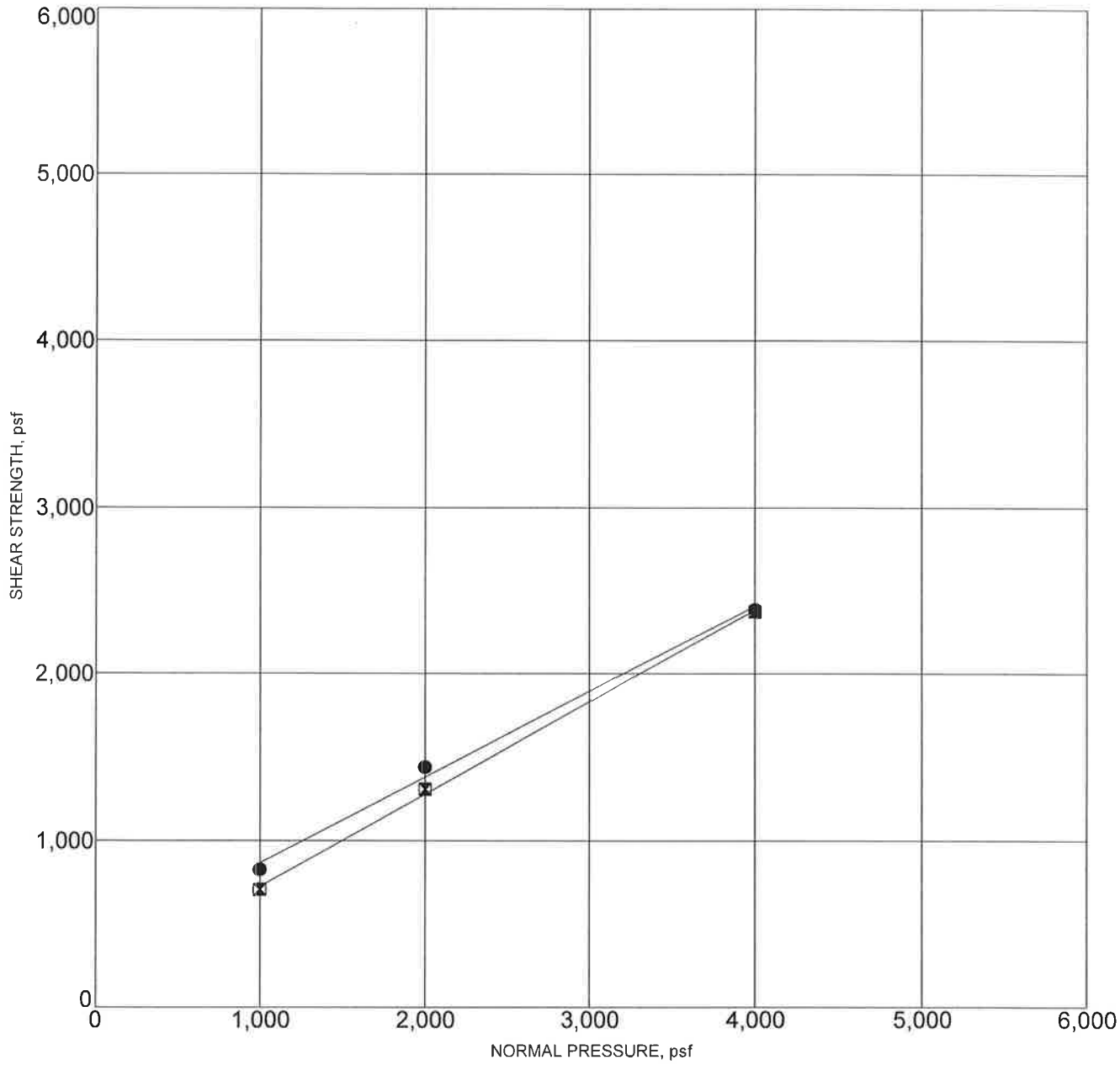
DIRECT SHEAR TEST RESULTS

FIGURE C-3



● **PEAK STRENGTH**
Friction Angle= 27 degrees
Cohesion= 354 psf

⊠ **ULTIMATE STRENGTH**
Friction Angle= 29 degrees
Cohesion= 174 psf

Note: Samples remolded to 90% of maximum dry density

Sample Location		Classification	DD,pcf	MC,%
B-5	0-5	SILTY SAND (SM)	112	11.0

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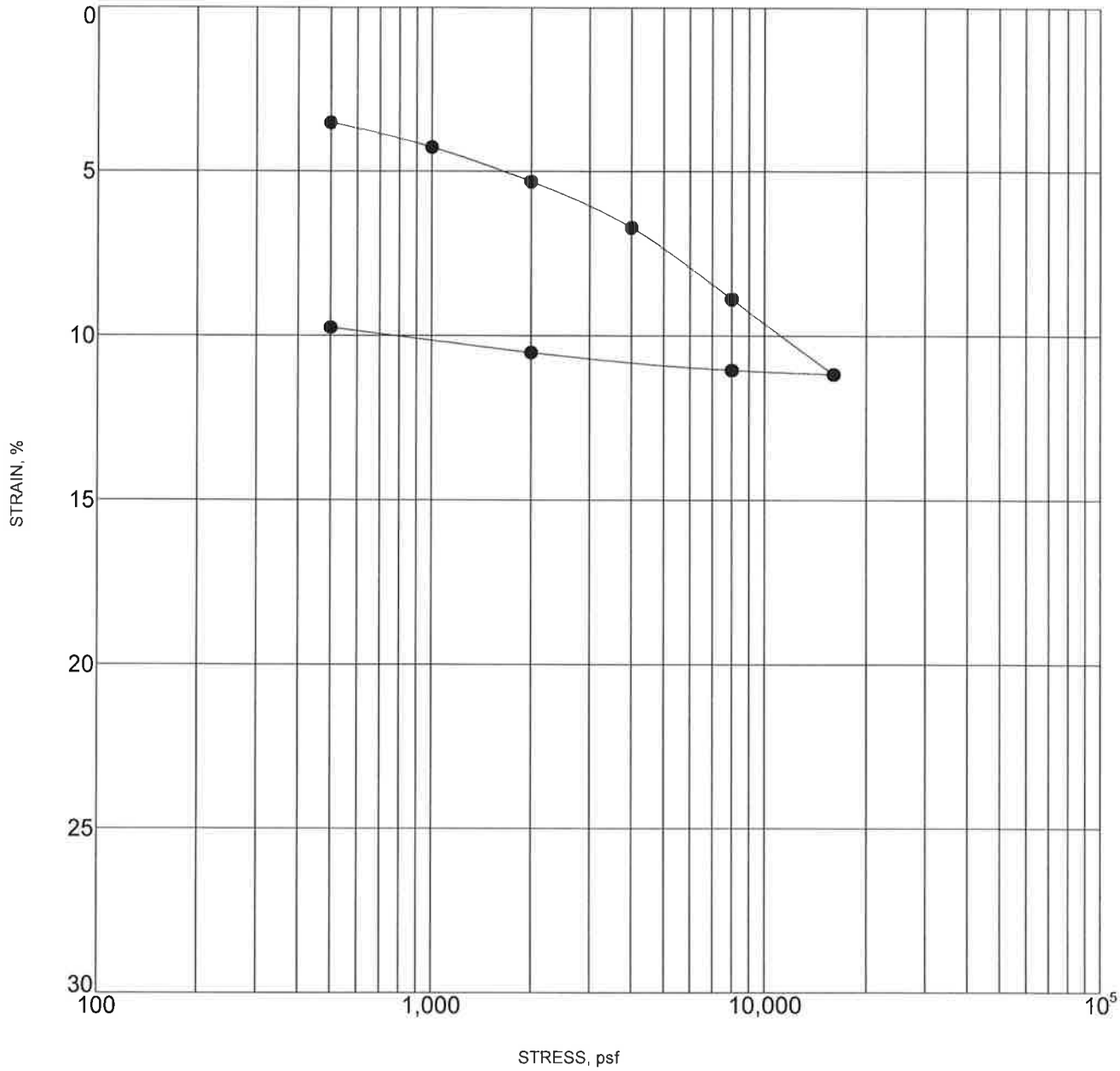
PROJECT NO.2677.17I

GPI

DIRECT SHEAR TEST RESULTS

FIGURE C-4



Sample inundated at 2000 psf

	Sample Location		Classification	DD,pcf	MC,%
●	B-1	25.0	SILTY CLAY (CL)	95	26.5

PROJECT: 92ND STREET ES PROJECT NO.: 2677.17I

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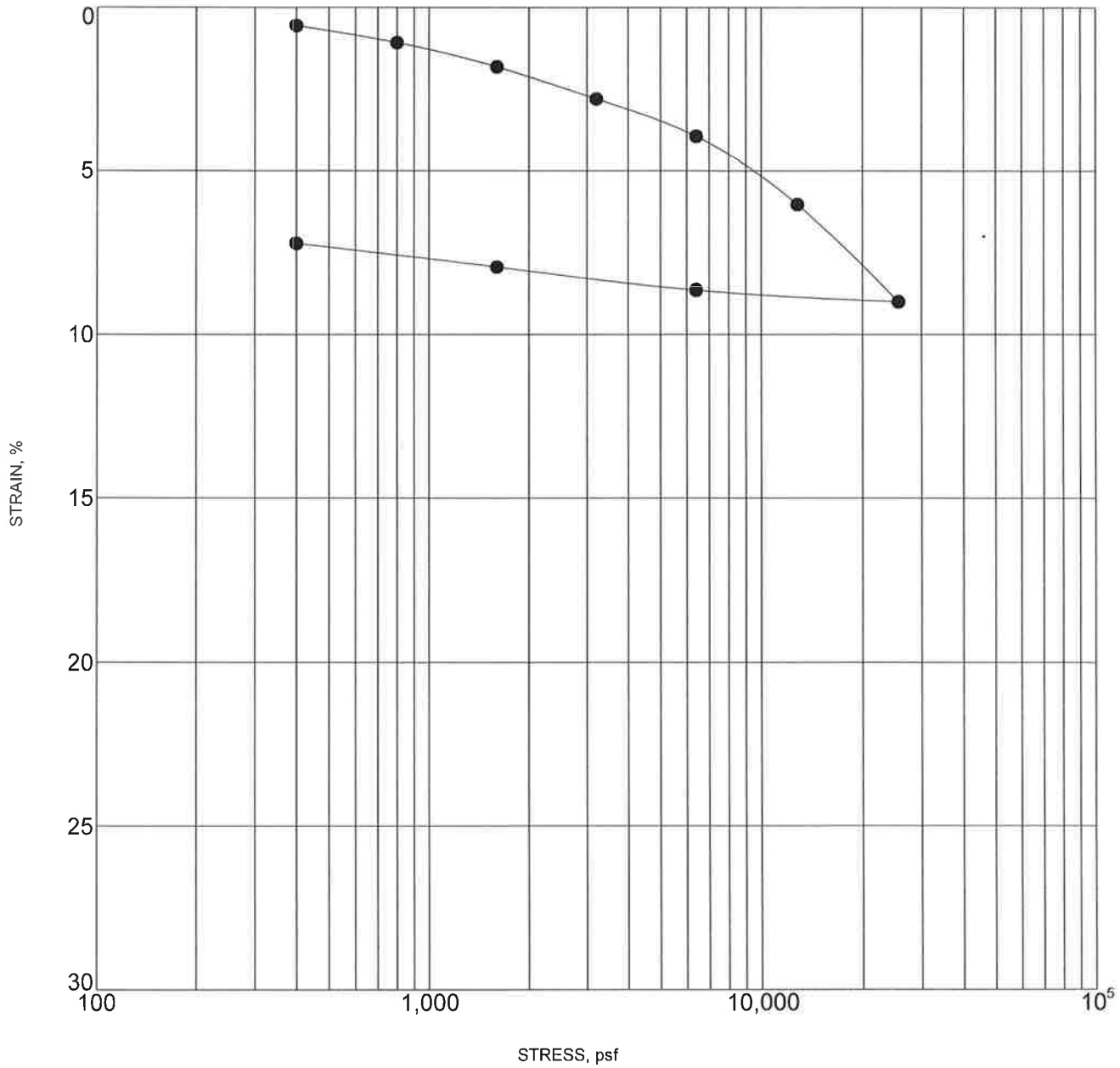
CONSOLIDATION TEST RESULTS

FIGURE C-5



Sample inundated at 800 psf

	Sample Location		Classification	DD,pcf	MC,%
●	B-2	6.0	SILT (ML)	99	21.0

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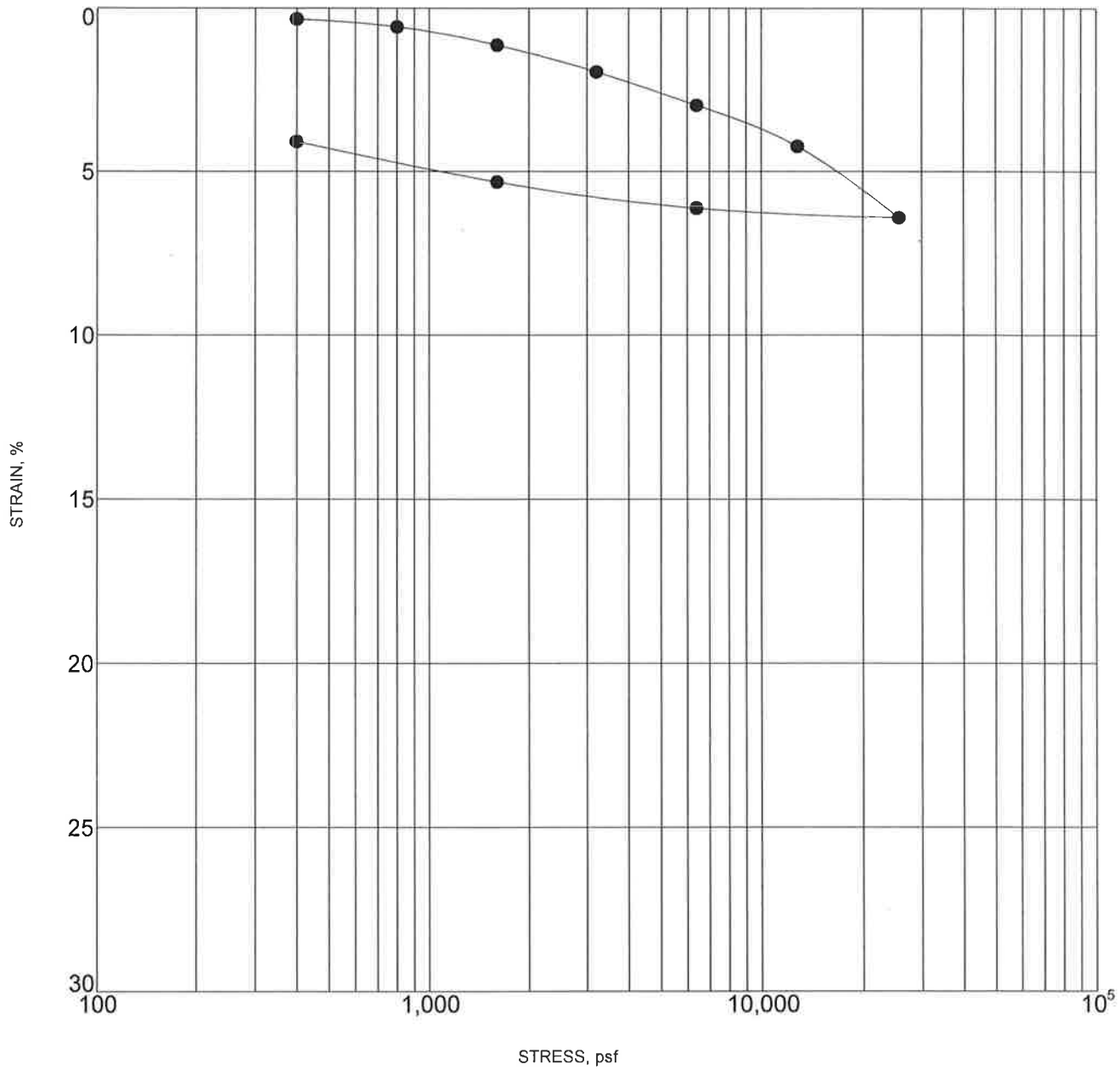
CONSOLIDATION TEST RESULTS

FIGURE C-6



Sample inundated at 1600 psf

	Sample Location		Classification	DD,pcf	MC,%
●	B-4	14.0	SILT (ML)	91	25.5

PROJECT: 92ND STREET ES

PROJECT NO.: 2677.17I

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CONSOLIDATION TEST RESULTS

FIGURE C-7

Table 1 - Laboratory Tests on Soil Samples

Geotechnical Professionals, Inc.
92nd Street E.S.
Your #2677.17I, HDR Lab #17-0274LAB
26-Apr-17

Sample ID			B-5 @ 0-5'
Resistivity		**Units**	
as-received		ohm-cm	27,200
saturated		ohm-cm	2,600
pH			7.4
Electrical Conductivity		mS/cm	0.11
Chemical Analyses			
Cations			
calcium	Ca^{2+}	mg/kg	60
magnesium	Mg^{2+}	mg/kg	4.6
sodium	Na^{1+}	mg/kg	79
potassium	K^{1+}	mg/kg	6.1
Anions			
carbonate	CO_3^{2-}	mg/kg	ND
bicarbonate	HCO_3^{1-}	mg/kg	207
fluoride	F^{1-}	mg/kg	ND
chloride	Cl^{1-}	mg/kg	15
sulfate	SO_4^{2-}	mg/kg	75
phosphate	PO_4^{3-}	mg/kg	5.5
Other Tests			
ammonium	NH_4^{1+}	mg/kg	ND
nitrate	NO_3^{1-}	mg/kg	20
sulfide	S^{2-}	qual	na
Redox		mV	na

Resistivity per ASTM G187, Cations per ASTM D6919, Anions per ASTM D4327, and Alkalinity per APHA 2320-B.
Electrical conductivity in millisiemens/cm and chemical analyses were made on a 1:5 soil-to-water extract.
mg/kg = milligrams per kilogram (parts per million) of dry soil.
Redox = oxidation-reduction potential in millivolts
ND = not detected
na = not analyzed

431 West Baseline Road · Claremont, CA 91711
Phone: 909.962.5485 · Fax: 909.626.3316

APPENDIX D

APPENDIX D

GEOLOGIC-SEISMIC HAZARD EVALUATION

INTRODUCTION

This geologic and seismic assessment presents a summary of geologic and seismic conditions at 92nd Street Elementary School located at 9211 Grape Street in Los Angeles, California. The purpose of this assessment was to identify and evaluate geologic constraints, which are likely to be factors with respect to the proposed development. In order to accomplish this objective, the following scope of services was performed:

- Research and review of available published and unpublished geologic literature and maps pertaining to the site and vicinity (see References), as well as subsurface exploration data from our recent investigation.

- Geologic analysis of the reviewed information.

- Preparation of this assessment report, which includes a summary of the researched information and a discussion of the possible geologic-seismic hazards that may affect the subject site and the proposed construction.

SITE CONDITIONS

The subject school site is approximately 7.65 acres and is located in an older residential neighborhood of suburban Los Angeles.

Site topography at the school is relatively flat, with ground surface elevations ranging from approximately 117 to 122 feet. Within the vicinity of the site, the ground surface slopes very gradually to the south.

REGIONAL AND LOCAL GEOLOGIC SETTING

Regional Geology

The proposed school site is located in the Central Block of a regional geologic structure termed the Los Angeles Basin, a northeast-trending structural basin filled with Tertiary age marine sedimentary rocks mantled by Recent and Pleistocene age non-marine alluvial sediments deposited by washes and streams flowing southward from the San Gabriel Mountains, Elysian, and Repetto Hills to the north.

In the area of the site, the marine deposits are overlain by approximately 20 feet of Holocene alluvium, which consist of loose to dense sands, silty sands, and silts. The Pleistocene alluvium consists of moderately to well consolidated, late Pleistocene alluvium, consisting of gravel, sand, silt and clay (Department of Water Resources, 1961).

The nearest geologic structures to the site are the Puente Hills Blind Thrust and Newport-Inglewood Zone of deformation, both considered active fault zones. Deformation and uplift along the Newport-Inglewood fault zone has resulted in a northwest trending series of hills, including Signal Hill and the Dominguez Hills to the southeast of the site, and the Baldwin Hills to the west and northwest of the site. Based on published maps and the USGS Source Parameter website (see References), the site is approximately 2.4 kilometers and 6.0 kilometers from the closest known traces of the Puente Hills Blind Thrust and Newport-Inglewood fault, respectively (see Table 1).

Regionally the site is located near the border between two of California's geomorphic provinces, the Transverse ranges to the north and the Peninsular Ranges to the south. The Transverse Ranges are characterized by east-west trending mountain ranges, including the Santa Monica and San Gabriel Mountains, that are oriented oblique to the trend of the other major structural trends in California, including the San Andreas Fault, Sierra Nevada Mountains, and other mountain ranges in Southern California, which trend northwesterly.

The Peninsular Ranges are characterized by northwesterly trending active faults and mountain ranges related to the San Andreas and other major fault systems in the province. The province extends from the Los Angeles Basin, where the project is located, southeast to Baja California.

Site Geologic Conditions

The site is underlain by Quaternary age alluvial sediments mapped as younger, alluvial plain deposits. These sediments are described as loose to medium dense, very coarse- to very fine-grained sand, gravel, and silt. (CGS, 1998). The geologic conditions in the site area are shown on the quaternary Geologic Map, Figure D-1.

As encountered in our exploratory borings at depths ranging from 20 to 60 feet, the soils consist of shallow undocumented fill soils over natural younger and older alluvial soils. The fill soils at the boring locations consisted of moist to wet silts, clayey silts, and sandy silts, with lesser amounts of silty clay and silty sand. The fill soils are likely undocumented and relatively old, given the age of the high school.

The underlying natural materials consisted predominantly of stiff to very stiff silts, sandy silts, silty clays, and clays, with lesser deposits of medium dense to dense silty sands and sands. In the northern half of the site, the sandy soils were encountered typically between depths of 10 to 20 feet, 35 to 40 feet, and 55 to 60 feet. In the southern half of the site, the sandy soils were typically encountered between depths of 5 to 10 feet, 20 to 28 feet, and 50 to 55 feet. The natural soils are generally moist to wet, with higher moisture contents encountered within the fine-grained soils.

Groundwater Conditions

Data published by the State of California indicates that historical high groundwater depth in the site vicinity is approximately 8 to 10 feet below existing grades. Groundwater was not encountered in our borings drilled to depths of 60 feet below the existing grades. Details of the groundwater depths in the site vicinity are shown on the Groundwater Map, Figure D-3.

TECTONIC SETTING

Regional Fault Systems

The geologic structure of southern California is dominated by northwest trending faults associated with the San Andreas Fault System. Faults such as the Newport-Inglewood, Whittier, Palos Verdes Hills and San Jacinto are all considered active and are all associated with the San Andreas, which collectively form the boundary between the North American and Pacific tectonic plates. Most of these faults have ruptured the ground surface historically and/or produced significant earthquakes.

Anomalous to the general northwest structural fabric are a series of active west trending reverse or thrust faults. The majority of these occur as north dipping planes projecting along the southern base of the Santa Monica and San Gabriel Mountains in the greater Los Angeles area. The known active thrust faults in the region include the Cucamonga, Sierra Madre, San Fernando, Raymond, Santa Monica and Hollywood faults.

Concealed Faults

Another category of fault known as "blind thrusts" was recognized as a significant seismic hazard following the 1987 magnitude 6.0 Whittier Narrows Earthquake and then again by the 1994 San Fernando magnitude 6.7 Earthquake. A blind thrust is a deeply buried shallow dipping thrust fault, which does not project to the ground surface. Blind thrusts are capable of generating a major earthquake that may cause uplift in the form of anticlinal hills. Some uplands that surround the Los Angeles Basin, including the Elysian Park and Repetto Hills, are products of blind thrusts. Because blind thrusts do not intersect the ground surface, primary surface fault rupture is considered unlikely. Major portions of the Los Angeles Basin are now believed to be underlain by various blind thrusts ramps. Due to continued north-south convergence (shortening) across the Los Angeles Basin, slippage along these features will generate earthquakes.

At the present time, the potential magnitudes and recurrence intervals of blind thrust produced earthquakes cannot be quantified with confidence due to the fact that many characteristics of these features (including areal extent and Quaternary slip rates) are poorly understood. Nonetheless, the proximity to densely populated urban centers and their history of producing damaging earthquakes clearly demonstrate the risk that blind thrusts pose to large metropolitan areas such as Los Angeles and surrounding cities.

Nearby Seismogenic Sources

We reviewed the 2008 National Seismic Hazard Maps Source Parameters (USGS, 2008) to identify known active faults within a 100 km radius of the project site. The names and distances of the faults lying within 25 kilometers of the project site are provided in the following table (Table 1). We present a map showing the significant regional faults in Figure D-3, Regional Fault Map.

Table 1 – Significant Regional Faults

Fault Name	Approximate Distance* (km)
Puente Hills Blind Thrust (Los Angeles)	2.4
Newport-Inglewood	6.0
Puente Hills Blind Thrust	7.5
Puente Hills Blind Thrust (Santa Fe Springs)	10.3
Elysian Park (Upper)	12.8
Santa Monica	17.8
Elsinore	18.0
Hollywood	18.4
Raymond	18.9
Puente Hills (Coyote Hills)	19.0
Palos Verdes	20.2
Verdugo	21.3

* Defined as the closest distance to projection of rupture area along fault trace.

The site does not lie within an Alquist-Priolo Earthquake Fault Zone as designated by the California Geological Survey (Hart, 1997). Surface faults have not been mapped projecting towards or through the site area.

Brief details for some of the faults closest to the subject site are as follows:

Puente Hills Blind Thrust

The Puente Hills Blind Thrust (Shaw, 1999) is a north dipping blind thrust extending from the Santa Fe anticline northward to the Montebello anticline. Movement on the fault is responsible for the 1987 Whittier Narrows earthquake. Research on the earthquake and its aftershocks, as well as fault plane reflections, have resulted in the conclusions that the fault is located between 3 and 7 kilometers below sea level. Data on the slip rate and possible recurrence intervals are still being researched.

Newport-Inglewood Fault

The Newport-Inglewood Fault forms the southwesterly side of the Los Angeles Basin and is defined by a series of low disconnected hills and mesa surfaces. Strike slip faulting is associated with anticlinal folding. This has resulted in the accumulation of petroleum resources along its entire length from offshore Newport Beach to the Santa Monica Mountains. In 1933 the destructive Long Beach Earthquake occurred on the fault just offshore of Newport Beach. The event caused considerable damage and a high loss of life. Since then the various strands of the fault have produced many

minor earthquakes, all of which have been at a magnitude of 4.5 or less. The fault lies at a distance of approximately 3.7 miles to the southwest of the project sites at its closest approach. A maximum earthquake magnitude of 6.9 and slip rate of 1.0 mm/yr has been assigned to the fault.

Elysian Park Blind Thrust

The north to south structural convergence in the region is a result of deep-seated fault movement along features called "blind thrusts". These are buried low angle north and some south dipping faults which do not project to the ground surface but cause uplift by folding during major earthquakes. In 1987, the magnitude 5.9 Whittier Narrows Earthquake occurred on a previously unknown blind thrust, which has now been given the name Elysian Park Blind Thrust or Structural Zone. This fault underlies the Elysian Park Hills at 3 km and deepens northward to 10 km of depth. Because of the 1987 event, the fault has been placed into an active category and has been tentatively mapped to underlie a major portion of the eastern Los Angeles Basin and adjacent San Gabriel Valley to the north. Subsequent to this earthquake was the 1994 M6.7 Northridge Earthquake in the San Fernando Valley. This earthquake occurred along a previously unknown similar blind thrust fault. This type of active faulting and resulting earthquake activity are considered relatively common in regions undergoing convergence. The Elysian Park Thrust has a length of 34 km, slip rate of 1.50 mm/yr and is capable of generating a maximum earthquake of M6.7 (Shaw and Suppe, 1996).

SEISMIC EXPOSURE

As is the case with most locations in Southern California, the subject site is located in a region that is characterized by moderate to high seismic activity. The project site and vicinity has experienced strong ground shaking due to earthquakes in historic time. The locations of earthquake epicenters with respect to the subject site are shown graphically on Figure D-4, Regional Seismicity.

SECONDARY SEISMIC EFFECTS

General

Secondary effects of seismic activity normally considered as possible hazards to a particular site include several types of ground failure as well as induced flooding. Various types of ground failures, which might occur as a consequence of severe ground shaking of a site include landsliding, ground subsidence, ground lurching, shallow ground rupture and liquefaction. The probability of occurrence of each type of ground failure depends on the severity of the earthquake, distance from faults, topography, subsoils and groundwater conditions, in addition to other factors. Based on a review of available published literature, landsliding, ground subsidence, ground lurching and shallow ground ruptures are considered unlikely at the site.

Various types of seismically induced flooding, which may be considered as potential hazards to a particular site, include flooding due to a tsunami (seismic sea wave), a seiche, or failure of a major water retention structure upstream of the project. Since the site is

located approximately 11 miles inland from the Pacific Ocean at an elevation of approximately 120 feet above mean sea level, and since it does not lie in close proximity to an enclosed body of water, the probability of flooding due to a tsunami or seiche is considered to be nonexistent.

Liquefaction Considerations

Loosely compacted/deposited granular soils located below the water table can fail through the process of liquefaction during strong earthquake-induced ground shaking. In this process, there is a rapid decrease in shearing resistance of cohesionless soils, caused by a temporary increase in the pore water pressure. Factors known to influence liquefaction potential include soil type and depth, grain size, relative density, ground-water level, degree of saturation, and both intensity and duration of ground shaking.

As a result of liquefaction, a typical building structure may be exposed to several hazards, including liquefaction-induced settlement, foundation bearing failure, and lateral displacement or lateral spreading. The surface manifestation of liquefaction in deeper soil deposits often takes place in the form of sand boils and ground subsidence. Such phenomena often lead to loss of adequate support for building foundations (bearing failures) and cause tilting, excessive movement and cracking of superstructures. The severity of ground subsidence depends largely on the relative thickness of the surficial non-liquefiable layer compared to the thickness of layers undergoing liquefaction.

According to the published State Seismic Hazard Zones map for the Los Angeles Quadrangle, the site is located in an area designated by the State Geologist as a "zone of required investigation" due to the potential for earthquake-induced liquefaction. Details of the liquefaction potential in the vicinity of the site are shown on Figure D-5, Seismic Hazard Map. For details and results on our liquefaction and seismic settlement evaluation, refer to Section 4.2.3 in the text of our report.

SUMMARY OF GEOLOGIC CONSTRAINTS

Based on the results of our geotechnical investigation and a review of the information provided in the referenced literature, it is recommended that the following geologic constraints be taken into account during the initial planning stages of the proposed development.

- The subject site is located in a seismically active area of southern California. The type and magnitude of seismic hazards that may affect the site are dependent on both the distance to causative faults and the intensity and duration of the seismic event. The subject site will likely experience strong ground shaking caused by earthquakes on active, regional faults in the future. The proposed project should be designed and constructed in accordance with the seismic design parameters provided in the building code and our final geotechnical investigation report.

- Faults have not been mapped projecting towards or through the site.

- The site is located in an area designated by the State Geologist as a "zone of required investigation" for liquefaction potential. Details of our liquefaction and seismic settlement evaluation are presented in Section 4.2.3 of the report. Based on this analysis, the anticipated liquefaction-induced seismic settlement at the site is on the order of ¾- to 1-inch. Therefore, the potential for liquefaction settlements to negatively impact the proposed site modifications is considered to be moderate.

- Based on a review of available published literature, landsliding, ground subsidence, ground lurching and shallow ground rupture are considered unlikely at the site.

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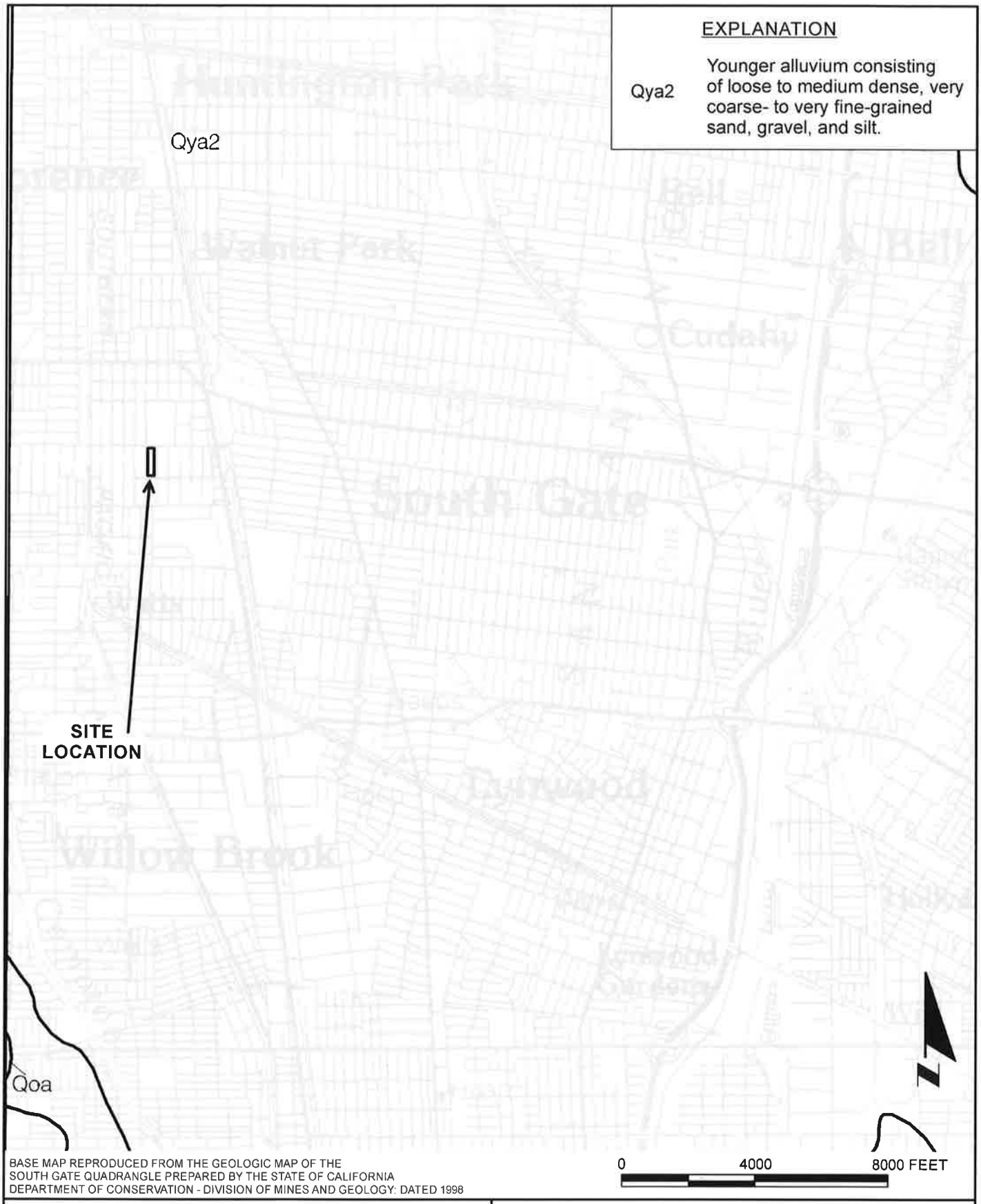


BASE MAP REPRODUCED FROM THE GEOLOGIC MAP OF THE SOUTH GATE QUADRANGLE PREPARED BY THE STATE OF CALIFORNIA DEPARTMENT OF CONSERVATION - DIVISION OF MINES AND GEOLOGY: DATED 1998

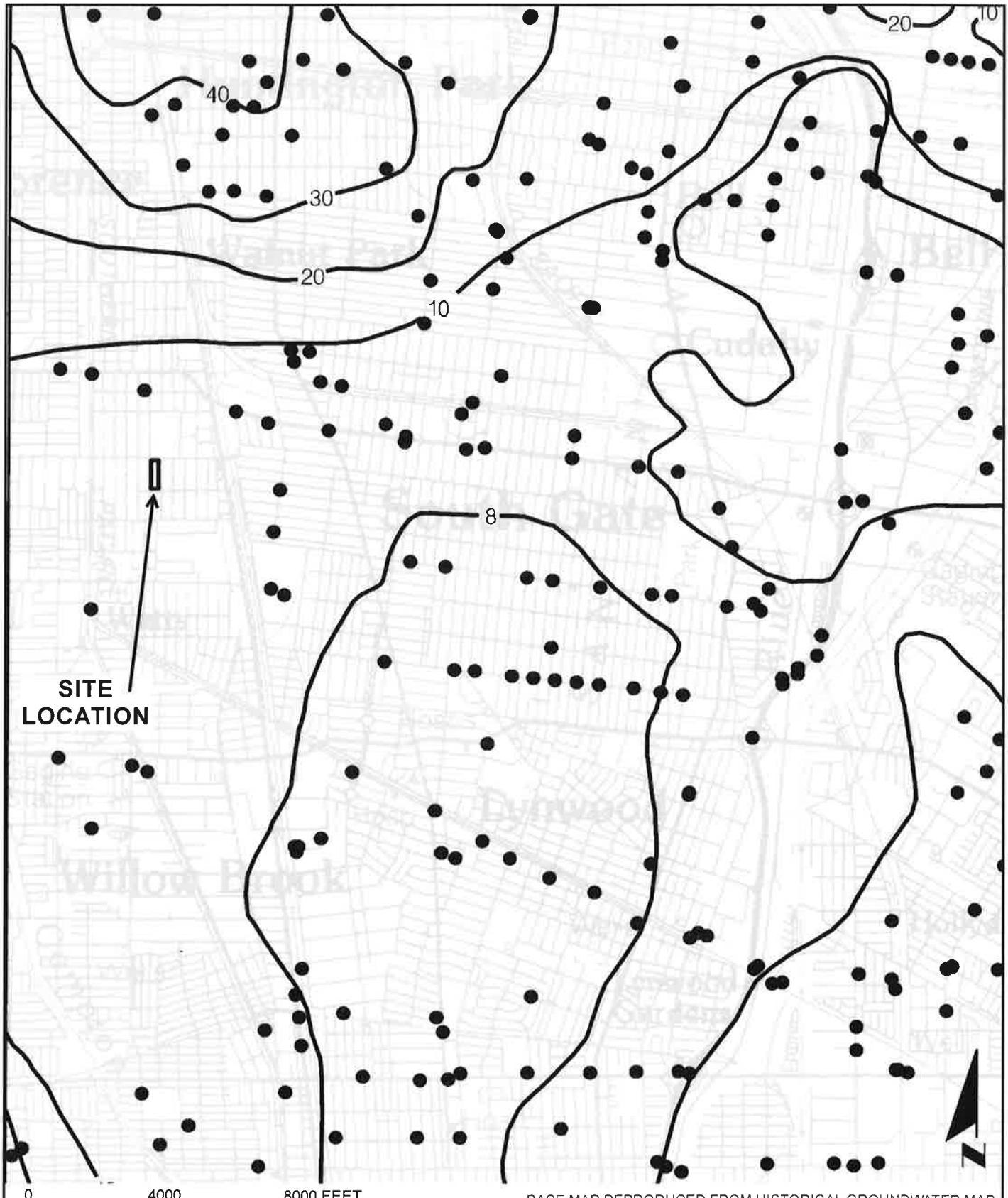
GPI GEOTECHNICAL PROFESSIONALS, INC.

92ND STREET ELEMENTARY SCHOOL

GPI PROJECT NO.: 2677.171 | SCALE: 1" = 4000'

REGIONAL GEOLOGIC MAP

FIGURE D-1



BASE MAP REPRODUCED FROM HISTORICAL GROUNDWATER MAP
(PLATE 1.2) FROM SEISMIC HAZARD ZONE REPORT 034 (1998)

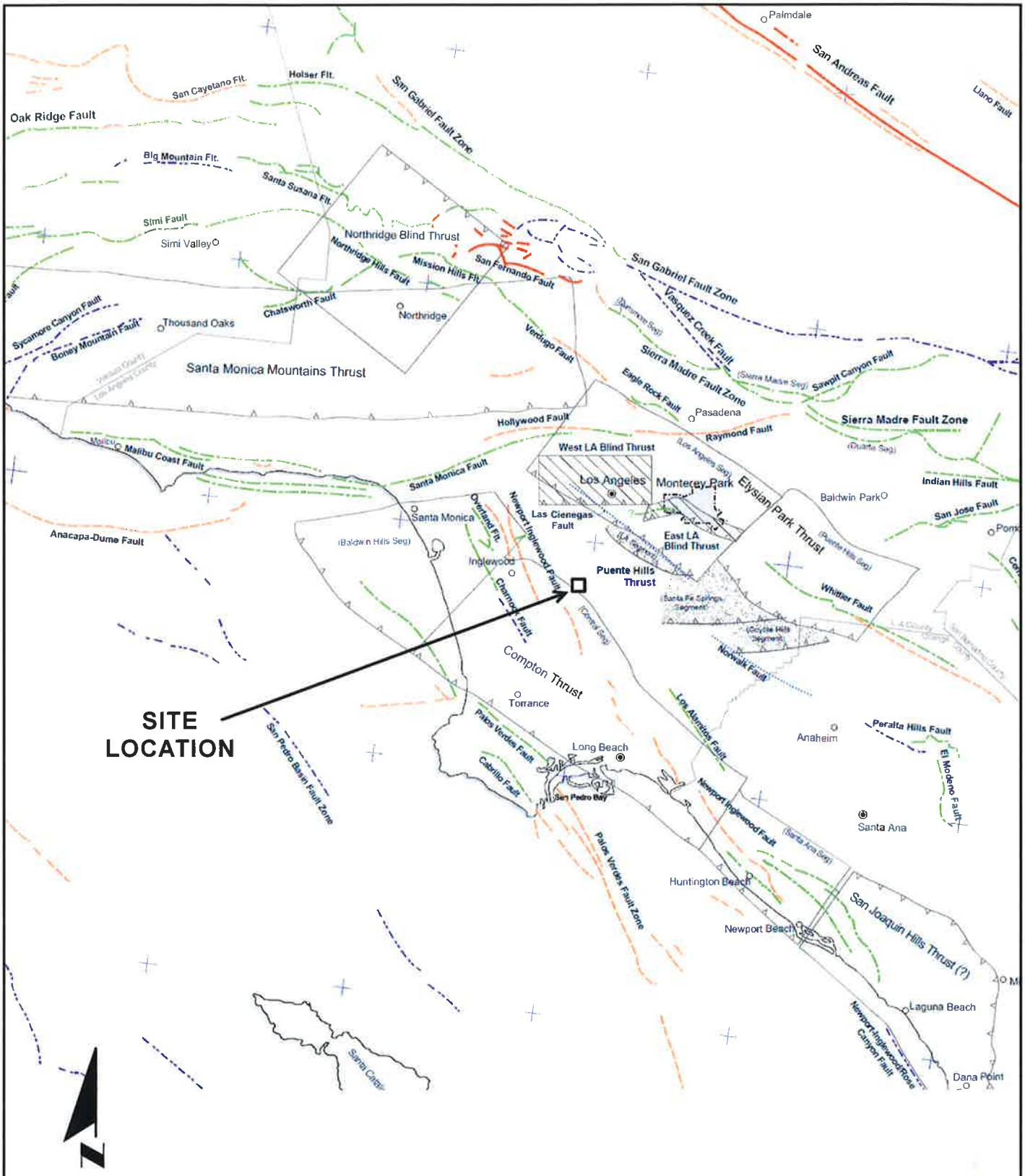
GPI GEOTECHNICAL PROFESSIONALS, INC.

92ND STREET ELEMENTARY SCHOOL

GPI PROJECT NO. 2677.17I | SCALE: 1" = 4000'

GROUNDWATER MAP

FIGURE D-2



REGIONAL FAULT MAP REPRODUCED FROM EARTHQUAKE FAULTS PLAN FROM MONTEREY PARK GENERAL PLAN BY BING YEN & ASSOCIATES, INC.: DATED JULY 2001

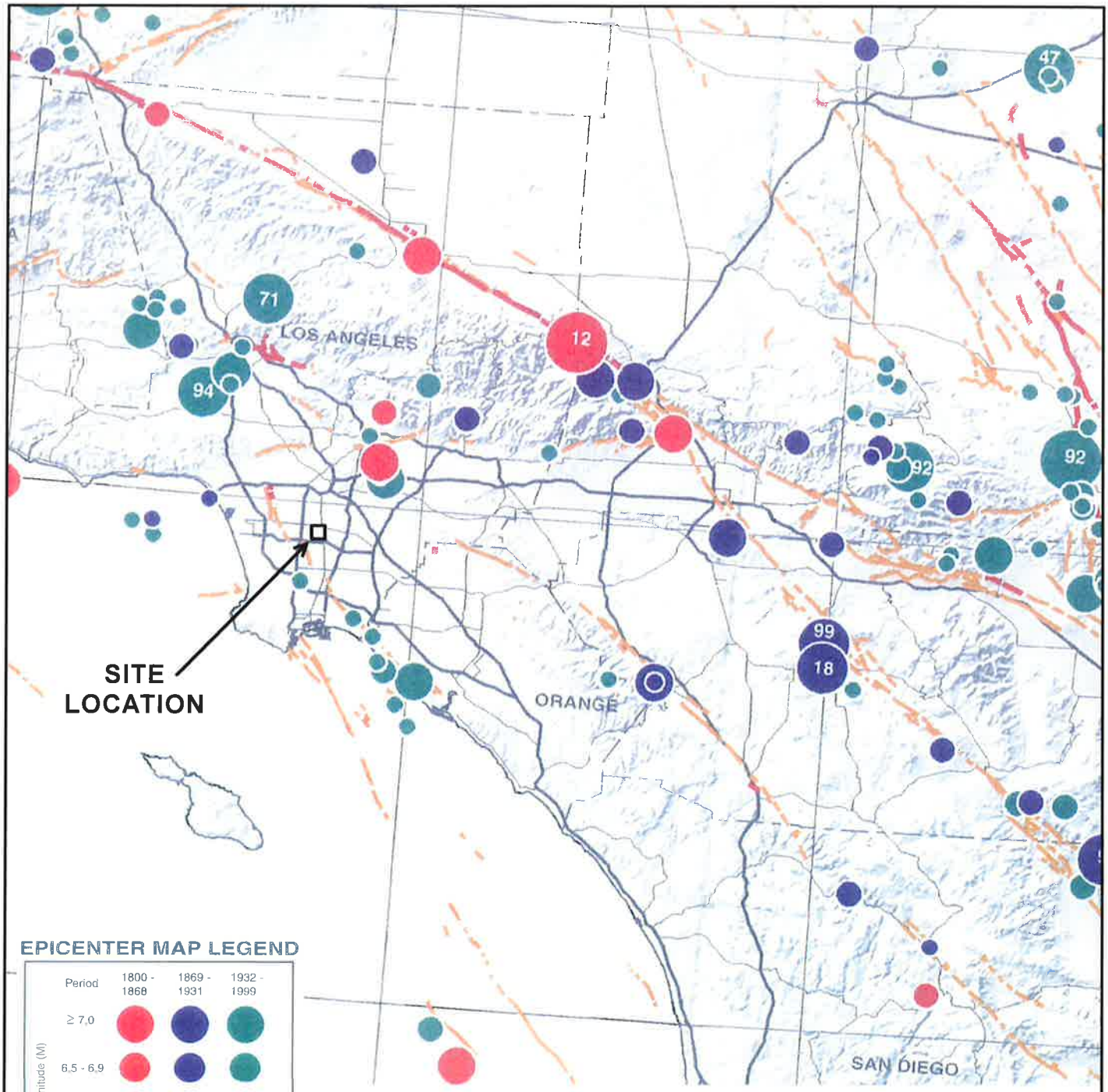
GPI GEOTECHNICAL PROFESSIONALS, INC.

92ND STREET ELEMENTARY SCHOOL

GPI PROJECT NO. 2677.171 | SCALE: 1" = 10 MILES

REGIONAL FAULT MAP

FIGURE D-3



EPICENTER MAP LEGEND

Period	1800 - 1868	1869 - 1931	1932 - 1999
Magnitude (M) ≥ 7.0			
6.5 - 6.9			
6.0 - 6.4			
5.5 - 5.9			
5.0 - 5.4			

Historical Faulting
Holocene Faulting
Highways (Major)
Highways (Minor)
Lakes

65 Last two digits of M ≥ 6.5 earthquake year

N

0 20 40 MILES

REGIONAL FAULT MAP REPRODUCED FROM EARTHQUAKE FAULTS PLAN FROM MONTEREY PARK GENERAL PLAN BY BING YEN & ASSOCIATES, INC.: DATED JULY 2001

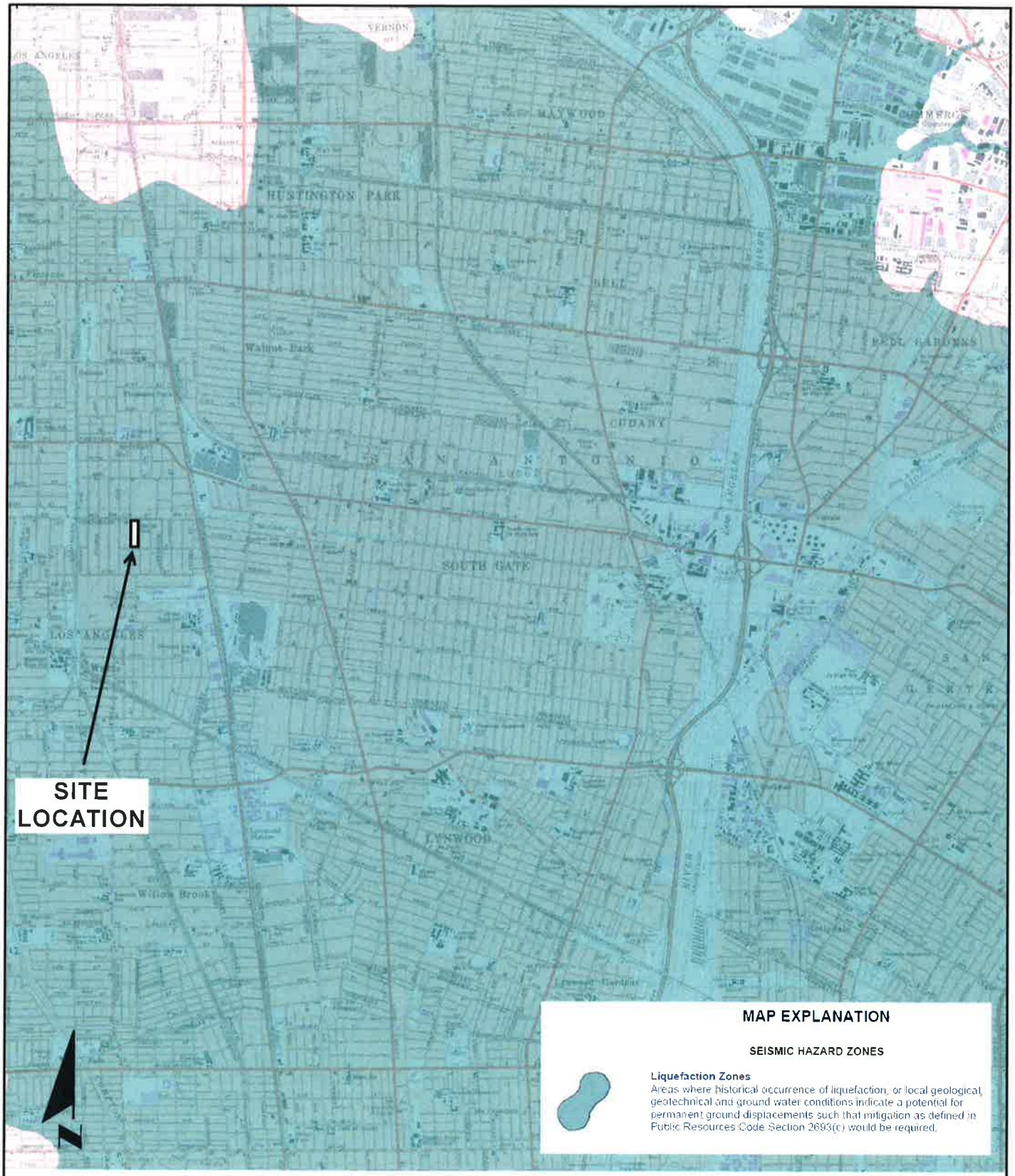
GPI GEOTECHNICAL PROFESSIONALS, INC.

92ND STREET ELEMENTARY SCHOOL

GPI PROJECT NO. 2677.171 | SCALE: 1" = 20 MILES

REGIONAL SEISMICITY

FIGURE D-4



BASE MAP REPRODUCED FROM SEISMIC HAZARD ZONES MAP FOR THE SOUTH GATE QUADRANGLE PREPARED BY THE STATE OF CALIFORNIA DIVISION OF MINES AND GEOLOGY: DATED 03/25/1999

GPI GEOTECHNICAL PROFESSIONALS, INC.

92ND STREET ELEMENTARY SCHOOL

GPI PROJECT NO. 2677.17I | SCALE: 1" = 6000'

SEISMIC HAZARD MAP

FIGURE D-5

Phase I Environmental Site Assessment

Proposed Modernization at the 92nd Street Elementary School
9211 S. Grape Street, Los Angeles, California 90002

July 28, 2017

Prepared for:

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 28th Floor
Los Angeles, California 90017

Accord Project Number 170602

Prepared by:

Accord Engineering, Inc.
2923 Pullman Street
Santa Ana, California 92705

Signatures

This Phase I Environmental Site Assessment was prepared under the supervision of the following professionals.

Rice Xiao, Ph.D., P.E.
Project Engineer

Max Pan, P.E.
Senior Project Manager

Limitations

The services described in this report were performed consistent with generally accepted professional principles and practices for environmental consulting firms. Except as set forth herein, no other warranty, expressed or implied, is made. Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the purposes, locations, time frames, and project parameters indicated. Professional opinions are based, in part, on interpretation of data from discrete monitoring or sampling locations that may not represent actual conditions at other locations that were not monitored or sampled. In some cases, interpretations may have been based on information supplied by others. This information may not have been independently reviewed. No third parties are entitled to rely on work performed or this report without written authorization by the author(s).

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List of Abbreviations and Acronyms

AEI	Accord Engineering, Inc.
AIRS	Aerometric Information Retrievel System
AST	aboveground storage tank
ASTM	American Society of Testing Materials
C-DOCKET	criminal docket system used to track criminal enforcement actions for all environmental statues
CA DWS	California Waste Discharge System
CA FID	California Facility Inventory Database
CFC	chlorofluorocarbon
CHMIRS	California Hazardous Material Information Reporting System
CSFM	California State Fire Marshall
DOCKET	enforced docket used to manage and track information on civil judicial enforcement cases for all environmental statues
DOGGR	Department of Oil, Gas, and Geothermal Resources
DTSC	Department of Toxic Substances Control
EDR	Environmental Data Resources, Inc.
EMI	Emissions Inventory Database
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
FINDS	Facility Index System
FFIS	federal facility information system
FURS	federal underground injection control
HAZNET	Facility and Manifest Data
HCFC	hydrochlorofluorocarbon
HIST UST	historical underground storage tank registered database
HS	high school
HSWA	hazardous and solid waste amendment
ID	identification
LACDPW	Los Angeles County Department of Public Works
LACFD	Los Angeles County Fire Department
LACPHI	Los Angeles County Department of Public Health Investigations
LACSD	Los Angeles County Sanitation District
LADWP	Los Angeles Department of Water and Power
LAUSD	Los Angeles Unified School District
LBP	lead-based paint
LQG	large quantity generator
LUST	leaking underground storage tank
OCP	organochlorine pesticide
PADS	PCB activity data system
PEA	Preliminary Environmental Assessment
PCB	polychlorinated biphenyls
PCS	Permit Compliance System
PSI	pounds per square inch
RCRA	Resource Conservation and Recovery Act
RCRA-LQG	Resource Conservation and Recovery Act - Large Quantity Generators
REC	recognized environmental condition
RWQCB	Regional Water Quality Control Board
SAP	sampling and analysis program
SCAQMD	Southern California Air Quality Mangement District
SCE	Southern California Edison
SCEDC	Southern California Earthquake Data Center
SIC	Standard Individual Classification
Site	Crenshaw High School proposed wellness center
SLIC	spills, leaks, investigation and clean up sites
SMBRP	Site Mitigation Brownfields Reuse Program
SQG	Small Quantity Generator
STATE	state environmental laws and statues
SWEEPS	Statewide Environmental Evaluation and Planning System
SWRCB	State Water Resource Control Board

SWRCY	statewide regulatory database
U.S. EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	underground storage tank
VCP	voluntary cleanup program

1. Introduction

At the request of the Los Angeles nified School District (LA SD), Accord Engineering, Inc. (AEI) performed a Phase I Environmental Site Assessment (ESA) for the proposed modernization at the 92nd Street Elementary School (the Site) located at 9211 S. Grape Street in the City of Los Angeles, California 90002 (**Figure 1**). The work was conducted in general accordance with the American Society of Testing Materials (ASTM) Standard Practice for Environmental Site Assessments under ASTM Designation E1527-13 and industry standards relevant and applicable to similar assessment recognized by environmental consulting industries.

This report summarizes the results of the Phase I ESA.

1.1 Objectives

The LA SD is planning to implement a modernization plan of 92nd Street Elementary School. The primary objective of this Phase I ESA was to evaluate potential environmental concerns or liabilities due to past and current land-use practices at the Site, and to identify potential on-site and off-site sources of contamination or recognized environmental conditions (RECs) at the Site per ASTM E1527-13.

A second objective was to acquire information for the LA SD Preliminary Environmental Screening of Candidate School Sites (Environmental School Site Selection Screening Criteria Checklist) that may impact the decision on the proposed modernization plan. The checklist is in compliance with the California Department of Education school site selection requirements for information regarding nearby high-voltage power transmission lines, railroads, traffic noise, faults, flood and inundation, Pipelines and Above Ground Tanks, Liquefaction and Landslides, Traffic and Pedestrian Safety, Compatible oning, Light, Wind, Air Pollution, Easements, order one Property, Cellular Phone Towers, Methane one, Oil Wells, Air Pollution, and Airports.

1.2 Scope of Work

The following scope of work was conducted for this Phase I ESA.

AEI performed an inspection of the Site to observe current land usage and existing operations; wastes handling and discharge procedures, if any; and potential releases and presence of hazardous substances. The following items were assessed during the Site reconnaissance:

- Current use of the site and immediately adjacent area.
- nderground storage tanks (STs) Aboveground storage tanks (ASTs)
- Automobile maintenance, painting, or hobbies that may have used hazardous substances
- Waste disposal pits, ponds, or lagoons located on the property
- Waste treatment or waste disposal facility on the property

- Easements which may have associated hazardous substances (petroleum pipelines)
- Railroads or railroad spurs
- Electrical transformers
- Fill material that originates off site or from an unknown source
- Illegal dumping, debris piles, and burn dumps
- Hazardous materials storage and or use
- Hazardous waste generation and storage
- Surface stains and distressed vegetation
- Potential sensitive receptors (e.g., plants, animals)
- Occupants and current use

AEI reviewed the available historical records and information listed below to identify any past on-site operations with potential environmental implications:

- Environmental Data Resources, Inc. (EDR) database report
- Sanborn fire insurance maps
- Aerial photographs
- Historical city directory lists
- Topographic maps

AEI conducted a government document search by inquiring records of the Site compiled by various government agencies for on-site or nearby operations (past and present) to aid in the identification of any potential contamination sources. In addition, the following environmental records were reviewed:

- Flood zone information
- Alquist-Priolo Fault one review
- City of Los Angeles Methane one boundaries
- Department of Oil, Gas, and Geothermal Resources (DOGGR) nearby oil-field and oil-well activity

AEI has prepared this report to summarize the finding from the above tasks. ased on the above assessments, conclusions and recommendations are made.

2. Property Description

2.1 Local and Legal Description

The Site's address and tax-assessor parcel number are summarized in **Table 2-1**. The Site coordinates are:

- Latitude (North): 33.9518850
- Longitude (West): 118.2368490

Table 2-1. Site Address and Tax Assessor Parcel Number

Street Address	Tax Assessor Number	Property Type
9211 Grape Street	6046-002-901	Other

The property owner is Los Angeles nified School District and the assessor's parcel map is presented in **Appendix A**. ased on the assessment map, the Site occupies an area of 6.06 acres.

2.2 General Description of the Site

The Site occupies 6.06 acres that is bounded by Anzac Ave on the west, Grape Street on the east, 92nd Street on the north, and 95th Street on the south. The parcel is surrounded by single-family residential development on all sides. Interstate Freeway 110 is located approximately 2.7 miles west of the Site; S Route 105 is about 1.8 miles south of the Site. Interstate Freeway 710 is 4 miles east of the Site and Interstate Freeway 10 is 5.3 miles north of the Site.

2.3 Present Occupants and Operations

The current occupants at the Site are the working staff of the 92nd Elementary School. The current layout of the Site is presented as **Figure 2.** The Site is currently occupied by ten permanent buildings and six portable buildings. Two paved parking areas on the northeast and east sides of the building. The entire area is protected by chain-linked security fencing on all four sides. The Site has been used in the function as a school as early as 1931 based on information shown on the Sanborn Fire Insurance Map.

2.4 Past Occupants and Operations

The 92nd Street Elementary School currently occupies 6.06 acres of land (based on assessor's parcel map) that was formerly residential area. The Sanborn Fire Insurance Map showed that the northern half of the Site was cleared and built with the first two buildings (uildings 1 and 2 in **Figure 2**) in the 1930s. The southern half of the Site continued to be occupied by residential

housing until at least 1950. In a 1970 Sanborn Fire Insurance Map, the entire Site was shown to be occupied by the school with no residential housing in the southern half of the Site.

The historical aerial photographs show that all the permanent buildings, as shown in **Figure 2**, were in place by 1977. Only minor changes to the layout of buildings were observed in available aerial photographs dated after 1977.

2.4.1 Township, Range, Section, and Meridian

The Site is located in the northeast quarter of the northeast quarter of Section 34, Township 1 South, Range 13 West of the San ernardino aseline and Meridian.

2.5 Closest Surface Water Body

The closest surface bodies of water to the Site is Los Angeles River, approximately 3.7 miles radius from north to east of the Site. The Site is not located in a 500-year flood plain.

2.6 Site Geology and Hydrogeology

2.6.1 Regional Site Geology

The Site is located within the Los Angeles Forebay Area, which is overlain by parts of the La rea, Downey, and Montebello Plains. The known water bearing sediments extend to a depth of approximately 1,600 feet bgs and include Recent Alluvium, the Lakewood Formation, and the San Pedro Formation.

2.6.2 Regional Site Hydrogeology

Recent Alluvium in the Los Angeles Forebay Area includes the western arm of the Gaspur Aquifer, as well as parts of the Semi-perched Aquifer and the ellflower Aquiclude lying west and south of the Los Angeles River. The Semi-perched Aquifer is defined as the interval where sand and gravel overlying the ellflower Aquiclude is approximately 10 to 20 feet in thickness. Although the Semi-perched Aquifer can be defined on well logs, monitoring data suggest that it contains little or no water. The ellflower Aquiclude consists of clay and sandy clay and ranges in thickness up to 60 feet, but in this area is relatively thin (5 to 10 feet thick). The underlying Gaspur Aquifer consists mainly of sand and gravel with a very small percentage of clay. In this area, the Gaspur Aquifer is approximately 60 to 80 feet in thickness, and extends down to a depth of approximately 160 feet bgs. The local groundwater can be found at a depth of about 45 feet and flow in a south-southwest direction towards the West Coast asin.

2.6.3 Radon

The Site area is located within nited States Environmental Protection Agency's (.S. EPA) Radon one 2, which is an area with low risk of radon exposure, according to the .S. EPA map of radon zones for California (**Appendix A**). Radon accumulation does not appear to be a concern at or near the Site.

3. Site Reconnaissance

3.1 Site Conditions

AEI conducted a reconnaissance of the Site on June 21, 2017. AEI field personnel walked the Site and inspect all buildings on the Site. Photographs were taken during the Site reconnaissance and are provided in **Appendix B**. The following observations were made:

- The entire Site is covered with hardscape with no exposed soil surface with the exception of two patches of grassy areas along the 92nd Street and three patches of grassy areas along the fence on the southwest, south, and southeast boundary of the site.
- No septic systems, cesspools, sumps, leach fields, clarifiers, or water wells were observed at the Site.
- esides classroom buildings, there a few mobile storage units on Site. The storage units are used to keep school supplies, stationary supplies, janitorial supplies, and emergency supplies (see photographs in **Appendix B**).
- No ST manhole covers, piping or STs or ASTs were observed at the Site.
- No identifiable easements containing potential subsurface hazardous substances (e.g., petroleum pipelines) were observed at the Site.
- No observed railroads or historical railroad spurs were observed at the Site.
- One pad-mounted electrical transformer (see photograph in **Appendix B**) was found near the northeast corner of the Site that appear to be providing the electrical power to the office building.
- There was no indication of illegal dumping, debris piles, or incinerators on the Site.
- There are no indications of hazardous materials storage or use on the Site.
- No overhead power lines were observed at the Site. However, transmission lines and towers were found about 300 feet to the north of 92nd Street.
- There were no observed sensitive ecological receptors such as plants and animals.
- The current occupants of the Site are administrative staff.

3.2 Adjacent Properties

The Site is surrounded by single family residential housing on all sides. During the June 21, 2017 Site reconnaissance, no other type of buildings were observed in the immediate vicinity of the Site.

3.3 Interviews

As part of the site reconnaissance, an interview with the LA SD project manager and the Plant Manager of the school was made with regard to any past releases that may have posed a health exposure risk. No such record can be identified.

4. Government Records Search

A government record search was conducted for the Site by Environmental Data Resources, Inc. (EDR) to identify potentially contaminated properties located within a 1-mile radius of the referenced assessor's parcel of the Site based on available records at the local, state, and federal levels. The EDR Radius Map Report with Geocheck that identifies these sites is presented in **Appendix C**.

The EDR Radius Map Report provides a synopsis of each site identified on the map. Each site is preceded by a number that refers to its location on the map provided by EDR. The map highlights the approximate location of sites being targeted as potential environmental concerns within close proximity of the Site. The following sections summarize AEI's review of these locations identified with potential environmental concern to the Site.

4.1 Federal RCRA CORRACTS facilities list

CORRACTS is a list of handlers Corrective Action Activity under Resource Conservation and Recovery Act (RCRA). This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity. **Table 4-1** summarizes the RCRA CORRACTS list within approximately 1 mile of the Site. The RCRA CORRACTS list is dated 12 12 2016.

Table 4-1. Federal RCRA CORRACTS List within 1 mile of the Site

Facility Name	Map ID/Page	Address	Direction/Distance	Description
GMC-GM Assembly Div	L51/165	2700 Tweedy Blvd, South Gate, CA 90280	ESE 1/2 -1/8 (0.841 mi)	• Low corrective action priority

4.2 Federal RCRA Generators List

RCRAInfo is the .S. Environmental Protection Agency's (.S. EPA) comprehensive information system, providing access to data supporting the RCRA and the HSWA (Hazardous and Solid Waste Amendments). The database includes selective information on sites that generate, transport, store, treat, and or dispose of hazardous waste as defined by RCRA.

4.2.1 Small Quantity Generators

Small Quantity Generators (SQG), as defined in the RCRA, generate between 100 kg and 1,000 kg of hazardous waste per month. **Table 4-2-1** summarizes the RCRA SQGs within approximately 0.25 miles of the Site. The RCRA SQG list is dated 12 12 2016.

Table 4-2-1. Federal RCRA SQG List within 0.25 miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
Maxon Industries Inc	12/18	8901 Juniper, Los Angeles, CA 90002	NE 1/8 – 1/4 (0.245 mi)	• No Violations Found
Jordan Downs	11/16	9800 Grape St, Los Angeles, CA 90002	S 1/8 – 1/4 (0.237 mi)	• No Violations Found

4.3 RESPONSE: State and Tribal NPL-Equivalent

RESPONSE identifies confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. Table 4-3 summarizes the facilities within 1 mile of the Site.

Table 4-3. State and Tribal NPL-Equivalent Response within 1 miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
Firestone - Parcel 3	F22/41	2405 Southern Avenue, South Gate, CA 90280	ENE 1/4 - 1/2 (0.396 mi.)	• Status: Certified O&M - Land Use Restrictions Only
Firestone - Parcel 3n	32/68	8809 Calden Avenue, South Gate, CA 90280	NE 1/4 - 1/2 (0.481 mi.)	• Status: Certified
Firestone - Parcel 1	J40/116	2525 Firestone Blvd, South Gate, CA 90280	NE 1/2 - 1 (0.649 mi.)	• Status: Active
Firestone - Engle So	K42/134	8440 Alameda Street, South Gate, CA 90280	NNE 1/2 - 1 (0.679 mi.)	• Status: Active
Watts Discovery Project	G23/44	Various Addresses Near Alameda Street, Los Angeles, CA 90002	ESE 1/4 - 1/2 (0.399 mi.)	• Status: Active
Atlas Iron And Metal Company, Inc.	34/78	10019 South Alameda Street, Los Angeles, CA 90002	SE 1/2 - 1 (0.565 mi.)	• Status: Certified O&M - Land Use Restrictions Only

4.4 EnviroStor Site List: State and Tribal CERCLIS-Equivalent

The DTSC Site Mitigation and rownfields Reuse Program (SM RP) EnviroStor database identifies sites that have known contamination or sites that may require further investigation. 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 site information, such as 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. **Table 4-4** summarizes were listed in the EnviroStor site list within approximately 1 mile radius of the Site, The EnviroStor list is dated 01 30 2017.

Table 4-4 CA EnviroStor List within 1 mile of the Site

Facility Name	Map ID/Page	Address	Direction/Distance	Description
Williams Recycling	C13/19	2225 E 92nd St., Los Angeles, CA 90002	ENE 1/4 - 1/2 (0.256 mi.)	• Status: Inactive - Action Required
R And C Recycle	20/32	9405 S Alameda St, Los Angeles, CA 90002	E 1/4 - 1/2 (0.382 mi.)	• Status: No Further Action
South Gate Townhomes Project	F21/36	2405 Southern Avenue, South Gate, CA 90001	ENE 1/4 - 1/2 (0.396 mi.)	• Status: Certified / Operation & Maintenance
Firestone - Parcel 3s	F22/41	2405 Southern Avenue, South Gate, CA 90280	ENE 1/4 - 1/2 (0.396 mi.)	• Status: Certified O&M - Land Use Restrictions Only
Firestone - Parcel 3n	32/68	8809 Calden Avenue, South Gate, CA 90280	NE 1/4 - 1/2 (0.481 mi.)	• Status: Certified
Firestone Tire & Rubber Co.	35/86	South Gate, CA	ENE 1/2 - 1 (0.583 mi.)	• Status: Inactive - Needs Evaluation
Proposed South Region High School #13, Site 3	37/98	East 85th Street And South Alameda Street, Los Angeles, CA 90001	NNE 1/2 - 1 (0.608 mi.)	• Status: Inactive - Needs Evaluation
South Gate Remedial Project	J38/99	2525 E Firestone Blvd, South Gate, CA 90280	NE 1/2 - 1 (0.649 mi.)	• Status: No Action Required
Firestone - Parcel 1a	J40/116	2525 Firestone Blvd, South Gate, CA 90280	NE 1/2 - 1 (0.649 mi.)	• Status: Active
Firestone - Engle Southern Parcel	K42/134	8440 Alameda Street, South Gate, CA 90280	NNE 1/2 - 1 (0.679 mi.)	• Status: Active
Jack Engle & Company	K43/141	8440 Alameda Street, South Gate, CA 90280	NNE 1/2 - 1 (0.679 mi.)	• Status: Active
Damille Metal Svc	45/149	8201 Santa Fe Avenue, Huntington Park, CA 90255	NNE 1/2 - 1 (0.791 mi.)	• Status: Refer: EPA
La Parkerizing Company	46/151	8205 South Alameda Street, Los Angeles, CA 90001	NNE 1/2 - 1 (0.793 mi.)	• Status: Inactive - Needs Evaluation
Prpsd Charter School At 8145 & 8205 Beach St.	47/152	8145 And 8205 Beach Street, Los Angeles, CA 90001	NNW 1/2 - 1 (0.795 mi.)	• Status: No Further Action
Proposed South Region Elementary School #9, Site 3	48/155	Firestone Boulevard/Willow Place/Santa Fe Avenue/Long Beach, South Gate, CA 90280	ENE 1/2 - 1 (0.828 mi.)	• Status: Certified

Table 4-4 CA EnviroStor List within 1 mile of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
Master Wash Products Inc	52/158	8122 Alameda St, Huntington Park, CA 90255	NNE 1/2 - 1 (0.864 mi.)	• Status: Inactive
Acme Screw Products Inc	53/172	7950 South Alameda Street, Huntington Park, CA 90255	NNE 1/2 - 1 (0.924 mi.)	• Status: No Action Required
Watts Discovery Project	G23/44	Various Addresses Near Alameda Street, Los Angeles, CA 90002	ESE 1/4 - 1/2 (0.399 mi.)	• Status: Active
Jordan Downs Redevelopment Cleanup	33/71	9901 South Alameda Street, Los Angeles, CA 90002	SE 1/2 - 1 (0.514 mi.)	• Status: Active
Atlas Iron And Metal Company, Inc.	34/78	10019 South Alameda Street, Los Angeles, CA 90002	SE 1/2 - 1 (0.565 mi.)	• Status: Certified O&M - Land Use Restrictions Only
Jordan High School	36/87	2265 East 103rd Street, Watts, CA 90002	SSE 1/2 - 1 (0.590 mi.)	• Status: No Further Action
Sphinx Manufacturing Co	41/133	2401 E 103rd St, Los Angeles, CA 90002	SE 1/2 - 1 (0.652 mi.)	• Status: * Inactive
Jorgensen Steel #3(Former	44/148	10401 Alameda St, Lynwood, CA 90002	SE 1/2 - 1 (0.785 mi.)	• Status: Refer: 1248 Local Agency
GENERAL MOTORS CORP (FORM	L49/159	2700 Tweedy, South Gate, CA 90280	ESE 1/2 - 1 (0.841 mi.)	• Needs Evaluation

4.5 LUST: State and Tribal Leaking Storage Tank Lists

The California Leaking nderground Storage Tank (L ST) List contains information pertaining to reported leaking underground storage tanks within the state of California. The L ST information was obtained from the State Water Resources Control oard (SWRC) and the Regional Water Quality Control oard (RWQC) overseeing the region containing the subject area. **Table 4-5** summarizes the L ST sites within approximately 0.5 miles of the Site.

Table 4-5. CA LUST List within 0.5 Miles of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
ABC Bins	E19/31	8801 Alameda St., Los Angeles, CA 9002	NE 1/4 - 1/2 (0.368 mi.)	• Status: Completed - Case Closed
LA City Dept Water & Power	H25/50	8627 Fir Ave, Watts, CA 90002	N 1/4 - 1/2 (0.420 mi.)	• Status: Pollution Characterization

Table 4-5. CA LUST List within 0.5 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
La City Dept Water & Power	H26/51	8627 Fir Ave, Watts, CA 90002	N 1/4 - 1/2 (0.420 mi.)	• Status: Open - Remediation
Alvarado's Tires	129/63	2225 E Firestone Blvd, Los Angeles, CA 90002	NNE 1/4 - 1/2 (0.459 mi.)	• Status: Completed - Case Closed
Jorge Mansilla Property	30/65	1950 Firestone Blvd, Los Angeles, CA 90001	N 1/4 - 1/2 (0.466 mi.)	• Status: Completed - Case Closed
G K Disposal Inc	14/23	9622 Kalmia St, Los Angeles, CA 90002	SE 1/4 - 1/2 (0.308 mi.)	• Status: Completed - Case Closed

4.6 SLIC: State and Tribal Leaking Storage Tank Lists

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. Table 4-6 summarizes were listed in the SLIC Site list within approximately 0.5 miles radius of the Site.

Table 4-6. SLIC List within 0.5 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
ESSEF - Parcel B	D15/28	9000 Graham Ave, Los Angeles, CA 90002	WNW 1/4 - 1/2 (0.340 mi.)	• Facility Status: Open - Site Assessment
ESSEF - Main Parcel	17/29	8825 Beach, Los Angeles, CA 90002	NW 1/4 - 1/2 (0.350 mi.)	• Facility Status: Open - Remediation
ESSEF - Parcel A	D18/30	8906 Graham Ave, Los Angeles, CA 90002	NW 1/4 - 1/2 (0.362 mi.)	• Facility Status: Open - Site Assessment
Mobil M-145 Pipeline	24/48	9600 Alameda, Los Angeles, CA 90002	ESE 1/4 - 1/2 (0.411 mi.)	• Facility Status: Site Assessment
Mobil M-8 Pipeline	G27/60	No Number Alameda St Near 96th St, Los Angeles, CA 90002	ESE 1/4 - 1/2 (0.423 mi.)	• Facility Status: Open - Assessment & Interim Remedial Action

4.7 UST: State and Tribal Registered Storage Tank Lists

The nderground Storage Tank (ST) database contains registered STs. STs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control oard's Hazardous Substance Storage Container Database. **Table 4-7** summarizes the CA ST sites within approximately 0.25 miles of the Site.

Table 4-7. CA UST List within 0.25 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
LA Co Dpw Road Rd Div 241	B7/11	2120 E 90th St, Los Angeles, CA 90002	NE 1/8 - 1/4 (0.193 mi.)	• Facility ID: 5392

4.8 VCP: State and Tribal Voluntary Cleanup Sites

CP 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. **Table 4-8** summarizes the CP list within approximately 0.5 mile of the Site. The CP list is dated 1 30 2017.

Table 4-8. VCP List within 0.5 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
South Gate Townhomes Project	F21/36	2405 Southern Avenue, South Gate, CA 90001	ENE 1/4 - 1/2 (0.396 mi.)	• Status: Certified / Operation & Maintenance

4.9 SWRCY: Local Lists of Landfill / Solid Waste Disposal Sites

SWRC is a listing of recycling facilities in California. The source is the State Water Resources Control oard. **Table 4-9** summarizes the CA SWRC sites within 0.5 miles of the Site, The WM DS list is dated 03 13 2017.

Table 4-9. SWRCY List within 0.5 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
Slauson Recycling	E16/28	2241 E 89th St, Los Angeles, CA 90002	NE 1/4 - 1/2 (0.348 mi.)	• Reg Id: 150420
R And C Recycle	20/32	9405 S Alameda St, Los Angeles, CA 90002	E 1/4 - 1/2 (0.382 mi.)	• Reg Id: 18705
Bestway Recycling Co Inc	I28/61	2268 E Firestone Blvd, Los Angeles, CA 90002	NNE 1/4 - 1/2 (0.426 mi.)	• Reg Id: 19251

4.10 HIST Cal-Sites: Local Lists of Hazardous Waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control but it is no longer updated by the state agency. It has been replaced by EN IROSTOR. **Table 4-10** summarizes the HIST Cal-Sites within approximately 1 mile of the Site.

Table 4-10. HIST Cal-Sites List within 1 Mile of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
Firestone Tire & Rubber Co Parcel 1a	J39/105	2525 Firestone Blvd, South Gate, CA 90280	NE 1/2 - 1 (0.649 mi.)	• Status: Annual Workplan - Active Site

4.11 SWEEPS UST: Local Lists of Registered Storage Tanks

Statewide Environmental Evaluation and Planning System (SWEEPS) ST listing was updated and maintained by a company contacted by the SWRC 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. **Table 4-11** summarizes the SWEEPs ST sites within 0.25 miles of the Site. The SWEEPS ST list is dated 06 01 1994.

Table 4-11. SWEEPS UST List within 0.25 Miles of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
Parrish, John H - Owner	B6/11	8919 S Miner St, Inglewood, CA 90301	NNE 1/8 - 1/4 (0.164 mi.)	• Status: Active

4.12 HIST UST: Local Lists of Registered Storage Tanks

The Historical nderground Storage Tank Registered Database (HIST ST) contains locations where STs previously existed. **Table 4-12** summarizes the HIST ST sites within 0.25 miles of the Site. The HIST ST list is dated 10 15 1990.

Table 4-12. CA HIST UST List within 0.25 Miles of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
LA County Road Department, Maintenance District	B9/13	2120 E 90th St, Los Angeles, CA 90002	NE 1/8 - 1/4 (0.193 mi.)	• Type of Fuel: Regular, Diesel • Leak Detection: Stock Inventor

4.13 DEED: Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes. **Table 4-13** summarizes the DEED sites within approximately 0.5 miles of the Site. The DEED list is dated 03 06 2017.

Table 4-13. DEED List within 0.5 Miles of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
South Gate Townhomes Project	F21/36	2405 Southern Avenue, South Gate, CA 90001	ENE 1/4 - 1/2 (0.396 mi.)	• Status: Certified / Operation & Maintenance

Table 4-13. DEED List within 0.5 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
Firestone - Parcel 3s	F22/41	2405 Southern Avenue, South Gate, CA 90280	ENE 1/4 - 1/2 (0.396 mi.)	• Status: Certified O&M - Land Use Restrictions Only

4.14 RCRA NonGen: Other Ascertainable Records

RCRA NonGen NLR: RCRAInfo is .S. EPA's comprehensive information system, providing access to data supporting the RCRA and the HSWA. The database includes selective information on sites which generate, transport, store, treat and or dispose of hazardous waste as defined by the RCRA. Non-Generators do not presently generate hazardous waste. **Table 4-14** summarizes the listed sites within approximately 0.5 miles of the Site.

Table 4-14. RCRA NonGen / NLR List within 0.5 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
LACDPW RMD - RD 241	B8/11	2120 East 90th Street, Los Angeles, CA 90002	NE 1/8 - 1/4 (0.193 mi.)	• No violations found

4.15 Cortese: Other Ascertainable Records

Cortese: The sites for the list are designated by the State Water Resource Control oard (L ST), the Integrated Waste oard (SWF LS), and the Department of Toxic Substances Control (Cal-Sites).**Table 4-15** summarizes the Historical Cortese sites within 0.5 miles of the Site. The date of the current list I s12 28 2016.

Table 4-15. Cortese List within 0.5 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
Watts Discovery Project	G23/44	Various Addresses Near Alameda Street, Los Angeles, CA 90002	ESE 1/4-1/2 (0.489 mi)	• Cleanup Status: ACTIVE

4.16 HIST Cortese: Other Ascertainable Records:

The sites for the list are designated by the State Water Resource Control oard, the Integrated Waste oard, and the Department of Toxic Substances Control. This listing is no longer updated by the state agency. **Table 4-16** summarizes the Historical Cortese sites within 0.5 miles of the Site. The Historical Cortese list is dated 04 01 2001.

Table 4-16. Historical Cortese List within 0.5 Miles of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
LA City Dept Water & Power	H25/51	8627 Fir Ave, Watts, CA 90002	N 1/4 - 1/2 (0.420 mi.)	• Reg Id: 900020016
Former Shell Service Stat	31/68	2323 Firestone, South Gate, CA 90280	NE 1/4 - 1/2 (0.473 mi.)	• Reg Id: 3096

4.17 HWP: Other Ascertainable Records

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor. **Table 4-17** summarizes the sites within approximately 1 mile of the Site. The FID ST list is dated 11 21 2016.

Table 4-17. Historical Cortese List within 0.5 Miles of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
Master Wash Products Inc	52/168	8122 Alameda St, Huntington Park, CA 90255	NNE 1/2 - 1 (0.864 mi.)	• Cleanup Status: Known Generators
Sphinx Manufacturing Co	41/133	2401 E 103rd St., Los Angeles, CA 90002	SE 1/2 - 1 (0.652 mi.)	• Cleanup Status: Protective Filer
General Motors Corp (Former)	L50/162	2700 Tweedy Blvd., South Gate, CA 90280	ESE 1/2 - 1 (0.841 mi.)	• Cleanup Status: Closed

4.18 PROC: Other Ascertainable Records

PROC: A listing of certified processors tracked by the Department of Conservation. **Table 4-18** summarizes the sites within 0.5 miles of the Site. The PROC list is dated 03 13 2017.

Table 4-18. PROC List within 0.5 Miles of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
Bestway Recycling Co Inc	I28/61	2268 E Firestone Blvd., Los Angeles, CA 90002	NNE 1/4 - 1/2 (0.426 mi.)	• Reg Id: 19251

4.19 Notify 65: Other Ascertainable Records

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control oard and the Regional Water Quality Control oard. This database is no longer updated by the reporting agency. **Table 4-19** summarizes the sites within approximately 1 mile of the Site. The Notify 65 list is dated 12 16 2016.

Table 4-19. Notify 65 List within 0.5 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
General Motors Corp (Form	L49/159	2700 Tweedy, South Gate, CA 90280	ESE 1/2 - 1 (0.841 mi.)	• Status: Inactive - Needs Evaluation

4.20 WIP: Other Ascertainable Records

WIP: Well Investigation Program case in the San Gabriel and San Fernando alley area tracked by the Los Angeles Water Quality Control oard. **Table 4-20** summarizes the sites within approximately 0.25 miles of the Site. The WIP 65 list is dated 07 03 2009.

Table 4-20. WIP List within 0.25 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
Western Summit Mfg Corp	C10/13	9120 Juniper St Los Angeles, CA 90002	ENE 1/8 - 1/4 (0.218 mi.)	• File Status: Historical

4.21 Historical Auto Stations: EDR Exclusive Records

This EDR's proprietary record provides a list of potential gas station, filling station, or service station sites that were available to EDR researchers. **Table 4-21** lists the potential service stations located within approximately 0.125 miles of the Site. However, historical listings may also list a residential dwelling where the listed name resides; these names were people who were employed at a service station.

Table 4-21. Historical Auto Stations List within 0.125 Miles of the Site				
Facility Name	Map ID/Page	Address	Direction/Distance	Description
Anderson E A	5/10	1875 E 92D, .Watts, CA	NW 0 - 1/8 (0.086 mi.)	• Year: 1928
Samuel Auto Repair & Service	A2/9	9503 Anzac Ave., Los Angeles, CA 90002	SSW 0 - 1/8 (0.023 mi.)	• Year: 2001; 2002, 2003,2004,2005,2006,2007,2008 • 2009,2010,2011,2012,2013,2014

4.22 Historical Cleaners: EDR Exclusive Records

This EDR proprietary record provides a list of historical cleaner sites that were available to EDR researchers. The list includes establishments including in the following categories: drycleaners, cleaners, laundry, laundromat, cleaning laundry, wash and dry. **Table 4-22** lists historical cleaners located within 0.125 miles of the Site.

Table 4-22. Historical Cleaners List within 0.125 Miles of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
North Star Carpet Services	4/10	9307 Hickory St., Los Angeles, CA 90002	ENE 0 - 1/8 (0.058 mi.)	• Year: 1997,1998,1999
Multi Kleen	A3/10	9517 Anzac Ave., Los Angeles, CA 90002	SSW 0 - 1/8 (0.047 mi.)	• Year: 2000,2001,2002,2003,2004

4.23 HAZNET

HA NET is the Facility and Manifest Data that is extracted from the copies of hazardous waste manifests received each year by the DTSC. ased on the HA NET, the Site has generated wastes tracked by HA NET. These activities as summarized in **Table 4-23**. The HA NET list is dated by 12 31 2015.

Table 4-23. CA HAZNET List within 0.001 Miles of the Site				
Facility Name	**Map ID/Page**	**Address**	**Direction/Distance**	**Description**
LAUSD 92nd Street ES (theSite)	A3	9211 Grape Street, Los Angeles, CA 90002	On Site	• Waste Category: Other organic solids, 2007 • Waste Category: Asbestos containing waste. 2007 • Waste Category: Other inorganic solid waste, 2006 • Waste Category: Asbestos containing waste, 2005 • Waste Category: Other inorganic solid waste, 2002

5. Historical Use Information

5.1 Aerial Photographs

The following descriptions summarize the review of the historical aerial photographs for the Site and surrounding area. The EDR Aerial Photo Decade Package is presented as **Appendix D**.

The building number designation can be found on **Figure 2**.

1923. The Site was shown as developed and areas shown as residential area.

1928. There were no significant changes to the Site.

1938. The northern half of the Site was shown to be developed with buildings and parking lots. It appears uilding No.1 was constructed on the northeast of the Site.

1952. uilding No.2 was shown on the northwest part of the Site. Some of the residential structures on the southern half of the Site were removed.

1963. uilding No. 3, No.4, No. 5, were constructed on the north part of the Site and all residential buildings on the south part of the Site were removed.

1972. uilding No.1 appeared to be demolished. uilding No.7 and No.9 were constructed on the east side of the school.

1977. uilding No.1 appeared to be reconstructed and uilding No.6 and No.10 were constructed. Two portable buildings were constructed on the Site.

1981. There were no significant changes to the Site and only minor changes to the school area.

1989. There were no significant changes to the Site and only minor changes to the school area.

1994. There were no significant changes to the Site and only minor changes to the school area.

2002. There were no significant changes to the Site and only minor changes to the school area.

2005. uilding No.16 appeared to be constructed on the Site.

2009. There were no significant changes to the Site and only minor changes to the school area.

2010. There were no significant changes to the Site and only minor changes to the school area.

2012. There were no significant changes to the Site and only minor changes to the school area.

5.2 Topographic Maps

The following descriptions summarize the review of the EDR Historical Topographic Map Report for the Site and surrounding area. The EDR Historical Topographic Map Report is presented as **Appendix E.**

1896. The map showed the Site area as undeveloped. A railroad was identified to the east of the Site running in a north-south direction, and merged with another railroad ran in a west-east direction.

1899. There were no significant changes to the area east of the Site.

1902. There were no significant changes to the area east of the Site.

1923. The map showed a great amount of road and subdivision development. The areas surrounding the Site were shown to be in the subdivision layout of the current condition. More railroads were identified in the map.

1924. The map showed no significant changes.

1937. The map showed the increasing development of subdivision in the entire area surrounding the Site. New buildings were constructed on the east side of the Site.

1942. The map showed no significant changes.

1943. The map showed no significant changes.

1947, 1948. The map showed no significant changes.

1949,1950. The map identified the Site area as 92nd St School for the first time and showed uildings 1 and 2 on the map.

1952. The map showed no significant changes.

1964. The map showed additional classrooms built at the Site.

1972. The map showed no significant changes

1981. The map showed no significant changes

2012. The map showed no significant changes.

5.3 City Directory

The EDR City Directory Abstract (**Appendix F**) lists names of the corresponding occupants at 5-year intervals for each address. usiness directories including city, cross-reference, and telephone directories were reviewed, if available, at approximately 5-year intervals for the years spanning 1920 through 2014 for the city of Los Angeles. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 332 feet of the target property. **Table 5-1** summarizes the significant findings of the City Directory Abstract. There were no significant findings in the City Directory Search prior to 1951.

Table 5-1. Significant Findings of the City Directory Review			
Street Address	Year	Historical Tenants	Telephone Directory
9211 S Grape Street	1951-2017	Ninety Second St Elementary School Los Angeles Unified School District School Mental Health	Haines Company, Inc. Pacific Telephone & Telegraph Co.

5.4 Sanborn® Fire Insurance Maps

The Sanborn fire insurance maps are presented as **Appendix G**. This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were shown on year of 1922, 1928, 1950 and 1970. The following discussions summarize findings on each of these years:

1922. The map showed that the Site was a subdivision prior to any school development. The entire Site was occupied by what appears to be small residential buildings scattered in this subdivision.

1928. The buildings in the north half of the Site was removed and the entire north half was shown as empty lots.

1950. The map showed that the south half of the Site was still occupied by residential housing. ut the north half of the Site was identified as 92nd St. School and shown to be occupied by what appeared to be the current uilding 1 6 and 2, and a cafeteria and two other classrooms to the south of uilding 1 6. The notes on the map indicated that uilding 1 was built in 1931, and uilding 2 in 1940. These notes

1970. The map showed the north half of the Site was fully occupied by classroom buildings and the south half of the Site was shown as playground with all residential buildings shown in the 1950 map removed. In addition to uilding 1 6 and 2 that were shown in the 1950 map, several other classrooms were shown; including uildings 3 (built 1957), uilding 4 (built 1957), uilding 5 (built 1960), uilding 7 (built 1965), and four other classrooms to the south of uilding 7. The notes on the map provide the chronology on how the majority of the classrooms at the Site were built over the years. The 1970 map showing the school area is provided in **Figure 3**.

6. Regulatory Agency Inquiries & Responses

Inquiries regarding past activities, permits, or inspection documents were requested from the local regulatory agencies. The request letters and responses are presented as **Appendix H**.

6.1 Los Angeles County Sanitation District

On June 14, 2017, information regarding potential industrial waste discharge activities at the Site was requested from the Los Angeles County Sanitation District (LACSD). ased on a telephone call conducted on July 5, 2017, the LACSD indicated that there was not under their jurisdiction.

The City of Los Angeles ureau of Sanitation (LASAN) was reached on the same day for information on waste discharge permit. The LASAN responded in a letter dated July 6, 2017 that an industrial wastewater sewer discharge permit was issued to the school address; but no violation was cited in the past 5 years.

6.2 California State Fire Marshall, Pipeline Safety

On June 13, 2017, AEI made request to the California State Fire Marshall (CSFM), Pipeline Safety Division to identify pipelines located within 1,500 feet of the Site address. In response to the request, CSFM stated that there is no pipeline jurisdictional to the CSFM in the area of our request and suggested contacting to local gas company and DOGGR for such information. AEI has performed a search using public-domain information provided by the National Pipeline Mapping System at https: www,npms.phmasa.dot.gov default.aspx for gas transmission pipelines and hazardous liquid pipelines in the area. ased on our search, there is a gas transmission line located on 95th Street in an east-west direction along the south boundary of the school property. There are two hazardous liquid pipelines located within about 1700 feet to the east and west of the school boundary, respectively; one along Graham Avenue (west of the school) and one along Alameda Street (east of the school). oth are in a north-south direction.

6.3 Southern California Air Quality Management District

On June 14, 2017, AEI requested information or files for the Site address within the alboa Complex from the Southern California Air Quality Management District (SCAQMD). The SCAQMD responded on June 23, 2017 and indicated a few findings pertaining to the Site. A bee spots complaint was filed in 1995 and 8 asbestos removal notifications were filed at the years of 2003, 2004, 2005 2007, and 2008.

6.4 Los Angeles Regional Water Quality Control Board

On June 13, 2017, AEI contacted the Los Angeles RWQC and requested any information or files on record for the Site. The Los Angeles RWQC indicated that there are no files on record including SLIC and ST records on Site.

6.5 Department of Toxic Substances Control

On June 14, 2017, AEI contacted the DTSC at the Cypress and Chatsworth offices and requested any information or files on record for the Site. oth Cypress and Chatsworth offices have indicated that there are no files on record for the Site. pon additional review of the DTSC Envirostor website, no files were found regarding the subject Site.

6.6 Los Angeles County Department of Public Works

On June 14, 2017, AEI contacted the Los Angeles County Department of Public Works (LACDPW) and requested any information or files on record for the subject Site. The LADPW indicated there were no files on record within their jurisdiction.

6.7 Southern California Edison

On June 14, 2017, AEI requested information or files from the Southern California Edison. ased on a telephone call on July 6, 2017, Southern California Edison indicated that they do not have high voltage transmission lines within the safety distance as defined by the California Department of Education Environmental School Site Selection Screening Criteria Checklist.

6.8 Los Angeles Department of Water and Power

On June 14, 2017, AEI sent a letter requesting any information or files on record for the subject Site from the Los Angeles Department of Water and Power (LADWP). The LADWP in response to the request stated that they have no jurisdiction at the Site.and asked such information be obtained from the City of Los Angeles.

6.9 Los Angeles County Department of Public Health Investigations

On June 14, 2017, AEI requested information from the Los Angeles County Department of Public Health (LACDPH) regarding any information or files on record for the Site. The LACDPH indicated that there is no file on record.

6.10 Los Angeles County Fire Department

On June 14, 2017, AEI requested any information or files on record for the Site from the Los Angeles County Fire Department (LACFD) Health Hazardous Materials Division. LACFD still

has not responded to the request. However, based on request conducted by AEI to the LACDPH, there were no files for the subject Site concerning the LACFD. All of the LACFD files are located at the LACDPH.

6.11 Southern California Gas Company

On June 14, 2017, AEI requested information or files from the Southern California Gas Company regarding any high-pressure distribution lines within 1,500 feet of the Site. SCGC in response provided an Atlas Sheet with the approximate locations of all gas mains in the requested area. SCGC recommended verifying all lines with the nderground Service Alert before any intrusive works. The SCGC Atlas Sheet shows that the Site is bordered with a 4-inch gas main along the northern (E. 92nd Street) and eastern (Grape Street) borders, a 3-inch gas main along the west (Anzac Avenue) border, and a 30-inch main along the southern (95th Street) border, which is consistent with the finding of the National Pipeline Mapping System (see discussions in Section 6.2).

6.12 Previous Environmental Assessments

There have been no environmental assessments conducted at the Site based on the record search and agency file review at the time of this report.

6.13 User-Provided Information

With the exception of a conceptual site modernization plan, the LA SD did not provide any information regarding previous assessment, land use restriction, institutional control, or potential liability of the Site that may contribute to the knowledge of identifying possible environmental concerns at the Site.

7. Environmental School Site Selection Screening-Criteria Checklist

In accordance with the LA SD Office of Environmental Health and Safety Environmental School Site Selection Screening Criteria Checklist (**Appendix I**), the following criteria were evaluated:

7.1 High Voltage Power Transmission Lines

On June 14, 2017, AEI requested the following information regarding high-voltage power transmission lines within the area of the Site from the Los Angeles Department of Water and Power (LADWP) and from Southern California Edison (SCE):

- Is the property within 100 feet from the edge of an easement for a 50-133 kilovolt (k) line
- Is the property within 150 feet from the edge of an easement for a 220-230 k line
- Is the property within 350 feet from the edge of an easement for a 500-550 k line

ased on a telephone call on July 7, 2017, SCE indicated they do not have service lines meeting the above criteria. However, existing high voltage overhead transmission lines and towers were observed during the site reconnaissance at a distance about 400 feet north of the Site.

7.2 Railroads

The Site is not located within 1,500 feet of a main railroad track easement. There is a Metro Rail lue Line that runs north south along Graham Avenue approximately 1,800 feet to the west of the Site (see map in **Appendix A**).

7.3 Traffic Noise

The Site is located in a well-developed area surrounded by existing roads and streets. ased on the actual development of the future use at the Site, an Environmental Impact Study will be conducted to evaluate the traffic noise impact.

7.4 Faults

A review of the 2010 Fault Activity Map of California indicates that Potrero Fault in Newport-Inglewood-Rose Canyon fault zone is approximately 5 miles from the west to the Site. Hollywood Fault is approximately 11 miles from the north to the Site. Whitter Fault is approximately 13 miles from the east to the Site. Los Alamitos Fault is approximately 10 miles from the south to the Site. Review of the City of Los Angeles Safety Plan Element Exhibit A (**Appendix A**) confirms the presence of the above faults. The Site is not located directly above an active fault.

7.5 Flood or Inundation Area

According to the Safety Element of the Los Angeles City General Plan Exhibit F (**Appendix A**) , and EDR Radius Map Report with Geocheck , the Site is not located within a 100-year or 500-year flood zone. The Site is located within an area of potential inundation and tsunami hazard according to the City of Los Angeles Safety Element Map Exhibit G.

7.6 Above Ground Water or Fuel Storage Tanks, High Pressure Hazardous Material Pipelines

On February 16, 2017, AEI sent a letter requesting any information or files on record for the Site to the Los Angeles Department of Water and Power (LADWP). LADWP indicate the closest above ground water tank is more than one mile from the Site and they do not have high pressure gas lines within the stated Site area.

7.7 Liquefaction and Landslides

The Site is not located in the Liquefaction one affected by historic occurrence of liquefaction as indicated by City of Los Angeles Safety Plan Element Exhibit (see **Appendix A**); or with local geological, geotechnical, and groundwater conditions that may pose a potential for permanent ground displacement, as defined in Public Resources Code Section 2693(c), that would require mitigation. .

The Site is not located within a Landslide one, according to the City of Los Angeles Safety Plan Element Exhibit C (see **Appendix A**).

7.8 Traffic and Pedestrian Safety

92nd Street and 95th Street run in a west east direction along the north and south boundary of the Site. Grape Street and Anzac Avenue run north south along the east and west boundary of the Site. The Site is located in well-developed subdivisions with various pedestrian crossing and traffic routes. ased on future development and use at the Site, an Environmental Impact Study will be conducted to evaluate the impact on traffic and pedestrian safety, if any.

7.9 Compatible Zoning

The Site is located in a well-developed subdivision with various zoning on community development. ased on actual development of the future use at the Site, an Environmental Impact Study will be conducted to evaluate the impact on compatible zoning, if any.

7.10 Light, Wind, Air Pollution

The Site is located in a well-developed subdivision with various industrial and commercial developments. ased on actual development of the future use at the Site, an Environmental Impact Study will be conducted to evaluate the impacts, if any, on future users at the Site.

7.11 Easements

The Site is located in a well-developed subdivision with various industrial and commercial developments that may involve easements. ased on actual development of the future use at the Site, an Environmental Impact Study will be conducted to evaluate the impacts on future users at the Site, if any.

7.12 Border Zone Property

y searching State Resource Water Control oard Geotracker online system, the Site is not located within 2,000 feet of a significant hazardous waste disposal site.

7.13 Cellular Phone Towers

ased on information provided by www.cellreception.com towers , there are no cellular phone towers existing within 1,000 feet of the Site.

7.14 Methane Zones

The Site is not located in a methane zone or methane buffer zone based on map (see map in **Appendix A**) published by the City of Los Angeles ureau of Engineering. The nearest methane buffer zone and methane zone is approximately 2.5 miles southeast of the Site

7.15 Oil Wells

According to the Los Angeles City General Plan Safety Element map, the Site is not located in an oil field, and the nearest oil field to the Site is the Pacoima Oil Field approximately 3 miles to the southwest (**Appendix A**).

According to DOGGR information at http: www.conservation.ca.gov dog Pages Wellfinder.aspx (see map in **Appendix A**), the nearest wells registered by DOGGR is a well owned by Chevron .S.A. Inc. located approximately 0.37 miles west of the Site and the status shows as plugged . Another plugged well is owned by American Petrofina Exploration Co. and located approximately 1 mile southeast of the Site. An active well owned by Southwest Petroleum Corp is located 1 mile southwest of the Site.

7.16 Air Pollution

The Site is located in a well-developed subdivision with various industrial and commercial developments that may involve sources of air pollution. ased on the actual development of the future use at the Site, an Environmental Impact Study will be conducted to evaluate the impacts, if any, on future uses at the Site.

7.17 Airports

There is no airport located in the Site area. The nearest airport is Compton Woodley Airport and it is located approximately 5 miles south of the Site.

8. Conclusions and Recommendations

ased on evaluations of the information discussed in previous sections, the following Recognized Environmental Concerns (RECs) per ASTM E1527-13 are summarized in this section.

On-Site RECs

The following findings were based on site inspection and filed information gathered during this Phase I ESA:

- ased on the age of the structure on the Site (primarily built before 1965), there is the potential for lead residue in the soil around the building resulting from peeling-off chips of lead-based paint used on the structures.
- Insecticides and organochlorine pesticide may be used during standard termite treatment process and other building maintenance activities for pest control.
- It is known that herbicides were used for weed control in pavement area both before and after the pavement installation. Therefore the arsenic levels in shallow soils and subgrade materials beneath the pavement can be higher than the exposure limit imposed by the LA SD for school yard.
- A pad-mounted electrical transformer is found at the site. Cooling oil of the transformer may contain polychlorinated bisphenols (PC s).

Off-Site RECs

ased on the information gathered from the EDR regulatory data base search, the active or current off-site RECs were listed in the section 4.The off-site RECs do not appear to pose a significant threat to the Site based on the distance to the Site and local groundwater flow directions.

Recommendations

ased on the findings and conclusions from this Phase I ESA, a limited Phase II ESA is recommended to include the following sampling activities:

- Investigation of surface and subsurface soils to verify any potential impact from the historical use of lead-based paint, and insecticides near the classrooms; and the herbicide and or pesticide used in other areas especially if past weed control activities are known.
- Investigation of PC s in surface and subsurface soils near the pad-mounted electrical transformer.

9. References

Environmental Data Resources, Inc. (EDR). Certified Sanborn® Map Report. Inquiry Number 4851916.3. February 10, 2017

———. The EDR Aerial Photo Decade Package. Inquiry Number 4961336.9. June 12, 2017

———. The EDR City Directory Abstract. Inquiry Number 4961336.5. June 09, 2017

———. EDR Historical Topographic Map Report. Inquiry Number 4961336.4. June 08, 2017

———. The EDR Radius Map™ with Geocheck®. Inquiry Number 4961336.2s. June 08, 2017

Los Angeles County Office of the Assessor. http://assessor.lacounty.gov/

Los Angeles City Planning Department, Methane and Methane Buffer Zone Map. http://www.partneresi.com/methane-zone-map.php.

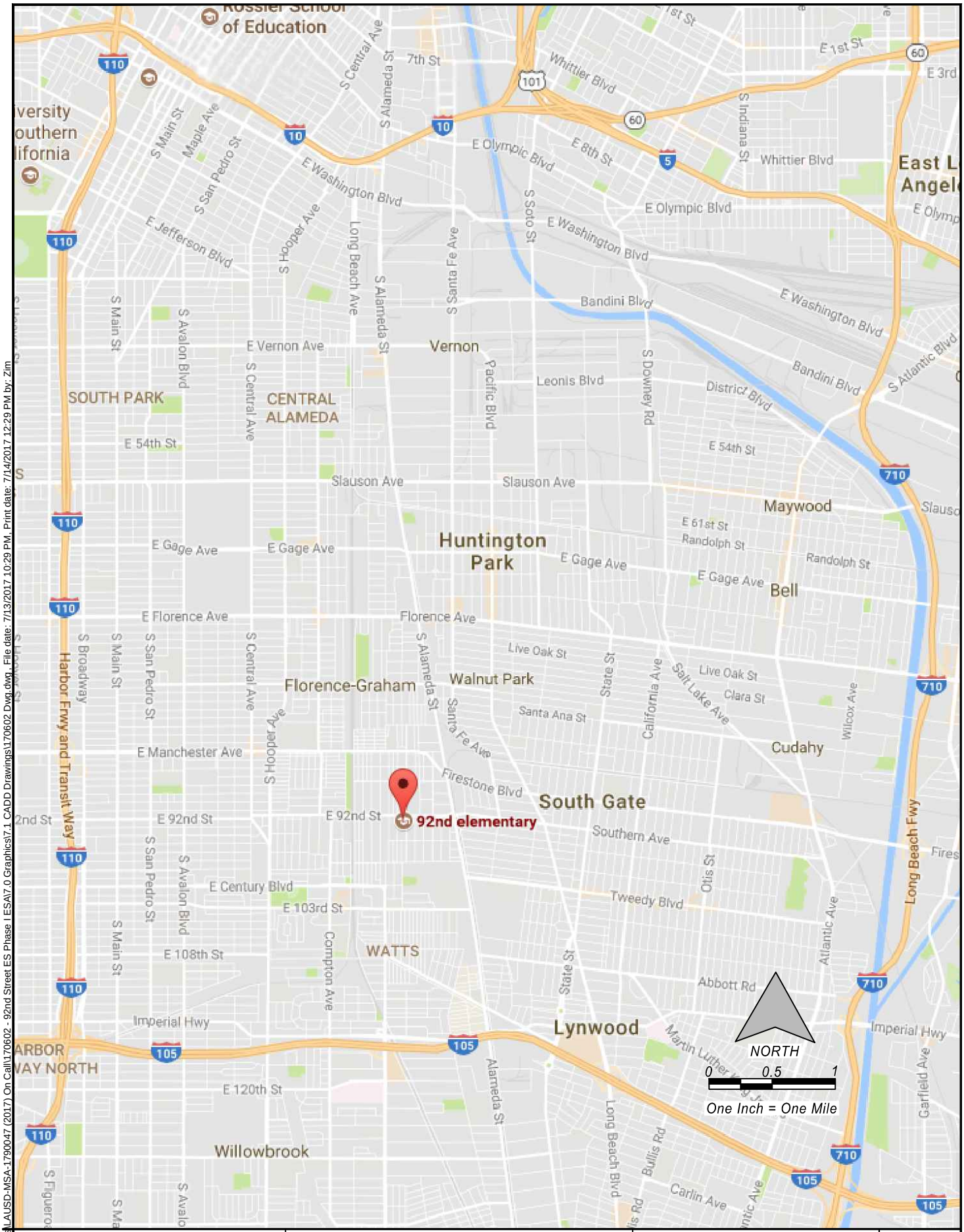
Los Angeles City Planning Department. Safety Element Exhibits A, B, C, E, F, G. http://cityplanning.lacity.org/cwd/gnlpln/SaftyElt.pdf.

Map of Radon Zones for California. United States Environmental Protection Agency. http://www.city-data.com/radon-zones/California/California.html

State of California, Department of Conservation. Fault Activity Map of California (2010) http://maps.conservation.ca.gov/cgs/fam/.

State of California, Department of Conservation. Division of Oil, Gas, and Geothermal Resource. https://maps.conservation.ca.gov/doggr/wellfinder/#close

Figures



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Accord Engineering, Inc.
2923 Pullman Ave
Santa Ana, California 92705
T.(714) 241-7200 F.(949) 251-0563

Project :
92nd Street Elementary School
Phase I ESA

Project No.	Scale:	Dwn/Revd:	Date:
170602	1 In = 1 Mile	KP/MP	7/13/2017

SITE LOCATION MAP

9211 Grape St
Los Angeles, CA 90002

Figure
1

NORTH

0' 60' 120'

One Inch = 120 Feet

PERMANENT & PORTABLES BUILDINGS

92ND STREET ES - LEGEND	
25	BUILDING NUMBER
	PERMANENT
	PORTABLE

Accord Engineering, Inc.
2923 Pullman Ave
Santa Ana, California 92705
T.(714) 241-7200 F.(949) 251-0563

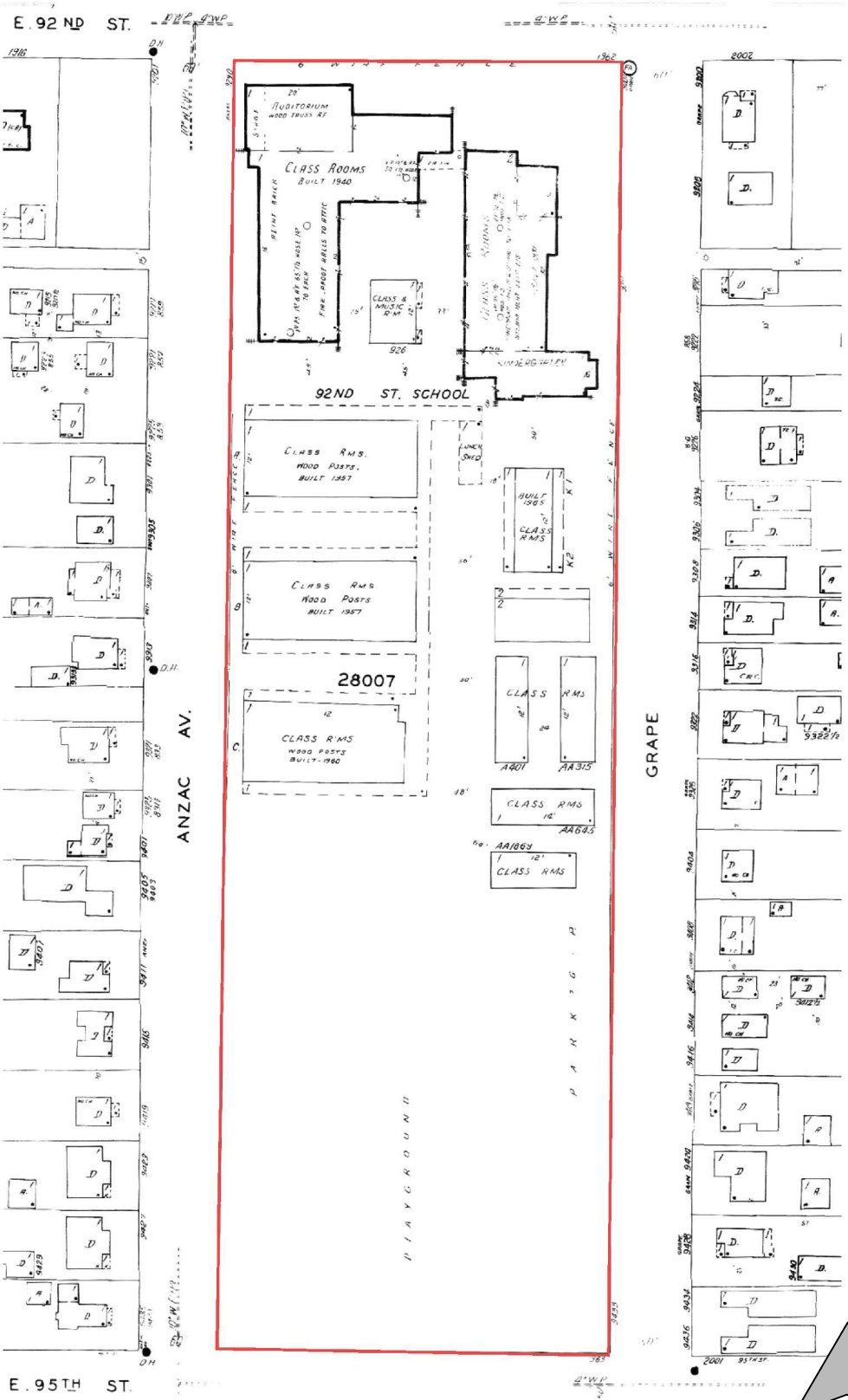
Project :
92nd Street Elementary School
Phase I ESA

Project No.	Scale:	Dwn/Revd:	Date:
170602	1 In = 120 Ft	KP/MP	7/13/2017

EXISTING CAMPUS PLAN

9211 Grape St
Los Angeles, CA 90002

Figure
2



Accord Engineering, Inc. 2923 Pullman Ave Santa Ana, California 92705 T.(714) 241-7200 F.(949) 251-0563	Project : 92nd Street Elementary School Phase I ESA				1970 SANBORN MAP 9211 Grape St Los Angeles, CA 90002	Figure 3
	Project No. 170602	Scale: 1 In = 120 Ft	Dwn/Revd: KP/MP	Date: 7/13/2017		

Appendix A

Maps

1 Assessor s Parcel Map

2 Safety Element Exhibit A: Alquist-Priolo Special Study ones Fault Rupture Study Areas in the City of Los Angeles

3 Safety Element Exhibit : Areas Susceptible to Liquefaction in the City of Los Angeles

4 Safety Element Exhibit C: Landslide Inventory Hillside Areas in the City of Los Angeles

5 Safety Element Exhibit E: Oil Field and Drilling Areas in the City of Los Angeles

6 Safety Element Exhibit F: 100- ear and 500- ear Flood Plains in the City of Los Angeles

7 Safety Element Exhibit G: Inundation and Tsunami Hazard Areas in the City of Los Angeles

8 Radon ones of California

9 Methane and Methane uffer ones City of Los Angeles

10 DOGGR Oil Wells

11 MTA us and Rail System Map

6046

SCALE 1" = 400'

1988

1-31-64
2-19-64
12-15-65
730615
730727
730817
730820
740108
800102
801126
861017
870506

BOOK 6044

CITY OF LOS ANGELES — ROAD DIST. NO. 2

BOOK 6045

BOOK 6204

INDEX-6046

SCALE 1 IN.=400 FT.

Site

TRACT 9 - 155

TRACT NO. 26899 M.B. 707-41-42

PALM STARKS TRACT

CENTURY

DONOHUE M. B.

WILMINGTON AVE. ANZAC AVE. GRAPE ST. HICKORY ST. CROESUS AVE. JUNIPER ST. KALMIA ST. LAUREL PL.

92ND ST. 93RD ST. 94TH ST. 95TH ST. 96TH ST. 96TH PL. 97TH ST. 98 ST. 99TH PL. 101ST ST. 102ND ST. 103RD ST.

BOOK 6048

BOOK 6205

FRWY.

16154 LAUREL PL.

SUB. OF TAJAUTA RANCHO

RANCHO SAN ANTONIO

P. 1-389

NO. 50 BLVD.

48

C.F. 63

TRACT NO. 8607 M.B. 103-49-50

TRACT 540 M.B.

VILLA ADA TRACT 6 - 190

NEVADA STA TRACT M. B.

C.F. 63

ALAMEDA

BOOK 6207

BOOK 6065

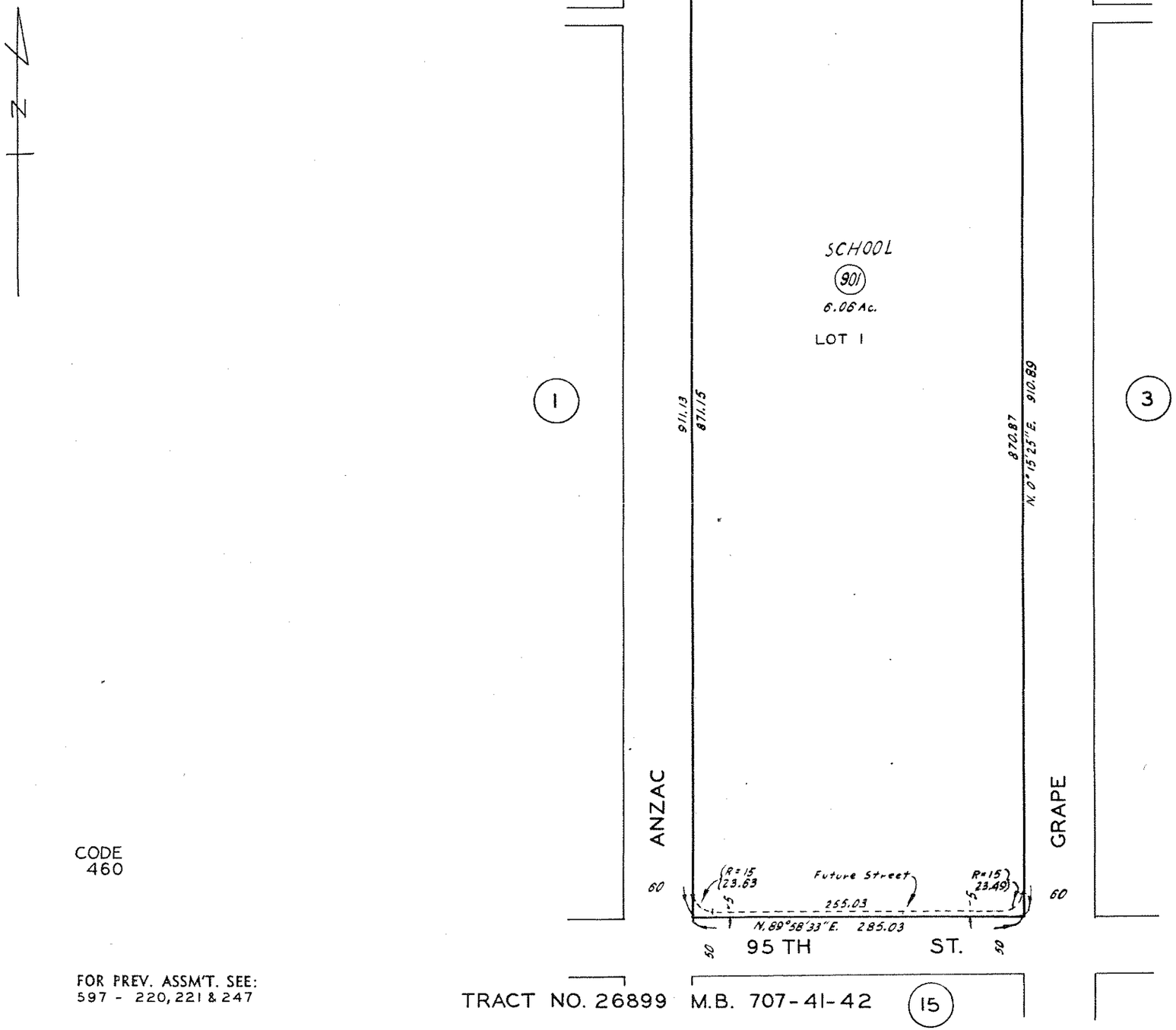
BOOK 6066

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

CITY OF LOS ANGELES
ROAD DIST. NO. 2

6046 | 2

SCALE 1" = 100'



CODE
460

FOR PREV. ASSM'T. SEE:
597 - 220, 221 & 247

TRACT NO. 26899 M.B. 707-41-42 (15)

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

SAFETY ELEMENT EXHIBIT **A**

Alquist-Priolo Special Study Zones & Fault Rupture Study Areas

In the City of Los Angeles

Alquist- Priolo Special Study Zone Areas

Fault Rupture Study Areas

Site

NOTES

The Safety Element seismic and landslide exhibits, along with any official geologic or seismic hazard maps prepared by the State Geologist and any other potential hazard areas identified by the City Building Safety Department are used in determining if additional soils and geology reports should be prepared to help assess potential hazards and mitigations, as a part of the development permit process.

Sources: California Environmental Impact Report, Framework Element, Los Angeles City General Plan, May 1995; California Environmental Quality Act of 1970 (CEQA), Public Resources Code 21000 *et. seq.* as amended 1992, Alquist-Priolo Special Study Zone Act, Public Resources Code 2621-2630 and 2690-2699.6 as amended 1993, State of California Special Studies Zone maps for the following USGS quadrangles: Oat Mountain (1-1-76) San Fernando (1-1-79), Sunland (1-1-79), Burbank (1-1-79), Beverly Hills (6-1-86), Hollywood (6-1-86), Los Angeles (1-1-77), Inglewood (6-1-86), Torrance (6-1-86), Long Beach (6-1-86), as prepared by the State Geologist pursuant to the Alquist-Priolo Special Study Zones Act, City of Los Angeles Seismic Safety Plan Element of the General Plan Council file 74-3401, September 10, 1975.

Prepared by the General Plan Framework Section • City of Los Angeles Planning Department • Citywide Graphics • March 1994 • Council File No. 89-2104

N

1 1/2 0 1 2 3 4 5 KILOMETERS

1 1/2 1/4 0 1 2 3 4 MILES

SAFETY ELEMENT EXHIBIT **B**

Areas Susceptible to Liquefaction

In the City of Los Angeles

Liquefiable Areas (recent alluvial deposits; ground water less than 30 feet deep)

Potentially Liquefiable Areas (recent alluvial deposits; ground water 30-50 feet deep)

Site

NOTES

The Safety Element seismic and landslide exhibits, along with any official geologic or seismic hazard maps prepared by the State Geologist and any other potential hazard areas identified by the City Building Safety Department are used in determining if additional soils and geology reports should be prepared to help assess potential hazards and mitigations, as a part of the development permit process.

Sources: Environmental Impact report, Framework Element, Los Angeles City General Plan, May 1995; County of Los Angeles, General Plan Safety Element Technical Appendix Vol. 2 plate 4 "Liquefaction Susceptibility", January 1990.

Prepared by the General Plan Framework Section • City of Los Angeles Planning Department • Citywide Graphics • October, 1993 • Council File No. 89-2104

1 1/2 0 1 2 3 4 5 KILOMETERS

1 1/2 1/4 0 1 2 3 4 MILES

N

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

Site

NOTES

The Safety Element seismic and landslide exhibits, along with any official geologic or seismic hazard maps prepared by the State Geologist and any other potential hazard areas identified by the City Building Safety Department are used in determining if additional soils and geology reports should be prepared to help assess potential hazards and mitigations, as a part of the development permit process.

Sources: Environmental Impact Report, Framework Element, Los Angeles City General Plan, May 1995; County of Los Angeles, General Plan *Safety Element Technical Appendix Vol. 2 Plate 5* "Landslide inventory", January 1990; County of Los Angeles, *General Plan Safety Element Technical Appendix (Vol.1)*, "Hazard Reduction in Los Angeles County," December 1990 California Environmental Quality Act of 1970 (CEQA) with guideline, Public Resources Code Section 21000 *et. seq.*, as amended 1992; California Government Code Section 6530(g), as amended; City of Los Angeles, Planning and Zoning Code Section 17.05(c), as revised 10-13-93.

Prepared by the General Plan Framework Section • City of Los Angeles Planning Department • Citywide Graphics • June, 1994 • Council File No. 89-2104

1 1/2 0 1 2 3 4 5 KILOMETERS

N

1 1/2 1/4 0 1 2 3 4 MILES

SAFETY ELEMENT EXHIBIT E

Oil Field & Oil Drilling Areas

In the City of Los Angeles

Major Oil Drilling Areas

Boundaries of State-Designated Oil Fields

1. Aliso Cyn Oil Field
2. Beverly Hills Oil Field
3. Boyle Heights Oil Field*
4. Cascade Oil Field
5. Cheviot Hill Oil Field
6. Horse Meadows Oil Field*
7. Hyperion Oil Field
8. Inglewood Oil Field
9. Las Cienegas Oil Field
10. L A City Oil Field
11. L A Downtown Oil Field
12. Mission Oil Field*
13. Pacoima Oil Field
14. Playa Del Rey Oil Field
15. Rosecrans Oil Field
16. Salt Lake Oil Field
17. San Vicente Oil Field
18. Sawtelle Oil Field
19. South Salt Lake Oil Field
20. Torrance Oil Field
21. Union Station Oil Field
22. Venice Beach Oil Field
23. Wilmington Oil Field

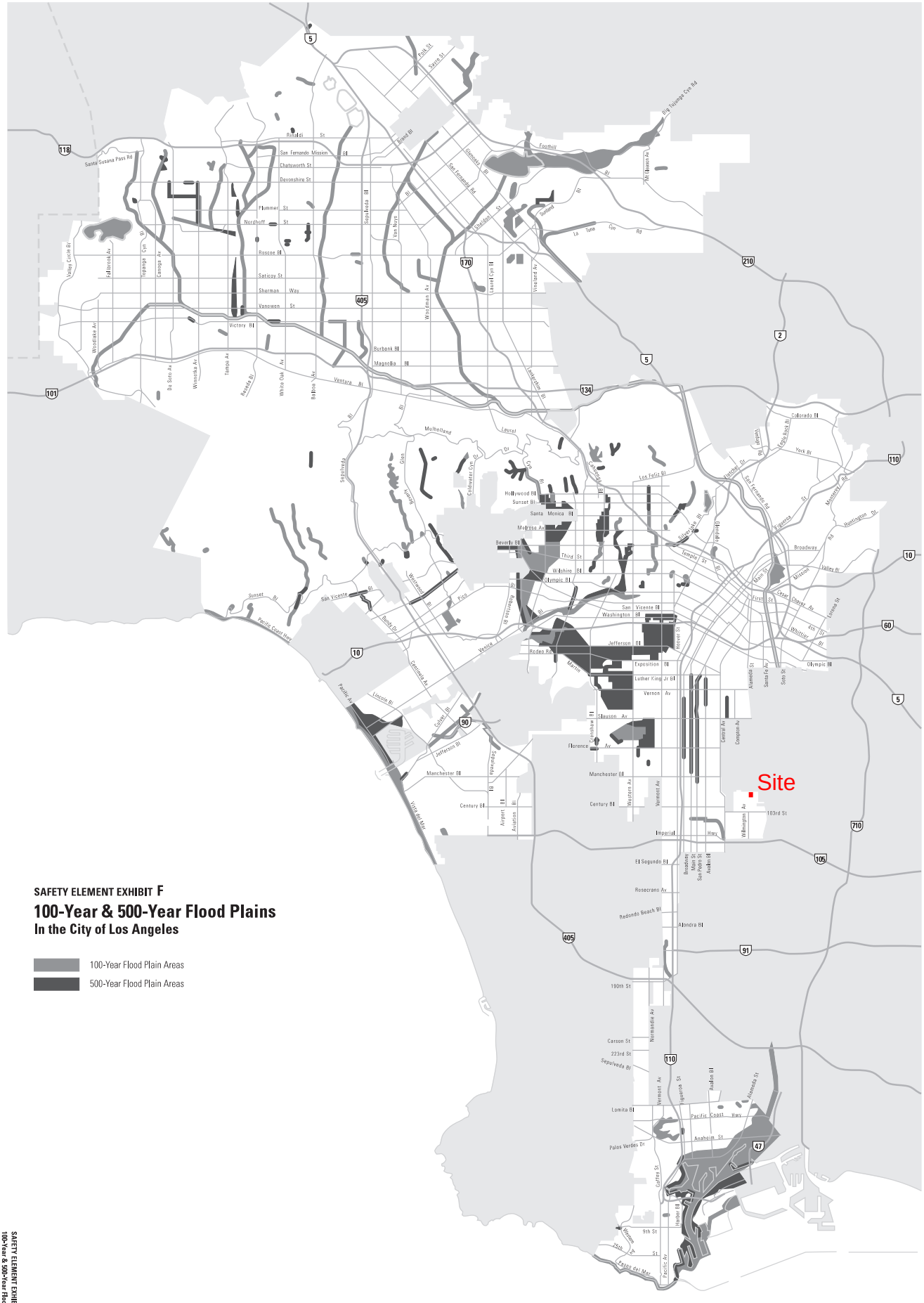
*Abandoned

NOTES

This map shows all oil fields know by the state geologist to have shown at least 6 months of economically viable production of oil. State wildcat maps show that exploratory wells have been drilled throughout the city.

Sources: Environmental Impact Report, Framework Element, Los Angeles City General Plan, May 1995; California Department of Conservation Division of Oil and Gas (DOG), Publication No. TR31, Land Use Planning in Urban Oil Producing Areas, 1988: DOG, Publication No. PRC 04, California Code of Regulations, Title 14 "Natural Resources" Section 1681 *et. seq.*, as amended February 1993; DOG, Publication No. PRC01, California Public Resources Code, Division 3"Oil and Gas", Sec. 3000 *et. seq.*, as amended July 1993; Division of Oil and Gas and Geothermal Resources, Construction project site review and well abandonment procedure (Brochure), as amended February 1994; City of Los Angeles Planning Department, interviews with DOG Long Beach office staff Engineers, 1994; California Environmental Quality Act of 1970 (CEQA) including guidelines, PRC SEC. 21000 *et. seq.*, as amended 1992.

Prepared by the General Plan Framework Section • City of Los Angeles Planning Department • Citywide Graphics • May, 1994 • Council File No. 89-2104



SAFETY ELEMENT EXHIBIT F

100-Year & 500-Year Flood Plains

In the City of Los Angeles

100-Year Flood Plain Areas

500-Year Flood Plain Areas

SAFETY ELEMENT EXHIBIT F
100-Year & 500-Year Flood Plains

NOTES

1. A 500-Year flood will also flood 100-Year flood plains.
2. A 100-Year flood is a flood which results from a severe rainstorm with a probability of occuring approximately once every 100 years.
3. A 500-Year flood is a flood which results from a severe rainstorm with a probability of occuring once every 500 years.
4. Flood plains shown on the map reflect Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) currently in effect and Preliminary FIRM maps showing increases in expected flooding along the Los Angeles River and Dominguez Channel. Flood plains are now larger due to increased urbanization of the Los Angeles River Basin.

Sources: Environmental Impact Report, Framework Element, Los Angeles City General Plan, May 1995; Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps; FEMA Preliminary Flood Insurance Rate Maps; California Evironmental Quality Act of 1970 (CEQA), Public Resources Code Section 21000 et. seq., as amended 1992; California Government Code Section 65302 as amended 1993.

1 1/2 0 1 2 3 4 5 KILOMETERS

SAFETY ELEMENT EXHIBIT G

Inundation & Tsunami Hazard Areas

In the City of Los Angeles

Flood Control Basin

Potential Inundation Areas

Areas Potentially Impacted by a Tsunami

Boundaries of Inundation Areas from Specific Flood Control Basins

Site

Sources: Environmental Impact Report, Framework Element, Los Angeles City General Plan, May 1995; Technical Appendix to the Safety Element of the Los Angeles County General Plan Hazard Reduction in Los Angeles County, Volume 2, Plate 6, "Flood and Inundation Hazards" January 1990; California Environmental Quality Act of 1970 (CEQA), Public Resources Code Section 21000 *et. seq.* with guidelines as amended, 1992; California Government Code Title 7 chapter 3, article 5 section 65302(g), as amended 1993.

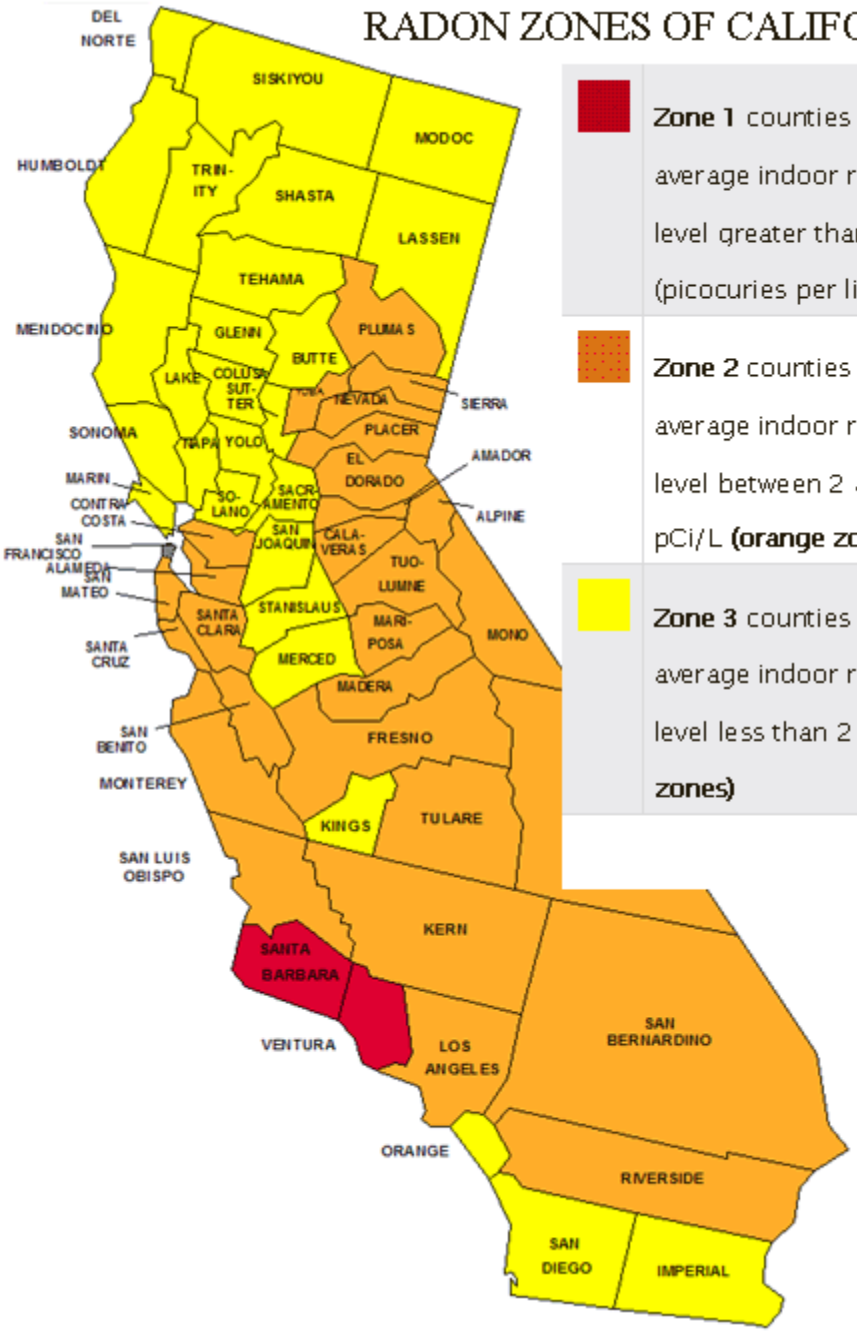
Prepared by the General Plan Framework Section • City of Los Angeles Planning Department • Citywide Graphics • March, 1994 • Council File No. 89-2104

1 1/2 0 1 2 3 4 5 KILOMETERS

1 1/2 1/4 0 1 2 3 4 MILES

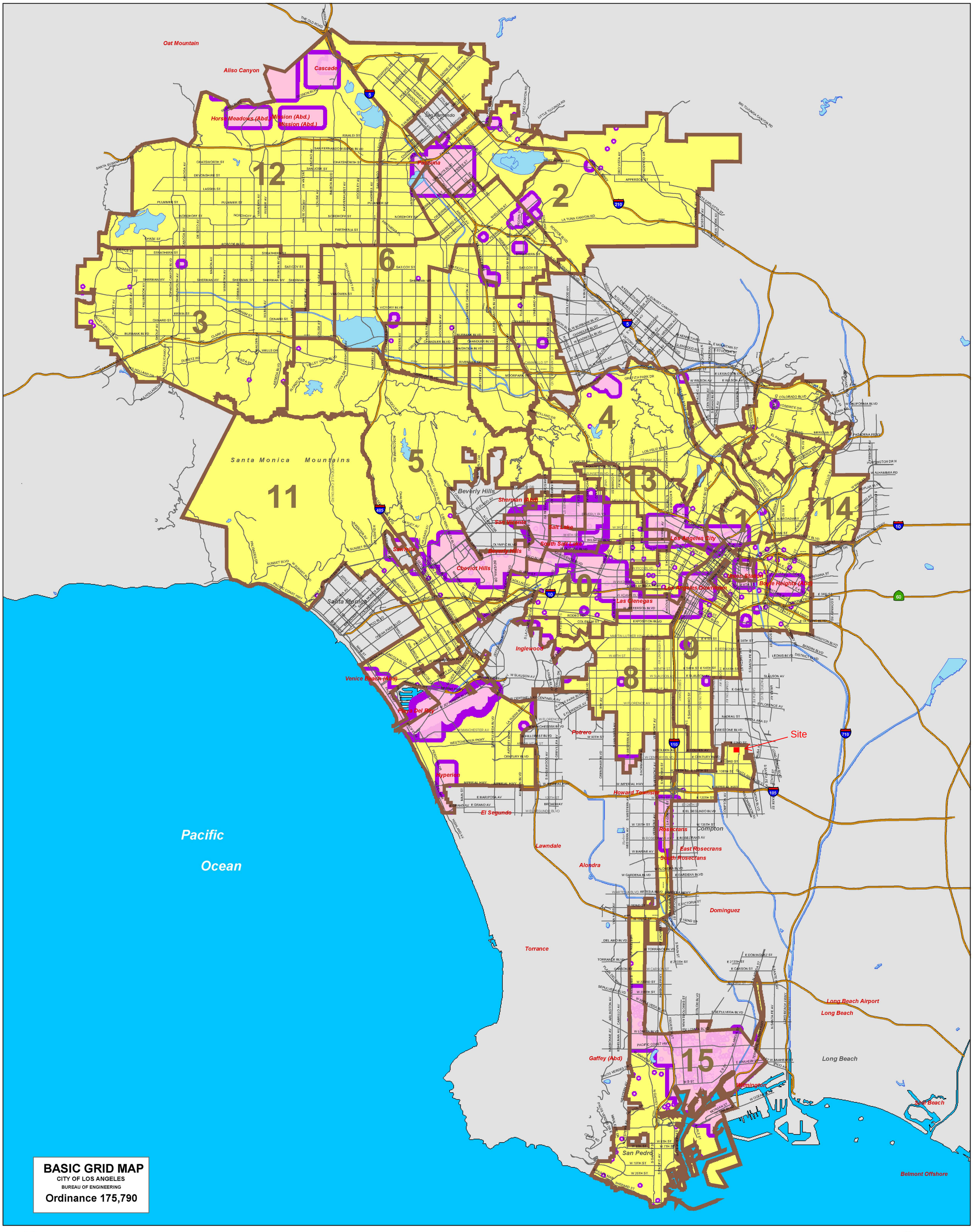
N

RADON ZONES OF CALIFORNIA



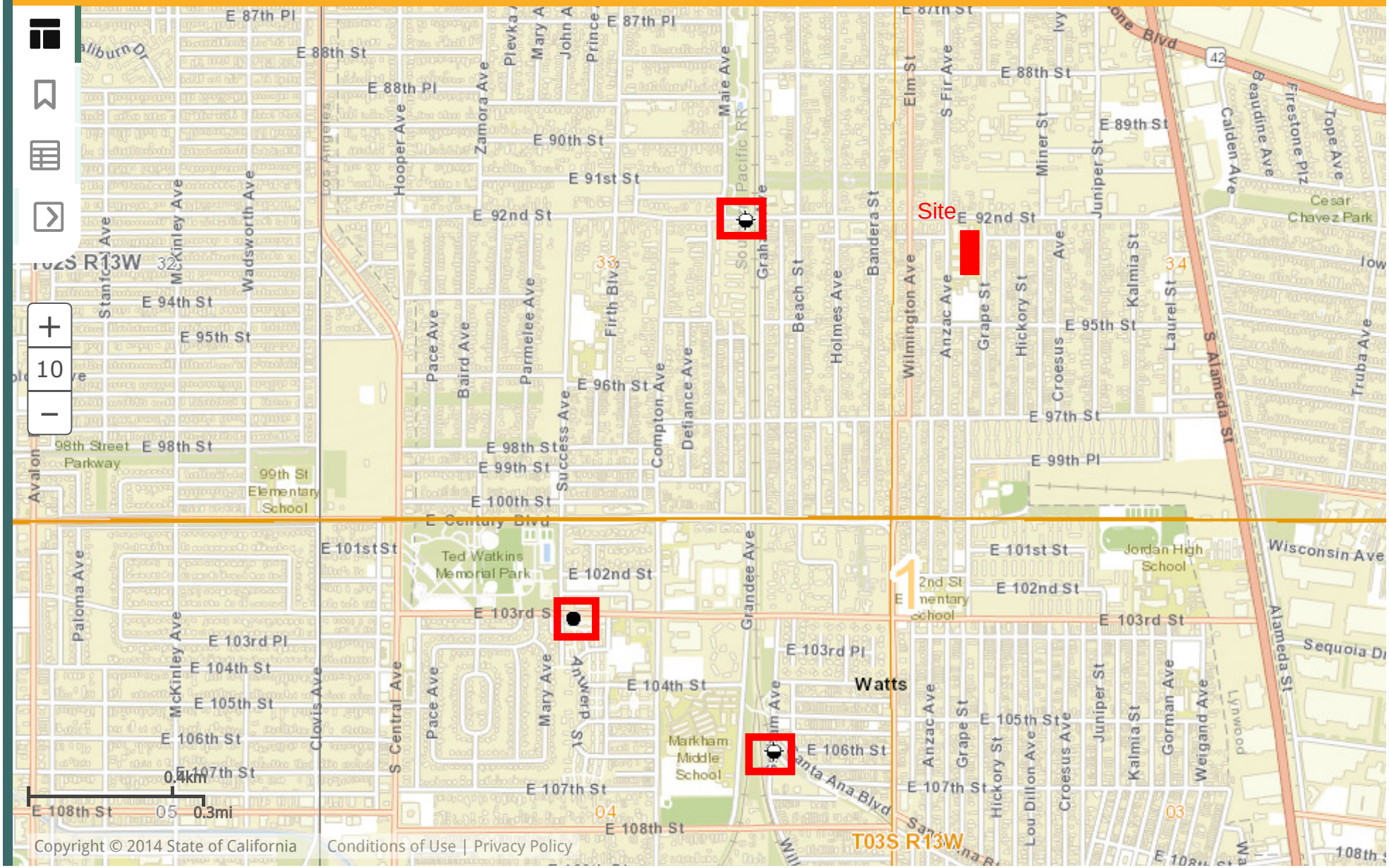
	Zone 1 counties have a predicted average indoor radon screening level greater than 4 pCi/L (picocuries per liter) **(red zones)**	**Highest Potential**
	Zone 2 counties have a predicted average indoor radon screening level between 2 and 4 pCi/L **(orange zones)**	**Moderate Potential**
	Zone 3 counties have a predicted average indoor radon screening level less than 2 pCi/L **(yellow zones)**	**Low Potential**

Anita- D:\home\z88ew\jrequests\aug03\r1311\r1311_combined_methane&methane_buffer_zones



Department of Conservation

Division of Oil, Gas & Geothermal Resources Well Finder

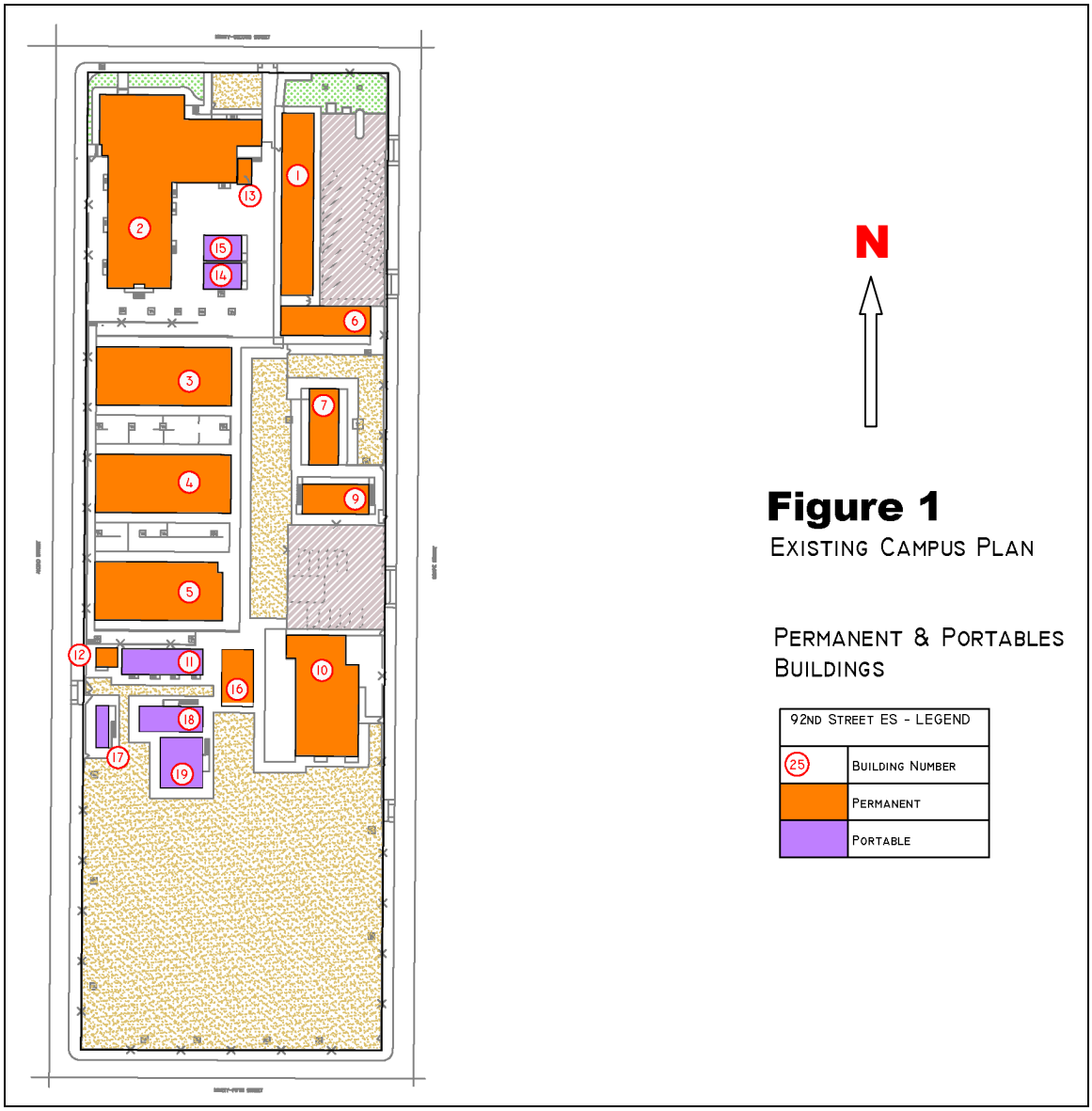


Source: MTA Bus and Rail System Map (June 2016)

Appendix B

Site Reconnaissance Logs and Photos

Site Building Layout Index

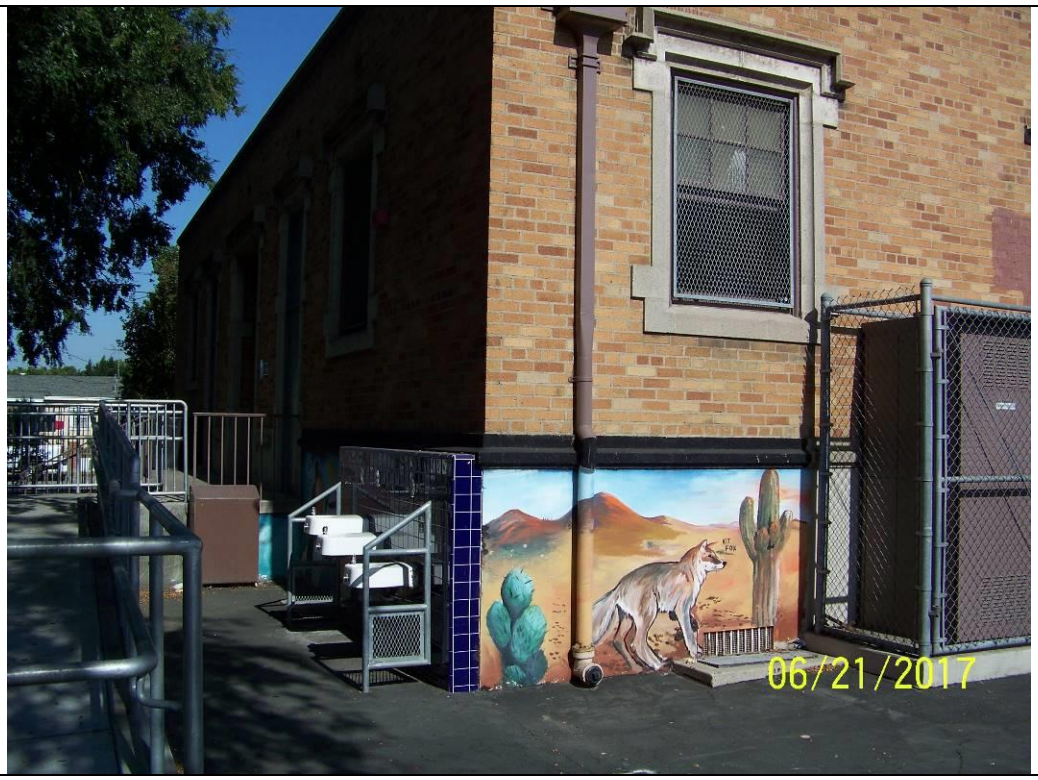


Buildings 1 and 6 Front (West Side) View
s

Buildings 1 and 6 Back (East Side) View

Building 2, Front (North Side) View

Building 2 West Side View



Building 2 South Side View

Building 2 Inside View

Buildings 3 North Side View

Buildings 3, 4, 5 East Side View (looking toward south)

Buildings 3, 4, 5 East Side View (looking toward north)

Buildings 3, 4 Covered Walkway (looking toward north)

Buildings 5 South Side View

Building 5 West Side View

Buildings 1 and 6 West Side Walk Way

Buildings 7 and 8 North Side View

Building 7 Northside View (with Building 8 in the back)

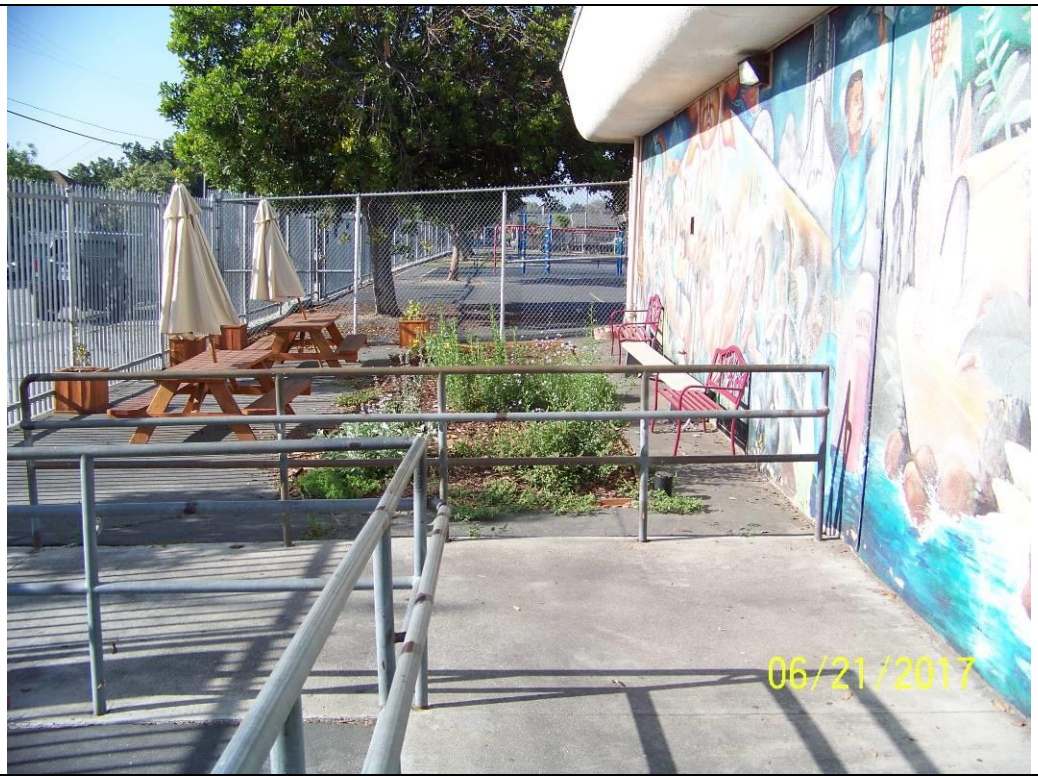
Playground to the East of Building 7 (with Building 8 in the back)

Building 8 South Side View (with waste handling area in view)

Waste Handling Area to the South of Building 8

Waste Handling Area to the North of Building 10

Building 10 (School Cafeteria) West Side View



Building 10 East Side View (vegetable garden)

Building 10 Interior View

Building 16 (open lunch area) between Building 10 (left) and 18 (right)

Building 18 and 19 East Side View

Building 18 North Side View

Building 17 East Side View

Buildings 17, 12, 11, 18 South Side View (looking toward north)

Mobile Storage Unit (typical) by Building 19

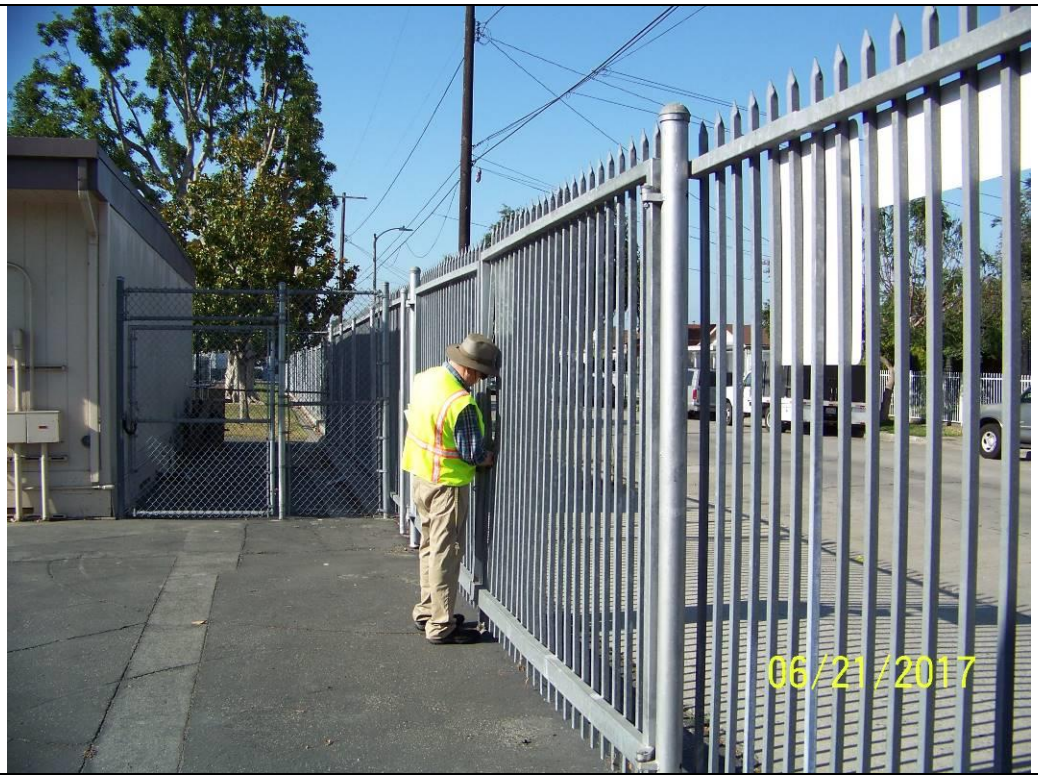
Interior of Mobile Storage (typical)

Interior of Mobile Storage (typical)

Building 12 (storage shed)

Interior of Building 12

Eastern Security Fence



Western Security Fence

Electrical Transformer next to Building 1

Electrical Transmission Tower north of 92nd Street (about 200 yards)

Appendix C

EDR Radius Map Report with Geocheck

92nd Street Elementary School
9211 Grape St
Los Angeles, CA 90002

Inquiry Number: 4961336.2s
June 08, 2017

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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

9211 GRAPE ST
LOS ANGELES, CA 90002

COORDINATES

Latitude (North):	33.9518850 - 33° 57' 6.78''
Longitude (West):	118.2368490 - 118° 14' 12.65''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	385709.4
UTM Y (Meters):	3757315.8
Elevation:	117 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5633765 SOUTH GATE, CA
Version Date:	2012
West Map:	5640440 INGLEWOOD, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
9211 GRAPE ST
LOS ANGELES, CA 90002

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	LAUSD/ NINETY-SECOND	9211 GRAPE STREET	HAZNET		TP
A2	SAMUEL AUTO REPAIR &	9503 ANZAC AVE	EDR Hist Auto	Lower	121, 0.023, SSW
A3	MULTI KLEEN	9517 ANZAC AVE	EDR Hist Cleaner	Lower	249, 0.047, SSW
4	NORTH STAR CARPET SE	9307 HICKORY ST	EDR Hist Cleaner	Higher	306, 0.058, ENE
5	ANDERSON E A	1875 E 92D	EDR Hist Auto	Higher	455, 0.086, NW
B6	PARRISH, JOHN H - OW	8919 S MINER ST	SWEEPS UST	Higher	867, 0.164, NNE
B7	LA CO DPW ROAD RD DI	2120 E 90TH ST	UST	Higher	1017, 0.193, NE
B8	LACDPW RMD - RD 241	2120 EAST 90TH STREE	RCRA NonGen / NLR	Higher	1017, 0.193, NE
B9	MAINTENANCE DISTRICT	2120 E 90TH ST	HIST UST	Higher	1017, 0.193, NE
C10	WESTERN SUMMIT MFG C	9120 JUNIPER ST	EMI, WIP	Higher	1151, 0.218, ENE
11	JORDAN DOWNS	9800 GRAPE ST	RCRA-SQG, FINDS, ECHO	Lower	1249, 0.237, South
12	MAXON INDUSTRIES INC	8901 JUNIPER	RCRA-SQG, FINDS, ECHO	Higher	1296, 0.245, NE
C13	WILLIAMS RECYCLING	2225 E 92ND ST.	ENVIROSTOR, HAULERS, NPDES	Higher	1352, 0.256, ENE
14	G K DISPOSAL INC	9622 KALMIA ST	LUST, HIST UST, RCRA NonGen / NLR, FINDS, ECHO	Lower	1626, 0.308, SE
D15	ESSEF - PARCEL B	9000 GRAHAM AVE	SLIC	Higher	1795, 0.340, WNW
E16	SLAUSON RECYCLING	2241 E 89TH ST	SWRCY	Higher	1840, 0.348, NE
17	ESSEF - MAIN PARCEL	8825 BEACH	SLIC	Higher	1846, 0.350, NW
D18	ESSEF - PARCEL A	8906 GRAHAM AVE	SLIC	Higher	1910, 0.362, NW
E19	ABC BINS	8801 ALAMEDA ST.	LUST	Higher	1943, 0.368, NE
20	R AND C RECYCLE	9405 S ALAMEDA ST	ENVIROSTOR, SWRCY, WDS	Higher	2017, 0.382, East
F21	SOUTH GATE TOWNHOMES	2405 SOUTHERN AVENUE	ENVIROSTOR, VCP, DEED	Higher	2093, 0.396, ENE
F22	FIRESTONE - PARCEL 3	2405 SOUTHERN AVENUE	RESPONSE, ENVIROSTOR, DEED	Higher	2093, 0.396, ENE
G23	WATTS DISCOVERY PROJ	VARIOUS ADDRESSES NE	RESPONSE, ENVIROSTOR, Cortese	Lower	2108, 0.399, ESE
24	MOBIL M-145 PIPELINE	9600 ALAMEDA	SLIC, ENF	Higher	2170, 0.411, ESE
H25	LA CITY DEPT WATER &	8627 FIR AVE	LUST	Higher	2219, 0.420, North
H26	LA CITY DEPT WATER &	8627 FIR AVE	LUST, HIST CORTESE	Higher	2219, 0.420, North
G27	MOBIL M-8 PIPELINE	NO NUMBER ALAMEDA ST	SLIC	Higher	2231, 0.423, ESE
I28	BESTWAY RECYCLING CO	2268 E FIRESTONE BLV	SWRCY, PROC, WDS	Higher	2251, 0.426, NNE
I29	ALVARADO'S TIRES	2225 E FIRESTONE BLV	LUST	Higher	2423, 0.459, NNE
30	JORGE MANSILLA PROPE	1950 FIRESTONE BLVD	LUST	Higher	2460, 0.466, North
31	FORMER SHELL SERVICE	2323 FIRESTONE	HIST CORTESE	Higher	2497, 0.473, NE
32	FIRESTONE - PARCEL 3	8809 CALDEN AVENUE,	RESPONSE, ENVIROSTOR	Higher	2541, 0.481, NE
33	JORDAN DOWNS REDEVEL	9901 SOUTH ALAMEDA S	ENVIROSTOR, VCP	Lower	2712, 0.514, SE
34	ATLAS IRON AND METAL	10019 SOUTH ALAMEDA	RESPONSE, ENVIROSTOR, DEED	Lower	2982, 0.565, SE
35	FIRESTONE TIRE & RUB		ENVIROSTOR	Higher	3079, 0.583, ENE
36	JORDAN HIGH SCHOOL	2265 EAST 103RD STRE	ENVIROSTOR, SCH	Lower	3114, 0.590, SSE
37	PROPOSED SOUTH REGIO	EAST 85TH STREET AND	ENVIROSTOR	Higher	3210, 0.608, NNE
J38	SOUTH GATE REMEDIAL	2525 E FIRESTONE BLV	RCRA-SQG, ENVIROSTOR, SCH, FINDS, ECHO, HAZNET	Higher	3426, 0.649, NE
J39	FIRESTONE TIRE & RUB	2525 FIRESTONE BLVD	HIST Cal-Sites, FINDS, ECHO, HIST CORTESE	Higher	3426, 0.649, NE

MAPPED SITES SUMMARY

Target Property Address:
9211 GRAPE ST
LOS ANGELES, CA 90002

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
J40	FIRESTONE - PARCEL 1	2525 FIRESTONE BLVD	RESPONSE, ENVIROSTOR, VCP, Cortese	Higher	3426, 0.649, NE
41	SPHINX MANUFACTURING	2401 E 103RD ST	ENVIROSTOR, HWP	Lower	3445, 0.652, SE
K42	FIRESTONE - ENGLE SO	8440 ALAMEDA STREET	RESPONSE, ENVIROSTOR, SLIC, DEED, Cortese	Higher	3585, 0.679, NNE
K43	JACK ENGLE & COMPANY	8440 ALAMEDA	ENVIROSTOR, VCP, DEED, HIST CORTESE	Higher	3585, 0.679, NNE
44	JORGENSEN STEEL #3(F	10401 ALAMEDA ST.	ENVIROSTOR	Lower	4145, 0.785, SE
45	DAMILLE METAL SVC	8201 SANTA FE AVENUE	ENVIROSTOR, HAZNET	Higher	4176, 0.791, NNE
46	LA PARKERIZING COMPA	8205 SOUTH ALAMEDA S	ENVIROSTOR	Higher	4188, 0.793, NNE
47	PRPSD CHARTER SCHOOL	8145 AND 8205 BEACH	ENVIROSTOR, SCH	Higher	4198, 0.795, NNW
48	PROPOSED SOUTH REGIO	FIRESTONE BOULEVARD/	ENVIROSTOR, SCH	Higher	4372, 0.828, ENE
L49	GENERAL MOTORS CORP	2700 TWEEDY	ENVIROSTOR, LUST, SWEEPS UST, HIST CORTESE, LOS...	Lower	4440, 0.841, ESE
L50	GENERAL MOTORS CORP	2700 TWEEDY BLVD	LUST, HWP	Lower	4440, 0.841, ESE
L51	GMC-GM ASSEMBLY DIV	2700 TWEEDY BLVD	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG,...	Lower	4440, 0.841, ESE
52	MASTER WASH PRODUCTS	8122 ALAMEDA ST	ENVIROSTOR, HWP, NPDES	Higher	4562, 0.864, NNE
53	ACME SCREW PRODUCTS	7950 SOUTH ALAMEDA S	ENVIROSTOR, HAZNET	Higher	4878, 0.924, NNE

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/ NINETY-SECOND 9211 GRAPE STREET LOS ANGELES, CA 90002	HAZNET GEPAID: CAD982046401	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 CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

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

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
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN..... San Gabriel Valley Areas of Concern
US HIST CDL..... Delisted National Clandestine Laboratory Register
SCH..... School Property Evaluation Program
CDL..... Clandestine Drug Labs
Toxic Pits..... Toxic Pits Cleanup Act Sites
US CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CA FID UST..... Facility Inventory Database

EXECUTIVE SUMMARY

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information

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

FUDS	Formerly Used Defense Sites
DOD	Department of 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
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List

DRYCLEANERS Cleaner Facilities
EMI Emissions Inventory Data
ENF Enforcement Action Listing
Financial Assurance Financial Assurance Information Listing
ICE ICE
LOS ANGELES CO. HMS HMS: Street Number List
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
LA Co. Site Mitigation Site Mitigation List
UIC UIC Listing
WASTEWATER PITS Oil Wastewater Pits Listing
WDS Waste Discharge System

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 RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1

CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GMC-GM ASSEMBLY DIV	*2700 TWEEDY BLVD*	*ESE 1/2 - 1 (0.841 mi.)*	*L51*	*165*

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 12/12/2016 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAXON INDUSTRIES INC	*8901 JUNIPER*	*NE 1/8 - 1/4 (0.245 mi.)*	*12*	*18*

Lower Elevation	Address	Direction / Distance	Map ID	Page
JORDAN DOWNS	*9800 GRAPE ST*	*S 1/8 - 1/4 (0.237 mi.)*	*11*	*16*

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, has revealed that there are 6 RESPONSE sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIRESTONE - PARCEL 3	*2405 SOUTHERN AVENUE*	*ENE 1/4 - 1/2 (0.396 mi.)*	*F22*	*41*
Database: RESPONSE, Date of Government Version: 01/30/2017 Status: Certified O&M - Land Use Restrictions Only Facility Id: 70000168				
FIRESTONE - PARCEL 3	*8809 CALDEN AVENUE,*	*NE 1/4 - 1/2 (0.481 mi.)*	*32*	*68*
Database: RESPONSE, Date of Government Version: 01/30/2017 Status: Certified Facility Id: 70000167				
FIRESTONE - PARCEL 1	*2525 FIRESTONE BLVD*	*NE 1/2 - 1 (0.649 mi.)*	*J40*	*116*
Database: RESPONSE, Date of Government Version: 01/30/2017 Status: Active Facility Id: 19300231				
FIRESTONE - ENGLE SO	*8440 ALAMEDA STREET*	*NNE 1/2 - 1 (0.679 mi.)*	*K42*	*134*
Database: RESPONSE, Date of Government Version: 01/30/2017 Status: Active Facility Id: 70000165				

Lower Elevation	Address	Direction / Distance	Map ID	Page
WATTS DISCOVERY PROJ	*VARIOUS ADDRESSES NE*	*ESE 1/4 - 1/2 (0.399 mi.)*	*G23*	*44*
Database: RESPONSE, Date of Government Version: 01/30/2017				

Status: Active
Facility Id: 60002017

ATLAS IRON AND METAL	***10019 SOUTH ALAMEDA***	***SE 1/2 - 1 (0.565 mi.)***	***34***	***78***

Database: RESPONSE, Date of Government Version: 01/30/2017
Status: Certified O&M - Land Use Restrictions Only
Facility Id: 71003769

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 01/30/2017 has revealed that there are 24 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WILLIAMS RECYCLING	***2225 E 92ND ST.***	***ENE 1/4 - 1/2 (0.256 mi.)***	***C13***	***19***
Facility Id: 60000312				
Status: Inactive - Action Required				
R AND C RECYCLE	***9405 S ALAMEDA ST***	***E 1/4 - 1/2 (0.382 mi.)***	***20***	***32***
Facility Id: 71003770				
Status: No Further Action				
SOUTH GATE TOWNHOMES	***2405 SOUTHERN AVENUE***	***ENE 1/4 - 1/2 (0.396 mi.)***	***F21***	***36***
Facility Id: 60000767				
Status: Certified / Operation & Maintenance				
FIRESTONE - PARCEL 3	***2405 SOUTHERN AVENUE***	***ENE 1/4 - 1/2 (0.396 mi.)***	***F22***	***41***
Facility Id: 70000168				
Status: Certified O&M - Land Use Restrictions Only				
FIRESTONE - PARCEL 3	***8809 CALDEN AVENUE,***	***NE 1/4 - 1/2 (0.481 mi.)***	***32***	***68***
Facility Id: 70000167				
Status: Certified				
FIRESTONE TIRE & RUB		ENE 1/2 - 1 (0.583 mi.)	35	86
Facility Id: 80001005				
Status: Inactive - Needs Evaluation				
PROPOSED SOUTH REGIO	EAST 85TH STREET AND	NNE 1/2 - 1 (0.608 mi.)	37	98
Facility Id: 60000390				
Status: Inactive - Needs Evaluation				
SOUTH GATE REMEDIAL	***2525 E FIRESTONE BLV***	***NE 1/2 - 1 (0.649 mi.)***	***J38***	***99***
Facility Id: 19300241				
Status: No Action Required				
FIRESTONE - PARCEL 1	***2525 FIRESTONE BLVD***	***NE 1/2 - 1 (0.649 mi.)***	***J40***	***116***

Facility Id: 70000166
Facility Id: 19300231
Status: Active

FIRESTONE - ENGLE SO	***8440 ALAMEDA STREET***	***NNE 1/2 - 1 (0.679 mi.)***	***K42***	***134***
Facility Id: 70000165 Status: Active				
JACK ENGLE & COMPANY	***8440 ALAMEDA***	***NNE 1/2 - 1 (0.679 mi.)***	***K43***	***141***
Facility Id: 60000644 Status: Active				
DAMILLE METAL SVC	***8201 SANTA FE AVENUE***	***NNE 1/2 - 1 (0.791 mi.)***	***45***	***149***
Facility Id: 60002329 Status: Refer: EPA				
LA PARKERIZING COMPA	8205 SOUTH ALAMEDA S	NNE 1/2 - 1 (0.793 mi.)	46	151
Facility Id: 60002093 Status: Inactive - Needs Evaluation				
PRPSD CHARTER SCHOOL	***8145 AND 8205 BEACH***	***NNW 1/2 - 1 (0.795 mi.)***	***47***	***152***
Facility Id: 60001832 Status: No Further Action				
PROPOSED SOUTH REGIO	***FIRESTONE BOULEVARD/***	***ENE 1/2 - 1 (0.828 mi.)***	***48***	***155***
Facility Id: 60000891 Status: Certified				
MASTER WASH PRODUCTS	***8122 ALAMEDA ST***	***NNE 1/2 - 1 (0.864 mi.)***	***52***	***168***
Facility Id: 80001485 Status: * Inactive				
ACME SCREW PRODUCTS	***7950 SOUTH ALAMEDA S***	***NNE 1/2 - 1 (0.924 mi.)***	***53***	***172***
Facility Id: 60002325 Status: No Action Required				

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
WATTS DISCOVERY PROJ	***VARIOUS ADDRESSES NE***	***ESE 1/4 - 1/2 (0.399 mi.)***	***G23***	***44***
Facility Id: 60002017 Status: Active				
JORDAN DOWNS REDEVEL	***9901 SOUTH ALAMEDA S***	***SE 1/2 - 1 (0.514 mi.)***	***33***	***71***
Facility Id: 60001326 Status: Active				
ATLAS IRON AND METAL	***10019 SOUTH ALAMEDA***	***SE 1/2 - 1 (0.565 mi.)***	***34***	***78***
Facility Id: 71003769 Status: Certified O&M - Land Use Restrictions Only				
JORDAN HIGH SCHOOL	***2265 EAST 103RD STRE***	***SSE 1/2 - 1 (0.590 mi.)***	***36***	***87***
Facility Id: 19820114 Facility Id: 60001889 Status: Certified Status: No Further Action				
SPHINX MANUFACTURING	***2401 E 103RD ST***	***SE 1/2 - 1 (0.652 mi.)***	***41***	***133***
Facility Id: 80001346 Status: * Inactive				
JORGENSEN STEEL #3(F	10401 ALAMEDA ST.	SE 1/2 - 1 (0.785 mi.)	44	148
Facility Id: 19500247 Status: Refer: 1248 Local Agency				
GENERAL MOTORS CORP	***2700 TWEEDY***	***ESE 1/2 - 1 (0.841 mi.)***	***L49***	***159***

Facility Id: 80001547
Status: Inactive - Needs Evaluation

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 6 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ABC BINS Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T0603765586	8801 ALAMEDA ST.	NE 1/4 - 1/2 (0.368 mi.)	E19	31
LA CITY DEPT WATER & Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: 900020016 Status: Pollution Characterization Global ID: T0603700406	8627 FIR AVE	N 1/4 - 1/2 (0.420 mi.)	H25	50
LA CITY DEPT WATER & Database: LUST, Date of Government Version: 03/13/2017 Status: Open - Remediation Global Id: T0603700406	***8627 FIR AVE***	***N 1/4 - 1/2 (0.420 mi.)***	***H26***	***51***
ALVARADO'S TIRES Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T10000001176	2225 E FIRESTONE BLV	NNE 1/4 - 1/2 (0.459 mi.)	I29	63
JORGE MANSILLA PROPE Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T10000000384	1950 FIRESTONE BLVD	N 1/4 - 1/2 (0.466 mi.)	30	65

Lower Elevation	Address	Direction / Distance	Map ID	Page
G K DISPOSAL INC Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T0603720569	***9622 KALMIA ST***	***SE 1/4 - 1/2 (0.308 mi.)***	***14***	***23***

SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the SLIC list, as provided by EDR, has revealed that there are 5 SLIC sites within

approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ESSEF - PARCEL B	9000 GRAHAM AVE	WNW 1/4 - 1/2 (0.340 mi.)	D15	28
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Site Assessment Facility Status: Site Assessment Global Id: SLT43646644				
ESSEF - MAIN PARCEL	8825 BEACH	NW 1/4 - 1/2 (0.350 mi.)	17	29
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Remediation Facility Status: Site Assessment Global Id: SLT43647645				
ESSEF - PARCEL A	8906 GRAHAM AVE	NW 1/4 - 1/2 (0.362 mi.)	D18	30
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Site Assessment Facility Status: Site Assessment Global Id: SLT43645643				
MOBIL M-145 PIPELINE	***9600 ALAMEDA***	***ESE 1/4 - 1/2 (0.411 mi.)***	***24***	***48***
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: Site Assessment Facility Status: No further action required				
MOBIL M-8 PIPELINE	NO NUMBER ALAMEDA ST	ESE 1/4 - 1/2 (0.423 mi.)	G27	60
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Assessment & Interim Remedial Action Global Id: SL204DF2389				

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, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LA CO DPW ROAD RD DI	2120 E 90TH ST	NE 1/8 - 1/4 (0.193 mi.)	B7	11
Database: UST, Date of Government Version: 03/12/2017 Facility Id: 5392				

State and tribal voluntary cleanup sites

VCP: 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.

A review of the VCP list, as provided by EDR, and dated 01/30/2017 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOUTH GATE TOWNHOMES Status: Certified / Operation & Maintenance Facility Id: 60000767	***2405 SOUTHERN AVENUE***	***ENE 1/4 - 1/2 (0.396 mi.)***	***F21***	***36***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 03/13/2017 has revealed that there are 3 SWRCY sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SLAUSON RECYCLING Cert Id: RC150420.001	2241 E 89TH ST	NE 1/4 - 1/2 (0.348 mi.)	E16	28
R AND C RECYCLE Cert Id: RC12724	***9405 S ALAMEDA ST***	***E 1/4 - 1/2 (0.382 mi.)***	***20***	***32***
BESTWAY RECYCLING CO Cert Id: RC1142	***2268 E FIRESTONE BLV***	***NNE 1/4 - 1/2 (0.426 mi.)***	***I28***	***61***

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIRESTONE TIRE & RUB	***2525 FIRESTONE BLVD***	***NE 1/2 - 1 (0.649 mi.)***	***J39***	***105***

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 is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PARRISH, JOHN H - OW Status: A Comp Number: 1252	8919 S MINER ST	NNE 1/8 - 1/4 (0.164 mi.)	B6	11

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 is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAINTENANCE DISTRICT Facility Id: 00000033898	2120 E 90TH ST	NE 1/8 - 1/4 (0.193 mi.)	B9	13

Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 03/06/2017 has revealed that there are 2 DEED sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOUTH GATE TOWNHOMES Status: CERTIFIED / OPERATION & MAINTENANCE Envirostor ID: 60000767	***2405 SOUTHERN AVENUE***	***ENE 1/4 - 1/2 (0.396 mi.)***	***F21***	***36***
FIRESTONE - PARCEL 3 Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY Envirostor ID: 70000168	***2405 SOUTHERN AVENUE***	***ENE 1/4 - 1/2 (0.396 mi.)***	***F22***	***41***

Other Ascertainable Records

RCRA NonGen / NLR: 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.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LACDPW RMD - RD 241	2120 EAST 90TH STREE	NE 1/8 - 1/4 (0.193 mi.)	B8	11

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 (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 12/28/2016 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WATTS DISCOVERY PROJ	***VARIOUS ADDRESSES NE***	***ESE 1/4 - 1/2 (0.399 mi.)***	***G23***	***44***
Envirostor Id: 60002017				
Cleanup Status: ACTIVE				

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 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LA CITY DEPT WATER &	***8627 FIR AVE***	***N 1/4 - 1/2 (0.420 mi.)***	***H26***	***51***
Reg Id: 900020016				
FORMER SHELL SERVICE	2323 FIRESTONE	NE 1/4 - 1/2 (0.473 mi.)	31	68
Reg Id: 3096				

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 11/21/2016 has revealed that there are 3 HWP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MASTER WASH PRODUCTS	***8122 ALAMEDA ST***	***NNE 1/2 - 1 (0.864 mi.)***	***52***	***168***
EPA Id: CAD981979446				
Cleanup Status: KNOWN GENERATORS				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SPHINX MANUFACTURING	***2401 E 103RD ST***	***SE 1/2 - 1 (0.652 mi.)***	***41***	***133***
EPA Id: CAD000819813				
Cleanup Status: PROTECTIVE FILER				
GENERAL MOTORS CORP	***2700 TWEEDY BLVD***	***ESE 1/2 - 1 (0.841 mi.)***	***L50***	***162***

EPA Id: CAD008295719
Cleanup Status: CLOSED

PROC: A listing of certified processors.

A review of the PROC list, as provided by EDR, and dated 03/13/2017 has revealed that there is 1 PROC site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BESTWAY RECYCLING CO	***2268 E FIRESTONE BLV***	***NNE 1/4 - 1/2 (0.426 mi.)***	***I28***	***61***
Cert Id: PR0131				
Reg Id: 19251				

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 12/16/2016 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL MOTORS CORP	***2700 TWEEDY***	***ESE 1/2 - 1 (0.841 mi.)***	***L49***	***159***

WIP: Well Investigation Program case in the San Gabriel and San Fernando Valley area.

A review of the WIP list, as provided by EDR, and dated 07/03/2009 has revealed that there is 1 WIP site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WESTERN SUMMIT MFG C	***9120 JUNIPER ST***	***ENE 1/8 - 1/4 (0.218 mi.)***	***C10***	***13***
Facility Status: Historical				

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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 are 2 EDR Hist Auto

sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ANDERSON E A	1875 E 92D	NW 0 - 1/8 (0.086 mi.)	5	10
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
SAMUEL AUTO REPAIR &	9503 ANZAC AVE	SSW 0 - 1/8 (0.023 mi.)	A2	9

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 are 2 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

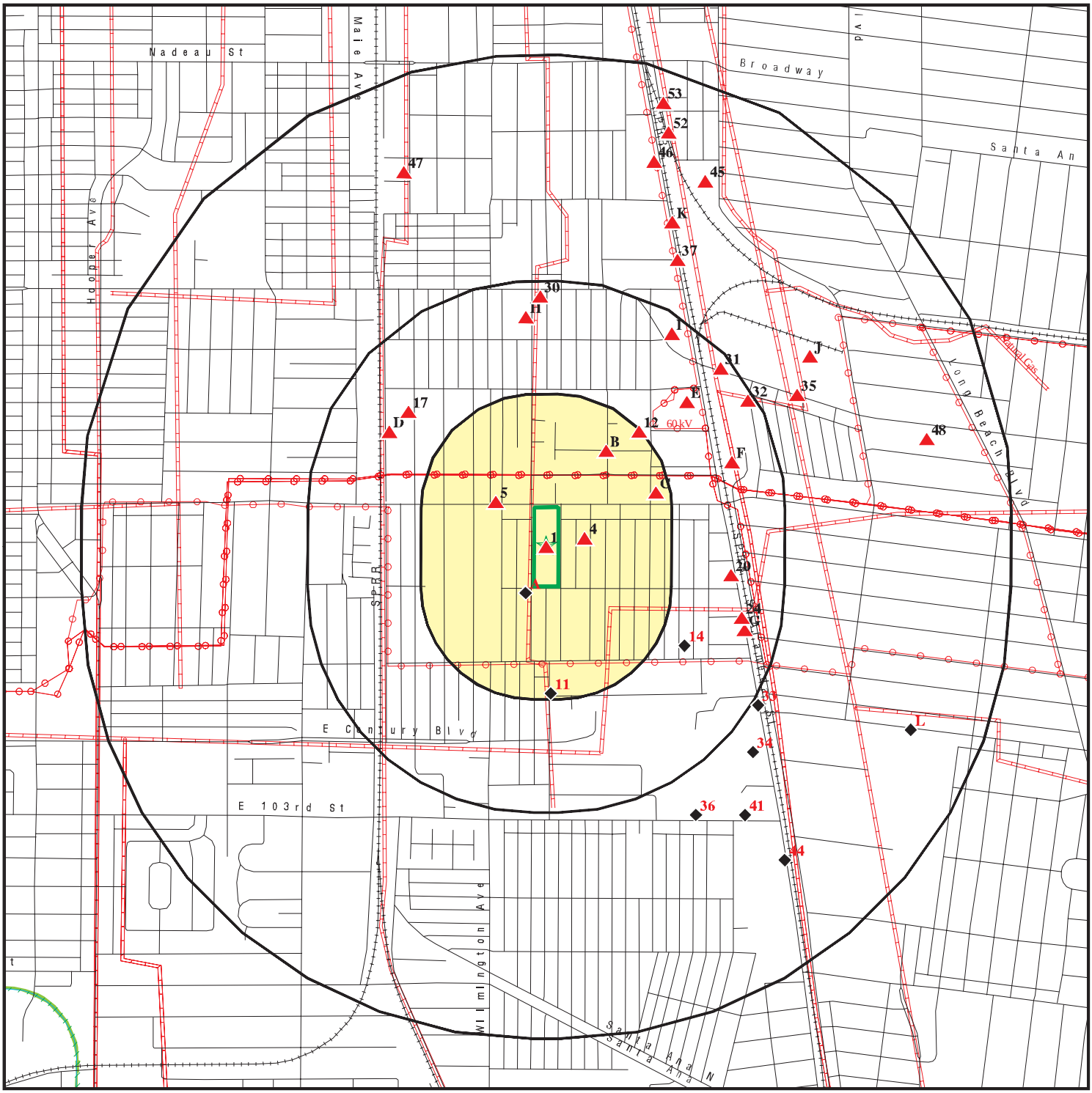
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTH STAR CARPET SE	9307 HICKORY ST	ENE 0 - 1/8 (0.058 mi.)	4	10
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
MULTI KLEEN	9517 ANZAC AVE	SSW 0 - 1/8 (0.047 mi.)	A3	10

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 12 records.

Site Name	Database(s)
KING/DREW MEDICAL MAGNET	LUST, HIST CORTESE
SOUTH CENTRAL DISCOVERY PROJECT	RESPONSE, ENVIROSTOR
SOUTH REGION HIGH SCHOOL #9 (56.40	ENVIROSTOR, SCH, DEED
WILMINGTON AVENUE DUMP	SEMS-ARCHIVE
CALTRANS SOUTH GATE	SWF/LF
WILMINGTON DUMP	ENVIROSTOR, WMUDS/SWAT
EXXON/MOBIL PIPELINE COMPANY LINE	SLIC
HUNTINGTON PARK NEW ELEM. SCHOOL N	ENVIROSTOR, SCH
SOUTH REGION ES #2, SITE 6A 564001	ENVIROSTOR, SCH
STANFORD NEW PRIMARY CENTER	ENVIROSTOR, SCH
SOUTHEASTERN AREA NEW HS NO. 2/MS	ENVIROSTOR, SCH
SOUTHEAST AREA NEW HS NO. 2/MS NO.	ENVIROSTOR, SCH

OVERVIEW MAP - 4961336.2S

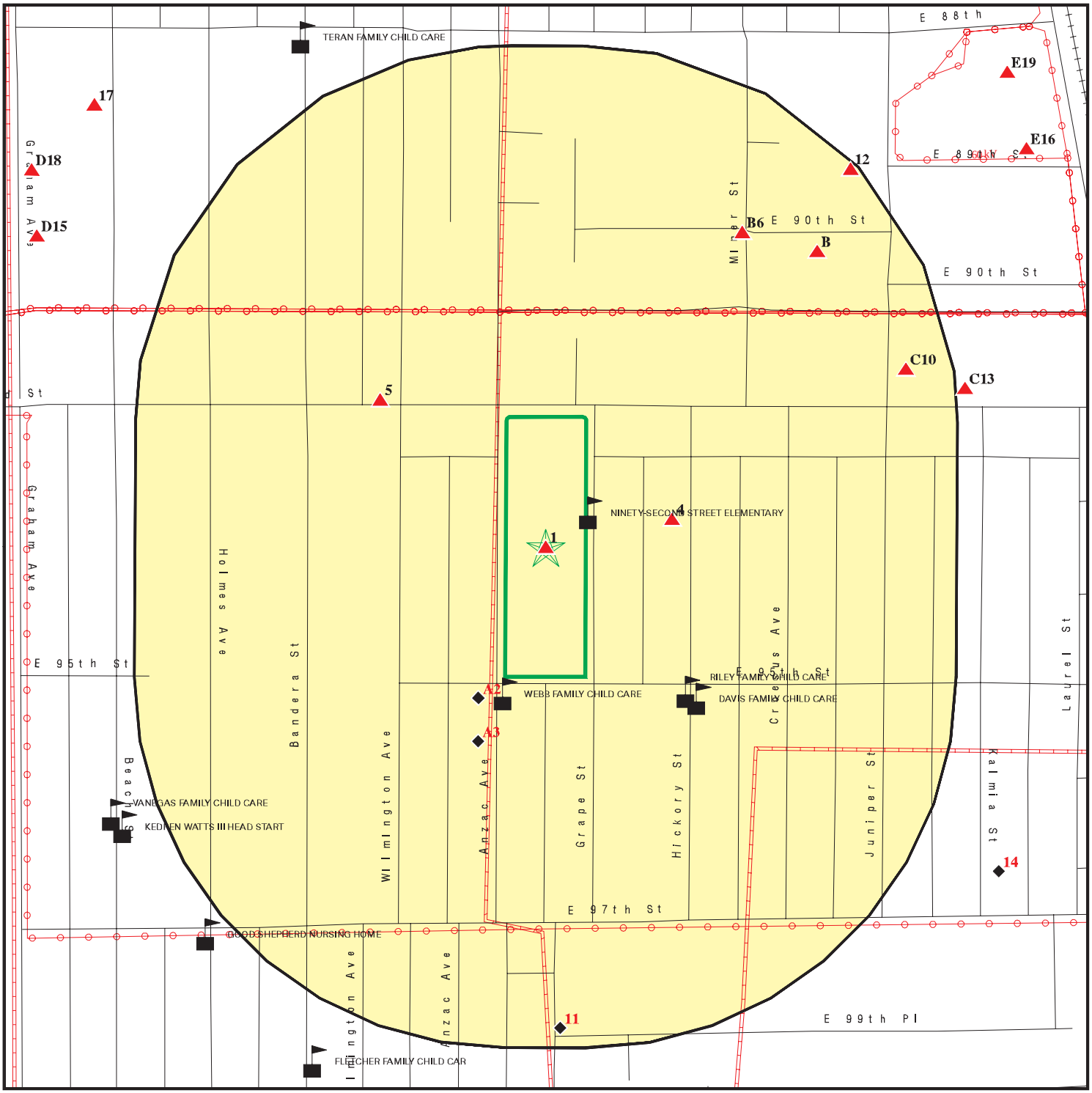


- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 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: 92nd Street Elementary School ADDRESS: 9211 Grape St Los Angeles CA 90002 LAT/LONG: 33.951885 / 118.236849	CLIENT: Accord Engineering, Inc CONTACT: Rice Xiao INQUIRY #: 4961336.2s DATE: June 08, 2017 7:22 pm

DETAIL MAP - 4961336.2S



- 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
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- 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: 92nd Street Elementary School	CLIENT: Accord Engineering, Inc
ADDRESS: 9211 Grape St Los Angeles CA 90002	CONTACT: Rice Xiao
LAT/LONG: 33.951885 / 118.236849	INQUIRY #: 4961336.2s DATE: June 08, 2017 7:23 pm

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	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
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		0	2	NR	NR	NR	2
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	3	3	NR	6
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	6	18	NR	24
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	0	6	NR	NR	6

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	5	NR	NR	5
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	1	NR	NR	1
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	3	NR	NR	3
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	1	NR	1
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	1	NR	NR	NR	1
HIST UST	0.250		0	1	NR	NR	NR	1
CA FID UST	0.250		0	0	NR	NR	NR	0
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	2	NR	NR	2

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
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
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	1	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
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
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	1	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	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
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
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	2	NR	NR	2
LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
HWP	1.000		0	0	0	3	NR	3
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
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	1	NR	NR	1
Notify 65	1.000		0	0	0	1	NR	1
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	1	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		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		2	NR	NR	NR	NR	2
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 --		1	4	7	30	27	0	69

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **LAUSD/ NINETY-SECOND ST. ELEM** **HAZNET** **S113013575**
Target **9211 GRAPE STREET** **N/A**
Property **LOS ANGELES, CA 90002**

Actual:
117 ft.

HAZNET:

envid:	S113013575
Year:	2007
GEPAID:	CAD982046401
Contact:	YI HWA KIM DEPUTY DIRECTOR
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	333 S Beaudry Ave 20th Fl
Mailing City,St,Zip:	Los Angeles, CA 900170000
Gen County:	Not reported
TSD EPA ID:	CAD008252405
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:	0.04
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113013575
Year:	2007
GEPAID:	CAD982046401
Contact:	YI HWA KIM DEPUTY DIRECTOR
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	333 S Beaudry Ave 20th Fl
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:	32
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113013575
Year:	2006
GEPAID:	CAD982046401
Contact:	YI HWA KIM DEPUTY DIRECTOR
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	333 S Beaudry Ave 20th Fl
Mailing City,St,Zip:	Los Angeles, CA 900170000
Gen County:	Not reported
TSD EPA ID:	CAD980884183
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05
Cat Decode:	Not reported

LAUSD/ NINETY-SECOND ST. ELEM (Continued) **S113013575**

Method Decode:	Not reported
Facility County:	Los Angeles
envid:	S113013575
Year:	2005
GEPAID:	CAD982046401
Contact:	YI HWA KIM DEPUTY DIRECTOR
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	333 S Beaudry Ave 20th Fl
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:	16.85
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles
envid:	S113013575
Year:	2002
GEPAID:	CAD982046401
Contact:	YI HWA KIM DEPUTY DIRECTOR
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	333 S Beaudry Ave 20th Fl
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:	Transfer Station
Tons:	0.07
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

A2 **SAMUEL AUTO REPAIR & SERVICE** **EDR Hist Auto** **1022099552**
SSW **9503 ANZAC AVE** **N/A**
< 1/8 **LOS ANGELES, CA 90002**
0.023 mi.
121 ft. **Site 1 of 2 in cluster A**

Relative:
Lower

Actual:
116 ft.

EDR Hist Auto

Year:	Name:	Type:
2001	SAMUEL AUTO REPAIR	General Automotive Repair Shops
2002	SAMUEL AUTO REPAIR	General Automotive Repair Shops
2003	SAMUEL AUTO REPAIR	General Automotive Repair Shops
2004	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops
2005	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops
2006	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops
2007	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops

SAMUEL AUTO REPAIR & SERVICE (Continued) **1022099552**

2008	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops
2009	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops
2010	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops
2011	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops
2012	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops
2013	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops
2014	SAMUEL AUTO REPAIR & SERVICE	General Automotive Repair Shops

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A3 **MULTI KLEEN** **EDR Hist Cleaner** **1018438740**
SSW **9517 ANZAC AVE** **N/A**
< 1/8 **LOS ANGELES, CA 90002**
0.047 mi.
249 ft. **Site 2 of 2 in cluster A**

Relative: EDR Hist Cleaner
Lower

Actual: **116 ft.**

Year:	Name:	Type:
2000	MULTI KLEEN	Garment Pressing And Cleaners' Agents
2001	MULTI KLEEN	Garment Pressing And Cleaners' Agents
2002	MULTI KLEEN	Garment Pressing And Cleaners' Agents
2003	MULTI KLEEN	Garment Pressing And Cleaners' Agents
2004	MULTI KLEEN	Garment Pressing And Cleaners' Agents

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4 **NORTH STAR CARPET SERVICES** **EDR Hist Cleaner** **1018695869**
ENE **9307 HICKORY ST** **N/A**
< 1/8 **LOS ANGELES, CA 90002**
0.058 mi.
306 ft.

Relative: EDR Hist Cleaner
Higher

Actual: **117 ft.**

Year:	Name:	Type:
1997	NORTH STAR CARPET SERVICES	Carpet And Upholstery Cleaning
1998	NORTH STAR CARPET SERVICES	Carpet And Upholstery Cleaning
1999	NORTH STAR CARPET SERVICES	Carpet And Upholstery Cleaning

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5 **ANDERSON E A** **EDR Hist Auto** **1009019928**
NW **1875 E 92D** **N/A**
< 1/8 **WATTS, CA**
0.086 mi.
455 ft.

Relative: EDR Hist Auto
Higher

Actual: **121 ft.**

Year:	Name:	Type:
1928	ANDERSON E A	AUTOMOBILE REPAIRING AND SERVICE STATIONS
1928	ANDERSON E A	GASOLINE AND OIL SERVICE STATIONS

B6 **PARRISH, JOHN H - OWNER** **SWEEPS UST** **S106930512**
NNE **8919 S MINER ST** **N/A**
1/8-1/4 **INGLEWOOD, CA 90301**
0.164 mi.
867 ft. **Site 1 of 4 in cluster B**

Relative:
Higher

Actual:
120 ft.

SWEEPS UST:

Status:	Active
Comp Number:	1252
Number:	9
Board Of Equalization:	Not reported
Referral Date:	03-20-91
Action Date:	03-20-91
Created Date:	06-30-89
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:	Not reported

B7 **LA CO DPW ROAD RD DIV 241** **UST** **U004050537**
NE **2120 E 90TH ST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90002**
0.193 mi.
1017 ft. **Site 2 of 4 in cluster B**

Relative:
Higher

Actual:
120 ft.

UST:

Facility ID:	5392
Permitting Agency:	LOS ANGELES, CITY OF
Latitude:	33.9560137
Longitude:	-118.232131

B8 **LACDPW RMD - RD 241** **RCRA NonGen / NLR** **1019327096**
NE **2120 EAST 90TH STREEET** **CAL000009816**
1/8-1/4 **LOS ANGELES, CA 90002**
0.193 mi.
1017 ft. **Site 3 of 4 in cluster B**

Relative:
Higher

Actual:
120 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/17/2016
Facility name:	LACDPW RMD - RD 241
Facility address:	2120 EAST 90TH STREEET LOS ANGELES, CA 90002
EPA ID:	CAL000009816
Mailing address:	EAST 90TH STREET LOS ANGELES, CA 90002
Contact:	ADRIANA FLORES
Contact address:	S FREMONT AVE ALHAMBRA, CA 91802
Contact country:	US
Contact telephone:	(626) 458-1762
Contact email:	AFLORES@DPW.LACOUNTY.GOV
EPA Region:	09
Classification:	Non-Generator

LACDPW RMD - RD 241 (Continued) **1019327096**

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: LOS ANGELES COUNTY DEPT OF PUBLIC WORKS
Owner/operator address: S FREMONT AVE
ALHAMBRA, CA 91802
Owner/operator country: US
Owner/operator telephone: (626) 458-6955
Legal status: County
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1985
Owner/Op end date: Not reported

Owner/operator name: ROAD MAINTENANCE - RD 241
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: County
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1985
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

. Waste code: 214
. Waste name: 214

. Waste code: 221
. Waste name: 221

. Waste code: 223
. Waste name: 223

. Waste code: 291
. Waste name: 291

. Waste code: 352
. Waste name: 352

. Waste code: D001

LACDPW RMD - RD 241 (Continued) **1019327096**

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

B9 **MAINTENANCE DISTRICT 4 - RD** **HIST UST** **U001560266**
NE **2120 E 90TH ST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90002**
0.193 mi.
1017 ft. **Site 4 of 4 in cluster B**

Relative:
Higher

Actual:
120 ft.

HIST UST:

File Number:	00027858
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027858.pdf
Region:	STATE
Facility ID:	00000033898
Facility Type:	Other
Other Type:	COUNTY GOVERNMENT
Contact Name:	LEO NORMAN
Telephone:	2135827848
Owner Name:	LOS ANGELES COUNTY ROAD DEPART
Owner Address:	1540 ALCAZAR ST.
Owner City,St,Zip:	LOS ANGELES, CA 90033
Total Tanks:	0002
Tank Num:	001
Container Num:	RD241-RG
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	RD241-D
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

C10 **WESTERN SUMMIT MFG CORP** **EMI** **S100948361**
ENE **9120 JUNIPER ST** **WIP** **N/A**
1/8-1/4 **LOS ANGELES, CA 90002**
0.218 mi.
1151 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
119 ft.

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	45397
Air District Name:	SC
SIC Code:	3565

WESTERN SUMMIT MFG CORP (Continued) **S100948361**

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:	19
Reactive Organic Gases Tons/Yr:	7
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 and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	45397
Air District Name:	SC
SIC Code:	3565
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:	46
Reactive Organic Gases Tons/Yr:	15
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 and Smllr Tons/Yr:	0

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	45397
Air District Name:	SC
SIC Code:	3565
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:	16
Reactive Organic Gases Tons/Yr:	12
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 and Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	45397
Air District Name:	SC
SIC Code:	2673
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:	18
Reactive Organic Gases Tons/Yr:	17
Carbon Monoxide Emissions Tons/Yr:	0

WESTERN SUMMIT MFG CORP (Continued) **S100948361**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	45397
Air District Name:	SC
SIC Code:	2673
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:	18
Reactive Organic Gases Tons/Yr:	17
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 and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	45397
Air District Name:	SC
SIC Code:	2673
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:	18
Reactive Organic Gases Tons/Yr:	17
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 and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	45397
Air District Name:	SC
SIC Code:	2673
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:	18
Reactive Organic Gases Tons/Yr:	17
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 and Smllr Tons/Yr:	0

Year:	2001

WESTERN SUMMIT MFG CORP (Continued) **S100948361**

County Code:	19
Air Basin:	SC
Facility ID:	45397
Air District Name:	SC
SIC Code:	2673
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	B
Total Organic Hydrocarbon Gases Tons/Yr:	18
Reactive Organic Gases Tons/Yr:	17
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 and Smllr Tons/Yr:	0

WIP:

Region:	4
File Number:	102.6808
File Status:	**Historical**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

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11 South 1/8-1/4 0.237 mi. 1249 ft.

JORDAN DOWNS
9800 GRAPE ST
LOS ANGELES, CA 90002

RCRA-SQG 1000184846
FINDS CAD981690431
ECHO

Relative: Lower

Actual: 112 ft.

RCRA-SQG:

Date form received by agency:	03/04/2002
Facility name:	JORDAN DOWNS
Facility address:	9800 GRAPE ST LOS ANGELES, CA 90002
EPA ID:	CAD981690431
Mailing address:	HOUSING AUTH CITY OF LA DCS DE PO BOX 17157 FOY STATION LOS ANGELES, CA 90017
Contact:	NANCY MAZZIE
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	(213) 252-4271
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:	LA CITY HOUSING AUTHORITY
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported

JORDAN DOWNS (Continued) **1000184846**

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

Historical Generators:
Date form received by agency: 03/04/2002
Site name: JORDAN DOWNS
Classification: Large Quantity Generator

Date form received by agency: 11/24/1986
Site name: JORDAN DOWNS LA HSNG AUTHORITY
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002754252

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,

JORDAN DOWNS (Continued) **1000184846**

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

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000184846
Registry ID: 110002754252
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002754252

12
NE
1/8-1/4
0.245 mi.
1296 ft.

MAXON INDUSTRIES INC
8901 JUNIPER
LOS ANGELES, CA 90002

RCRA-SQG **1000336966**
FINDS **CAD981574957**
ECHO

Relative:
Higher

Actual:
122 ft.

RCRA-SQG:
Date form received by agency: 11/11/1986
Facility name: MAXON INDUSTRIES INC
Facility address: 8901 JUNIPER
LOS ANGELES, CA 90002
EPA ID: CAD981574957
Mailing address: P O BOX 3434
LOS ANGELES, CA 90051
Contact: ENVIRONMENTAL MANAGER
Contact address: 8901 JUNIPER
LOS ANGELES, CA 90002
Contact country: US
Contact telephone: (415) 555-1212
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: MAXON INDUSTRIES INC
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: 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

MAXON INDUSTRIES INC (Continued) **1000336966**

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

FINDS:

Registry ID: 110002719988

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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000336966
Registry ID: 110002719988
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002719988

C13 **WILLIAMS RECYCLING** **ENVIROSTOR** **S108748913**
ENE **2225 E 92ND ST.** **HAULERS** **N/A**
1/4-1/2 **LOS ANGELES, CA 90002** **NPDES**
0.256 mi.
1352 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
119 ft.

ENVIROSTOR:
Facility ID: 60000312
Status: Inactive - Action Required
Status Date: 05/19/2006

WILLIAMS RECYCLING (Continued) **S108748913**

Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: unknown
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Rita Kamat
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 33
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 33.95362
Longitude: -118.2319
APN: 6045020004
Past Use: RECYCLING - SCRAP METAL, TRANSPORTATION - PIPELINE
Potential COC: Benzene TPH-diesel
Confirmed COC: 30024-NO 30003-NO
Potential Description: SOIL
Alias Name: 6045020004
Alias Type: APN
Alias Name: 60000312
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/19/2006
Comments: EPA APPROVAL BY MATT MITGUARD (PROJECT OFFICER)

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

HAULERS:
Facility ID: 1666677
Facility Phone: (323) 564-9969
Business Email Address: Not reported
Contact Person: Mona , Jessica Martinez, Williams Recycling Co. Inc , Natalie Squires
Mailing Address: 2225 E 92nd St
Mailing City: Los Angeles
Mailing State: CA
Mailing Zip: 90002-2602
Mailing County: Los Angeles
Mailing Phone: (323) 564-9969
Waste Tire Permit Summary: No Permit record for this business.

WILLIAMS RECYCLING (Continued) **S108748913**

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	190482
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I013142
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:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	6/25/1997
STATUS CODE NAME:	Active
STATUS DATE:	6/25/1997
PLACE SIZE:	1
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Mona Howerton
FACILITY CONTACT TITLE:	Officer
FACILITY CONTACT PHONE:	714-269-2519
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	mona@williamssoftware.com
OPERATOR NAME:	William Recycling Co Inc
OPERATOR ADDRESS:	2225 E 92nd St
OPERATOR CITY:	Los Angeles
OPERATOR STATE:	California
OPERATOR ZIP:	90002
OPERATOR CONTACT NAME:	Mona Howerton
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	714-269-2519
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	mona@williamssoftware.com
OPERATOR TYPE:	State Agency
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	323-564-9969
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

WILLIAMS RECYCLING (Continued) **S108748913**

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:	N
RECEIVING WATER NAME:	MS
CERTIFIER NAME:	Mona Howerton
CERTIFIER TITLE:	Officer
CERTIFICATION DATE:	23-FEB-15
PRIMARY SIC:	5093-Scrap and Waste Materials
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	190482
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I013142
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/25/1997
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	William Recycling Co Inc
Discharge Address:	2225 E 92nd St
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90002
RECEIVED DATE:	Not reported
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

WILLIAMS RECYCLING (Continued) **S108748913**

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

14
SE
1/4-1/2
0.308 mi.
1626 ft.

G K DISPOSAL INC
9622 KALMIA ST
LOS ANGELES, CA 90002

LUST **1000110902**
HIST UST **CAD981164585**
RCRA NonGen / NLR
FINDS
ECHO

Relative:
Lower

Actual:
114 ft.

LUST:

Region:	STATE
Global Id:	T0603720569
Latitude:	33.948544
Longitude:	-118.231427
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/21/2009
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	MT
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-40782
LOC Case Number:	CLUP# 5000094

G K DISPOSAL INC (Continued) **1000110902**

File Location: Regional Board
Potential Media Affect: Well used for drinking water supply
Potential Contaminants of Concern: Gasoline, Benzene, Trichloroethylene (TCE)
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603720569
Contact Type: Regional Board Caseworker
Contact Name: MARYAM TAIDY
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: LOS ANGELES
Email: mtaidy@waterboards.ca.gov
Phone Number: 2135766741

Global Id: T0603720569
Contact Type: Local Agency Caseworker
Contact Name: TIM SMITH
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: tsmith@dpw.lacounty.gov
Phone Number: Not reported

Status History:
Global Id: T0603720569
Status: Completed - Case Closed
Status Date: 07/21/2009

Global Id: T0603720569
Status: Open - Case Begin Date
Status Date: 12/01/2006

Global Id: T0603720569
Status: Open - Site Assessment
Status Date: 03/12/2007

Global Id: T0603720569
Status: Open - Site Assessment
Status Date: 03/09/2009

Regulatory Activities:
Global Id: T0603720569
Action Type: RESPONSE
Date: 03/04/2009
Action: Soil and Water Investigation Workplan

Global Id: T0603720569
Action Type: RESPONSE
Date: 04/15/2009
Action: Soil and Water Investigation Report

Global Id: T0603720569
Action Type: ENFORCEMENT
Date: 06/15/2009

G K DISPOSAL INC (Continued) **1000110902**

Action: Staff Letter

Global Id: T0603720569
Action Type: ENFORCEMENT
Date: 03/09/2009
Action: Staff Letter

Global Id: T0603720569
Action Type: ENFORCEMENT
Date: 09/16/2008
Action: Notice to Comply

Global Id: T0603720569
Action Type: RESPONSE
Date: 07/24/2008
Action: Other Report / Document

Global Id: T0603720569
Action Type: ENFORCEMENT
Date: 01/20/2009
Action: Site Visit / Inspection / Sampling

Global Id: T0603720569
Action Type: ENFORCEMENT
Date: 02/09/2009
Action: Staff Letter

Global Id: T0603720569
Action Type: ENFORCEMENT
Date: 07/21/2009
Action: Closure/No Further Action Letter

Global Id: T0603720569
Action Type: Other
Date: 03/08/2007
Action: Leak Reported

Global Id: T0603720569
Action Type: ENFORCEMENT
Date: 06/24/2008
Action: 13267 Requirement

Global Id: T0603720569
Action Type: Other
Date: 12/01/2006
Action: Leak Discovery

HIST UST:
File Number: 0002699F
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002699F.pdf
Region: STATE
Facility ID: 00000033869
Facility Type: Other
Other Type: RUBBISH COMPANY
Contact Name: KENNETH EDWARES GENERAL MGR.
Telephone: 2135646949

G K DISPOSAL INC (Continued) **1000110902**

Owner Name: G.K. DISPOSAL, INC.
Owner Address: 9622 KALMIA STREET
Owner City,St,Zip: LOS ANGELES, CA 90002
Total Tanks: 0003

Tank Num: 001
Container Num: #1
Year Installed: Not reported
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

RCRA NonGen / NLR:
Date form received by agency: 11/23/1985
Facility name: G K DISPOSAL INC
Facility address: 9622 KALMIA ST
LOS ANGELES, CA 90002
EPA ID: CAD981164585
Mailing address: KALMIA ST
LOS ANGELES, CA 90002
Contact: ENVIRONMENTAL MANAGER
Contact address: 9622 KALMIA ST
LOS ANGELES, CA 90002
Contact country: US
Contact telephone: (213) 564-6949
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MARGARET KADASHIAN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999

G K DISPOSAL INC (Continued) **1000110902**

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
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

FINDS:

Registry ID: 110002679806

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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000110902
Registry ID: 110002679806
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002679806

D15 **ESSEF - PARCEL B** **SLIC** **S104181114**
WNW **9000 GRAHAM AVE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90002**
0.340 mi.
1795 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
129 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	08/30/1999
Global Id:	SLT43646644
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.953513
Longitude:	-118.242081
Case Type:	Cleanup Program Site
Case Worker:	PC
Local Agency:	Not reported
RB Case Number:	0866B
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply, Soil
Potential Contaminants of Concern:	1,1,1-Trichloroethane (TCA), Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Pursuant to previous investigation at the former ESSEF/American Concrete Products property, soil and groundwater were contaminated with volatile organic compounds (VOCs) including 1,1,1-TCA, 1,1-DCA, 1,1-DCE, 1,2-DCA and 1,4-Dioxane, The likely source of VOCs is associated with a former 1,1,1-TCA wash down area. Remediation activities were conducted from 2003 with soil gas extraction system and groudwater extraction. Responsible party proposed to revise the remediation with ozone gas injection in December 2009. General Waste Discharge Requirements was issued in March 2010 for the proposed remedial activities. All activities are combined with ESSEF Main (ID No. SLT43647645). Reports from the discharger are available from SLT43647645.

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

Region:	4
Facility Status:	Site Assessment
SLIC:	0866B
Substance:	VOCs
Staff:	GJH

E16 **SLAUSON RECYCLING** **SWRCY** **S111711601**
NE **2241 E 89TH ST** **N/A**
1/4-1/2 **LOS ANGELES, CA 90002**
0.348 mi.
1840 ft. **Site 1 of 2 in cluster E**

Relative:
Higher

Actual:
123 ft.

SWRCY:

Reg Id:	150420
Cert Id:	RC150420.001
Mailing Address:	1701 E Slauson Ave
Mailing City:	Los Angeles
Mailing State:	CA
Mailing Zip Code:	90058
Website:	Not reported

SLAUSON RECYCLING (Continued) **S111711601**

Email:	slausonrecycling1@gmail.com
Phone Number:	(323) 589-9202
Grand Father:	N
Rural:	N
Operation Begin Date:	01/14/2012
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	7:00 am - 7:00 pm
Tuesday Hours Of Operation:	7:00 am - 7:00 pm
Wednesday Hours Of Operation:	7:00 am - 7:00 pm
Thursday Hours Of Operation:	7:00 am - 7:00 pm
Friday Hours Of Operation:	7:00 am - 7:00 pm
Saturday Hours Of Operation:	7:00 am - 7:00 pm
Sunday Hours Of Operation:	7:00 am - 7:00 pm
Organization ID:	19109
Organization Name:	Slauson Recycling

17
NW
1/4-1/2
0.350 mi.
1846 ft.

ESSEF - MAIN PARCEL **SLIC** **S104181108**
8825 BEACH **N/A**
LOS ANGELES, CA 90002

Relative:
Higher

Actual:
129 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	01/27/2010
Global Id:	SLT43647645
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.953523
Longitude:	-118.241041
Case Type:	Cleanup Program Site
Case Worker:	PC
Local Agency:	Not reported
RB Case Number:	0866C
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply, Soil
Potential Contaminants of Concern:	1,1,1-Trichloroethane (TCA), Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Pursuant to previous investigation at the former ESSEF/American Concrete Products property, soil and groundwater were contaminated with volatile organic compounds (VOCs) including 1,1,1-TCA, 1,1-DCA, 1,1-DCE, 1,2-DCA and 1,4-Dioxane, The likely source of VOCs is associated with a former 1,1,1-TCA wash down area. Remediation activities were conducted from 2003 with soil gas extraction system and groudwater extraction. Responsible party proposed to revise the remediation with ozone gas injection in December 2009. General Waste Discharge Requirements was issued in March 2010 for the proposed remedial activities.

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

ESSEF - MAIN PARCEL (Continued) **S104181108**

Region: 4
Facility Status: Site Assessment
SLIC: 0866C
Substance: VOCs
Staff: GJH

D18 **ESSEF - PARCEL A** **SLIC** **S104181113**
NW **8906 GRAHAM AVE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90002**
0.362 mi.
1910 ft. **Site 2 of 2 in cluster D**

Relative:
Higher

Actual:
131 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	08/30/1999
Global Id:	SLT43645643
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.953513
Longitude:	-118.242081
Case Type:	Cleanup Program Site
Case Worker:	PC
Local Agency:	Not reported
RB Case Number:	0866A/D
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply, Soil
Potential Contaminants of Concern:	1,1,1-Trichloroethane (TCA), Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Pursuant to previous investigation at the former ESSEF/American Concrete Products property, soil and groundwater were contaminated with volatile organic compounds (VOCs) including 1,1,1-TCA, 1,1-DCA, 1,1-DCE, 1,2-DCA and 1,4-Dioxane, The likely source of VOCs is associated with a former 1,1,1-TCA wash down area. Remediation activities were conducted from 2003 with soil gas extraction system and groudwater extraction. Responsible party proposed to revise the remediation with ozone gas injection in December 2009. General Waste Discharge Requirements was issued in March 2010 for the proposed remedial activities. All activities are combined with ESSEF Main (ID No. SLT43647645). Reports from discharger can be downloaded from ESSEF Main Parcel ID No. SLT43647645. Lead contamination was found in early 2015 when installing a new downgradient monitoring well.

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:
Region: 4
Facility Status: Site Assessment
SLIC: 0866A
Substance: VOCs
Staff: GJH

E19 **ABC BINS** **LUST** **S108997010**
NE **8801 ALAMEDA ST.** **N/A**
1/4-1/2 **LOS ANGELES, CA 9002-**
0.368 mi.
1943 ft. **Site 2 of 2 in cluster E**

Relative:
Higher

Actual:
125 ft.

LUST:

Region:	STATE
Global Id:	T0603765586
Latitude:	33.956552
Longitude:	-118.2314
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/14/2008
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	NR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
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:	T0603765586
Contact Type:	Local Agency Caseworker
Contact Name:	NIKOLAUS REPPUHN
Organization Name:	LOS ANGELES COUNTY
Address:	900 SOUTH FREEMONT AVE.
City:	ALHAMBRA
Email:	nreppuhn@dpw.lacounty.gov
Phone Number:	Not reported

Global Id:	T0603765586
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

Status History:

Global Id:	T0603765586
Status:	Completed - Case Closed
Status Date:	02/14/2008

Global Id:	T0603765586
Status:	Open - Case Begin Date
Status Date:	09/01/2007

Global Id:	T0603765586
Status:	Open - Site Assessment
Status Date:	09/30/2007

ABC BINS (Continued) **S108997010**

Regulatory Activities:

Global Id:	T0603765586
Action Type:	ENFORCEMENT
Date:	02/14/2008
Action:	Closure/No Further Action Letter
Global Id:	T0603765586
Action Type:	Other
Date:	10/01/2007
Action:	Leak Reported
Global Id:	T0603765586
Action Type:	Other
Date:	09/01/2007
Action:	Leak Discovery

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20 **R AND C RECYCLE** **ENVIROSTOR** **S106800484**
East **9405 S ALAMEDA ST** **SWRCY** **N/A**
1/4-1/2 **LOS ANGELES, CA 90002** **WDS**
0.382 mi.
2017 ft.

Relative:
Higher

Actual:
117 ft.

ENVIROSTOR:

Facility ID:	71003770
Status:	No Further Action
Status Date:	03/30/2004
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Chatsworth
Assembly:	59
Senate:	33
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.95101
Longitude:	-118.2296
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAL000167701
Alias Type:	EPA Identification Number
Alias Name:	71003770
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

R AND C RECYCLE (Continued) **S106800484**

Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 04/20/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 01/18/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/14/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 03/24/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 03/29/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * IM Public Participation
Completed Date: 03/10/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/30/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 04/26/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Implementation Report
Completed Date: 03/20/2005
Comments: Soil pile containing contamination was removed and confirmation sampling showed no impact to surface below the pile.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 03/29/2005

R AND C RECYCLE (Continued) **S106800484**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * IM Public Participation
Completed Date: 03/24/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 04/27/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Action Completion Determination
Completed Date: 06/27/2005
Comments: Soil pile containing contamination was removed and confirmation sampling showed no impact to surface below the pile.

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

SWRCY:
Reg Id: 18705
Cert Id: RC12724
Mailing Address: 215 W 93Rd St
Mailing City: Los Angeles
Mailing State: CA
Mailing Zip Code: 90003
Website: Not reported
Email: Not reported
Phone Number: Not reported
Grand Father: N
Rural: N
Operation Begin Date: 09/02/2005
Aluminium: Y
Glass: Y
Plastic: Y
Bimetal: Y
Agency: N/A
Monday Hours Of Operation: 8:00 am - 4:00 pm
Tuesday Hours Of Operation: 8:00 am - 4:00 pm
Wednesday Hours Of Operation: 8:00 am - 4:00 pm
Thursday Hours Of Operation: 8:00 am - 4:00 pm
Friday Hours Of Operation: 8:00 am - 4:00 pm
Saturday Hours Of Operation: 8:00 am - 4:00 pm
Sunday Hours Of Operation: 8:00 am - 2:00 pm
Organization ID: 18705

R AND C RECYCLE (Continued) **S106800484**

Organization Name: R and C Recycle

WDS:

Facility ID:	4 19I018979
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	4
Facility Telephone:	3235950203
Facility Contact:	Cristobal Tinoco
Agency Name:	CRISTOBAL TINOCO
Agency Address:	215 W 93rd St
Agency City,St,Zip:	Los Angeles 90003
Agency Contact:	Cristobal Tinoco
Agency Telephone:	3235950203
Agency Type:	Private
SIC Code:	5093
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

F21 **SOUTH GATE TOWNHOMES PROJECT** **ENVIROSTOR** **S108225356**
ENE **2405 SOUTHERN AVENUE** **VCP** **N/A**
1/4-1/2 **SOUTH GATE, CA 90001** **DEED**
0.396 mi.
2093 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
123 ft.

ENVIROSTOR:

Facility ID:	60000767
Status:	Certified / Operation & Maintenance
Status Date:	10/01/2014
Site Code:	301560
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	5.05
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Laura Radke
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Assembly:	63
Senate:	33
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	33.95527
Longitude:	-118.2297
APN:	6204-033-015, 6204-033-016
Past Use:	MANUFACTURING - OTHER
Potential COC:	Arsenic
Confirmed COC:	Arsenic
Potential Description:	SOIL
Alias Name:	6204-033-015
Alias Type:	APN
Alias Name:	6204-033-016
Alias Type:	APN
Alias Name:	110033605356
Alias Type:	EPA (FRS #)
Alias Name:	301198
Alias Type:	Site Code - Historical
Alias Name:	301378
Alias Type:	Project Code (Site Code)
Alias Name:	301560
Alias Type:	Project Code (Site Code)
Alias Name:	60000767
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	07/22/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	01/07/2006
Comments:	Not reported

SOUTH GATE TOWNHOMES PROJECT (Continued) **S108225356**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 11/18/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 01/08/2008
Comments: Applicant provided a complete document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/08/2008
Comments: RP conducted additional sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/14/2008
Comments: DTSC has not identified any issues that would rquire modifications of the work plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/05/2008
Comments: DTSC has no identified any issues that would require modifications of the report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/05/2009
Comments: RP provided the necessary information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 03/05/2009
Comments: RP provided the necessary information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 09/15/2009
Comments: DTSC needed more information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/09/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE

SOUTH GATE TOWNHOMES PROJECT (Continued) **S108225356**

Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Amendment
Completed Date: 07/16/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/23/2017
Comments: 2017 Annual Site Inspection complete

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2019
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: 60000767
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 5.05
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Laura Radke
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Site Code: 301560
Assembly: 63
Senate: 33
Special Programs Code: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 10/01/2014
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 33.95527 / -118.2297
APN: 6204-033-015, 6204-033-016
Past Use: MANUFACTURING - OTHER
Potential COC: 30001
Confirmed COC: 30001
Potential Description: SOIL
Alias Name: 6204-033-015
Alias Type: APN
Alias Name: 6204-033-016
Alias Type: APN
Alias Name: 110033605356
Alias Type: EPA (FRS #)
Alias Name: 301198
Alias Type: Site Code - Historical
Alias Name: 301378

SOUTH GATE TOWNHOMES PROJECT (Continued) **S108225356**

Alias Type: Project Code (Site Code)
Alias Name: 301560
Alias Type: Project Code (Site Code)
Alias Name: 60000767
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/22/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/07/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 11/18/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 01/08/2008
Comments: Applicant provided a complete document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/08/2008
Comments: RP conducted additional sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/14/2008
Comments: DTSC has not identified any issues that would rquire modifications of the work plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/05/2008
Comments: DTSC has no identified any issues that would require modifications of the report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/05/2009
Comments: RP provided the necessary information.

Completed Area Name: PROJECT WIDE

SOUTH GATE TOWNHOMES PROJECT (Continued) **S108225356**

Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 03/05/2009
Comments: RP provided the necessary information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 09/15/2009
Comments: DTSC needed more information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/09/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Amendment
Completed Date: 07/16/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/23/2017
Comments: 2017 Annual Site Inspection complete

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2019
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: 60000767
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED / OPERATION & MAINTENANCE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 07/16/2014

F22
ENE
1/4-1/2
0.396 mi.
2093 ft.

FIRESTONE - PARCEL 3S
2405 SOUTHERN AVENUE - SOUTH GATE
SOUTH GATE, CA 90280

Site 2 of 2 in cluster F

RESPONSE
ENVIROSTOR
DEED

S107616204
N/A

Relative:
Higher

Actual:
123 ft.

RESPONSE:

Facility ID:	70000168
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	4
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Pete Cooke
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Site Code:	301560
Site Mgmt. Req.:	REM, DAY, ELD, HOS, LUC, FEN, NOWN, NUSE, NDEV, NSUB, SCH, FOOD, RES
Assembly:	63
Senate:	33
Special Program Status:	Not reported
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	01/24/2014
Restricted Use:	YES
Funding:	Responsible Party
Latitude:	33.95345
Longitude:	-118.2294
APN:	6204-033-007
Past Use:	FIRE TRAINING AREAS, JET FUEL STORAGE/REFUELING
Potential COC :	Arsenic TPH-gas TPH-JET FUEL
Confirmed COC:	TPH-gas Arsenic TPH-JET FUEL
Potential Description:	OTH, SOIL
Alias Name:	6204-033-007
Alias Type:	APN
Alias Name:	110033615407
Alias Type:	EPA (FRS #)
Alias Name:	301198
Alias Type:	Project Code (Site Code)
Alias Name:	301560
Alias Type:	Project Code (Site Code)
Alias Name:	301560
Alias Type:	Project Code (Site Code)
Alias Name:	70000168
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	11/25/2002
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:	03/04/1994
Comments:	Not reported
Completed Area Name:	PROJECT WIDE

FIRESTONE - PARCEL 3S (Continued) **S107616204**

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/11/2000
Comments: TM completed for all parcels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 12/12/2005
Comments: Soil Gas Sampling and Piezometer Workplan submitted 11/7/2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/23/2006
Comments: DTSC approved for No Further Action with Deed Restriction, restricting Parcel B to industial and/or commercial and parking.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 01/17/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/07/2006
Comments: OK

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: 70000168
Status: Certified O&M - Land Use Restrictions Only
Status Date: 01/24/2014
Site Code: 301560
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Pete Cooke
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: 63
Senate: 33
Special Program: Not reported

FIRESTONE - PARCEL 3S (Continued) **S107616204**

Restricted Use: YES
Site Mgmt Req: REM, DAY, ELD, HOS, LUC, FEN, NOWN, NUSE, NDEV, NSUB, SCH, FOOD, RES
Funding: Responsible Party
Latitude: 33.95345
Longitude: -118.2294
APN: 6204-033-007
Past Use: FIRE TRAINING AREAS, JET FUEL STORAGE/REFUELING
Potential COC: Arsenic TPH-gas TPH-JET FUEL
Confirmed COC: TPH-gas Arsenic TPH-JET FUEL
Potential Description: OTH, SOIL
Alias Name: 6204-033-007
Alias Type: APN
Alias Name: 110033615407
Alias Type: EPA (FRS #)
Alias Name: 301198
Alias Type: Project Code (Site Code)
Alias Name: 301560
Alias Type: Project Code (Site Code)
Alias Name: 301560
Alias Type: Project Code (Site Code)
Alias Name: 70000168
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 11/25/2002
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: 03/04/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/11/2000
Comments: TM completed for all parcels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 12/12/2005
Comments: Soil Gas Sampling and Piezometer Workplan submitted 11/7/2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/23/2006
Comments: DTSC approved for No Further Action with Deed Restriction, restricting Parcel B to industial and/or commercial and parking.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction

FIRESTONE - PARCEL 3S (Continued) **S107616204**

Completed Date: 01/17/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/07/2006
Comments: OK

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: 70000168
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 01/17/2006

G23 **WATTS DISCOVERY PROJECT** **RESPONSE** **S117038666**
ESE **VARIOUS ADDRESSES NEAR ALAMEDA STREET** **ENVIROSTOR** **N/A**
1/4-1/2 **LOS ANGELES, CA 90002** **Cortese**
0.399 mi.
2108 ft. **Site 1 of 2 in cluster G**

Relative:
Lower

Actual:
115 ft.

RESPONSE:
Facility ID: 60002017
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jessy Fierro
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Site Code: 900272
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 59
Senate: 33
Special Program Status: Not reported
Status: Active
Status Date: 02/12/2016
Restricted Use: NO
Funding: Orphan Funds
Latitude: 33.94876
Longitude: -118.2298

WATTS DISCOVERY PROJECT (Continued) **S117038666**

APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC : NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 900272
Alias Type: Project Code (Site Code)
Alias Name: 60002017
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 12/11/2015
Comments: Discovery report sent to EPA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/13/2015
Comments: Field work: soil sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/09/2015
Comments: An investigation was conducted within the following area: between Laurel St and Alameda St, south of East 95th St and north of East 97th Street. Soil, soil gas, and groundwater samples were obtained and analyzed. Samples indicated elevated concentrations of tricholoroethylene (TCE) and tetrachloroethylene (PCE) in the soil gas and groundwater. Further work needs to be done.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/04/2014
Comments: Sites have been selected to move forward with sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Work Plan
Completed Date: 11/06/2014
Comments: Sampling Workplan accepted by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/01/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/20/2015
Comments: Not reported

WATTS DISCOVERY PROJECT (Continued) **S117038666**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/05/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 09/23/2014
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/04/2014
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: 60002017
Status: Active
Status Date: 02/12/2016
Site Code: 900272
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jessy Fierro
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Orphan Funds
Latitude: 33.94876
Longitude: -118.2298
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 900272
Alias Type: Project Code (Site Code)

WATTS DISCOVERY PROJECT (Continued) **S117038666**

Alias Name: 60002017
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 12/11/2015
Comments: Discovery report sent to EPA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/13/2015
Comments: Field work: soil sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/09/2015
Comments: An investigation was conducted within the following area: between Laurel St and Alameda St, south of East 95th St and north of East 97th Street. Soil, soil gas, and groundwater samples were obtained and analyzed. Samples indicated elevated concentrations of tricholoroethylene (TCE) and tetrachloroethylene (PCE) in the soil gas and groundwater. Further work needs to be done.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/04/2014
Comments: Sites have been selected to move forward with sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Work Plan
Completed Date: 11/06/2014
Comments: Sampling Workplan accepted by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/01/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/20/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/05/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE

WATTS DISCOVERY PROJECT (Continued) **S117038666**

Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 09/23/2014
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/04/2014
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

CORTESE:
Region: CORTESE
Envirostor Id: 60002017
Site/Facility Type: STATE RESPONSE
Cleanup Status: ACTIVE
Status Date: 02/12/2016
Site Code: 900272
Latitude: 33.948763
Longitude: -118.22989
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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24 **MOBIL M-145 PIPELINE** **SLIC S106387168**
ESE **9600 ALAMEDA** **ENF N/A**
1/4-1/2 **LOS ANGELES, CA 90002**
0.411 mi.
2170 ft.

Relative:
Higher

Actual:
117 ft.

SLIC REG 4:
Region: 4
Facility Status: Site Assessment
SLIC: 0946
Substance: TPH/VOCs
Staff: SH

Region: 4
Facility Status: No further action required

MOBIL M-145 PIPELINE (Continued) **S106387168**

SLIC: 0946A
Substance: Not reported
Staff: SH

ENF:

Region:	4
Facility Id:	243165
Agency Name:	ExxonMobil Oil Corporation Torrance
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	SLIC
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	4SLIC946
Reg Measure Id:	168139
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported

MOBIL M-145 PIPELINE (Continued) **S106387168**

Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	230272
Region:	4
Order / Resolution Number:	13267 Letter
Enforcement Action Type:	13267 Letter
Effective Date:	07/13/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	8/16/2000
Termination Date:	08/16/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 4SLIC946
Description:	13267 Letter sent 7/13/00 requiring PRP to investigate possible release from pipeline.
Program:	SLIC
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

H25 **LA CITY DEPT WATER & POWER** **LUST** **S102432370**
North **8627 FIR AVE** **N/A**
1/4-1/2 **WATTS, CA 90002**
0.420 mi.
2219 ft. **Site 1 of 2 in cluster H**

Relative:
Higher

Actual:
126 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	900020016	
Status:	Pollution Characterization	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Remove Free Product
Global ID:	T0603700406	
W Global ID:	Not reported	
Staff:	MB	
Local Agency:	19050	
Cross Street:	Not reported	

LA CITY DEPT WATER & POWER (Continued) **S102432370**

Enforcement Type:	DLLET	
Date Leak Discovered:	3/20/1984	
Date Leak First Reported:		3/23/1984
Date Leak Record Entered:	12/31/1986	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		8/12/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	KURODA, RANDALL	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2842.22920497482701272375128 17
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		2/5/1997
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		7/15/1997
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:		2/19/2003
Hist Max MTBE Conc in Groundwater:		257
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	=	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	ROBERT D. FREEMAN	
RP Address:	111 N. HOPE ST., RM. #1116	
Program:	LUST	
Lat/Long:	33.959676 / -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:	INITIALLY ASSIGNED TO TRB. LA DWP NOTIFIED LARWQCB OF TANK LEAK. TANK HAS BEEN REMOVED. APPROXIMATELY 6000 GAL. OF GASOLINE HAVE BEEN RECOVERED.; MTBE=33 UG/L ; 10/20/00 3RD QTR MON RPT 2000;1/11/01 4TH QTR GW MON RPT 2000;	

H26 **LA CITY DEPT WATER & POWER** **LUST** **S105024609**
North **8627 FIR AVE** **HIST CORTESE** **N/A**
1/4-1/2 **WATTS, CA 90002**
0.420 mi.
2219 ft. **Site 2 of 2 in cluster H**

Relative:
Higher

LUST:

Region:	STATE
Global Id:	T0603700406
Latitude:	33.959676
Longitude:	-118.2374999

Actual:
126 ft.

LA CITY DEPT WATER & POWER (Continued) **S105024609**

Case Type:	LUST Cleanup Site
Status:	Open - Remediation
Status Date:	07/31/2006
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	MB
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900020016
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:	T0603700406
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:	T0603700406
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

Status History:

Global Id:	T0603700406
Status:	Open - Case Begin Date
Status Date:	03/20/1984

Global Id:	T0603700406
Status:	Open - Remediation
Status Date:	07/31/2006

Global Id:	T0603700406
Status:	Open - Site Assessment
Status Date:	02/05/1997

Global Id:	T0603700406
Status:	Open - Site Assessment
Status Date:	07/15/1997

Regulatory Activities:

Global Id:	T0603700406
Action Type:	RESPONSE
Date:	07/15/2005
Action:	Monitoring Report - Quarterly

LA CITY DEPT WATER & POWER (Continued) **S105024609**

Global Id:	T0603700406
Action Type:	RESPONSE
Date:	07/15/2005
Action:	Soil and Water Investigation Report
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	07/15/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	07/15/2006
Action:	Soil and Water Investigation Report
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	01/15/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	01/15/2009
Action:	Conceptual Site Model
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	04/15/2010
Action:	Conceptual Site Model
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	10/15/2014
Action:	Conceptual Site Model
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	11/21/2014
Action:	Pilot Study/ Treatability Report
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	07/15/2007
Action:	CAP/RAP - Final Remediation / Design Plan
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	04/15/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	04/15/2007
Action:	Soil and Water Investigation Report
Global Id:	T0603700406
Action Type:	RESPONSE

LA CITY DEPT WATER & POWER (Continued) **S105024609**

Date: 07/15/2007
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2003
Action: Interim Remedial Action Plan

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/15/2003
Action: Sensitive Receptor Survey Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 01/15/2012
Action: Conceptual Site Model

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2009
Action: Conceptual Site Model

LA CITY DEPT WATER & POWER (Continued) **S105024609**

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2006
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 01/15/2008
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/15/2010
Action: Conceptual Site Model

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0603700406
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE

LA CITY DEPT WATER & POWER (Continued) **S105024609**

Date: 10/15/2015
Action: Conceptual Site Model

Global Id: T0603700406
Action Type: ENFORCEMENT
Date: 12/01/2015
Action: Staff Letter

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2010
Action: Conceptual Site Model

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603700406
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 01/27/2012
Action: Other Report / Document

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2005
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: Other
Date: 03/23/1984
Action: Leak Reported

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2008
Action: Soil and Water Investigation Report

LA CITY DEPT WATER & POWER (Continued) **S105024609**

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2012
Action: Conceptual Site Model

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603700406
Action Type: ENFORCEMENT
Date: 02/28/2003
Action: 13267 Requirement

Global Id: T0603700406
Action Type: RESPONSE
Date: 01/15/2005
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/15/2006
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2006
Action: Interim Remedial Action Plan

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: ENFORCEMENT
Date: 01/07/2004
Action: 13267 Requirement

Global Id: T0603700406
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE

LA CITY DEPT WATER & POWER (Continued) **S105024609**

Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/24/2002
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 11/27/2012
Action: Well Installation Workplan - Regulator Responded

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/15/2012
Action: Conceptual Site Model - Regulator Responded

Global Id: T0603700406
Action Type: ENFORCEMENT
Date: 03/23/2006
Action: Staff Letter

Global Id: T0603700406
Action Type: Other
Date: 03/20/1984
Action: Leak Discovery

Global Id: T0603700406
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/15/2008
Action: Soil and Water Investigation Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603700406
Action Type: RESPONSE
Date: 10/07/2013
Action: Well Destruction Report

Global Id: T0603700406
Action Type: RESPONSE
Date: 07/08/2014
Action: Pilot Study / Treatability Workplan - Regulator Responded

LA CITY DEPT WATER & POWER (Continued) **S105024609**

Global Id:	T0603700406
Action Type:	RESPONSE
Date:	07/15/2013
Action:	Conceptual Site Model - Regulator Responded
Global Id:	T0603700406
Action Type:	ENFORCEMENT
Date:	10/24/2002
Action:	* No Action
Global Id:	T0603700406
Action Type:	ENFORCEMENT
Date:	03/27/2007
Action:	Staff Letter
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	10/15/2008
Action:	Monitoring Report - Quarterly
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	07/15/2009
Action:	Conceptual Site Model
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	10/15/2005
Action:	Monitoring Report - Quarterly
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	10/15/2005
Action:	Soil and Water Investigation Report
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	01/15/2006
Action:	Soil and Water Investigation Report
Global Id:	T0603700406
Action Type:	RESPONSE
Date:	07/15/2014
Action:	Conceptual Site Model
Global Id:	T0603700406
Action Type:	REMEDIATION
Date:	05/01/1984
Action:	Free Product Removal
Global Id:	T0603700406
Action Type:	REMEDIATION
Date:	11/16/2014
Action:	Soil Vapor Extraction (SVE)

LA CITY DEPT WATER & POWER (Continued) **S105024609**

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 900020016

G27 **MOBIL M-8 PIPELINE** **SLIC** **S118504551**
ESE **NO NUMBER ALAMEDA ST NEAR 96TH ST** **N/A**
1/4-1/2 **LOS ANGELES, CA 90002**
0.423 mi.
2231 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
117 ft.

SLIC:
Region: STATE
Facility Status: **Open - Assessment & Interim Remedial Action**
Status Date: 03/26/2010
Global Id: SL204DF2389
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.9492162969333
Longitude: -118.229219913483
Case Type: Cleanup Program Site
Case Worker: LC
Local Agency: Not reported
RB Case Number: 0946
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil Vapor
Potential Contaminants of Concern: Benzene, Total Petroleum Hydrocarbons (TPH)
Site History: The Los Angeles Regional Water Quality Control Board (Regional Board) is the public agency with primary responsibility for the protection of ground and surface water quality for all beneficial uses within major portions of Los Angeles and Ventura Counties, including the site located along Alameda Street between 94th Street and 97th Street, in Los Angeles (Site). The Mobil M-8 pipeline was installed in 1923 along the western side of Alameda Street, and transported gasoline and crude oil until 1973 when it was abandoned in place. In 1998, during the preparation of the Alameda Corridor construction, soil impacted with petroleum hydrocarbons was encountered in the vicinity of the M-8 pipeline, Alameda Street and 96th Street. Since 2000, soil matrix, soil vapor, and groundwater investigations and cleanup have been conducted by ExxonMobil under the regulatory oversight of the Regional Board at the general vicinity of Alameda Street between 94th Street and 97th Street. To remove contaminants in the vadoze zone, a soil vapor extraction (SVE) was installed in 2008. To date more than 220,000 pounds of hydrocarbons have been removed. Benzene concentrations in soil vapor have been decreasing since the beginning of SVE system operations. Free product (floating on top of groundwater) has been encountered in monitoring wells installed in the vicinity of West Alameda Street between 94th and 97th Street. Free product removal activities started in 2002, and recovered to date approximately 1,747 gallons. In 2007, a multidepth soil vapor survey was conducted in the vicinity of residential homes on East Alameda Street and Missouri Avenue. Soil vapor results were used to conduct an evaluation of soil vapor intrusion into indoor air. The evaluation indicated that there was no significant risk to human health associated with vapor intrusion. To address the dissolved-phase groundwater contamination, a remediation system

MOBIL M-8 PIPELINE (Continued) **S118504551**

including air sparge wells and additional soil vapor extraction wells was already installed in 2016. System startup is pending upon removal of free product from newly installed air sparge wells. In November 2016, the Regional Board approved a work plan to conduct a soil vapor survey in the vicinity of residential and commercial properties. INFORMACION EN ESPANOL En el 2007, en base al resultado de investigaciones del suelo y agua subterranea, muestras de gas (vapor) del suelo fueron recolectadas en los alrededores de viviendas localizadas en Alameda Street, al este del Corredor Alameda (lineas del tren), entre Kansas Avenue e Indiana Avenue. Concentraciones de benceno (componente del petroleo) en las muestras de vapor del suelo fueron encontradas por debajo de niveles de regulacion para residencias. Estas concentraciones indican que no existe un riesgo significativo para la salud humana. En Noviembre del 2016, se aprobo un plan de trabajo para conducir una investigacion del vapor del suelo en las cercanias de propiedades residenciales y comerciales. Para informacion en Espanol, por favor contactar a Luis Changkuon al (213) 576-6667 o luis.changkuon@waterboards.ca.gov

Click here to access the California GeoTracker records for this facility:

I28 **BESTWAY RECYCLING CO INC** **SWRCY** **U003059334**
NNE **2268 E FIRESTONE BLVD** **PROC** **N/A**
1/4-1/2 **LOS ANGELES, CA 90002** **WDS**
0.426 mi.
2251 ft. **Site 1 of 2 in cluster I**

Relative:
Higher

Actual:
126 ft.

SWRCY:

Reg Id:	19251
Cert Id:	RC1142
Mailing Address:	P O Box 109
Mailing City:	South Gate
Mailing State:	CA
Mailing Zip Code:	90280
Website:	Not reported
Email:	Not reported
Phone Number:	(323) 588-8157
Grand Father:	N
Rural:	N
Operation Begin Date:	10/02/1987
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	7:30 am - 4:30 pm
Tuesday Hours Of Operation:	7:30 am - 4:30 pm
Wednesday Hours Of Operation:	7:30 am - 4:30 pm
Thursday Hours Of Operation:	7:30 am - 4:30 pm
Friday Hours Of Operation:	7:30 am - 4:30 pm
Saturday Hours Of Operation:	7:30 am - 2:30 pm
Sunday Hours Of Operation:	7:30 am - 12:00 pm
Organization ID:	19251
Organization Name:	Bestway Recycling Co Inc

PROC:

Reg Id:	19251

BESTWAY RECYCLING CO INC (Continued) **U003059334**

Cert Id:	PR0131
Organization Id:	19251
Organization Name:	Bestway Recycling Co Inc
Mailing Address:	P O Box 109
Mailing City:	South Gate
Mailing State:	CA
Mailing Zip Code:	90280
Website:	Not reported
Email:	Not reported
Phone Number:	(323) 588-8157
Grand Father:	N/A
Rural:	N/A
Operation Begin Date:	01/09/1992
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	7:30 am - 4:30 pm
Tuesday Hours Of Operation:	7:30 am - 4:30 pm
Wednesday Hours Of Operation:	7:30 am - 4:30 pm
Thursday Hours Of Operation:	7:30 am - 4:30 pm
Friday Hours Of Operation:	7:30 am - 4:30 pm
Saturday Hours Of Operation:	7:30 am - 2:30 pm
Sunday Hours Of Operation:	7:30 am - 11:30 am

WDS:

Facility ID:	4 19I004291
Facility Type:	Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	4
Facility Telephone:	Not reported
Facility Contact:	David Lee
Agency Name:	BESTWAY RECYCLING
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	5093
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order

BESTWAY RECYCLING CO INC (Continued) **U003059334**

should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

I29 **ALVARADO'S TIRES** **LUST** **S109604505**
NNE **2225 E FIRESTONE BLVD** **N/A**
1/4-1/2 **LOS ANGELES, CA 90002**
0.459 mi.
2423 ft. **Site 2 of 2 in cluster I**

Relative:
Higher

Actual:
127 ft.

LUST:

Region:	STATE
Global Id:	T10000001176
Latitude:	33.96018
Longitude:	-118.246729
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/07/2015
Lead Agency:	SWRCB
Case Worker:	MC
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Benzene, Toluene, Xylene, Diesel, Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T10000001176
Contact Type:	Local Agency Caseworker
Contact Name:	ALBERTO GRAJEDA
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	algrajeda@dpw.lacounty.gov
Phone Number:	Not reported

Global Id:	T10000001176
Contact Type:	Regional Board Caseworker
Contact Name:	MATTHEW COHEN
Organization Name:	SWRCB
Address:	1001 I Street
City:	SACRAMENTO
Email:	mcohen@waterboards.ca.gov
Phone Number:	9163415751

ALVARADO'S TIRES (Continued) **S109604505**

Global Id: T10000001176
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

Status History:
Global Id: T10000001176
Status: Completed - Case Closed
Status Date: 01/07/2015

Global Id: T10000001176
Status: Open - Case Begin Date
Status Date: 06/10/2008

Global Id: T10000001176
Status: Open - Eligible for Closure
Status Date: 06/02/2009

Global Id: T10000001176
Status: Open - Eligible for Closure
Status Date: 07/29/2014

Global Id: T10000001176
Status: Open - Site Assessment
Status Date: 06/02/2009

Regulatory Activities:
Global Id: T10000001176
Action Type: Other
Date: 06/10/2009
Action: Leak Discovery

Global Id: T10000001176
Action Type: ENFORCEMENT
Date: 07/17/2013
Action: Referral to Other State Agency - #000750512

Global Id: T10000001176
Action Type: ENFORCEMENT
Date: 05/26/2009
Action: Staff Letter

Global Id: T10000001176
Action Type: ENFORCEMENT
Date: 04/09/2014
Action: Notification - Public Notice of Case Closure

Global Id: T10000001176
Action Type: Other
Date: 06/10/2008
Action: Leak Stopped

ALVARADO'S TIRES (Continued) **S109604505**

Global Id:	T10000001176
Action Type:	ENFORCEMENT
Date:	01/07/2015
Action:	Closure/No Further Action Letter
Global Id:	T10000001176
Action Type:	Other
Date:	06/10/2008
Action:	Leak Reported
Global Id:	T10000001176
Action Type:	RESPONSE
Date:	08/05/2009
Action:	Soil and Water Investigation Workplan
Global Id:	T10000001176
Action Type:	ENFORCEMENT
Date:	07/28/2014
Action:	State Water Board Closure Order
Global Id:	T10000001176
Action Type:	RESPONSE
Date:	04/17/2014
Action:	Fact Sheets - Public Participation

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30 **JORGE MANSILLA PROPERTY** **LUST** **S109285355**
North **1950 FIRESTONE BLVD** **N/A**
1/4-1/2 **LOS ANGELES, CA 90001**
0.466 mi.
2460 ft.

Relative:
Higher

Actual:
127 ft.

LUST:

Region:	STATE
Global Id:	T10000000384
Latitude:	33.96018
Longitude:	-118.246729
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/02/2016
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	AT
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-48860
LOC Case Number:	Not reported
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Benzene, Toluene, Xylene, Diesel, MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T10000000384
Contact Type:	Local Agency Caseworker
Contact Name:	ALBERTO GRAJEDA
Organization Name:	LOS ANGELES COUNTY

JORGE MANSILLA PROPERTY (Continued) **S109285355**

Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: algrajeda@dpw.lacounty.gov
Phone Number: Not reported

Global Id: T10000000384
Contact Type: Regional Board Caseworker
Contact Name: ARMAN TOUMARI
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 WEST 4TH STREET, SUITE 200
City: LOS ANGELES
Email: atoumari@waterboards.ca.gov
Phone Number: 2135766708

Status History:
Global Id: T10000000384
Status: Completed - Case Closed
Status Date: 05/02/2016

Global Id: T10000000384
Status: Open - Case Begin Date
Status Date: 08/01/2008

Global Id: T10000000384
Status: Open - Eligible for Closure
Status Date: 08/11/2015

Global Id: T10000000384
Status: Open - Site Assessment
Status Date: 10/01/2008

Global Id: T10000000384
Status: Open - Site Assessment
Status Date: 08/09/2013

Regulatory Activities:
Global Id: T10000000384
Action Type: ENFORCEMENT
Date: 08/16/2012
Action: Staff Letter - #000721491

Global Id: T10000000384
Action Type: RESPONSE
Date: 07/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T10000000384
Action Type: ENFORCEMENT
Date: 05/02/2016
Action: Closure/No Further Action Letter

Global Id: T10000000384
Action Type: RESPONSE
Date: 11/06/2014
Action: Clean Up Fund - 5-Year Review Summary

JORGE MANSILLA PROPERTY (Continued) **S109285355**

Global Id:	T10000000384
Action Type:	RESPONSE
Date:	01/15/2015
Action:	Monitoring Report - Semi-Annually
Global Id:	T10000000384
Action Type:	ENFORCEMENT
Date:	03/15/2013
Action:	Staff Letter
Global Id:	T10000000384
Action Type:	RESPONSE
Date:	07/15/2015
Action:	Monitoring Report - Semi-Annually
Global Id:	T10000000384
Action Type:	ENFORCEMENT
Date:	01/03/2013
Action:	Referral to Regional Board - #000732722
Global Id:	T10000000384
Action Type:	RESPONSE
Date:	03/30/2016
Action:	Well Destruction Report
Global Id:	T10000000384
Action Type:	ENFORCEMENT
Date:	08/09/2013
Action:	Staff Letter
Global Id:	T10000000384
Action Type:	RESPONSE
Date:	05/15/2013
Action:	Correspondence
Global Id:	T10000000384
Action Type:	RESPONSE
Date:	08/15/2013
Action:	Soil and Water Investigation Workplan - Regulator Responded
Global Id:	T10000000384
Action Type:	RESPONSE
Date:	10/15/2013
Action:	Soil and Water Investigation Report - Regulator Responded
Global Id:	T10000000384
Action Type:	RESPONSE
Date:	01/28/2014
Action:	Request for Closure - Regulator Responded
Global Id:	T10000000384
Action Type:	ENFORCEMENT
Date:	08/19/2015
Action:	Notification - Preclosure
Global Id:	T10000000384
Action Type:	ENFORCEMENT

JORGE MANSILLA PROPERTY (Continued) **S109285355**

Date: 11/04/2015
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T10000000384
Action Type: Other
Date: 10/01/2008
Action: Leak Reported

Global Id: T10000000384
Action Type: RESPONSE
Date: 12/10/2014
Action: Request for Closure - Regulator Responded

Global Id: T10000000384
Action Type: Other
Date: 08/01/2008
Action: Leak Discovery

Global Id: T10000000384
Action Type: ENFORCEMENT
Date: 07/09/2013
Action: Staff Letter

31
NE
1/4-1/2
0.473 mi.
2497 ft.

FORMER SHELL SERVICE STAT **HIST CORTESE** **S105026683**
2323 FIRESTONE **N/A**
SOUTH GATE, CA 90280

Relative:
Higher

Actual:
127 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 3096

32
NE
1/4-1/2
0.481 mi.
2541 ft.

FIRESTONE - PARCEL 3N **RESPONSE** **S107736322**
8809 CALDEN AVENUE, SOUTH GATE **ENVIROSTOR** **N/A**
SOUTH GATE, CA 90280

Relative:
Higher

Actual:
126 ft.

RESPONSE:
Facility ID: 70000167
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Site Code: 301240
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 63

FIRESTONE - PARCEL 3N (Continued) **S107736322**

Senate:	33
Special Program Status:	Not reported
Status:	Certified
Status Date:	05/04/2006
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	33.95707
Longitude:	-118.2291
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ORCHARD
Potential COC :	Arsenic
Confirmed COC:	Arsenic
Potential Description:	SOIL
Alias Name:	110033615390
Alias Type:	EPA (FRS #)
Alias Name:	301240
Alias Type:	Project Code (Site Code)
Alias Name:	70000167
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Workplan
Completed Date:	09/17/2004
Comments:	Workplan for soil gas and soil sampling based on Tech. Memo 2000
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	05/04/2006
Comments:	PEA completed with NFA
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	07/31/2004
Comments:	PEA Workplan completed on approx. July 2004
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	11/25/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	05/04/2006
Comments:	OK
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

FIRESTONE - PARCEL 3N (Continued) **S107736322**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 70000167
Status: Certified
Status Date: 05/04/2006
Site Code: 301240
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 6
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: 63
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.95707
Longitude: -118.2291
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ORCHARD
Potential COC: Arsenic
Confirmed COC: Arsenic
Potential Description: SOIL
Alias Name: 110033615390
Alias Type: EPA (FRS #)
Alias Name: 301240
Alias Type: Project Code (Site Code)
Alias Name: 70000167
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 09/17/2004
Comments: Workplan for soil gas and soil sampling based on Tech. Memo 2000

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/04/2006
Comments: PEA completed with NFA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 07/31/2004
Comments: PEA Workplan completed on approx. July 2004

Completed Area Name: PROJECT WIDE

FIRESTONE - PARCEL 3N (Continued) **S107736322**

Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 11/25/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/04/2006
Comments: OK

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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33 SE 1/2-1 0.514 mi. 2712 ft.

JORDAN DOWNS REDEVELOPMENT CLEANUP **ENVIROSTOR S110445645**
9901 SOUTH ALAMEDA STREET **VCP N/A**
LOS ANGELES, CA 90002

Relative: Lower

Actual: 113 ft.

ENVIROSTOR:
Facility ID: 60001326
Status: Active
Status Date: 09/25/2016
Site Code: 301493
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 21
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Haissam Salloum
Supervisor: Sayareh Amirebrahimi
Division Branch: Cleanup Chatsworth
Assembly: 52, 59
Senate: 33
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.94654
Longitude: -118.2324
APN: NONE SPECIFIED
Past Use: MANUFACTURING - METAL
Potential COC: Arsenic Benzene Lead Polychlorinated biphenyls (PCBs Tetrachloroethylene (PCE TPH-diesel Trichloroethylene (TCE Cadmium and compounds Polychlorinated biphenyls (PCBs, see IRIS
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL, SV
Alias Name: 301493
Alias Type: Project Code (Site Code)

JORDAN DOWNS REDEVELOPMENT CLEANUP (Continued) **S110445645**

Alias Name: 60001326
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/30/2014
Comments: DTSC required additional soil gas sampling and lead screening.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Environmental Impact Report
Completed Date: 07/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/15/2010
Comments: The VCA was signed by the President & CEO of the Housing Authority of the City of Los Angeles on 6/27/2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/30/2014
Comments: Response to Comments document for two public comment periods ending on 11/20/2013 and 6/23/2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/07/2014
Comments: Letter from the Jordan Downs EJ Coalition

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Official Letter was sent to Responsible Party.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/21/2010
Comments: Workplan for additional site characterization received on December 1, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 02/17/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice

JORDAN DOWNS REDEVELOPMENT CLEANUP (Continued) **S110445645**

Completed Date:	03/01/2011
Comments:	Work notice distributed to Jordan Downs residents
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	11/29/2010
Comments:	Environmental Sampling of Site Perimeter Document included as supplemental information to the project
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	06/30/2014
Comments:	The Interim RAP has been approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	12/29/2011
Comments:	Human Health Risk Assessment approved on 12/29/2011.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	09/29/2011
Comments:	Soil management plan approved on 9/29/2011.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	08/12/2013
Comments:	The English and Spanish versions of the Community Notice has been uploaded
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	08/25/2014
Comments:	Soil Metal Offsite Characterization completed, no further action.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	06/10/2014
Comments:	Approved
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	11/18/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	11/21/2016

JORDAN DOWNS REDEVELOPMENT CLEANUP (Continued) **S110445645**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 05/24/2011
Comments: DTSC requested that additional remediation acitivities be completed to determine the lateral and vetical extent of the contaminants of concern.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 05/24/2011
Comments: Feasibility study is included as part of the Remedial Action Plan in Appendix C

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 03/11/2014
Comments: The workplan for additional soil gas investigation approved for implementation on 3/11/2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/22/2014
Comments: Community Notice for the Jordan Downs Redevelopment Cleanup has been uploaded on 5/22/2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/20/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/12/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 05/05/2015
Comments: OLC completed work support.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2018
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2017

JORDAN DOWNS REDEVELOPMENT CLEANUP (Continued) **S110445645**

Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Plan
Schedule Due Date: 05/30/2017
Schedule Revised Date: Not reported

VCP:
Facility ID: 60001326
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 21
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Haissam Salloum
Supervisor: Sayareh Amirebrahimi
Division Branch: Cleanup Chatsworth
Site Code: 301493
Assembly: 52, 59
Senate: 33
Special Programs Code: Voluntary Cleanup Program
Status: Active
Status Date: 09/25/2016
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 33.94654 / -118.2324
APN: NONE SPECIFIED
Past Use: MANUFACTURING - METAL
Potential COC: 30001, 30003, 30013, 30018, 30022, 30024, 30027, 30108, 30468
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL, SV
Alias Name: 301493
Alias Type: Project Code (Site Code)
Alias Name: 60001326
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/30/2014
Comments: DTSC required additional soil gas sampling and lead screening.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Environmental Impact Report
Completed Date: 07/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/15/2010
Comments: The VCA was signed by the President & CEO of the Housing Authority of the City of Los Angeles on 6/27/2010.

JORDAN DOWNS REDEVELOPMENT CLEANUP (Continued) **S110445645**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/30/2014
Comments: Response to Comments document for two public comment periods ending on 11/20/2013 and 6/23/2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/07/2014
Comments: Letter from the Jordan Downs EJ Coalition

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Official Letter was sent to Responsible Party.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/21/2010
Comments: Workplan for additional site characterization received on December 1, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 02/17/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 03/01/2011
Comments: Work notice distributed to Jordan Downs residents

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/29/2010
Comments: Environmental Sampling of Site Perimeter Document included as supplemental information to the project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/30/2014
Comments: The Interim RAP has been approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 12/29/2011
Comments: Human Health Risk Assessment approved on 12/29/2011.

JORDAN DOWNS REDEVELOPMENT CLEANUP (Continued) **S110445645**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 09/29/2011
Comments: Soil management plan approved on 9/29/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 08/12/2013
Comments: The English and Spanish versions of the Community Notice has been uploaded

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 08/25/2014
Comments: Soil Metal Offsite Characterization completed, no further action.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/10/2014
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 11/18/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 11/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 05/24/2011
Comments: DTSC requested that additional remediation acitivities be completed to determine the lateral and vetical extent of the contaminants of concern.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 05/24/2011
Comments: Feasibility study is included as part of the Remedial Action Plan in Appendix C

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 03/11/2014
Comments: The workplan for additional soil gas investigation approved for

JORDAN DOWNS REDEVELOPMENT CLEANUP (Continued) **S110445645**

implementation on 3/11/2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/22/2014
Comments: Community Notice for the Jordan Downs Redevelopment Cleanup has been uploaded on 5/22/2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/20/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/12/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 05/05/2015
Comments: OLC completed work support.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2018
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2017
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Plan
Schedule Due Date: 05/30/2017
Schedule Revised Date: Not reported

34
SE
1/2-1
0.565 mi.
2982 ft.

ATLAS IRON AND METAL COMPANY, INC. **RESPONSE** **S110493653**
10019 SOUTH ALAMEDA STREET **ENVIROSTOR** **N/A**
LOS ANGELES, CA 90002 **DEED**

Relative:
Lower

Actual:
112 ft.

RESPONSE:
Facility ID: 71003769
Site Type: State Response
Site Type Detail: State Response ERAP
Acres: 3
National Priorities List: NO
Cleanup Oversight Agencies: US EPA, TPCAB
Lead Agency Description: Not reported
Project Manager: Haissam Salloum
Supervisor: Sayareh Amirebrahimi
Division Branch: Cleanup Cypress

ATLAS IRON AND METAL COMPANY, INC. (Continued) **S110493653**

Site Code:	601027
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	59
Senate:	33
Special Program Status:	Not reported
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	11/04/2010
Restricted Use:	YES
Funding:	Responsible Party
Latitude:	33.94579
Longitude:	-118.2293
APN:	NONE SPECIFIED
Past Use:	RECYCLING - SCRAP METAL
Potential COC :	Lead
Confirmed COC:	Lead
Potential Description:	SOIL
Alias Name:	CAD981460116
Alias Type:	EPA Identification Number
Alias Name:	601027
Alias Type:	Project Code (Site Code)
Alias Name:	19820114
Alias Type:	Envirostor ID Number
Alias Name:	60001889
Alias Type:	Envirostor ID Number
Alias Name:	71003769
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	11/03/2014
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:	06/30/2016
Comments:	DTSC conducted a Site Inspection/Visit on June 10,2016.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Enforcement Support
Completed Date:	03/30/2004
Comments:	Inspection report sent on 3/30/2004
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Order
Completed Date:	04/03/2008
Comments:	Completed
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	10/10/2013
Comments:	Letter sent to LA County for generator inspection.

ATLAS IRON AND METAL COMPANY, INC. (Continued) **S110493653**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/06/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/02/2015
Comments: Annual Cost Estimate completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/21/2014
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/01/2016
Comments: LUC OLC WR.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Oversight
Completed Date: 06/30/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/14/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/31/2008
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/25/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets

ATLAS IRON AND METAL COMPANY, INC. (Continued) **S110493653**

Completed Date: 06/30/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/03/2008
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 01/15/2013
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/21/2014
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 02/05/2015
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 06/02/2016
Comments: The LUR monitoring report was submitted to DTSC in April 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/06/2012
Comments: LUC Inspection Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Order
Completed Date: 04/03/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 04/11/2012
Comments: Signed document received.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/27/2016
Comments: FY 2016/2017 ACE completed.

ATLAS IRON AND METAL COMPANY, INC. (Continued) **S110493653**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 12/12/2008
Comments: Land use restriction recorded

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: 71003769
Status: Certified O&M - Land Use Restrictions Only
Status Date: 11/04/2010
Site Code: 601027
Site Type: State Response
Site Type Detailed: State Response ERAP
Acres: 3
NPL: NO
Regulatory Agencies: US EPA, TPCAB
Lead Agency: TPCAB,US EPA
Program Manager: Haissam Salloum
Supervisor: Sayareh Amirebrahimi
Division Branch: Cleanup Cypress
Assembly: 59
Senate: 33
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.94579
Longitude: -118.2293
APN: NONE SPECIFIED
Past Use: RECYCLING - SCRAP METAL
Potential COC: Lead
Confirmed COC: Lead
Potential Description: SOIL
Alias Name: CAD981460116
Alias Type: EPA Identification Number
Alias Name: 601027
Alias Type: Project Code (Site Code)
Alias Name: 19820114
Alias Type: Envirostor ID Number
Alias Name: 60001889
Alias Type: Envirostor ID Number
Alias Name: 71003769
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

ATLAS IRON AND METAL COMPANY, INC. (Continued) **S110493653**

Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/03/2014
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: 06/30/2016
Comments: DTSC conducted a Site Inspection/Visit on June 10,2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Enforcement Support
Completed Date: 03/30/2004
Comments: Inspection report sent on 3/30/2004

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 04/03/2008
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/10/2013
Comments: Letter sent to LA County for generator inspection.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/06/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/02/2015
Comments: Annual Cost Estimate completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/21/2014
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/01/2016
Comments: LUC OLC WR.

ATLAS IRON AND METAL COMPANY, INC. (Continued) **S110493653**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Oversight
Completed Date: 06/30/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/14/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/31/2008
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/25/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/30/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/03/2008
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 01/15/2013
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/21/2014
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 02/05/2015
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report

ATLAS IRON AND METAL COMPANY, INC. (Continued) **S110493653**

Completed Date: 06/02/2016
Comments: The LUR monitoring report was submitted to DTSC in April 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/06/2012
Comments: LUC Inspection Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Order
Completed Date: 04/03/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 04/11/2012
Comments: Signed document received.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/27/2016
Comments: FY 2016/2017 ACE completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 12/12/2008
Comments: Land use restriction recorded

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: 71003769
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 12/12/2008

Envirostor ID: 71003769
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE

ATLAS IRON AND METAL COMPANY, INC. (Continued) **S110493653**

Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 09/01/2016

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35 **FIRESTONE TIRE & RUBBER CO.** **ENVIROSTOR** **S107736325**
ENE **N/A**
1/2-1 **SOUTH GATE, CA**
0.583 mi.
3079 ft.

Relative:
Higher

Actual:
127 ft.

ENVIROSTOR:
Facility ID: 80001005
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: 63
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.95694
Longitude: -118.225
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799FA39300
Alias Type: Federal Facility ID
Alias Name: J09CA7366
Alias Type: INPR
Alias Name: 80001005
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: 05/28/1999
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

FIRESTONE TIRE & RUBBER CO. (Continued) **S107736325**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

36
SSE
1/2-1
0.590 mi.
3114 ft.

JORDAN HIGH SCHOOL **ENVIROSTOR** **S107736516**
2265 EAST 103RD STREET **SCH** **N/A**
WATTS, CA 90002

Relative:
Lower

Actual:
107 ft.

ENVIROSTOR:

Facility ID:	19820114
Status:	Certified
Status Date:	04/27/2005
Site Code:	304452
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	2.1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	64
Senate:	35
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.94450
Longitude:	-118.2311
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Polychlorinated biphenyls (PCBs Hydrogen sulfide Lead TPH-diesel Benzo[a]pyrene Arsenic
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	JORDAN HIGH SCHOOL SPORTS FIELD
Alias Type:	Alternate Name
Alias Name:	LAUSD-JORDAN HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	110033606792
Alias Type:	EPA (FRS #)
Alias Name:	304452
Alias Type:	Project Code (Site Code)
Alias Name:	304452
Alias Type:	Project Code (Site Code)
Alias Name:	19820114
Alias Type:	Envirostor ID Number
Alias Name:	60001889
Alias Type:	Envirostor ID Number
Alias Name:	71003769
Alias Type:	Envirostor ID Number

Completed Info:

JORDAN HIGH SCHOOL (Continued) **S107736516**

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

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 05/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 06/24/2004
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/18/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/06/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/19/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1

JORDAN HIGH SCHOOL (Continued) **S107736516**

Completed Date: 06/14/2004
Comments: OOk

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 05/01/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/01/2004
Comments: Public meeting notice in English and Spanish

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 03/01/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/01/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 04/05/2005
Comments: Removal action certified. NFA.

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

Facility ID: 60001889
Status: No Further Action
Status Date: 04/14/2016
Site Code: 304647
Site Type: School Cleanup
Site Type Detailed: School
Acres: 6.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Rana Georges
Supervisor: Yolanda Garza
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 64

JORDAN HIGH SCHOOL (Continued) **S107736516**

Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.94450
Longitude: -118.2311
APN: NONE SPECIFIED
Past Use: SCHOOL - HIGH SCHOOL, SCHOOL - MIDDLE
Potential COC: Arsenic Lead
Confirmed COC: Arsenic Lead
Potential Description: SOIL
Alias Name: David Starr Jordan High School
Alias Type: Alternate Name
Alias Name: Jordan HS
Alias Type: Alternate Name
Alias Name: Jordan High School
Alias Type: Alternate Name
Alias Name: LAUSD Jordan HS
Alias Type: Alternate Name
Alias Name: Los Angeles Unified School District Jordan High School
Alias Type: Alternate Name
Alias Name: 304647
Alias Type: Project Code (Site Code)
Alias Name: 19820114
Alias Type: Envirostor ID Number
Alias Name: 60001889
Alias Type: Envirostor ID Number
Alias Name: 71003769
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/27/2013
Comments: DTSC accepted all site documents and approved the Site bg info/workplans/reports/RAW as a PEA Equivalent with a 'Further Action' determination. Comments were issued along with the PEA Equivalent approval letter to be addressed during future site activities. Responses to comments and associated documents were received on July 17 and 18, 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 07/12/2013
Comments: DTSC completed the SFPD form 4.15 and issued a partial site approval letter.

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 10/16/2013
Comments: DTSC approved the SSI Tech Memo for implementation.

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported

JORDAN HIGH SCHOOL (Continued) **S107736516**

Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	07/08/2014
Comments:	DTSC approved the SSI Report for further action.
Completed Area Name:	Operable Unit 3
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	02/10/2015
Comments:	RAW approved for implementation
Completed Area Name:	Operable Unit 3
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile
Completed Date:	11/17/2014
Comments:	CP signed by pps.
Completed Area Name:	Operable Unit 3
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	11/10/2014
Comments:	English and Spanish version of FS and PN reviewed and finalized by DTSC.
Completed Area Name:	Operable Unit 3
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	11/10/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/18/2014
Comments:	Removal of hoist and clarifier were located in an area that had previously received partial site approval. A separate report was provided by the District for the lead investigation activities. Acceptance of the clarifier and hoist removal report is included in the SSI approval letter.
Completed Area Name:	Operable Unit 3
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	07/06/2015
Comments:	Not reported
Completed Area Name:	OU1 and OU2
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	03/23/2015
Comments:	DTSC approved the SSI Tech Memo with No Further Action determination.
Completed Area Name:	Operable Unit 3
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	04/22/2015
Comments:	Removal action completed, confirmation samples below cleanup level of 80 mg/kg for lead.

JORDAN HIGH SCHOOL (Continued) **S107736516**

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

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/11/2015
Comments: Not reported

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 04/14/2016
Comments: Cert for OU3

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review
Completed Date: 02/10/2015
Comments: NOD filed with State Clearinghouse. Final documents of Notice of Determination, Statement of Findings and EIR Responsible Agency Checklist are attached. Documents can also be found in the project file.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 06/17/2013
Comments: Fully executed MSCA sent (FedEx) to District.

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: 60001889
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 6.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Rana Georges
Supervisor: Yolanda Garza
Division Branch: Southern California Schools & Brownfields Outreach

JORDAN HIGH SCHOOL (Continued) **S107736516**

Site Code:	304647
Assembly:	64
Senate:	35
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	04/14/2016
Restricted Use:	NO
Funding:	School District
Latitude:	33.94450
Longitude:	-118.2311
APN:	NONE SPECIFIED
Past Use:	SCHOOL - HIGH SCHOOL, SCHOOL - MIDDLE
Potential COC:	Arsenic, Lead
Confirmed COC:	Arsenic, Lead
Potential Description:	SOIL
Alias Name:	David Starr Jordan High School
Alias Type:	Alternate Name
Alias Name:	Jordan HS
Alias Type:	Alternate Name
Alias Name:	Jordan High School
Alias Type:	Alternate Name
Alias Name:	LAUSD Jordan HS
Alias Type:	Alternate Name
Alias Name:	Los Angeles Unified School District Jordan High School
Alias Type:	Alternate Name
Alias Name:	304647
Alias Type:	Project Code (Site Code)
Alias Name:	19820114
Alias Type:	Envirostor ID Number
Alias Name:	60001889
Alias Type:	Envirostor ID Number
Alias Name:	71003769
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/27/2013
Comments:	DTSC accepted all site documents and approved the Site bg info/workplans/reports/RAW as a PEA Equivalent with a 'Further Action' determination. Comments were issued along with the PEA Equivalent approval letter to be addressed during future site activities. Responses to comments and associated documents were received on July 17 and 18, 2013.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	4.15 Request
Completed Date:	07/12/2013
Comments:	DTSC completed the SFPD form 4.15 and issued a partial site approval letter.
Completed Area Name:	Operable Unit 3
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Tech Memo
Completed Date:	10/16/2013
Comments:	DTSC approved the SSI Tech Memo for implementation.

JORDAN HIGH SCHOOL (Continued) **S107736516**

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 07/08/2014
Comments: DTSC approved the SSI Report for further action.

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/10/2015
Comments: RAW approved for implementation

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 11/17/2014
Comments: CP signed by pps.

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 11/10/2014
Comments: English and Spanish version of FS and PN reviewed and finalized by DTSC.

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 11/10/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/18/2014
Comments: Removal of hoist and clarifier were located in an area that had previously received partial site approval. A separate report was provided by the District for the lead investigation activities. Acceptance of the clarifier and hoist removal report is included in the SSI approval letter.

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/06/2015
Comments: Not reported

Completed Area Name: OU1 and OU2
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/23/2015
Comments: DTSC approved the SSI Tech Memo with No Further Action determination.

Completed Area Name: Operable Unit 3
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/22/2015

JORDAN HIGH SCHOOL (Continued) **S107736516**

Comments:	Removal action completed, confirmation samples below cleanup level of 80 mg/kg for lead.
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
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/11/2015
Comments:	Not reported
Completed Area Name:	Operable Unit 3
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	04/14/2016
Comments:	Cert for OU3
Completed Area Name:	Operable Unit 3
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Responsible Agency Review
Completed Date:	02/10/2015
Comments:	NOD filed with State Clearinghouse. Final documents of Notice of Determination, Statement of Findings and EIR Responsible Agency Checklist are attached. Documents can also be found in the project file.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	School Cleanup Agreement
Completed Date:	06/17/2013
Comments:	Fully executed MSCA sent (FedEx) to District.
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
Facility ID:	19820114
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2.1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported

JORDAN HIGH SCHOOL (Continued) **S107736516**

Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304452
Assembly:	64
Senate:	35
Special Program Status:	Not reported
Status:	Certified
Status Date:	04/27/2005
Restricted Use:	NO
Funding:	School District
Latitude:	33.94450
Longitude:	-118.2311
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Polychlorinated biphenyls (PCBs, Polychlorinated biphenyls (PCBs, Hydrogen sulfide, Lead, TPH-diesel, Benzo[a]pyrene, Arsenic
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	JORDAN HIGH SCHOOL SPORTS FIELD
Alias Type:	Alternate Name
Alias Name:	LAUSD-JORDAN HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	110033606792
Alias Type:	EPA (FRS #)
Alias Name:	304452
Alias Type:	Project Code (Site Code)
Alias Name:	304452
Alias Type:	Project Code (Site Code)
Alias Name:	19820114
Alias Type:	Envirostor ID Number
Alias Name:	60001889
Alias Type:	Envirostor ID Number
Alias Name:	71003769
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:	02/10/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	05/26/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	05/26/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

JORDAN HIGH SCHOOL (Continued) **S107736516**

Completed Document Type: Technical Report
Completed Date: 05/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 06/24/2004
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/18/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/06/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/19/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 06/14/2004
Comments: OOk

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 05/01/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/01/2004
Comments: Public meeting notice in English and Spanish

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 03/01/2004
Comments: Not reported

JORDAN HIGH SCHOOL (Continued) **S107736516**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	06/01/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	04/05/2005
Comments:	Removal action certified. NFA.

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

37
NNE
1/2-1
0.608 mi.
3210 ft.

PROPOSED SOUTH REGION HIGH SCHOOL #13, SITE 3 **ENVIROSTOR** **S108054480**
EAST 85TH STREET AND SOUTH ALAMEDA STREET **N/A**
LOS ANGELES, CA 90001

Relative:
Higher

Actual:
132 ft.

ENVIROSTOR:

Facility ID:	60000390
Status:	Inactive - Needs Evaluation
Status Date:	03/05/2008
Site Code:	304534
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	13.25
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	33
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	33.96110
Longitude:	-118.2317
APN:	NONE SPECIFIED
Past Use:	METAL RECLAMATION, RETAIL - VEHICLES
Potential COC:	Under Investigation
Confirmed COC:	Under Investigation
Potential Description:	SOIL, SV
Alias Name:	Los Angeles Unified School District
Alias Type:	Alternate Name
Alias Name:	South Region High School #13, Site 1

PROPOSED SOUTH REGION HIGH SCHOOL #13, SITE 3 (Continued) **S108054480**

Alias Type: Alternate Name
Alias Name: 110033612240
Alias Type: EPA (FRS #)
Alias Name: 304534
Alias Type: Project Code (Site Code)
Alias Name: 60000390
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: 04/10/2008
Comments: Cost Recovery Closeout Memo completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 04/03/2007
Comments: DTSC concurs with the proposed sampling outlined in the scoping document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/01/2007
Comments: DTSC determined that "Further Action" is necessary based on the Preliminary Environmental Assessment report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 01/21/2011
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

J38 **SOUTH GATE REMEDIAL PROJECT** **RCRA-SQG** **1001075642**
NE **2525 E FIRESTONE BLVD** **ENVIROSTOR** **CAR000007302**
1/2-1 **SOUTH GATE, CA 90280** **SCH**
0.649 mi. **FINDS**
3426 ft. **Site 1 of 3 in cluster J** **ECHO**
HAZNET

Relative:
Higher

Actual:
128 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: SOUTH GATE REMEDIAL PROJECT
Facility address: 2525 E FIRESTONE BLVD
SOUTH GATE, CA 90280
EPA ID: CAR000007302

SOUTH GATE REMEDIAL PROJECT (Continued) **1001075642**

Mailing address: CORPORATE PK STE 400
IRVINE, CA 92714
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
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: SOUTH GATE REMEDIAL PROJECT
Owner/operator address: 2525 E FIRESTONE BLVD
SOUTH GATE, CA 90280
Owner/operator country: Not reported
Owner/operator telephone: (714) 260-1800
Legal status: Other
Owner/Operator Type: Owner
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: 19300241
Status: No Action Required
Status Date: 06/10/2002
Site Code: 301104
Site Type: School Investigation
Site Type Detailed: School
Acres: Not reported
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC

SOUTH GATE REMEDIAL PROJECT (Continued) **1001075642**

Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 63
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.95798
Longitude: -118.2266
APN: 6204034003
Past Use: * MANU - RUBBER & MISC PLASTICS PRODUCTS
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: FIRESTONE TIRE AND RUBBER COMPANY
Alias Type: Alternate Name
Alias Name: SANTA FE-FIRESTONE LLC
Alias Type: Alternate Name
Alias Name: SANTA FE-FIRESTONE, LLC
Alias Type: Alternate Name
Alias Name: SANTA FE-FIRESTONE, LLC (ADMIN. BLDG.)
Alias Type: Alternate Name
Alias Name: 6204034003
Alias Type: APN
Alias Name: 301104
Alias Type: Project Code (Site Code)
Alias Name: 19300241
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 06/04/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 08/08/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/12/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 06/10/2002
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported

SOUTH GATE REMEDIAL PROJECT (Continued) **1001075642**

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:	19300241
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	301104
Assembly:	63
Senate:	33
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	06/10/2002
Restricted Use:	NO
Funding:	School District
Latitude:	33.95798
Longitude:	-118.2266
APN:	6204034003
Past Use:	* MANU - RUBBER & MISC PLASTICS PRODUCTS
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	FIRESTONE TIRE AND RUBBER COMPANY
Alias Type:	Alternate Name
Alias Name:	SANTA FE-FIRESTONE LLC
Alias Type:	Alternate Name
Alias Name:	SANTA FE-FIRESTONE, LLC
Alias Type:	Alternate Name
Alias Name:	SANTA FE-FIRESTONE, LLC (ADMIN. BLDG.)
Alias Type:	Alternate Name
Alias Name:	6204034003
Alias Type:	APN
Alias Name:	301104
Alias Type:	Project Code (Site Code)
Alias Name:	19300241
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	06/04/2002

SOUTH GATE REMEDIAL PROJECT (Continued) **1001075642**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 08/08/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/12/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 06/10/2002
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

FINDS:

Registry ID: 110009552206

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 corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1001075642
Registry ID: 110009552206
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110009552206

SOUTH GATE REMEDIAL PROJECT (Continued) **1001075642**

HAZNET:

envid:	1001075642
Year:	2002
GEPAID:	CAR000007302
Contact:	DR TED KOELSCH
Telephone:	9499511595
Mailing Name:	Not reported
Mailing Address:	22365 EL TORO RD
Mailing City,St,Zip:	LAKE FOREST, CA 926300000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Aqueous solution with metals (< restricted levels and (Alkaline solution (pH >= 12.5) with metals))
Disposal Method:	Treatment, Incineration
Tons:	0.22
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1001075642
Year:	2002
GEPAID:	CAR000007302
Contact:	DR TED KOELSCH
Telephone:	9499511595
Mailing Name:	Not reported
Mailing Address:	22365 EL TORO RD
Mailing City,St,Zip:	LAKE FOREST, CA 926300000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Treatment, Incineration
Tons:	1.56
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1001075642
Year:	2002
GEPAID:	CAR000007302
Contact:	DR TED KOELSCH
Telephone:	9499511595
Mailing Name:	Not reported
Mailing Address:	22365 EL TORO RD
Mailing City,St,Zip:	LAKE FOREST, CA 926300000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Treatment, Incineration
Tons:	0.6
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1001075642

SOUTH GATE REMEDIAL PROJECT (Continued) **1001075642**

Year:	2002
GEPAID:	CAR000007302
Contact:	DR TED KOELSCH
Telephone:	9499511595
Mailing Name:	Not reported
Mailing Address:	22365 EL TORO RD
Mailing City,St,Zip:	LAKE FOREST, CA 926300000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Treatment, Incineration
Tons:	0.22
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1001075642
Year:	1998
GEPAID:	CAR000007302
Contact:	SOUTH GATE REMEDIAL PROJECT
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	22365 EL TORO RD
Mailing City,St,Zip:	LAKE FOREST, CA 926300000
Gen County:	Not reported
TSD EPA ID:	CAD097030993
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Recycler
Tons:	2.5020
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
7 additional CA_HAZNET: record(s) in the EDR Site Report.

J39 **FIRESTONE TIRE & RUBBER CO PARCEL 1A** **HIST Cal-Sites** **1000222877**
NE **2525 FIRESTONE BLVD** **FINDS** **N/A**
1/2-1 **SOUTH GATE, CA 90280** **ECHO**
0.649 mi. **HIST CORTESE**
3426 ft. **Site 2 of 3 in cluster J**

Relative:
Higher

Actual:
128 ft.

Calsite:

Region:	GLENDALE
Facility ID:	19300231
Facility Type:	RP
Type:	RESPONSIBLE PARTY
Branch:	SA
Branch Name:	SO CAL - GLENDALE
File Name:	INDIAN WELLS ESTATES INC
State Senate District:	04191996
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not Listed
SIC Code:	30

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

SIC Name:	MANU - RUBBER & MISC PLASTICS PRODUCTS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	GFARKAS
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	LA
Region Water Control Board Name:	LOS ANGELES
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	SOUTH GATE QUAD
State Assembly District Code:	50
State Senate District Code:	30
Facility ID:	19300231
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03261992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19300231
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	I&SE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04281994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19300231
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	ACM
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12231994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	ALL OIL WASTES MATERIALS, RAGS AND PLASTIC WERE PLACED INTO 8 LABELEDDOT APPROVED 55-GALLON DRUMS AND TRANSPORTED TO A DISPOSAL FACILITY.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19300231
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11211995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

Facility ID:	19300231
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	07302005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19300231
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12312005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19300231
Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	06302006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19300231
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	06302007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19300231
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12302007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19300231
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	EQP35
Proposed Budget:	0
AWP Completion Date:	12312004
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	2525 EAST FIRESTONE BOULEVARD
Alternate City,St,Zip:	SOUTH GATE, CA 90280
Alternate Address:	2323 FIRESTONE BLVD
Alternate City,St,Zip:	SOUTH GATE, CA 90280
Alternate Address:	2419 FIRESTONE BLVD
Alternate City,St,Zip:	SOUTH GATE, CA 90280
Alternate Address:	2525 FIRESTONE BLVD
Alternate City,St,Zip:	SOUTH GATE, CA 90280
Background Info:	The Firestone Tire and Rubber Company site (Site) is located at 2323 and 2525 E. Firestone Blvd., South Gate, in Los Angeles County. The Site consists of approximately 61 acres and includes the entire area of the former Firestone plant, including the former service station and other facilities located south of Firestone Boulevard. From 1928 to 1981, Firestone Tire and Rubber Company used the site as a tire manufacturing facility. Firestone Company deeded the Site to Hon Industries, Inc. in 1981. Manufacturing equipment that was used in the production of rubber tires was removed prior to June 29, 1992. The bulk materials used in the tire manufacturing process included natural and synthetic rubber, latex, carbon black, and pigments. Chlorinated hydrocarbons such as tetrachlorethylene and trichlorethylene were also used on site for cleaning purposes. Hon Industries, Inc. has manufactured metal furniture on the Hon parcel since January 1982 and has stored and used 1,1,1 - trichloroethylene, phosphoric acid, xylene, and various oxygenated solvents. The Site has been subdivided into parcels for the purpose of

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

investigation. Substances found at the Site are as follows: petroleum hydrocarbons, TCE, PCE, polyaromatic hydrocarbons, asbestos containing materials, and several metals at elevated concentrations, including copper, lead (at hazardous concentrations), mercury and zinc. The Hazardous Ranking Score (HRS) package has been completed for the Site and assigned a score of 21.21. An I&SE and RAO was issued to the Responsible Parties April 28, 1994.

Comments Date: 01082002
Comments: DTSC comments on submittal were discussed at a meeting with BFS.
Comments Date: 01112000
Comments: Technical Memorandum Report/Workplan was submitted to DTSC.
Comments Date: 01112000
Comments: Not reported
Comments Date: 01131998
Comments: Hydropunch late report was submitted to DTSC.
Comments Date: 01131998
Comments: Not reported
Comments Date: 01141999
Comments: Transition to Chapter 6.5.
Comments Date: 01162001
Comments: DTSC sent the final response letter to the Technical Memorandum
Comments Date: 01162001
Comments: Report/Workplan to BFS.
Comments Date: 01201998
Comments: Draft Interim Removal Workplan was submitted to DTSC.
Comments Date: 01201998
Comments: Not reported
Comments Date: 01222003
Comments: BFS and Lar-Par submitted a draft Scope of Work for Parcel 35
Comments Date: 01222003
Comments: to DTSC.
Comments Date: 01252002
Comments: Firestone submitted a second revised Scope of Work for Parcel
Comments Date: 01252002
Comments: 1A to DTSC.
Comments Date: 02101993
Comments: The Hazard Ranking Score (HRS) Package is completed for the site
Comments Date: 02101993
Comments: and assigned a score of 21.21.
Comments Date: 02152001
Comments: DTSC met with BFS. BFS will have to add more PRPs.
Comments Date: 02171998
Comments: The outline of the Phase III Groundwater Investigation Report
Comments Date: 02171998
Comments: was submitted to DTSC.
Comments Date: 02172003
Comments: BFS submitted Parcel 1B Workplan to DTSC.
Comments Date: 02201997
Comments: RI, Phase III Workplan was approved.
Comments Date: 02212002
Comments: Firestone submitted new revised Scope of Work Parcel 1A to DTSC.
Comments Date: 02252004
Comments: DTSC issued the First Non-Compliance Notice to jack Engle
Comments Date: 02252004
Comments: Corporation (JEC).
Comments Date: 03012002

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

Comments:	The parcel 1A Workplan was approved by DTSC.
Comments Date:	03101997
Comments:	RI, Phase III field work started.
Comments Date:	03132002
Comments:	BFS submitted revised Parcel 1A WorkPlan.
Comments Date:	03211997
Comments:	RI, Phase III field work was completed, Phase III Report is under
Comments Date:	03211997
Comments:	preparation CEQA Initial Study for interim removals is under
Comments Date:	03211997
Comments:	preparation.
Comments Date:	03212002
Comments:	BFS submitted the Parcel 1A Workplan Implementation Schedule to
Comments Date:	03212002
Comments:	DTSC.
Comments Date:	03261992
Comments:	The property is currently owned and operated by Indian Wells
Comments Date:	03261992
Comments:	Estates Bankruptcy Trust. The site is listed in the RCRA Database
Comments Date:	03261992
Comments:	as a generator and a transporter dated August 11, 1980. The
Comments Date:	03261992
Comments:	groundwater at the site is contaminated with trichloroethylene
Comments Date:	03261992
Comments:	(TCE). Soils found in various portions of the property were
Comments Date:	03261992
Comments:	contaminated with different hazardous chemicals. A PEA is
Comments Date:	03261992
Comments:	recommended due to the evidence of soil and groundwater
Comments Date:	03261992
Comments:	contamination.
Comments Date:	04161996
Comments:	RI, Phase 1 Report was approved, and Draft RI, Phase 2
Comments Date:	04161996
Comments:	Workplan is under preparation.
Comments Date:	04222004
Comments:	Parcel 3S Data Summary and Additional Scope of Work was
Comments Date:	04222004
Comments:	submitted to DTSC.
Comments Date:	04242002
Comments:	Parcel 1A fieldwork was completed.
Comments Date:	04281994
Comments:	An Imminent or Substantial Endangerment Order and Remedial
Comments Date:	04281994
Comments:	Action order issued April 28, 1994.
Comments Date:	04282003
Comments:	DTSC provided comments on the submittal on 04/28/03.
Comments Date:	04302001
Comments:	BFS sent a letter to DTSC - they are working in gathering
Comments Date:	04302001
Comments:	evidence in perspective PRPs.
Comments Date:	05032002
Comments:	Plan 1A Workplan field work was completed.
Comments Date:	05211998
Comments:	Phase III Groundwater Investigation Report was submitted to
Comments Date:	05211998
Comments:	DTSC.

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

Comments Date:	05232002
Comments:	Parcel 1A Assessment Data was submitted to DTSC.
Comments Date:	05291998
Comments:	Phase III Groundwater Investigation Report was submitted to DTSC.
Comments Date:	05312001
Comments:	BFS submitted the PRP Identification Report.
Comments Date:	06051997
Comments:	Preliminary Phase III Report was submitted to DTSC.
Comments Date:	06101997
Comments:	CEQA Initial Study for interim removals was submitted to EIA,
Comments Date:	06101997
Comments:	Sacramento.
Comments Date:	06151995
Comments:	DTSC approved the Remedial Investigation (RI), Phase 1 Work Plan.
Comments Date:	06171997
Comments:	Additional groundwater investigation started.
Comments Date:	07011997
Comments:	Additional groundwater investigation continued, additional
Comments Date:	07011997
Comments:	samples were taken from different locations.
Comments Date:	07012003
Comments:	DTSC, BFS and Lar-Par met to discuss DTSC's comments.
Comments Date:	07022004
Comments:	Parcel 3N Workplan was submitted to DTSC.
Comments Date:	07112000
Comments:	DTSC met with BFS to discuss the Report.
Comments Date:	07231998
Comments:	Phase III Groundwater Investigation Report was approved.
Comments Date:	07231998
Comments:	Not reported
Comments Date:	07231998
Comments:	Not reported
Comments Date:	07231998
Comments:	Not reported
Comments Date:	07282000
Comments:	BFS sent a letter to DTSC with comments regarding the Report.
Comments Date:	07312002
Comments:	BFS submitted a draft Parcel 1A Report to DTSC.
Comments Date:	08051996
Comments:	RI/FS Phase II Workplan was approved.
Comments Date:	08071997
Comments:	Additional groundwater sampling plan was approved.
Comments Date:	08121996
Comments:	RI/FS Phase II Field Work (Scheduled for four (4) tasks) started.
Comments Date:	08151997
Comments:	Soil Vapor Extraction pilot test was terminated.
Comments Date:	08262001
Comments:	DTSC sent a sampling request letter to RP.
Comments Date:	08312002
Comments:	DTSC provided comments on the draft Parcel 1A Report.
Comments Date:	09062001
Comments:	RP responded with letter to DTSC sampling request.
Comments Date:	09161996
Comments:	Extended vapor extraction/Task Y started.
Comments Date:	09161997
Comments:	Additional groundwater investigation continued, additional
Comments Date:	09161997

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

Comments:	samples were taken from other locations. ("Chasing the plume").
Comments Date:	09262001
Comments:	Notice of Proposed Detrmination of Non-compliance was sent to RP.
Comments Date:	09291997
Comments:	The final groundwater sampling plan (for Phase III) was
Comments Date:	09291997
Comments:	submitted to the RPs.
Comments Date:	09291997
Comments:	Not reported
Comments Date:	10022000
Comments:	DTSC sent a draft response to the Technical Memo to BFS.
Comments Date:	10061998
Comments:	Draft Fact Sheet #2 was approved by DTSC.
Comments Date:	10061998
Comments:	Not reported
Comments Date:	10192001
Comments:	Parallel Orders to additional RPs were issued.
Comments Date:	10271999
Comments:	Groundwater samples were from the wells at the site.
Comments Date:	11142001
Comments:	Firestone submitted a Scope of Work Summary, Parcel 1A, to DTSC.
Comments Date:	11161996
Comments:	RI/FS Phase II Field Workd was completed. SVE pilot test
Comments Date:	11161996
Comments:	continues.
Comments Date:	11202001
Comments:	Ammendment to BFS Order was issued.
Comments Date:	11211995
Comments:	DTSC approved the public participation plan prepared for the
Comments Date:	11211995
Comments:	Firestone Tire and Rubber Company site. In addition, the first
Comments Date:	11211995
Comments:	fact sheet which summarizes preliminary investigations that were
Comments Date:	11211995
Comments:	conducted and the activities that are scheduled to be undertaken
Comments Date:	11211995
Comments:	with DTSC oversight was also disbtributed.
Comments Date:	12072001
Comments:	Firestone submitted a revised Parcel 1A Workplan.
Comments Date:	12081999
Comments:	Groundwater sampling report was submitted to DTSC.
Comments Date:	12121996
Comments:	RI, Phase II Report was approved, and Draft RI, Phase III
Comments Date:	12121996
Comments:	Workplan is under preparation.
Comments Date:	12122003
Comments:	Revised Parcel 3S Workplan was submitted to DTSC.
Comments Date:	12181997
Comments:	Final Hydropunch (G.W. samples) was done.
Comments Date:	12181997
Comments:	Not reported
Comments Date:	12191997
Comments:	The CEQA Final Initial Study and Negative Declarations were
Comments Date:	12191997
Comments:	approved by the Office of Program Audits and Environmental
Comments Date:	12191997
Comments:	Analysis.

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

Comments Date:	12231994
Comments:	The removal action conducted at the Firestone Tire and Rubber
Comments Date:	12231994
Comments:	Company consisted of the following activities: 1) Repair /
Comments Date:	12231994
Comments:	Encapsulation and Minimal Removal of Damaged, Friable Asbestos
Comments Date:	12231994
Comments:	containing materials (ACM); 2) Cleaning and removal of oil from
Comments Date:	12231994
Comments:	basement of building 1. Oil waste materials, rags, and plastic
Comments Date:	12231994
Comments:	were placed into 55 gallon drums for disposal at Kettleman Hills
Comments Date:	12231994
Comments:	Facility.
ID Name:	CALSTARS CODE
ID Value:	300341
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD981982069
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAT080033723
Alternate Name:	INDIAN WELLS ESTATES INC
Alternate Name:	BRIDGESTONE/FIRESTONE INC
Alternate Name:	FIRESTONE TIRE AND RUBBER COMPANY
Alternate Name:	HON INDUSTRIES INC
Alternate Name:	FIRESTONE TIRE & RUBBER CO
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

FINDS:

Registry ID: 110002633598

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.

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.

SUPERFUND (NON-NPL)

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

FIRESTONE TIRE & RUBBER CO PARCEL 1A (Continued) **1000222877**

ECHO:
- Envid: 1000222877
- Registry ID: 110002633598
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002633598

HIST CORTESE:
- Region: CORTESE
- Facility County Code: 19
- Reg By: CALSI
- Reg Id: 19300231

J40 | NE | 1/2-1 | 0.649 mi. | 3426 ft. **FIRESTONE - PARCEL 1A** | **2525 FIRESTONE BLVD** | **SOUTH GATE, CA 90280** | **Site 3 of 3 in cluster J** | **RESPONSE | ENVIROSTOR | VCP | Cortese** | **S107736323 | N/A**

Relative: Higher

Actual: 128 ft.

RESPONSE:

Facility ID:	19300231
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	19.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Pete Cooke
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Site Code:	300341
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	63
Senate:	33
Special Program Status:	Not reported
Status:	Active
Status Date:	04/19/1996
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	33.95877
Longitude:	-118.2290
APN:	6204-034-003, 6204034003
Past Use:	MANUFACTURING - METAL
Potential COC :	* HALOGENATED ORGANIC COMPOUNDS * HALOGENATED SOLVENTS * ORGANIC MONOMER WASTE, INCLUDING UNREACTED RESINS Asbestos Containing Materials (ACM * UNSPECIFIED OIL CONTAINING WASTE * WASTE OIL & MIXED OIL * LATEX WASTE * ORGANIC LIQUIDS (NONSOLVENTS) WITH HALOGENS * POLYMERIC RESIN WASTE * SULFUR SLUDGE Lead Polychlorinated biphenyls (PCBs Mercury and compounds
Confirmed COC:	NONE SPECIFIED
Potential Description:	OTH, SOIL
Alias Name:	BRIDGESTONE/FIRESTONE INC
Alias Type:	Alternate Name
Alias Name:	FIRESTONE TIRE AND RUBBER COMPANY
Alias Type:	Alternate Name
Alias Name:	HON INDUSTRIES INC
Alias Type:	Alternate Name
Alias Name:	INDIAN WELLS ESTATES INC
Alias Type:	Alternate Name

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Alias Name: 6204-034-003
Alias Type: APN
Alias Name: 6204034003
Alias Type: APN
Alias Name: CAD981982069
Alias Type: EPA Identification Number
Alias Name: CAT080033723
Alias Type: EPA Identification Number
Alias Name: 110002633598
Alias Type: EPA (FRS #)
Alias Name: 110002823151
Alias Type: EPA (FRS #)
Alias Name: 300341
Alias Type: Project Code (Site Code)
Alias Name: 19300231
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 04/28/1994
Comments: An Imminent or Substantial Endangerment Order and Remedial Action order issued April 28, 1994.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/30/2010
Comments: DTSC provides estimate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 02/23/2011
Comments: Report inculded soil and groundwater investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/23/1994
Comments: The removal action conducted at the Firestone Tire and Rubber Company consisted of the following activities: 1) Repair / Encapsulation and Minimal Removal of Damaged, Friable Asbestos containing materials (ACM); 2) Cleaning and removal of oil from basement of building 1. Oil waste materials, rags, and plastic were placed into 55 gallon

FIRESTONE - PARCEL 1A (Continued) **S107736323**

drums for disposal at Kettleman Hills Facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/26/1992
Comments: The property is currently owned and operated by Indian Wells Estates Bankruptcy Trust. The site is listed in the RCRA Database as a generator and a transporter dated August 11, 1980. The groundwater at the site is contaminated with trichloroethylene (TCE). Soils found in various portions of the property were contaminated with different hazardous chemicals. A PEA is recommended due to the evidence of soil and groundwater contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 09/16/2009
Comments: DTSC needed more information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/07/2010
Comments: DTSC has determined that the Addendum satisfactorily addesses DTSC concrens.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/14/2010
Comments: DTSC aknowledged that the report provides data only for the former HON operations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 03/25/2010
Comments: DTSC has not identified any issues that would require modifications of the document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 01/16/2001
Comments: DTSC summarized the expected additional investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 12/06/1995
Comments: DTSC considered the PPP as being complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/26/2000

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Comments: DTSC needed more information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/05/2002
Comments: DTSC has determined that the Plan contains all elements for investigation.

Completed Area Name: Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/25/2012
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 02/24/2011
Comments: The RP completed the remedial investigation activities.

Completed Area Name: 1 A Vadose Zone
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 12/09/1996
Comments: Not reported

Completed Area Name: Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/29/2012
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 08/12/2015
Comments: Not reported

Completed Area Name: Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/21/2013
Comments: Not reported

Completed Area Name: Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/07/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 11/22/2013
Comments: Not reported

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 01/10/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/28/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/24/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/04/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/14/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/08/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 07/06/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/24/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Completed Date: 12/23/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/16/2015
Comments: .

Future Area Name: Ground Water
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2019
Future Area Name: Ground Water
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Plan
Future Due Date: 2019
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Feasibility Study Report
Future Due Date: 2017
Future Area Name: Ground Water
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2019
Future Area Name: Ground Water
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2018
Future Area Name: Ground Water
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
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

ENVIROSTOR:
Facility ID: 70000166
Status: Active
Status Date: 06/06/2012
Site Code: 301600
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 18.3
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Chand Sultana
Supervisor: Allan Plaza
Division Branch: Cleanup Chatsworth
Assembly: 63
Senate: 33
Special Program: Not reported
Restricted Use: NO

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.95798
Longitude: -118.2266
APN: 6204-034-003, 6204034003
Past Use: DEGREASING FACILITY, MACHINE SHOP
Potential COC: Tetrachloroethylene (PCE TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE
Confirmed COC: Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: ELAC South Gate Education Center
Alias Type: Alternate Name
Alias Name: 6204-034-003
Alias Type: APN
Alias Name: 6204034003
Alias Type: APN
Alias Name: CAD008375776
Alias Type: CERCLIS ID
Alias Name: 110033605276
Alias Type: EPA (FRS #)
Alias Name: 301199
Alias Type: Site Code - Historical
Alias Name: 301600
Alias Type: Project Code (Site Code)
Alias Name: 70000166
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/03/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 09/30/2008
Comments: RP adequately addressed DTSC comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 09/30/2008
Comments: The Addendum completed the Site Caracterization /Parcel 1B work Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 09/30/2008
Comments: RP completed the work plan with addendums.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/03/2009
Comments: DTSC issued NFA letter.

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 09/03/2009
Comments: DTSC issued a No Further Action letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/23/2009
Comments: RP's proposal addresses all DTSC issues.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/03/2012
Comments: An additional round of indoor air sampling is proposed by the property owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/21/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/12/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Tank Removal Report
Completed Date: 01/30/2014
Comments: DTSC reviewed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/23/2014
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/31/2013
Comments: DTSC entered into VCA with LACCD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 11/25/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/20/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 09/23/2009
Comments: DTSC has not identified any issues that would require modifications.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Participation Plan / Community Relations Plan
Future Due Date: 2017
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2017
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation / Feasibility Study
Future Due Date: 2017
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
Future Due Date: 2017
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: CEQA - Notice of Exemption
Schedule Due Date: 05/03/2017
Schedule Revised Date: Not reported

Facility ID: 19300231
Status: Active
Status Date: 04/19/1996
Site Code: 300341
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 19.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Pete Cooke
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: 63
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.95877
Longitude: -118.2290
APN: 6204-034-003, 6204034003
Past Use: MANUFACTURING - METAL
Potential COC: * HALOGENATED ORGANIC COMPOUNDS * HALOGENATED SOLVENTS * ORGANIC MONOMER WASTE, INCLUDING UNREACTED RESINS Asbestos Containing

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Materials (ACM * UNSPECIFIED OIL CONTAINING WASTE * WASTE OIL & MIXED OIL * LATEX WASTE * ORGANIC LIQUIDS (NONSOLVENTS) WITH HALOGENS * POLYMERIC RESIN WASTE * SULFUR SLUDGE Lead Polychlorinated biphenyls (PCBs Mercury and compounds
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SOIL
Alias Name: BRIDGESTONE/FIRESTONE INC
Alias Type: Alternate Name
Alias Name: FIRESTONE TIRE AND RUBBER COMPANY
Alias Type: Alternate Name
Alias Name: HON INDUSTRIES INC
Alias Type: Alternate Name
Alias Name: INDIAN WELLS ESTATES INC
Alias Type: Alternate Name
Alias Name: 6204-034-003
Alias Type: APN
Alias Name: 6204034003
Alias Type: APN
Alias Name: CAD981982069
Alias Type: EPA Identification Number
Alias Name: CAT080033723
Alias Type: EPA Identification Number
Alias Name: 110002633598
Alias Type: EPA (FRS #)
Alias Name: 110002823151
Alias Type: EPA (FRS #)
Alias Name: 300341
Alias Type: Project Code (Site Code)
Alias Name: 19300231
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 04/28/1994
Comments: An Imminent or Substantial Endangerment Order and Remedial Action order issued April 28, 1994.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/30/2010
Comments: DTSC provides estimate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: completed

Completed Area Name: PROJECT WIDE

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 02/23/2011
Comments: Report inculded soil and groundwater investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/23/1994
Comments: The removal action conducted at the Firestone Tire and Rubber Company consisted of the following activities: 1) Repair / Encapsulation and Minimal Removal of Damaged, Friable Asbestos containing materials (ACM); 2) Cleaning and removal of oil from basement of building 1. Oil waste materials, rags, and plastic were placed into 55 gallon drums for disposal at Kettleman Hills Facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/26/1992
Comments: The property is currently owned and operated by Indian Wells Estates Bankruptcy Trust. The site is listed in the RCRA Database as a generator and a transporter dated August 11, 1980. The groundwater at the site is contaminated with trichloroethylene (TCE). Soils found in various portions of the property were contaminated with different hazardous chemicals. A PEA is recommended due to the evidence of soil and groundwater contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 09/16/2009
Comments: DTSC needed more information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/07/2010
Comments: DTSC has determined that the Addendum satisfactorily addesses DTSC concrens.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/14/2010
Comments: DTSC aknowledged that the report provides data only for the former HON operations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 03/25/2010
Comments: DTSC has not identified any issues that would require modifications of the document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Completed Document Type: Technical Report
Completed Date: 01/16/2001
Comments: DTSC summarized the expected additional investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 12/06/1995
Comments: DTSC considered the PPP as being complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/26/2000
Comments: DTSC needed more information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/05/2002
Comments: DTSC has determined that the Plan contains all elements for investigation.

Completed Area Name: Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/25/2012
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 02/24/2011
Comments: The RP completed the remedial investigation activities.

Completed Area Name: 1 A Vadose Zone
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 12/09/1996
Comments: Not reported

Completed Area Name: Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/29/2012
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 08/12/2015
Comments: Not reported

Completed Area Name: Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/21/2013

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Comments: Not reported

Completed Area Name: Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/07/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 11/22/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 01/10/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/28/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/24/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/04/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/14/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/08/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 07/06/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/24/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 12/23/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/16/2015
Comments: .

Future Area Name: Ground Water
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2019
Future Area Name: Ground Water
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Plan
Future Due Date: 2019
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Feasibility Study Report
Future Due Date: 2017
Future Area Name: Ground Water
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2019
Future Area Name: Ground Water
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2018
Future Area Name: Ground Water
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
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

VCP:
Facility ID: 70000166
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Site Mgmt. Req.:	NONE SPECIFIED
Acres:	18.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Chand Sultana
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Site Code:	301600
Assembly:	63
Senate:	33
Special Programs Code:	Not reported
Status:	Active
Status Date:	06/06/2012
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	33.95798 / -118.2266
APN:	6204-034-003, 6204034003
Past Use:	DEGREASING FACILITY, MACHINE SHOP
Potential COC:	30022, 3002502, 30026, 30027
Confirmed COC:	30022,30026,30027,3002502
Potential Description:	SOIL
Alias Name:	ELAC South Gate Education Center
Alias Type:	Alternate Name
Alias Name:	6204-034-003
Alias Type:	APN
Alias Name:	6204034003
Alias Type:	APN
Alias Name:	CAD008375776
Alias Type:	CERCLIS ID
Alias Name:	110033605276
Alias Type:	EPA (FRS #)
Alias Name:	301199
Alias Type:	Site Code - Historical
Alias Name:	301600
Alias Type:	Project Code (Site Code)
Alias Name:	70000166
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/03/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	09/30/2008
Comments:	RP adequately addressed DTSC comments.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	09/30/2008
Comments:	The Addendum completed the Site Caracterization /Parcel 1B work Plan.

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 09/30/2008
Comments: RP completed the work plan with addendums.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/03/2009
Comments: DTSC issued NFA letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 09/03/2009
Comments: DTSC issued a No Further Action letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/23/2009
Comments: RP's proposal addresses all DTSC issues.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/03/2012
Comments: An additional round of indoor air sampling is proposed by the property owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/21/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/12/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Tank Removal Report
Completed Date: 01/30/2014
Comments: DTSC reviewed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/23/2014
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

FIRESTONE - PARCEL 1A (Continued) **S107736323**

Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/31/2013
Comments: DTSC entered into VCA with LACCD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 11/25/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/20/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 09/23/2009
Comments: DTSC has not identified any issues that would require modifications.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Participation Plan / Community Relations Plan
Future Due Date: 2017
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2017
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation / Feasibility Study
Future Due Date: 2017
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
Future Due Date: 2017
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: CEQA - Notice of Exemption
Schedule Due Date: 05/03/2017
Schedule Revised Date: Not reported

CORTESE:
Region: CORTESE
Envirostor Id: 19300231
Site/Facility Type: STATE RESPONSE
Cleanup Status: ACTIVE
Status Date: 04/19/1996
Site Code: 300341
Latitude: 33.958774
Longitude: -118.22909
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: envirostor

FIRESTONE - PARCEL 1A (Continued) **S107736323**

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

---

41 **SPHINX MANUFACTURING CO** **ENVIROSTOR** **S109467231**
SE **2401 E 103RD ST** **HWP** **N/A**
1/2-1 **LOS ANGELES, CA 90002**
0.652 mi.
3445 ft.

Relative:
Lower

Actual:
109 ft.

ENVIROSTOR:
Facility ID: 80001346
Status: * Inactive
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Unknown
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.94322
Longitude: -118.2293
APN: 6046020011
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 6046020011
Alias Type: APN
Alias Name: CAD000819813
Alias Type: EPA Identification Number
Alias Name: 80001346
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

SPHINX MANUFACTURING CO (Continued) **S109467231**

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

HWP:
EPA Id: CAD000819813
Cleanup Status: PROTECTIVE FILER
Latitude: 33.94322
Longitude: -118.2293
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 59
Senate District: 33
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:
EPA Id: CAD000819813
Facility Type: Historical - Non-Operating
Unit Names: TANKSTR1, TANKTRT1
Event Description: Protective Filer Status - PROTECTIVE FILER (RECEIVED)
Actual Date: 10/28/1982

EPA Id: CAD000819813
Facility Type: Historical - Non-Operating
Unit Names: TANKSTR1, TANKTRT1
Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date: 11/09/1982

K42 **FIRESTONE - ENGLE SOUTHERN PARCEL** **RESPONSE** **S106387159**
NNE **8440 ALAMEDA STREET** **ENVIROSTOR** **N/A**
1/2-1 **SOUTH GATE, CA 90280** **SLIC**
0.679 mi. **DEED**
3585 ft. **Site 1 of 2 in cluster K** **Cortese**

Relative:
Higher

Actual:
132 ft.

RESPONSE:
Facility ID: 70000165
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 6.8
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Site Code: 301249
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 59
Senate: 33
Special Program Status: Not reported

FIRESTONE - ENGLE SOUTHERN PARCEL (Continued) **S106387159**

Status:	Active
Status Date:	04/19/1996
Restricted Use:	YES
Funding:	Responsible Party
Latitude:	33.96035
Longitude:	-118.2303
APN:	6202-036-003
Past Use:	RECYCLING - OTHER, RECYCLING - SCRAP METAL
Potential COC :	Lead Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Nickel Tin Toluene 1,1,2-Trichloroethane Xylenes Zinc
Confirmed COC:	NONE SPECIFIED
Potential Description:	OTH, SOIL
Alias Name:	Jack Engle & Co
Alias Type:	Alternate Name
Alias Name:	6202-036-003
Alias Type:	APN
Alias Name:	110033615381
Alias Type:	EPA (FRS #)
Alias Name:	301249
Alias Type:	Project Code (Site Code)
Alias Name:	70000165
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/17/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	05/24/2006
Comments:	Workplan for soil and soil gas sampling in proposed building area.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	09/03/2008
Comments:	RP submitted the Work Plan and its Addendum in one document.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	09/03/2008
Comments:	RP submitted the Addendum with the revised Work Plan.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	07/29/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report

FIRESTONE - ENGLE SOUTHERN PARCEL (Continued) **S106387159**

Completed Date: 12/09/2009
Comments: DTSC needed more information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/28/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/30/2007
Comments: DTSC has not identified any issues that would require modifications of the document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/09/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 04/28/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 08/03/2013
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: 10/05/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/09/2016
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: 04/28/1994
Comments: Not reported

FIRESTONE - ENGLE SOUTHERN PARCEL (Continued) **S106387159**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 10/20/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/31/2012
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 05/20/2015
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: 70000165
Status: Active
Status Date: 04/19/1996
Site Code: 301249
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 6.8
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 33
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.96035
Longitude: -118.2303
APN: 6202-036-003
Past Use: RECYCLING - OTHER, RECYCLING - SCRAP METAL
Potential COC: Lead Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Nickel Tin Toluene 1,1,2-Trichloroethane Xylenes Zinc
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SOIL

FIRESTONE - ENGLE SOUTHERN PARCEL (Continued) **S106387159**

Alias Name: Jack Engle & Co
Alias Type: Alternate Name
Alias Name: 6202-036-003
Alias Type: APN
Alias Name: 110033615381
Alias Type: EPA (FRS #)
Alias Name: 301249
Alias Type: Project Code (Site Code)
Alias Name: 70000165
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/17/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 05/24/2006
Comments: Workplan for soil and soil gas sampling in proposed building area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 09/03/2008
Comments: RP submitted the Work Plan and its Addendum in one document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 09/03/2008
Comments: RP submitted the Addendum with the revised Work Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/29/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/09/2009
Comments: DTSC needed more information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/28/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/30/2007

FIRESTONE - ENGLE SOUTHERN PARCEL (Continued) **S106387159**

Comments: DTSC has not identified any issues that would require modifications of the document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/09/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 04/28/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 08/03/2013
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: 10/05/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/09/2016
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: 04/28/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 10/20/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/31/2012
Comments: completed

FIRESTONE - ENGLE SOUTHERN PARCEL (Continued) **S106387159**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 05/20/2015
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

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 01/27/2016
Global Id: SL2049A1721
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number: Not reported
Latitude: 33.960181
Longitude: -118.230788
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: DTSC
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Case tranferred to DTSC on 3/22/07.

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:
Region: 4
Facility Status: Site Assessment
SLIC: 0906
Substance: VOC, Metals,TPH
Staff: AS

DEED:
Envirostor ID: 70000165
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 05/20/2015

CORTESE:
Region: CORTESE

FIRESTONE - ENGLE SOUTHERN PARCEL (Continued) **S106387159**

Envirostor Id:	70000165
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	ACTIVE - LAND USE RESTRICTIONS
Status Date:	04/19/1996
Site Code:	301249
Latitude:	33.960358
Longitude:	-118.23032
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

K43 **JACK ENGLE & COMPANY** **ENVIROSTOR** **S105024564**
NNE **8440 ALAMEDA** **VCP** **N/A**
1/2-1 **LOS ANGELES, CA 90001** **DEED**
0.679 mi. **HIST CORTESE**
3585 ft. **Site 2 of 2 in cluster K**

Relative:
Higher

Actual:
132 ft.

ENVIROSTOR:

Facility ID:	60000644
Status:	Active
Status Date:	06/06/2007
Site Code:	301349
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	2.9
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Assembly:	59
Senate:	33
Special Program:	Voluntary Cleanup Program
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	33.96142
Longitude:	-118.2307
APN:	6202036004, 6204-034-002
Past Use:	METAL RECLAMATION, RECYCLING - OTHER, RECYCLING - SCRAP METAL
Potential COC:	Polychlorinated biphenyls (PCBs Trichloroethylene (TCE Vinyl chloride Not reported
Confirmed COC:	30027-NO 30028-NO 30018-NO
Potential Description:	OTH, SOIL, SV
Alias Name:	Jack Engle & Co
Alias Type:	Alternate Name
Alias Name:	6202036004
Alias Type:	APN
Alias Name:	6204-034-002

JACK ENGLE & COMPANY (Continued) **S105024564**

Alias Type: APN
Alias Name: 110033616291
Alias Type: EPA (FRS #)
Alias Name: SL2049A1721
Alias Type: GeoTracker Global ID
Alias Name: 301349
Alias Type: Project Code (Site Code)
Alias Name: 60000644
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/18/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 05/19/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/02/2008
Comments: The approved work plan has to be implemented.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 08/06/2008
Comments: DTSC concurs with the proposed modification.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 09/30/2008
Comments: RP submitted a schedule , and a revised schedule, as well.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 01/13/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 11/19/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 11/04/2008
Comments: DTSC acepted the request for backfilling Area 1.

JACK ENGLE & COMPANY (Continued) **S105024564**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 12/13/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 04/08/2010
Comments: DTSC called the RP, there will be a meeting for streamlining the future activities.

Completed Area Name: Vadose Zone
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 11/06/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/09/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 07/14/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/02/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/27/2011
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: 10/05/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

JACK ENGLE & COMPANY (Continued) **S105024564**

Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/09/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 06/06/2007
Comments: VCA for Removal Action

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/17/2008
Comments: DTSC concurred with with RP's proposal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 04/01/2008
Comments: DTSC completed the Notice of Exemption.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/19/2015
Comments: approved

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: 60000644
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2.9
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Site Code: 301349
Assembly: 59
Senate: 33
Special Programs Code: Voluntary Cleanup Program
Status: Active
Status Date: 06/06/2007

JACK ENGLE & COMPANY (Continued) **S105024564**

Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	33.96142 / -118.2307
APN:	6202036004, 6204-034-002
Past Use:	METAL RECLAMATION, RECYCLING - OTHER, RECYCLING - SCRAP METAL
Potential COC:	30018, 30027, 30028
Confirmed COC:	30027-NO,30028-NO,30018-NO
Potential Description:	OTH, SOIL, SV
Alias Name:	Jack Engle & Co
Alias Type:	Alternate Name
Alias Name:	6202036004
Alias Type:	APN
Alias Name:	6204-034-002
Alias Type:	APN
Alias Name:	110033616291
Alias Type:	EPA (FRS #)
Alias Name:	SL2049A1721
Alias Type:	GeoTracker Global ID
Alias Name:	301349
Alias Type:	Project Code (Site Code)
Alias Name:	60000644
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	12/18/2013
Comments:	completed
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	05/19/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	07/02/2008
Comments:	The approved work plan has to be implemented.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	08/06/2008
Comments:	DTSC concurs with the proposed modification.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	09/30/2008
Comments:	RP submitted a schedule , and a revised schedule, as well.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	01/13/2009

JACK ENGLE & COMPANY (Continued) **S105024564**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 11/19/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 11/04/2008
Comments: DTSC acepted the request for backfilling Area 1.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 12/13/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 04/08/2010
Comments: DTSC called the RP, there will be a meeting for streamlining the future activities.

Completed Area Name: Vadose Zone
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 11/06/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/09/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 07/14/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/02/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/27/2011
Comments: Not reported

JACK ENGLE & COMPANY (Continued) **S105024564**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/05/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/09/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 06/06/2007
Comments: VCA for Removal Action

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/17/2008
Comments: DTSC concurred with with RP’s proposal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 04/01/2008
Comments: DTSC completed the Notice of Exemption.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/19/2015
Comments: approved

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: 60000644
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP

JACK ENGLE & COMPANY (Continued) **S105024564**

Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 05/19/2015

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-11881

44
SE
1/2-1
0.785 mi.
4145 ft.

JORGENSEN STEEL #3(FORMER) **ENVIROSTOR** **S107027303**
10401 ALAMEDA ST. **N/A**
LYNWOOD, CA 90002

Relative:
Lower

Actual:
110 ft.

ENVIROSTOR:
Facility ID: 19500247
Status: Refer: 1248 Local Agency
Status Date: 10/11/2002
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: 63
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 33.94244
Longitude: -118.2285
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: SLT43218216
Alias Type: GeoTracker Global ID
Alias Name: 19500247
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

JORGENSEN STEEL #3(FORMER) (Continued) **S107027303**

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

---

45 **DAMILLE METAL SVC** **ENVIROSTOR** **S113045733**
NNE **8201 SANTA FE AVENUE** **HAZNET** **N/A**
1/2-1 **HUNTINGTON PARK, CA 90255**
0.791 mi.
4176 ft.

Relative:
Higher

Actual:
135 ft.

ENVIROSTOR:

Facility ID:	60002329
Status:	Refer: EPA
Status Date:	09/22/2016
Site Code:	301744
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.63
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Folashade Simpson
Supervisor:	Javier Hinojosa
Division Branch:	Cleanup Chatsworth
Assembly:	, 59
Senate:	, 33
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	33.96325
Longitude:	-118.2305
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	301744
Alias Type:	Project Code (Site Code)
Alias Name:	60002329
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	05/26/2016
Comments:	Further Assessment under CERCLA necessary.
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

DAMILLE METAL SVC (Continued) **S113045733**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
envid: S113045733
Year: 2001
GEPAID: CAL000061913
Contact: --
Telephone: Not reported
Mailing Name: Not reported
Mailing Address: 16633 VENTURA BLVD STE 804
Mailing City,St,Zip: ENCINO, CA 914361842
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: 0.09
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113045733
Year: 2000
GEPAID: CAL000061913
Contact: --
Telephone: Not reported
Mailing Name: Not reported
Mailing Address: 16633 VENTURA BLVD STE 804
Mailing City,St,Zip: ENCINO, CA 914361842
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: 0.86
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113045733
Year: 1999
GEPAID: CAL000061913
Contact: DAVID MILLER
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 8201 SANTA FE AVE
Mailing City,St,Zip: HUNTINGTON PARK, CA 902550000
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Tons: .4000
Cat Decode: Not reported

DAMILLE METAL SVC (Continued) **S113045733**

Method Decode: Not reported
Facility County: Los Angeles

envid: S113045733
Year: 1999
GEPAID: CAL000061913
Contact: DAVID MILLER
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 8201 SANTA FE AVE
Mailing City,St,Zip: HUNTINGTON PARK, CA 902550000
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: .8130
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113045733
Year: 1998
GEPAID: CAL000061913
Contact: DAVID MILLER
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 8201 SANTA FE AVE
Mailing City,St,Zip: HUNTINGTON PARK, CA 902550000
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Tons: .4000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA_HAZNET: record(s) in the EDR Site Report.

46
NNE
1/2-1
0.793 mi.
4188 ft.

LA PARKERIZING COMPANY **ENVIROSTOR** **S117038732**
8205 SOUTH ALAMEDA STREET **N/A**
LOS ANGELES, CA 90001

Relative:
Higher

Actual:
137 ft.

ENVIROSTOR:
Facility ID: 60002093
Status: Inactive - Needs Evaluation
Status Date: 09/09/2014
Site Code: 301687
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP

LA PARKERIZING COMPANY (Continued) **S117038732**

Lead Agency: SMBRP
Program Manager: Folashade Simpson
Supervisor: Sayareh Amirebrahimi
Division Branch: Cleanup Chatsworth
Assembly: Not reported
Senate: Not reported
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
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: 301687
Alias Type: Project Code (Site Code)
Alias Name: 60002093
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

47
NNW
1/2-1
0.795 mi.
4198 ft.

PRPSD CHARTER SCHOOL AT 8145 & 8205 BEACH ST. **ENVIROSTOR** **S112205491**
8145 AND 8205 BEACH STREET **SCH** **N/A**
LOS ANGELES, CA 90001

Relative:
Higher

Actual:
137 ft.

ENVIROSTOR:
Facility ID: 60001832
Status: No Further Action
Status Date: 05/06/2013
Site Code: 404882
Site Type: School Investigation
Site Type Detailed: School
Acres: 3
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Johnson Abraham
Supervisor: Shahir Haddad

PRPSD CHARTER SCHOOL AT 8145 & 8205 BEACH ST. (Continued) **S112205491**

Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 52
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.96468
Longitude: -118.2420
APN: 6027-015-003, 6027-015-004
Past Use: MANUFACTURING - LUMBER/WOOD PRODUCTS, RETAIL, UNDERGROUND STORAGE TANKS
Potential COC: Under Investigation
Confirmed COC: 31001-NO
Potential Description: UE
Alias Name: Green Dot Charter School
Alias Type: Alternate Name
Alias Name: Proposed Charter School
Alias Type: Alternate Name
Alias Name: 6027-015-003
Alias Type: APN
Alias Name: 6027-015-004
Alias Type: APN
Alias Name: 404882
Alias Type: Project Code (Site Code)
Alias Name: 60001832
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/02/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/06/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/16/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/27/2012
Comments: Fully executed EOA send (FedEx) to Green Dot.

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

PRPSD CHARTER SCHOOL AT 8145 & 8205 BEACH ST. (Continued) **S112205491**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 60001832
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Johnson Abraham
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404882
Assembly: 52
Senate: 33
Special Program Status: Not reported
Status: No Further Action
Status Date: 05/06/2013
Restricted Use: NO
Funding: Responsible Party
Latitude: 33.96468
Longitude: -118.2420
APN: 6027-015-003, 6027-015-004
Past Use: MANUFACTURING - LUMBER/WOOD PRODUCTS, RETAIL, UNDERGROUND STORAGE TANKS
Potential COC: Under Investigation
Confirmed COC: 31001-NO
Potential Description: UE
Alias Name: Green Dot Charter School
Alias Type: Alternate Name
Alias Name: Proposed Charter School
Alias Type: Alternate Name
Alias Name: 6027-015-003
Alias Type: APN
Alias Name: 6027-015-004
Alias Type: APN
Alias Name: 404882
Alias Type: Project Code (Site Code)
Alias Name: 60001832
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/02/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

PRPSD CHARTER SCHOOL AT 8145 & 8205 BEACH ST. (Continued) **S112205491**

Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/06/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/16/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/27/2012
Comments: Fully executed EOA send (FedEx) to Green Dot.

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

48
ENE
1/2-1
0.828 mi.
4372 ft.

PROPOSED SOUTH REGION ELEMENTARY SCHOOL #9, SITE 3 **ENVIROSTOR** **S109034325**
FIRESTONE BOULEVARD/WILLOW PLACE/SANTA FE AVENUE/LONG BEACH **SCH** **N/A**
SOUTH GATE, CA 90280

Relative:
Higher

Actual:
117 ft.

ENVIROSTOR:
Facility ID: 60000891
Status: Certified
Status Date: 10/26/2010
Site Code: 304603
Site Type: School Cleanup
Site Type Detailed: School
Acres: 4.32
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 63
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.95534
Longitude: -118.2222
APN: 6204-023-001
Past Use: RESIDENTIAL AREA
Potential COC: Lead Dieldrin
Confirmed COC: Dieldrin Lead

PROPOSED SOUTH REGION ELEMENTARY SCHOOL #9, SITE 3A (Continued) **S109034325**

Potential Description: SOIL
Alias Name: 6204-023-001
Alias Type: APN
Alias Name: 304603
Alias Type: Project Code (Site Code)
Alias Name: 60000891
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Master Agreement
Completed Date: 04/29/2008
Comments: Rec'd documents for a PEA under the Master Agreement

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/25/2010
Comments: CRU Memo completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 08/18/2009
Comments: Rec'd signed agreement from district

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/22/2009
Comments: DTSC finalized and signed CEQA Notice of Excemption after RAW public comment period.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/17/2008
Comments: The team concurs with the PEA Workplan response to comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/09/2009
Comments: Approved the PEA for further action. A RAW will be prepared to address the metals and OCP impacts on-site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/22/2009
Comments: DTSC approved the RAW for public comment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/28/2008
Comments: Not reported

PROPOSED SOUTH REGION ELEMENTARY SCHOOL #9, SITE 3A (Continued) **S109034325**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	4.15 Request
Completed Date:	07/28/2009
Comments:	DTSC signed Form 4.15 in response to District's request

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	11/09/2009
Comments:	DTSC approved the SSI with a Further action Determination

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	05/20/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	10/26/2010
Comments:	DTSC certified that response action according to the DTSC-approved RAW is complete.

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:	60000891
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	4.32
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:	304603
Assembly:	63
Senate:	33
Special Program Status:	Not reported
Status:	Certified
Status Date:	10/26/2010
Restricted Use:	NO
Funding:	School District

PROPOSED SOUTH REGION ELEMENTARY SCHOOL #9, SITE 3A (Continued) **S109034325**

Latitude:	33.95534
Longitude:	-118.2222
APN:	6204-023-001
Past Use:	RESIDENTIAL AREA
Potential COC:	Lead, Dieldrin
Confirmed COC:	Dieldrin, Lead
Potential Description:	SOIL
Alias Name:	6204-023-001
Alias Type:	APN
Alias Name:	304603
Alias Type:	Project Code (Site Code)
Alias Name:	60000891
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Master Agreement
Completed Date:	04/29/2008
Comments:	Rec'd documents for a PEA under the Master Agreement
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	10/25/2010
Comments:	CRU Memo completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	School Cleanup Agreement
Completed Date:	08/18/2009
Comments:	Rec'd signed agreement from district
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	07/22/2009
Comments:	DTSC finalized and signed CEQA Notice of Exemption after RAW public comment period.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	06/17/2008
Comments:	The team concurs with the PEA Workplan response to comments.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	01/09/2009
Comments:	Approved the PEA for further action. A RAW will be prepared to address the metals and OCP impacts on-site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	07/22/2009
Comments:	DTSC approved the RAW for public comment.

PROPOSED SOUTH REGION ELEMENTARY SCHOOL #9, SITE 3A (Continued) **S109034325**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	04/28/2008
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	4.15 Request
Completed Date:	07/28/2009
Comments:	DTSC signed Form 4.15 in response to District's request

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	11/09/2009
Comments:	DTSC approved the SSI with a Further action Determination

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	05/20/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	10/26/2010
Comments:	DTSC certified that response action according to the DTSC-approved RAW is complete.

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

L49 **GENERAL MOTORS CORP (FORM** **ENVIROSTOR** **S100224615**
ESE **2700 TWEEDY** **LUST** **N/A**
1/2-1 **SOUTH GATE, CA 90280** **SWEEPS UST**
0.841 mi. **HIST CORTESE**
4440 ft. **Site 1 of 3 in cluster L** **LOS ANGELES CO. HMS**
Notify 65

Relative:
Lower

Actual:
107 ft.

ENVIROSTOR:

Facility ID:	80001547
Status:	Inactive - Needs Evaluation
Status Date:	07/18/2013
Site Code:	Not reported
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP

GENERAL MOTORS CORP (FORM (Continued) **S100224615**

Lead Agency: WM
Program Manager: Steven Rounds
Supervisor: Allan Plaza
Division Branch: Cleanup Chatsworth
Assembly: 63
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.94620
Longitude: -118.2230
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD008295719
Alias Type: EPA Identification Number
Alias Name: 110002631901
Alias Type: EPA (FRS #)
Alias Name: 80001547
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: 08/03/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/19/2010
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

LUST:
Region: STATE
Global Id: T0603701320
Latitude: 33.9459433
Longitude: -118.2218126
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/15/1997
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YL

GENERAL MOTORS CORP (FORM (Continued) **S100224615**

Local Agency:	LOS ANGELES COUNTY
RB Case Number:	902800016
LOC Case Number:	Not reported
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:	T0603701320
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603701320
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:	T0603701320
Status:	Completed - Case Closed
Status Date:	12/15/1997

Global Id:	T0603701320
Status:	Open - Case Begin Date
Status Date:	11/18/1983

Global Id:	T0603701320
Status:	Open - Remediation
Status Date:	04/15/1988

Global Id:	T0603701320
Status:	Open - Site Assessment
Status Date:	01/07/1988

Global Id:	T0603701320
Status:	Open - Verification Monitoring
Status Date:	02/26/1997

Regulatory Activities:

Global Id:	T0603701320
Action Type:	Other
Date:	11/18/1983
Action:	Leak Reported

GENERAL MOTORS CORP (FORM (Continued) **S100224615**

SWEEPS UST:

Status:	Active
Comp Number:	11979
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
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:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	902800016

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	Not reported
Facility Id:	011908-011979
Facility Type:	Not reported
Facility Status:	Removed
Area:	2J
Permit Number:	Not reported
Permit Status:	Not reported

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

L50 **GENERAL MOTORS CORP (FORMER)** **LUST** **S103281908**
ESE **2700 TWEEDY BLVD** **HWP** **N/A**
1/2-1 **SOUTH GATE, CA 90280**
0.841 mi.
4440 ft. **Site 2 of 3 in cluster L**

Relative:
Lower

Actual:
107 ft.

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	902800016
Status:	Case Closed
Substance:	Gasoline

GENERAL MOTORS CORP (FORMER) (Continued) **S103281908**

Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		EDITGT
Global ID:	T0603701320	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	SANTA FE	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		11/18/1983
Date Leak Record Entered:	12/31/1986	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		9/21/1998
Date the Case was Closed:		12/15/1997
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Other Source	
Operator:	PREVIOUSLY 2701 SEQUOIA DR	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		195.098730649148352504220837 22
Source of Cleanup Funding:		Other Source
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		1/7/1988
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		4/15/1988
Post Remedial Action Monitoring Began:		2/26/1997
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:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	GENERAL MOTORS	
RP Address:	1 PONTIAC PLAZA, MC 25-15, PONTIAC, MI 48340-2952	
Program:	LUST	
Lat/Long:	33.9460011 / -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:	WDR ADOPTED 3/28/88. ALL TANKS AND PIPING SYSTEM REMOVED. NPDES PERMIT /W-25-88. G/W TREATMENT SYSTEM OPERATIONAL 03/19/94 CASE ASSIGNED TO JL. 04/29/97 2ND QTR VERIFICATION RPT SOIL & GW REMEDIATION PROJ	

HWP:

EPA Id:	CAD008295719

GENERAL MOTORS CORP (FORMER) (Continued) **S103281908**

Cleanup Status: CLOSED
Latitude: 33.94620
Longitude: -118.2230
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 63
Senate District: 33
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAD008295719
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 12/19/1985

EPA Id: CAD008295719
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 11/24/1987

EPA Id: CAD008295719
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 10/18/1985

Closure:

EPA Id: CAD008295719
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 06/29/1988

EPA Id: CAD008295719
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 03/05/1990

Alias:

EPA Id: CAD008295719
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110002631901

L51 **GMC-GM ASSEMBLY DIV SOUTH GATE CA** **SEMS-ARCHIVE** **1000138892**
ESE **2700 TWEEDY BLVD** **CORRACTS** **CAD008295719**
1/2-1 **SOUTH GATE, CA 90280** **RCRA-TSDF**
0.841 mi. **RCRA-SQG**
4440 ft. **Site 3 of 3 in cluster L** **FINDS**
ECHO

Relative:
Lower

Actual:
107 ft.

SEMS-ARCHIVE:
Site ID: 900330
EPA ID: CAD008295719
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: Deferred to RCRA

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0900330
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13285509.00000
Person ID: 13003854.00000

Contact Sequence ID: 13291104.00000
Person ID: 13003858.00000

Contact Sequence ID: 13296962.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral Audit

Description: RCRA Deferral - Lead Confirmed

Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 08/03/90
Priority Level: Deferred to RCRA (Subtitle C)

Action: DISCOVERY
Date Started: / /
Date Completed: 07/12/89
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

CORRACTS:

EPA ID: CAD008295719
EPA Region: 9

GMC-GM ASSEMBLY DIV SOUTH GATE CA (Continued) **1000138892**

Area Name: ENTIRE FACILITY
Actual Date: 19900803
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 336211 336211
Motor Vehicle Body Manufacturing
Motor Vehicle Body Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 09/01/1996
Facility name: GMC-GM ASSEMBLY DIV SOUTH GATE CA
Facility address: 2700 TWEEDY BLVD
SOUTH GATE, CA 90280
EPA ID: CAD008295719
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: GMC-GM ASSEMBLY DIV SOUTH GATE CA
Owner/operator address: 2700 TWEEDY BLVD
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: (213) 563-5100
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GMC-GM ASSEMBLY DIV SOUTH GATE CA
Owner/operator address: 2700 TWEEDY BLVD
SOUTH GATE, CA 90280
Owner/operator country: Not reported
Owner/operator telephone: (213) 563-5100
Legal status: Private
Owner/Operator Type: Owner
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

GMC-GM ASSEMBLY DIV SOUTH GATE CA (Continued) **1000138892**

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: 08/06/1980
Site name: GMC-GM ASSEMBLY DIV SOUTH GATE CA
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 08/03/1990
Event: CA029WQ

Event date: 08/03/1990
Event: CA049PA

Event date: 08/03/1990
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 08/03/1990
Event: CA074LO

Event date: Not reported
Event: CA03192

Facility Has Received Notices of Violations:
Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 01/25/1989
Date achieved compliance: 03/05/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/25/1989
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: 02/20/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/31/1991

GMC-GM ASSEMBLY DIV SOUTH GATE CA (Continued) **1000138892**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/27/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/25/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/05/1990
Evaluation lead agency: State

FINDS:

Registry ID: 110002631901

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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000138892
Registry ID: 110002631901
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002631901

52
NNE
1/2-1
0.864 mi.
4562 ft.

Relative:
Higher

Actual:
138 ft.

MASTER WASH PRODUCTS INC
8122 ALAMEDA ST
HUNTINGTON PARK, CA 90255

ENVIROSTOR
HWP
NPDES

S107144905
N/A

ENVIROSTOR:
Facility ID: 80001485
Status: * Inactive
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Unknown
Division Branch: Cleanup Chatsworth

MASTER WASH PRODUCTS INC (Continued) **S107144905**

Assembly: 59
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.96529
Longitude: -118.2321
APN: 6202039004
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 6202039004
Alias Type: APN
Alias Name: CAD981979446
Alias Type: EPA Identification Number
Alias Name: 80001485
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

HWP:
EPA Id: CAD981979446
Cleanup Status: KNOWN GENERATORS
Latitude: 33.96508
Longitude: -118.2321
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 59
Senate District: 33
Public Information Officer: Not reported
Public Information Officer: Not reported

NPDES:
Npdes Number: Not reported
Facility Status: Not reported
Agency Id: Not reported
Region: 4

MASTER WASH PRODUCTS INC (Continued) **S107144905**

Regulatory Measure Id:	190818
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I014986
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:	4/2/2014
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	3/5/1999
STATUS CODE NAME:	Terminated
STATUS DATE:	4/29/2014
PLACE SIZE:	24400
PLACE SIZE UNIT:	SqFt
FACILITY CONTACT NAME:	Roland Prevo
FACILITY CONTACT TITLE:	Jr
FACILITY CONTACT PHONE:	323-585-5880
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Prevo, Roland Jr
OPERATOR ADDRESS:	8122 Alameda St
OPERATOR CITY:	Huntington Park
OPERATOR STATE:	California
OPERATOR ZIP:	90255
OPERATOR CONTACT NAME:	Roland Prevo
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	323-585-5880
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	323-585-5880
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

MASTER WASH PRODUCTS INC (Continued) **S107144905**

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:	Pacific Ocean
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	5015-Motor Vehicle Parts, Used
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	190818
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I014986
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/05/1999
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	04/02/2014
Discharge Name:	Prevo, Roland Jr
Discharge Address:	8122 Alameda St
Discharge City:	Huntington Park
Discharge State:	California
Discharge Zip:	90255
RECEIVED DATE:	Not reported
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

MASTER WASH PRODUCTS INC (Continued) **S107144905**

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

53
NNE
1/2-1
0.924 mi.
4878 ft.

ACME SCREW PRODUCTS INC **ENVIROSTOR** **S112999083**
7950 SOUTH ALAMEDA STREET **HAZNET** **N/A**
HUNTINGTON PARK, CA 90255

Relative:
Higher

Actual:
140 ft.

ENVIROSTOR:

Facility ID:	60002325
Status:	No Action Required
Status Date:	09/06/2016
Site Code:	301738
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.37
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Sara Vela
Supervisor:	Javier Hinojosa
Division Branch:	Cleanup Chatsworth
Assembly:	, 59
Senate:	, 33
Special Program:	EPA - PASI
Restricted Use:	NO

ACME SCREW PRODUCTS INC (Continued) **S112999083**

Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 33.96612
Longitude: -118.2323
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: NMA
Alias Name: 301738
Alias Type: Project Code (Site Code)
Alias Name: 60002325
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 09/20/2016
Comments: .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 09/20/2016
Comments: .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 09/20/2016
Comments: .

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

HAZNET:
envid: S112999083
Year: 2015
GEPAID: CAD008243511
Contact: RICHARD MATTHEWS/PRESIDENT
Telephone: 3235818611
Mailing Name: Not reported
Mailing Address: 7950 ALAMEDA ST
Mailing City,St,Zip: HUNTINGTON PARK, CA 902556601
Gen County: Los Angeles
TSD EPA ID: AZR000501510
TSD County: 99
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

ACME SCREW PRODUCTS INC (Continued) **S112999083**

	(H010-H129) Or (H131-H135)
Tons:	2.2935
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:	S112999083
Year:	2014
GEPAID:	CAD008243511
Contact:	RICHARD MATTHEWS/PRESIDENT
Telephone:	3235818611
Mailing Name:	Not reported
Mailing Address:	7950 ALAMEDA ST
Mailing City,St,Zip:	HUNTINGTON PARK, CA 902556601
Gen County:	Los Angeles
TSD EPA ID:	AZR000501510
TSD County:	99
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.14675
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles
envid:	S112999083
Year:	2013
GEPAID:	CAD008243511
Contact:	RICHARD MATTHEWS/PRESIDENT
Telephone:	3235818611
Mailing Name:	Not reported
Mailing Address:	7950 ALAMEDA ST
Mailing City,St,Zip:	HUNTINGTON PARK, CA 902556601
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	1.14675
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported
envid:	S112999083
Year:	2013
GEPAID:	CAD008243511
Contact:	RICHARD MATTHEWS/PRESIDENT
Telephone:	3235818611
Mailing Name:	Not reported
Mailing Address:	7950 ALAMEDA ST
Mailing City,St,Zip:	HUNTINGTON PARK, CA 902556601
Gen County:	Los Angeles
TSD EPA ID:	AZR000501510
TSD County:	99
Waste Category:	Not reported

ACME SCREW PRODUCTS INC (Continued) **S112999083**

Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.0842
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported
envid:	S112999083
Year:	2012
GEPAID:	CAD008243511
Contact:	RICHARD MATTHEWS/PRESIDENT
Telephone:	3235818611
Mailing Name:	Not reported
Mailing Address:	7950 ALAMEDA ST
Mailing City,St,Zip:	HUNTINGTON PARK, CA 902556601
Gen County:	Los Angeles
TSD EPA ID:	CAD981696420
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:	5.421
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
43 additional CA_HAZNET: record(s) in the EDR Site Report.

Count: 12 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HUNTINGTON PARK	1003878970	WILMINGTON AVENUE DUMP	NE CORNER ALAMEDA/RANDOLPH STS	90255	SEMS-ARCHIVE
HUNTINGTON PARK	1000300031	WILMINGTON DUMP	N E CORNER OF ALAMEDA & RANDOL	90255	ENVIROSTOR, WMUDS/SWAT
HUNTINGTON PARK	S107736489	HUNTINGTON PARK NEW ELEM. SCHOOL N	SEVILLE AVENUE/EAST 58TH STREE	90255	ENVIROSTOR, SCH
LOS ANGELES	S105911533	EXXON/MOBIL PIPELINE COMPANY LINE	ALAMEDA	90001	SLIC
LOS ANGELES	S110711857	SOUTH CENTRAL DISCOVERY PROJECT	SOUTH CENTRAL LOS ANGELES AREA	90001	RESPONSE, ENVIROSTOR
LOS ANGELES	S107737379	SOUTH REGION ES #2, SITE 6A 564001	S. CENTRAL/EAST FLORENCE	90001	ENVIROSTOR, SCH
SOUTH GATE	S103340220	CALTRANS SOUTH GATE	LONG BEACH FRWY & FIRESTONE BL		SWF/LF
SOUTH GATE	S105628516	STANFORD NEW PRIMARY CENTER	LONG BEACH BOULEVARD/MISSOURI	90280	ENVIROSTOR, SCH
SOUTH GATE	S106895125	SOUTHEASTERN AREA NEW HS NO. 2/MS	TWEEDY BOULEVARD/ALAMEDA STREE	90280	ENVIROSTOR, SCH
SOUTH GATE	S105557618	SOUTH REGION HIGH SCHOOL #9 (56.40	TWEEDY BOULEVARD/ADELLA AVENUE	90280	ENVIROSTOR, SCH, DEED
SOUTH GATE	S107737386	SOUTHEAST AREA NEW HS NO. 2/MS NO.	TWEEDY BOULEVARD/ALAMEDA STREE	90280	ENVIROSTOR, SCH
WILLOWBROOK	S102432239	KING/DREW MEDICAL MAGNET	COMPTON AVE	90059	LUST, HIST CORTESE

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: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

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: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 07/17/2017
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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/31/2017
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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/25/2017
Next Scheduled EDR Contact: 07/31/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

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 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 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 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 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

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 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 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

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 57
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/16/2017
Next Scheduled EDR Contact: 06/26/2017
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: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

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: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

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: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

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: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

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: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

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

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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

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: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
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: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/02/2017
Next Scheduled EDR Contact: 07/03/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 01/13/2017
Date Data Arrived at EDR: 01/17/2017
Date Made Active in Reports: 05/31/2017
Number of Days to Update: 134
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

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

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: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

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: 09/30/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 09/30/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 03/09/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
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: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
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: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
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: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
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: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 08/28/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
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: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
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: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
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: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
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: 06/06/2017
Next Scheduled EDR Contact: 08/21/2017
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: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
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: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
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: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
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: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
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: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
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: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
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: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
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: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
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: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 06/02/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

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: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

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: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
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: 03/09/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 42
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
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: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
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: 01/23/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 118

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
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: 02/14/2017
Date Data Arrived at EDR: 02/17/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 97

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

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: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
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: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/13/2017
Next Scheduled EDR Contact: 07/24/2017
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: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
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: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/03/2017
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: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
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: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 37

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 94

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
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: 11/17/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/26/2017
Number of Days to Update: 65

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 73

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
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: 04/06/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 40

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/20/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 57

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 36

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 77

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 41

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 08/07/2017
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: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
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: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
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: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 03/03/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 76

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
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: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
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: 03/15/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 54

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 96

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
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: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
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: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 105

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

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: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 10/05/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2017
Next Scheduled EDR Contact: 06/19/2017
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: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
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: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 02/21/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 91
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
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: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 06/26/2017
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: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 89
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
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: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 75

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
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: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 03/01/2017
Date Data Arrived at EDR: 03/30/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 54

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 01/24/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 114

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List

Cupa facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 113

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 34

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
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: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
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: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
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: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
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: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
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: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
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: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
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: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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
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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 was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

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

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

92ND STREET ELEMENTARY SCHOOL
9211 GRAPE ST
LOS ANGELES, CA 90002

TARGET PROPERTY COORDINATES

Latitude (North):	33.951885 - 33° 57' 6.79''
Longitude (West):	118.236849 - 118° 14' 12.66''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	385709.4
UTM Y (Meters):	3757315.8
Elevation:	117 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5633765 SOUTH GATE, CA
Version Date:	2012
West Map:	5640440 INGLEWOOD, 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).

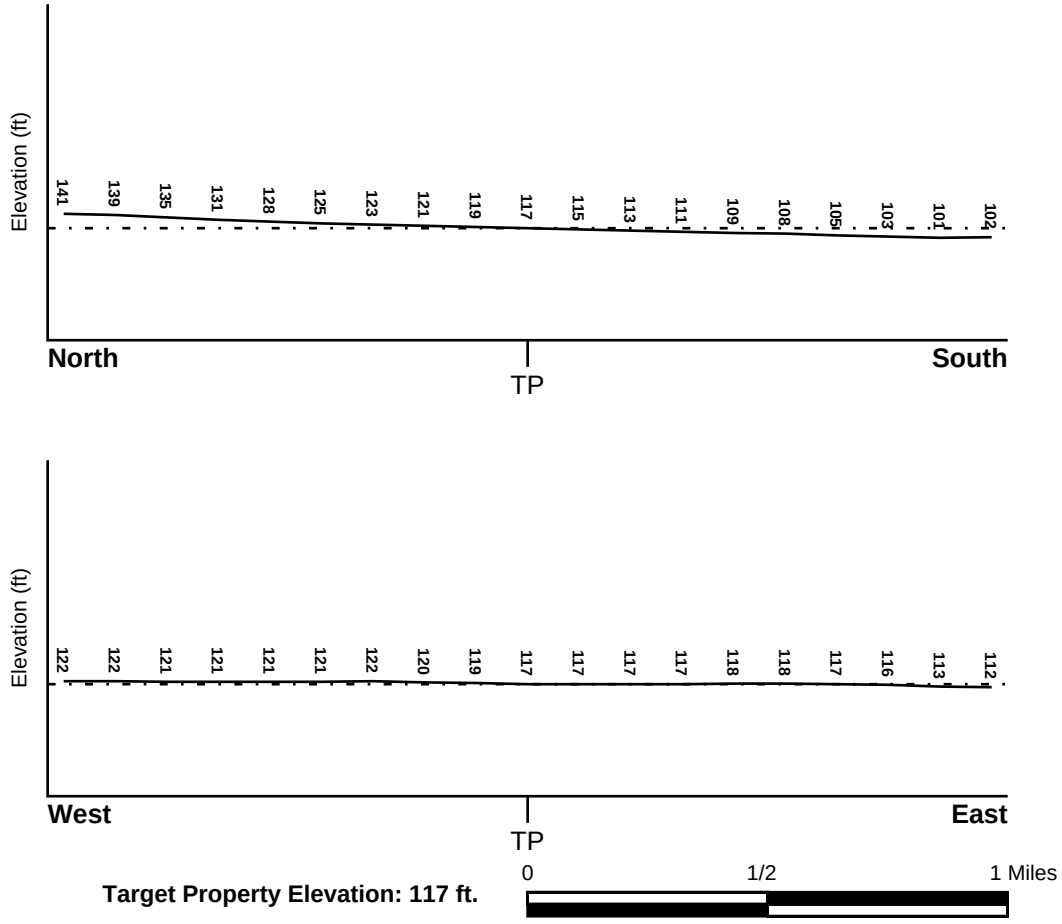
TOPOGRAPHIC INFORMATION

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 SSE

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

Flood Plain Panel at Target Property	FEMA Source Type
06037C1805F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1785F	FEMA FIRM Flood data
06037C1815F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SOUTH GATE	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 ENE
Site Name:	Firestone Tire & Rubber Company
Site EPA ID Number:	CAD008375776
Surficial Aquifer Flow Dir.:	NE. THIS FLOW APPLIES TO AQUIFERS PRESENT ABOVE 350 FEET DEEP.
Inferred Depth to Water:	less than 60 feet in the semi-perched aquifer.
Hydraulic Connection:	Aquicludes separate aquifers underlying the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented 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		

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:	Quaternary
Series:	Quaternary
Code:	Q *(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: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 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	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 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:
loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Surficial Soil Types:
loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Shallow Soil Types:
fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types:
stratified
clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

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

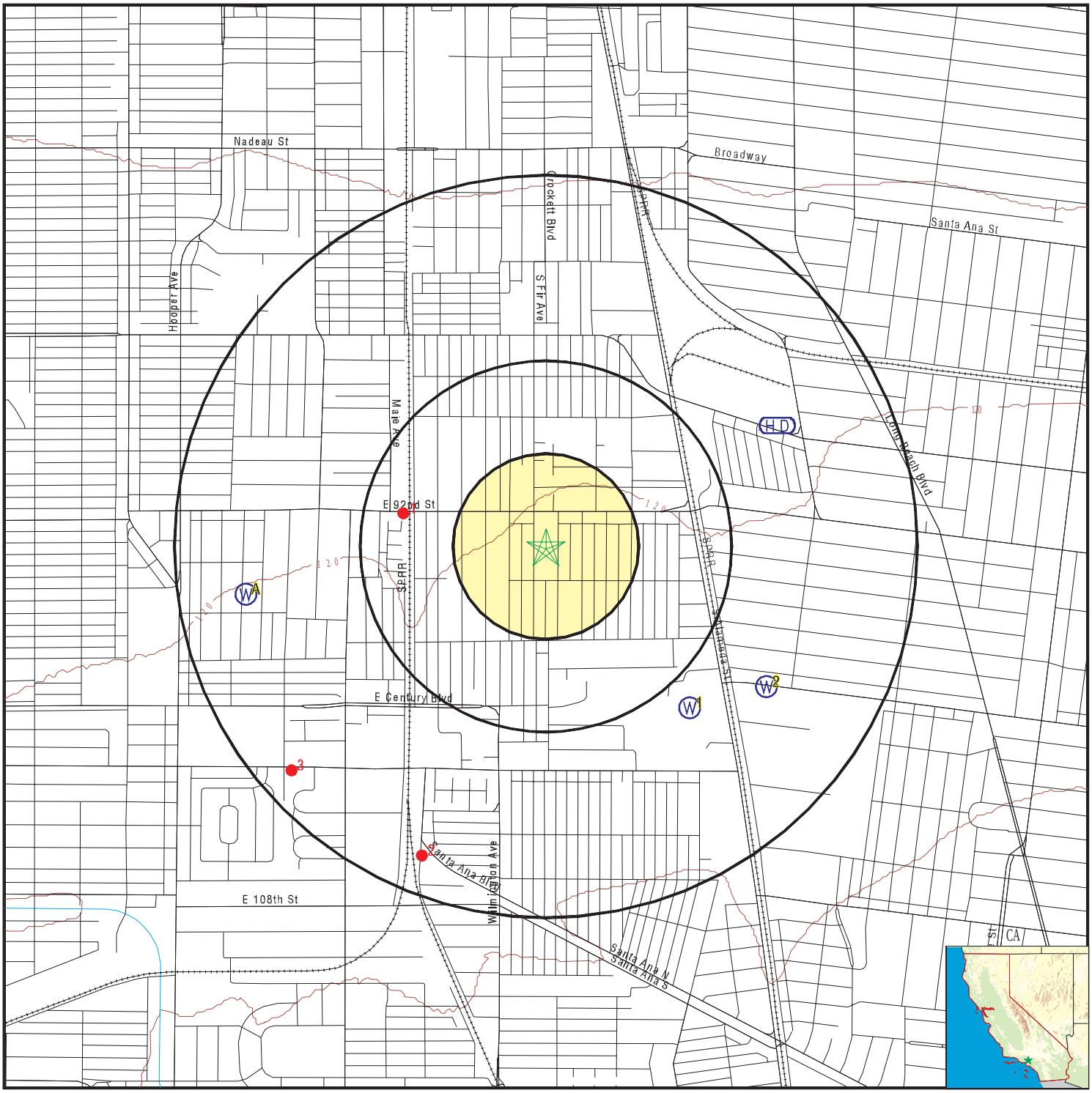
MAP ID	WELL ID	LOCATION FROM TP
1	2967	1/2 - 1 Mile SE
2	2966	1/2 - 1 Mile ESE
A3	2961	1/2 - 1 Mile West
A4	2960	1/2 - 1 Mile West
A5	2959	1/2 - 1 Mile West
A6	4084	1/2 - 1 Mile West
A7	2963	1/2 - 1 Mile West
A8	2962	1/2 - 1 Mile West
A9	2958	1/2 - 1 Mile West
A10	2955	1/2 - 1 Mile West
A11	2956	1/2 - 1 Mile West
A12	2957	1/2 - 1 Mile West

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG11000204679	1/4 - 1/2 Mile WNW
2	CAOG11000214729	1/2 - 1 Mile SSW
3	CAOG11000205017	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 4961336.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- 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: 92nd Street Elementary School	CLIENT: Accord Engineering, Inc
ADDRESS: 9211 Grape St Los Angeles CA 90002	CONTACT: Rice Xiao
LAT/LONG: 33.951885 / 118.236849	INQUIRY #: 4961336.2s DATE: June 08, 2017 7:24 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **SE** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**2967**

Water System Information:

Prime Station Code:	02S/13W-34R01 S	User ID:	4TH
FRDS Number:	1910152017	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	335644.0 1181345.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 27		
System Number:	1910152		
System Name:	SOUTH GATE-CITY, WATER DEPT.		
Organization That Operates System:			
	8650 CALIFORNIA AVE. SOUTH GATE, CA 90280		
Pop Served:	82550	Connections:	14719
Area Served:	SOUTH GATE		
Sample Collected:	14-AUG-14	Findings:	170. UG/L
Chemical:	IRON		
Sample Collected:	14-AUG-14	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	11-SEP-14	Findings:	210. UG/L
Chemical:	IRON		
Sample Collected:	11-SEP-14	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	09-OCT-14	Findings:	170. UG/L
Chemical:	IRON		
Sample Collected:	09-OCT-14	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	12-NOV-14	Findings:	200. UG/L
Chemical:	IRON		
Sample Collected:	12-NOV-14	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	11-DEC-14	Findings:	180. UG/L
Chemical:	IRON		
Sample Collected:	11-DEC-14	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	08-JAN-15	Findings:	160. UG/L
Chemical:	IRON		
Sample Collected:	08-JAN-15	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	12-FEB-15	Findings:	240. UG/L
Chemical:	IRON		

Sample Collected:	12-FEB-15	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	12-MAR-15	Findings:	200. UG/L
Chemical:	IRON		
Sample Collected:	12-MAR-15	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	09-APR-15	Findings:	180. UG/L
Chemical:	IRON		
Sample Collected:	09-APR-15	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	14-MAY-15	Findings:	470. UG/L
Chemical:	IRON		
Sample Collected:	14-MAY-15	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	09-JUL-15	Findings:	200. UG/L
Chemical:	IRON		
Sample Collected:	09-JUL-15	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	08-OCT-15	Findings:	110. UG/L
Chemical:	IRON		
Sample Collected:	08-OCT-15	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	31-DEC-15	Findings:	0.208 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	31-DEC-15	Findings:	0.58 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	31-DEC-15	Findings:	0.47 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	31-DEC-15	Findings:	0.253 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	31-DEC-15	Findings:	570. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	31-DEC-15	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	31-DEC-15	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	31-DEC-15	Findings:	210. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	31-DEC-15	Findings:	170. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	31-DEC-15	Findings:	53. MG/L
Chemical:	CALCIUM		
Sample Collected:	31-DEC-15	Findings:	9.9 MG/L
Chemical:	MAGNESIUM		

Sample Collected:	31-DEC-15	Findings:	40. MG/L
Chemical:	SODIUM		
Sample Collected:	31-DEC-15	Findings:	2.6 MG/L
Chemical:	POTASSIUM		
Sample Collected:	31-DEC-15	Findings:	25. MG/L
Chemical:	CHLORIDE		
Sample Collected:	31-DEC-15	Findings:	81. MG/L
Chemical:	SULFATE		
Sample Collected:	31-DEC-15	Findings:	0.26 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	31-DEC-15	Findings:	120. UG/L
Chemical:	BARIUM		
Sample Collected:	31-DEC-15	Findings:	130. UG/L
Chemical:	MANGANESE		
Sample Collected:	31-DEC-15	Findings:	0.169 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	31-DEC-15	Findings:	0.854 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	31-DEC-15	Findings:	330. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	31-DEC-15	Findings:	0.22 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	31-DEC-15	Findings:	12.5
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	31-DEC-15	Findings:	1.e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	31-DEC-15	Findings:	1.297 PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	14-JAN-16	Findings:	150. UG/L
Chemical:	MANGANESE		
Sample Collected:	14-APR-16	Findings:	180. UG/L
Chemical:	MANGANESE		
Sample Collected:	14-APR-16	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-JUN-16	Findings:	0.35 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	14-JUL-16	Findings:	680. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	14-JUL-16	Findings:	7.81
Chemical:	PH, LABORATORY		
Sample Collected:	14-JUL-16	Findings:	190. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	14-JUL-16	Findings:	230. MG/L
Chemical:	BICARBONATE ALKALINITY		

Sample Collected:	14-JUL-16	Findings:	1.3 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-JUL-16	Findings:	240. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	14-JUL-16	Findings:	71. MG/L
Chemical:	CALCIUM		
Sample Collected:	14-JUL-16	Findings:	15. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	14-JUL-16	Findings:	46. MG/L
Chemical:	SODIUM		
Sample Collected:	14-JUL-16	Findings:	3.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	14-JUL-16	Findings:	43. MG/L
Chemical:	CHLORIDE		
Sample Collected:	14-JUL-16	Findings:	93. MG/L
Chemical:	SULFATE		
Sample Collected:	14-JUL-16	Findings:	0.24 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	14-JUL-16	Findings:	63. UG/L
Chemical:	MANGANESE		
Sample Collected:	14-JUL-16	Findings:	0.87 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUL-16	Findings:	410. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-JUL-16	Findings:	12.3
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10-JAN-11	Findings:	200. UG/L
Chemical:	IRON		
Sample Collected:	10-JAN-11	Findings:	150. UG/L
Chemical:	MANGANESE		
Sample Collected:	03-FEB-11	Findings:	180. UG/L
Chemical:	IRON		
Sample Collected:	03-FEB-11	Findings:	130. UG/L
Chemical:	MANGANESE		
Sample Collected:	03-MAR-11	Findings:	350. UG/L
Chemical:	IRON		
Sample Collected:	03-MAR-11	Findings:	130. UG/L
Chemical:	MANGANESE		
Sample Collected:	07-APR-11	Findings:	3.6 UG/L
Chemical:	ARSENIC		
Sample Collected:	07-APR-11	Findings:	410. UG/L
Chemical:	IRON		
Sample Collected:	07-APR-11	Findings:	140. UG/L
Chemical:	MANGANESE		

Sample Collected:	19-MAY-11	Findings:	530. UG/L
Chemical:	IRON		
Sample Collected:	19-MAY-11	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	09-JUN-11	Findings:	450. UG/L
Chemical:	IRON		
Sample Collected:	09-JUN-11	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	21-JUL-11	Findings:	7.5 UNITS
Chemical:	COLOR		
Sample Collected:	21-JUL-11	Findings:	380. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-JUL-11	Findings:	8.3
Chemical:	PH, LABORATORY		
Sample Collected:	21-JUL-11	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	21-JUL-11	Findings:	170. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-JUL-11	Findings:	180. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	21-JUL-11	Findings:	57. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-JUL-11	Findings:	10. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-JUL-11	Findings:	42. MG/L
Chemical:	SODIUM		
Sample Collected:	21-JUL-11	Findings:	3. MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-JUL-11	Findings:	22. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-JUL-11	Findings:	76. MG/L
Chemical:	SULFATE		
Sample Collected:	21-JUL-11	Findings:	0.29 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-JUL-11	Findings:	2.7 UG/L
Chemical:	ARSENIC		
Sample Collected:	21-JUL-11	Findings:	130. UG/L
Chemical:	BARIUM		
Sample Collected:	21-JUL-11	Findings:	600. UG/L
Chemical:	IRON		
Sample Collected:	21-JUL-11	Findings:	150. UG/L
Chemical:	MANGANESE		
Sample Collected:	21-JUL-11	Findings:	350. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

Sample Collected:	21-JUL-11	Findings:	4.6 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	21-JUL-11	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	11-AUG-11	Findings:	590. UG/L
Chemical:	IRON		
Sample Collected:	11-AUG-11	Findings:	150. UG/L
Chemical:	MANGANESE		
Sample Collected:	15-SEP-11	Findings:	550. UG/L
Chemical:	IRON		
Sample Collected:	15-SEP-11	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	20-OCT-11	Findings:	820. UG/L
Chemical:	IRON		
Sample Collected:	20-OCT-11	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	10-NOV-11	Findings:	260. UG/L
Chemical:	IRON		
Sample Collected:	10-NOV-11	Findings:	120. UG/L
Chemical:	MANGANESE		
Sample Collected:	15-DEC-11	Findings:	270. UG/L
Chemical:	IRON		
Sample Collected:	15-DEC-11	Findings:	130. UG/L
Chemical:	MANGANESE		
Sample Collected:	19-JAN-12	Findings:	170. UG/L
Chemical:	IRON		
Sample Collected:	19-JAN-12	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	16-FEB-12	Findings:	13.4 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	16-FEB-12	Findings:	200. UG/L
Chemical:	IRON		
Sample Collected:	16-FEB-12	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	15-MAR-12	Findings:	17.6 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	15-MAR-12	Findings:	220. UG/L
Chemical:	IRON		
Sample Collected:	15-MAR-12	Findings:	110. UG/L
Chemical:	MANGANESE		
Sample Collected:	12-APR-12	Findings:	18.4 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12-APR-12	Findings:	370. UG/L
Chemical:	IRON		

Sample Collected:	12-APR-12	Findings:	120. UG/L
Chemical:	MANGANESE		
Sample Collected:	10-MAY-12	Findings:	19.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10-MAY-12	Findings:	430. UG/L
Chemical:	IRON		
Sample Collected:	10-MAY-12	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	07-JUN-12	Findings:	18.9 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07-JUN-12	Findings:	120. UG/L
Chemical:	MANGANESE		
Sample Collected:	12-JUL-12	Findings:	21.4 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12-JUL-12	Findings:	1800. UG/L
Chemical:	IRON		
Sample Collected:	12-JUL-12	Findings:	260. UG/L
Chemical:	MANGANESE		
Sample Collected:	12-JUL-12	Findings:	5.1 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	12-JUL-12	Findings:	2.1 UG/L
Chemical:	DIBROMOCHLOROMETHANE (THM)		
Sample Collected:	12-JUL-12	Findings:	940. UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	12-JUL-12	Findings:	1. UG/L
Chemical:	DICHLOROMETHANE		
Sample Collected:	12-JUL-12	Findings:	940. UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	16-AUG-12	Findings:	17.8 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	16-AUG-12	Findings:	150. UG/L
Chemical:	IRON		
Sample Collected:	16-AUG-12	Findings:	130. UG/L
Chemical:	MANGANESE		
Sample Collected:	13-SEP-12	Findings:	19.4 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	13-SEP-12	Findings:	220. UG/L
Chemical:	IRON		
Sample Collected:	13-SEP-12	Findings:	83. UG/L
Chemical:	MANGANESE		
Sample Collected:	11-OCT-12	Findings:	23.4 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11-OCT-12	Findings:	670. UG/L
Chemical:	IRON		

Sample Collected:	11-OCT-12	Findings:	150. UG/L
Chemical:	MANGANESE		
Sample Collected:	30-OCT-12	Findings:	19.8 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	13-JUN-13	Findings:	17.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	13-JUN-13	Findings:	160. UG/L
Chemical:	IRON		
Sample Collected:	13-JUN-13	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	11-JUL-13	Findings:	20.6 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11-JUL-13	Findings:	150. UG/L
Chemical:	IRON		
Sample Collected:	11-JUL-13	Findings:	120. UG/L
Chemical:	MANGANESE		
Sample Collected:	27-AUG-13	Findings:	17.6 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	27-AUG-13	Findings:	140. UG/L
Chemical:	IRON		
Sample Collected:	27-AUG-13	Findings:	130. UG/L
Chemical:	MANGANESE		
Sample Collected:	12-SEP-13	Findings:	17.9 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12-SEP-13	Findings:	130. UG/L
Chemical:	IRON		
Sample Collected:	12-SEP-13	Findings:	130. UG/L
Chemical:	MANGANESE		
Sample Collected:	17-OCT-13	Findings:	17.9 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	17-OCT-13	Findings:	130. UG/L
Chemical:	MANGANESE		
Sample Collected:	14-NOV-13	Findings:	16.9 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	14-NOV-13	Findings:	150. UG/L
Chemical:	IRON		
Sample Collected:	14-NOV-13	Findings:	130. UG/L
Chemical:	MANGANESE		
Sample Collected:	12-DEC-13	Findings:	17.5 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12-DEC-13	Findings:	170. UG/L
Chemical:	IRON		
Sample Collected:	12-DEC-13	Findings:	130. UG/L
Chemical:	MANGANESE		

Sample Collected:	13-FEB-14	Findings:	180. UG/L
Chemical:	IRON		
Sample Collected:	13-FEB-14	Findings:	150. UG/L
Chemical:	MANGANESE		
Sample Collected:	13-MAR-14	Findings:	180. UG/L
Chemical:	IRON		
Sample Collected:	13-MAR-14	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	17-APR-14	Findings:	170. UG/L
Chemical:	IRON		
Sample Collected:	17-APR-14	Findings:	150. UG/L
Chemical:	MANGANESE		
Sample Collected:	08-MAY-14	Findings:	160. UG/L
Chemical:	IRON		
Sample Collected:	08-MAY-14	Findings:	150. UG/L
Chemical:	MANGANESE		
Sample Collected:	12-JUN-14	Findings:	140. UG/L
Chemical:	IRON		
Sample Collected:	12-JUN-14	Findings:	140. UG/L
Chemical:	MANGANESE		
Sample Collected:	24-JUL-14	Findings:	460. UG/L
Chemical:	IRON		
Sample Collected:	24-JUL-14	Findings:	55. UG/L
Chemical:	MANGANESE		
Sample Collected:	24-JUL-14	Findings:	1.7 UG/L
Chemical:	CHLOROFORM (THM)		

2
ESE **CA WELLS** **2966**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	02S/13W-34Q03 S	User ID:	4TH
FRDS Number:	1910152016	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	335647.0 1181332.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 26		
System Number:	1910152		
System Name:	SOUTH GATE-CITY, WATER DEPT.		
Organization That Operates System:			
	8650 CALIFORNIA AVE.		
	SOUTH GATE, CA 90280		
Pop Served:	82550	Connections:	14719
Area Served:	SOUTH GATE		
Sample Collected:	10-JAN-11	Findings:	600. US
Chemical:	SPECIFIC CONDUCTANCE		

Sample Collected:	10-JAN-11	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	10-JAN-11	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	10-JAN-11	Findings:	180. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10-JAN-11	Findings:	230. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	10-JAN-11	Findings:	68. MG/L
Chemical:	CALCIUM		
Sample Collected:	10-JAN-11	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10-JAN-11	Findings:	45. MG/L
Chemical:	SODIUM		
Sample Collected:	10-JAN-11	Findings:	3.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10-JAN-11	Findings:	36. MG/L
Chemical:	CHLORIDE		
Sample Collected:	10-JAN-11	Findings:	87. MG/L
Chemical:	SULFATE		
Sample Collected:	10-JAN-11	Findings:	0.42 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10-JAN-11	Findings:	380. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JAN-11	Findings:	3.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JAN-11	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10-JAN-11	Findings:	770. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	21-JUL-11	Findings:	0.84 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-NOV-11	Findings:	0.95 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-JAN-12	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-JAN-12	Findings:	6.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-APR-12	Findings:	18.7 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12-APR-12	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JUL-12	Findings:	19.8 C
Chemical:	SOURCE TEMPERATURE C		

Sample Collected:	12-JUL-12	Findings:	0.92 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-OCT-12	Findings:	17.9 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11-OCT-12	Findings:	0.75 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-JAN-13	Findings:	15.4 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	17-JAN-13	Findings:	0.68 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-JAN-13	Findings:	4.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-APR-13	Findings:	17.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	18-APR-13	Findings:	0.88 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-APR-13	Findings:	5.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUL-13	Findings:	20.8 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11-JUL-13	Findings:	0.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-OCT-13	Findings:	18.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	17-OCT-13	Findings:	0.68 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-JAN-14	Findings:	700. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	16-JAN-14	Findings:	7.5
Chemical:	PH, LABORATORY		
Sample Collected:	16-JAN-14	Findings:	190. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	16-JAN-14	Findings:	240. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	16-JAN-14	Findings:	260. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	16-JAN-14	Findings:	75.8 MG/L
Chemical:	CALCIUM		
Sample Collected:	16-JAN-14	Findings:	16.6 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	16-JAN-14	Findings:	48. MG/L
Chemical:	SODIUM		
Sample Collected:	16-JAN-14	Findings:	3.4 MG/L
Chemical:	POTASSIUM		

Sample Collected:	16-JAN-14	Findings:	47. MG/L
Chemical:	CHLORIDE		
Sample Collected:	16-JAN-14	Findings:	96. MG/L
Chemical:	SULFATE		
Sample Collected:	16-JAN-14	Findings:	0.47 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	16-JAN-14	Findings:	110. UG/L
Chemical:	BARIUM		
Sample Collected:	16-JAN-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-JAN-14	Findings:	410. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	16-JAN-14	Findings:	6.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JAN-14	Findings:	12.1
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	17-APR-14	Findings:	0.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-APR-14	Findings:	2.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-JUN-14	Findings:	1.3 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	24-JUL-14	Findings:	0.78 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-OCT-14	Findings:	1.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	09-OCT-14	Findings:	0.84 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-JAN-15	Findings:	0.68 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-APR-15	Findings:	5.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JUL-15	Findings:	0.54 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-OCT-15	Findings:	0.53 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-APR-16	Findings:	1.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-JUL-16	Findings:	0.149 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	14-JUL-16	Findings:	0.53 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	14-JUL-16	Findings:	0.47 PCI/L
Chemical:	RADIUM 226 MDA95		

Sample Collected:	14-JUL-16	Findings:	0.252 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	14-JUL-16	Findings:	4.1 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-JUL-16	Findings:	0.259 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-JUL-16	Findings:	4.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-JUL-16	Findings:	4.e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		

A3
West **CA WELLS** **2961**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	02S/13W-32R11 S	User ID:	MET
FRDS Number:	1910067006	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	335700.0 1181500.0	Precision:	Undefined
Source Name:	99 TH STREET WELL 09 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:			
	P.O. BOX 51111, ROOM 1420 LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

A4
West **CA WELLS** **2960**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	02S/13W-32R10 S	User ID:	MET
FRDS Number:	1910067007	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	335700.0 1181500.0	Precision:	Undefined
Source Name:	99 TH STREET WELL 10 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:			
	P.O. BOX 51111, ROOM 1420 LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

A5
West **CA WELLS** **2959**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	02S/13W-32R08 S	User ID:	MET
FRDS Number:	1910067002	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	335700.0 1181500.0	Precision:	Undefined
Source Name:	99 TH STREET WELL 01 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:			
	P.O. BOX 51111, ROOM 1420 LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

A6
West
1/2 - 1 Mile
Higher

CA WELLS **4084**

Water System Information:

Prime Station Code:	03S/13W-04D01 S	User ID:	MET
FRDS Number:	1910067016	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	335700.0 1181500.0	Precision:	Undefined
Source Name:	CLOVIS WELL 01 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:			
	P.O. BOX 51111, ROOM 1420 LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

A7
West
1/2 - 1 Mile
Higher

CA WELLS **2963**

Water System Information:

Prime Station Code:	02S/13W-32R13 S	User ID:	MET
FRDS Number:	1910067008	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335700.0 1181500.0	Precision:	Undefined
Source Name:	99 TH STREET WELL 11		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:			
	P.O. BOX 51111, ROOM 1420 LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A8
West
1/2 - 1 Mile
Higher | **CA WELLS** | **2962**

Water System Information:

Prime Station Code:	02S/13W-32R12 S	User ID:	MET
FRDS Number:	1910067005	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	335700.0 1181500.0	Precision:	Undefined
Source Name:	99 TH STREET WELL 08 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:			
	P.O. BOX 51111, ROOM 1420		
	LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

A9
West
1/2 - 1 Mile
Higher | **CA WELLS** | **2958**

Water System Information:

Prime Station Code:	02S/13W-32R07 S	User ID:	MET
FRDS Number:	1910067004	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	335700.0 1181500.0	Precision:	Undefined
Source Name:	99 TH STREET WELL 07 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:			
	P.O. BOX 51111, ROOM 1420		
	LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

A10
West
1/2 - 1 Mile
Higher | **CA WELLS** | **2955**

Water System Information:

Prime Station Code:	02S/13W-32C04 S	User ID:	MET
FRDS Number:	1910067135	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	335700.0 1181500.0	Precision:	Undefined
Source Name:	TOWNE WELL 02 - INACTIVE		

System Number: 1910067
System Name: LOS ANGELES-CITY, DEPT. OF WATER & POWER
Organization That Operates System:
P.O. BOX 51111, ROOM 1420
LOS ANGELES, CA 90051
Pop Served: 3700000 Connections: 657422
Area Served: LOS ANGELES

A11
West **CA WELLS** **2956**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	02S/13W-32F02 S	User ID:	MET
FRDS Number:	1910067134	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	335700.0 1181500.0	Precision:	Undefined
Source Name:	TOWNE WELL 01 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:			
	P.O. BOX 51111, ROOM 1420		
	LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

A12
West **CA WELLS** **2957**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	02S/13W-32R06 S	User ID:	MET
FRDS Number:	1910067003	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	335700.0 1181500.0	Precision:	Undefined
Source Name:	99 TH STREET WELL 06 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:			
	P.O. BOX 51111, ROOM 1420		
	LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
WNW **OIL_GAS** **CAOG11000204679**
1/4 - 1/2 Mile

District nun:	1	Api number:	03705448
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	33
Township:	02S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Pacific Electric Ry. Co.	Wellnumber:	B-1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000204679		

2
SSW **OIL_GAS** **CAOG11000214729**
1/2 - 1 Mile

District nun:	1	Api number:	03721520
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	American Petrofina Expl. Co.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	4
Township:	03S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Central C.H.	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:	CAOG11000214729		

3
SW **OIL_GAS** **CAOG11000205017**
1/2 - 1 Mile

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

District nun:	1	Api number:	03705936
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	A
Operator name:	Southwest Petroleum Corp.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	4
Township:	03S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ramsaur	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000205017		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90002	3	0

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 was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

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

Appendix D

EDR Aerial Photo Decade Package

92nd Street Elementary School
9211 Grape St
Los Angeles, CA 90002

Inquiry Number: 4961336.9
June 12, 2017

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

06 12 17

Site Name:

92nd Street Elementary Schoo
9211 Grape St
Los Angeles, CA 90002
EDR Inquiry # 4961336.9

Client Name:

Accord Engineering, Inc
2923 Pullman Street
Santa Ana, CA 92705
Contact: Rice Xiao

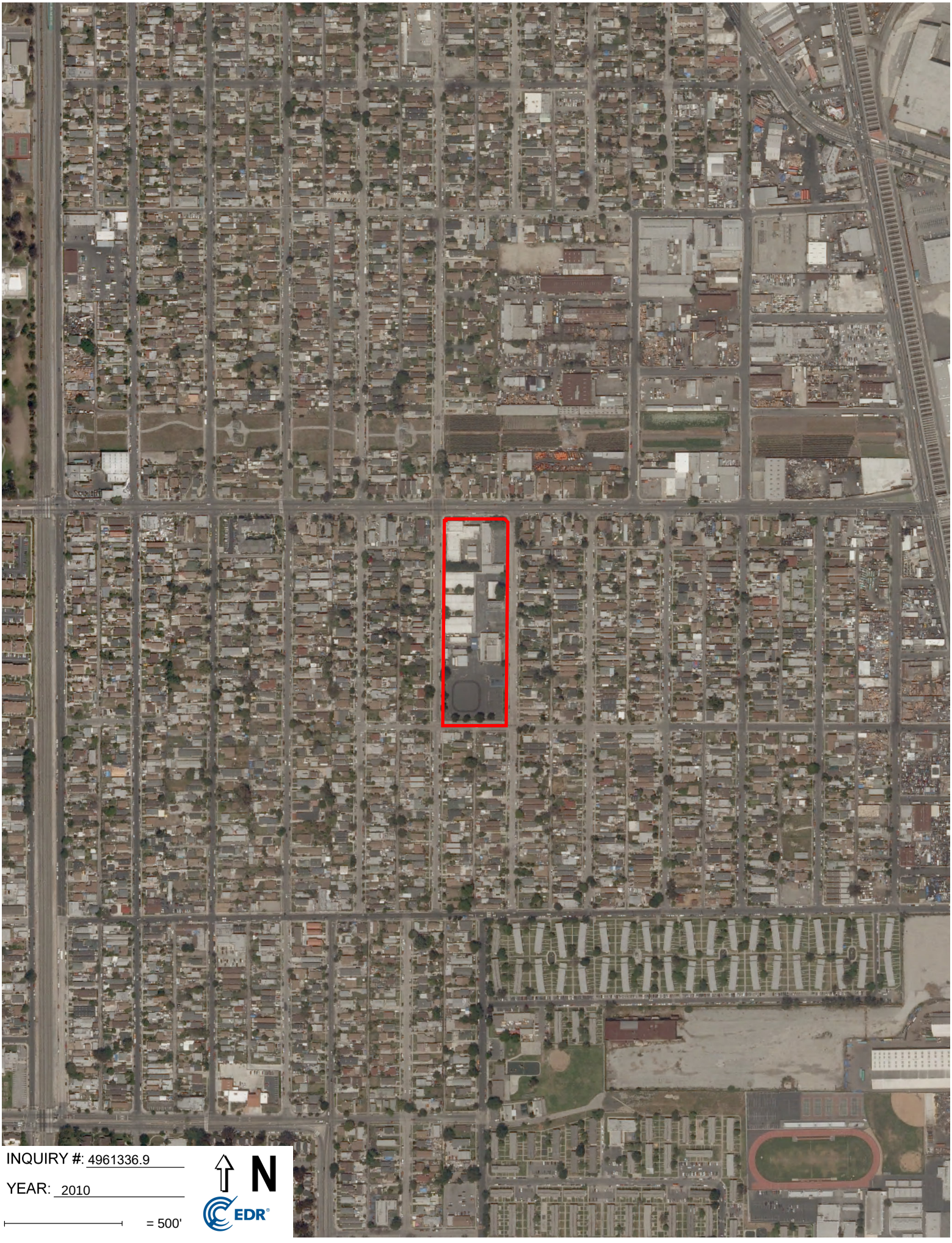
Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial 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	USDA
1994	1"=500'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1981	1"=500'	Flight Date: February 21, 1981	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: May 29, 1977	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: November 24, 1972	EDR Proprietary Brewster Pacific
1963	1"=500'	Flight Date: February 28, 1963	USGS
1952	1"=500'	Flight Date: April 12, 1952	USDA
1938	1"=500'	Flight Date: July 13, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	USGS
1923	1"=500'	Flight Date: January 01, 1923	FAIR

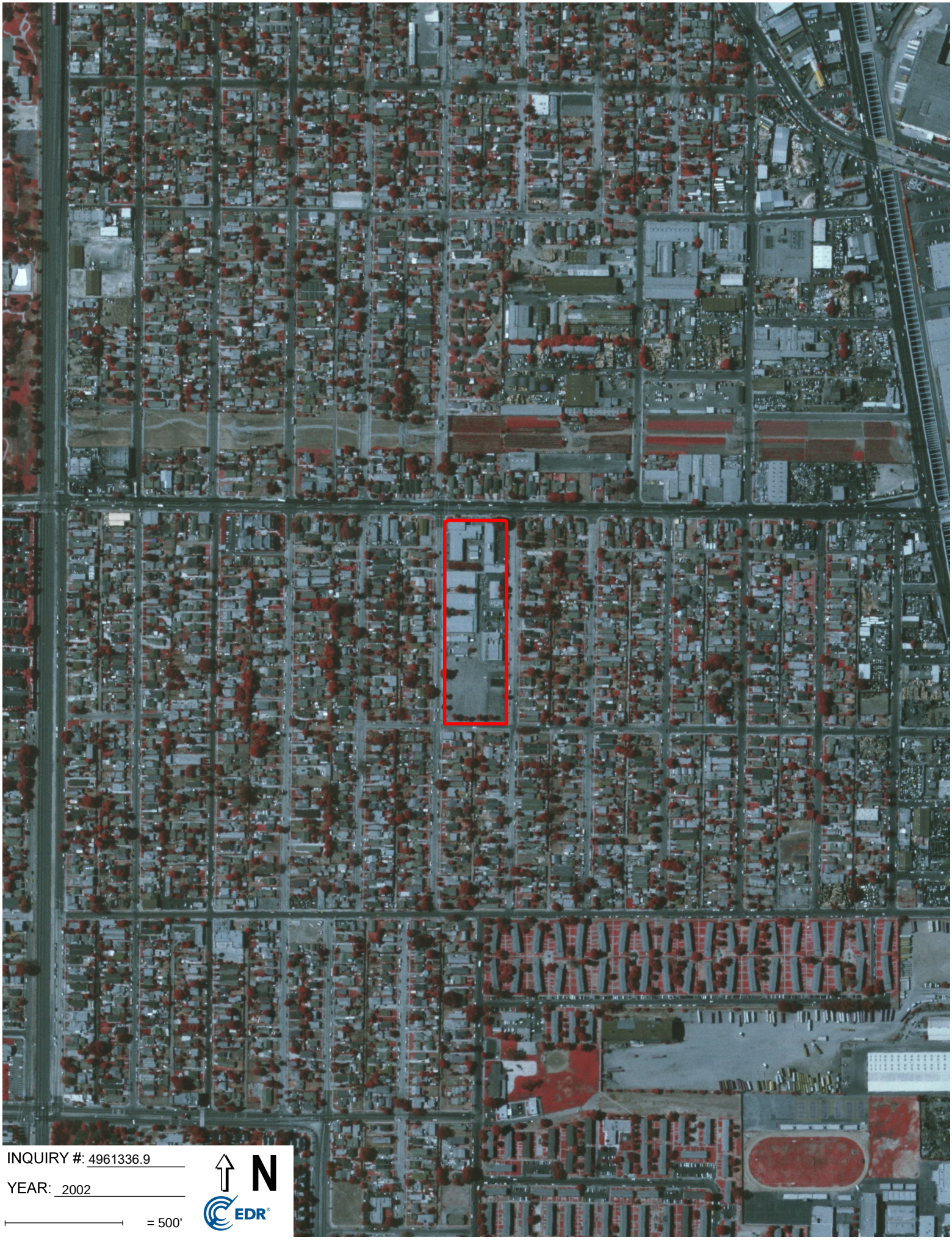
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.


INQUIRY #: 4961336.9
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 4961336.9
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 4961336.9
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 4961336.9
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 4961336.9
YEAR: 2002
= 500'
N
EDR


INQUIRY #: 4961336.9
YEAR: 1994
= 500'
N
EDR


INQUIRY #: 4961336.9
YEAR: 1989
= 500'
N
EDR

INQUIRY #: 4961336.9

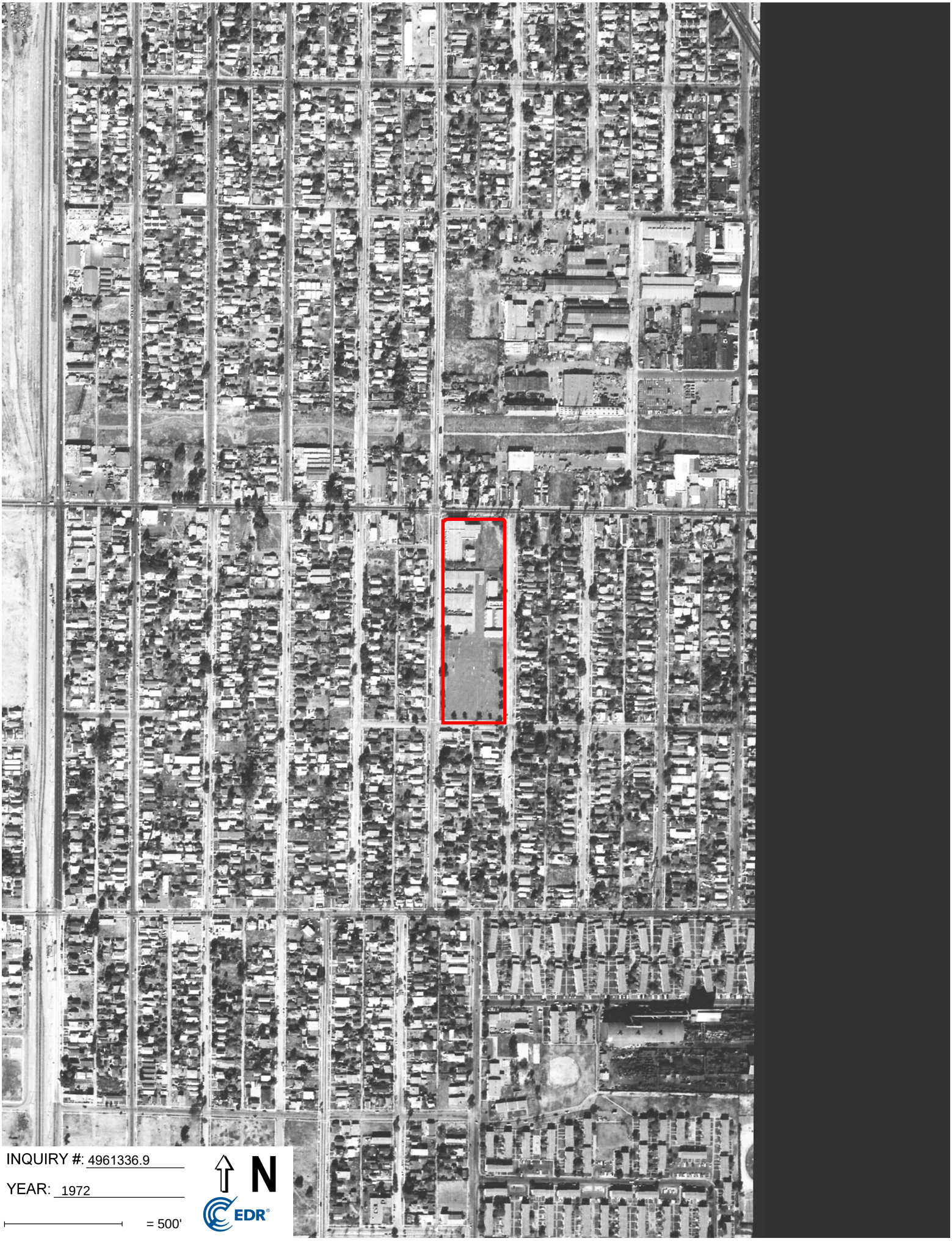
YEAR: 1981

= 500'

N

EDR


INQUIRY #: 4961336.9
YEAR: 1977
= 500'
N
EDR



INQUIRY #: 4961336.9

YEAR: 1972

= 500'

N

EDR


INQUIRY #: 4961336.9
YEAR: 1963
= 500'
N
EDR

INQUIRY #: 4961336.9

YEAR: 1952

= 500'

N

EDR


INQUIRY #: 4961336.9
YEAR: 1938
= 500'
N
EDR


INQUIRY #: 4961336.9
YEAR: 1928
= 500'
N
EDR

INQUIRY #: 4961336.9

YEAR: 1923

= 500'

N

EDR

Appendix E

EDR Historical Topographic Map Report

92nd Street Elementary School
9211 Grape St
Los Angeles, CA 90002

Inquiry Number: 4961336.4
June 08, 2017

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

06 08 17

Site Name:

92nd Street Elementary Schoo
9211 Grape St
Los Angeles, CA 90002
EDR Inquiry # 4961336.4

Client Name:

Accord Engineering, Inc
2923 Pullman Street
Santa Ana, CA 92705
Contact: Rice Xiao

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Accord Engineering, 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.# 170602
Project: 92nd Street Elementary Schoo

Coordinates:

Latitude:	33.951885 33 57 7" North
Longitude:	-118.236849 -118 14 13" West
UTM Zone:	one 11 North
UTM X Meters:	385711.95
UTM Y Meters:	3757510.11
Elevation:	117.00 above sea level

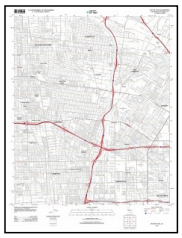
Maps Provided:

2012	1942
1981	1937
1972	1924
1964	1923
1952	1902
1949, 1950	1899
1947, 1948	1896
1943	

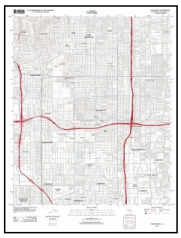
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



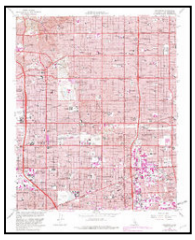
South Gate
2012
7.5-minute, 24000



Inglewood
2012
7.5-minute, 24000

1981 Source Sheets

South Gate
1981
7.5-minute, 24000
Aerial Photo Revised 1978



Inglewood
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets

South Gate
1972
7.5-minute, 24000
Aerial Photo Revised 1972

Inglewood
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1964 Source Sheets

South Gate
1964
7.5-minute, 24000
Aerial Photo Revised 1963

Inglewood
1964
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.

1952 Source Sheets

SOUTH GATE
1952
7.5-minute, 24000

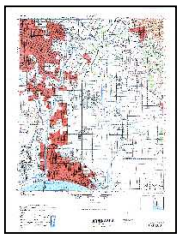
Inglewood
1952
7.5-minute, 24000
Aerial Photo Revised 1947

1949, 1950 Source Sheets

South Gate
1949
7.5-minute, 24000
Aerial Photo Revised 1947

Inglewood
1950
7.5-minute, 24000
Aerial Photo Revised 1947

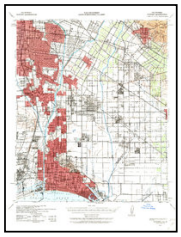
1947, 1948 Source Sheets



DOWNEY
1947
15-minute, 50000

REDONDO
1948
15-minute, 50000

1943 Source Sheets



Downey
1943
15-minute, 62500
Aerial Photo Revised 1939

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1942 Source Sheets

Downey
1942
15-minute, 62500

1937 Source Sheets

Watts
1937
7.5-minute, 24000

1924 Source Sheets

Watts
1924
7.5-minute, 24000

1923 Source Sheets

Watts
1923
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1902 Source Sheets

Downey
1902
15-minute, 62500

1899 Source Sheets

Downey
1899
15-minute, 62500

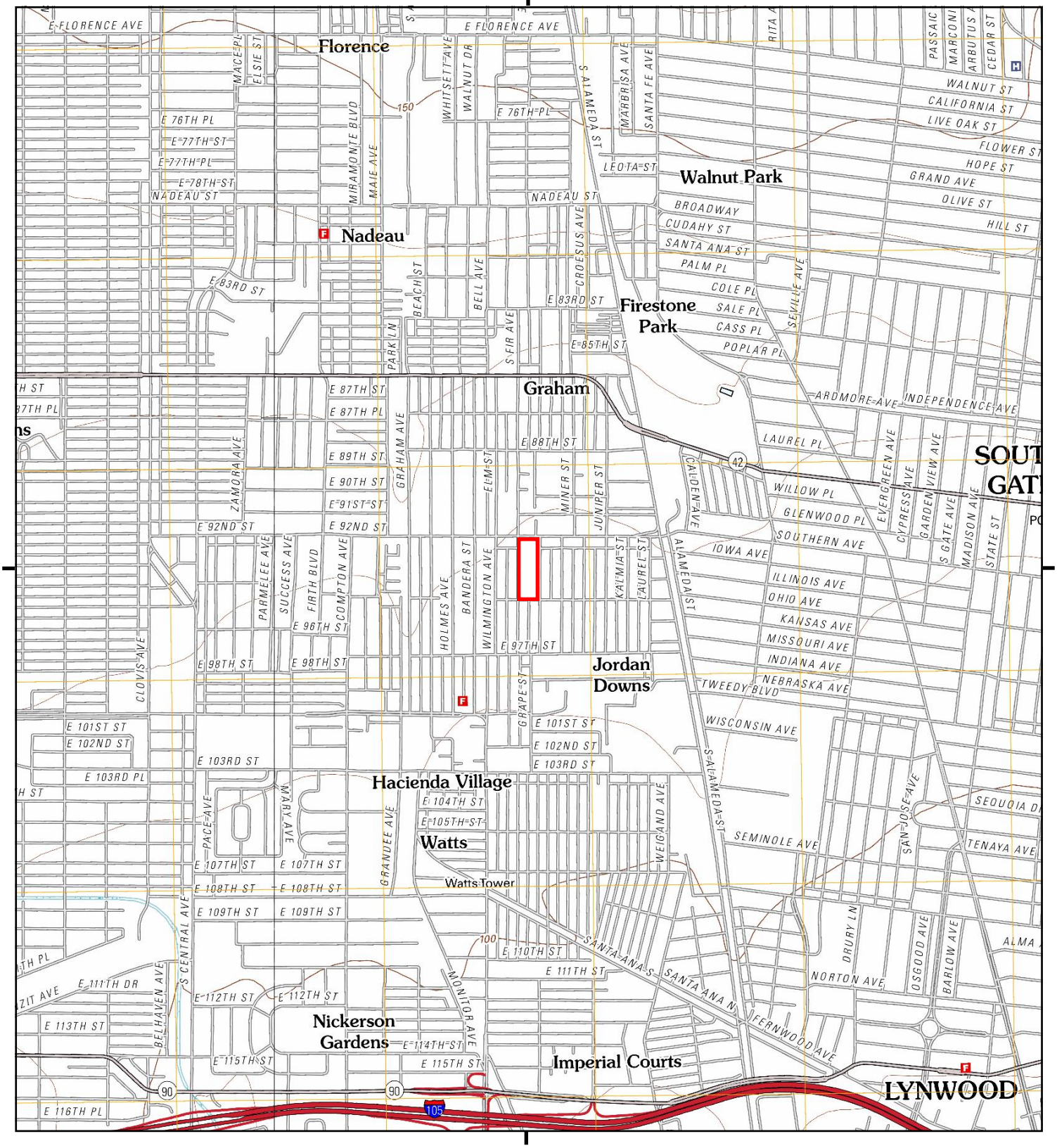
1896 Source Sheets

Downey
1896
15-minute, 62500

Redondo
1896
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

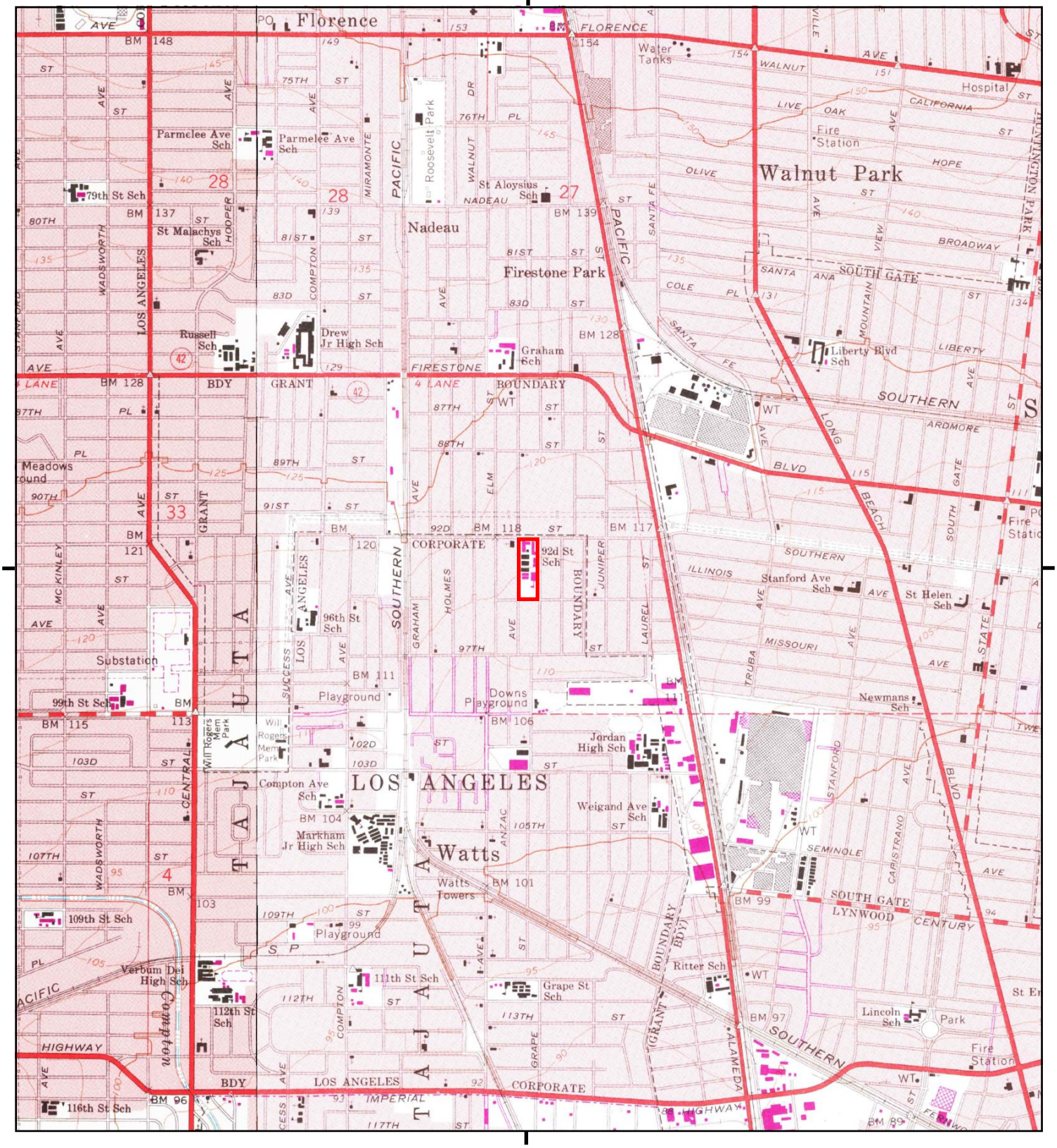
TP, South Gate, 2012, 7.5-minute
W, Inglewood, 2012, 7.5-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, 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

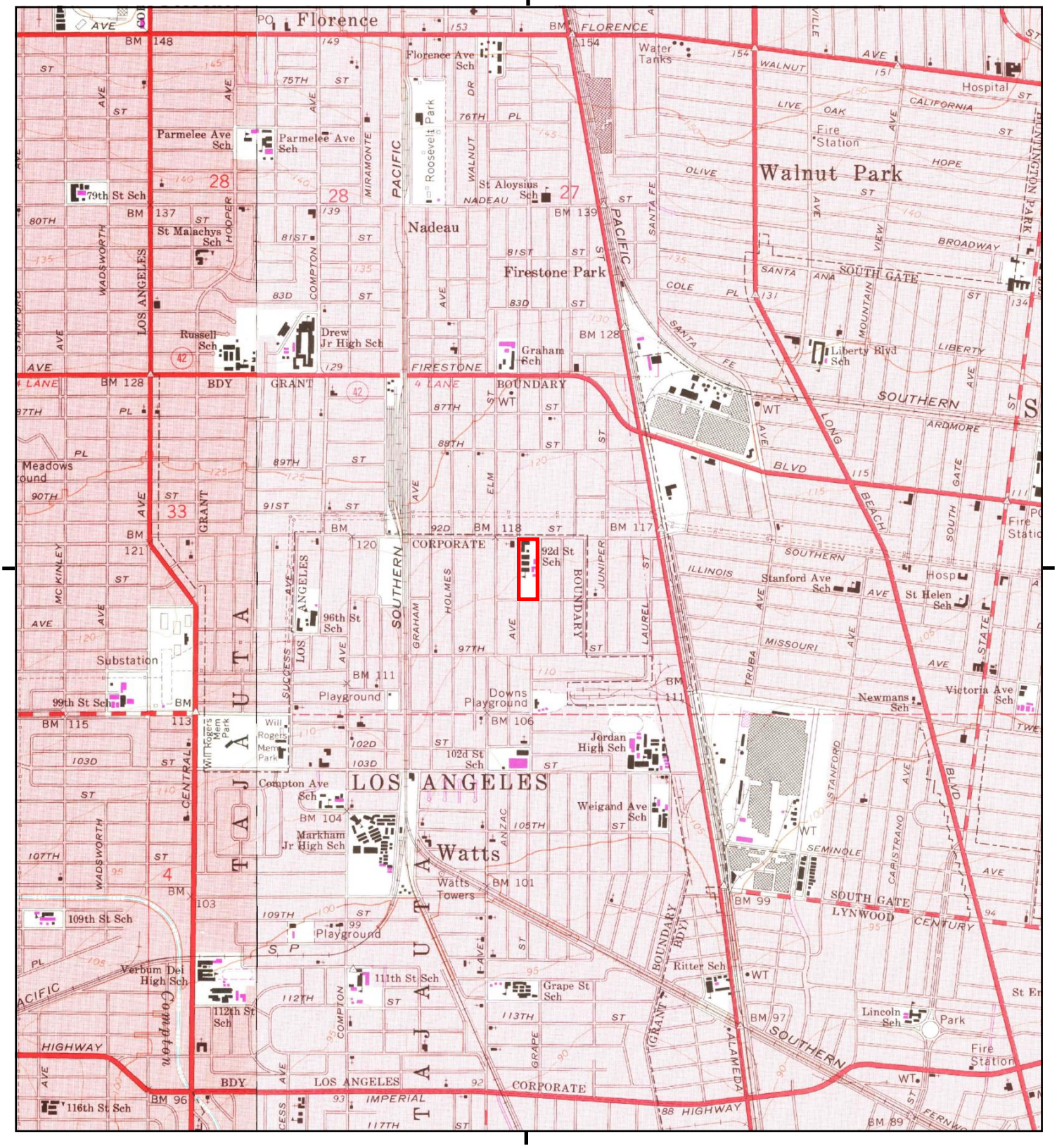
TP, South Gate, 1981, 7.5-minute
W, Inglewood, 1981, 7.5-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N

Historical Topo Map

1972



This report includes information from the following map sheet(s).

NW N NE
W E
SW S SE

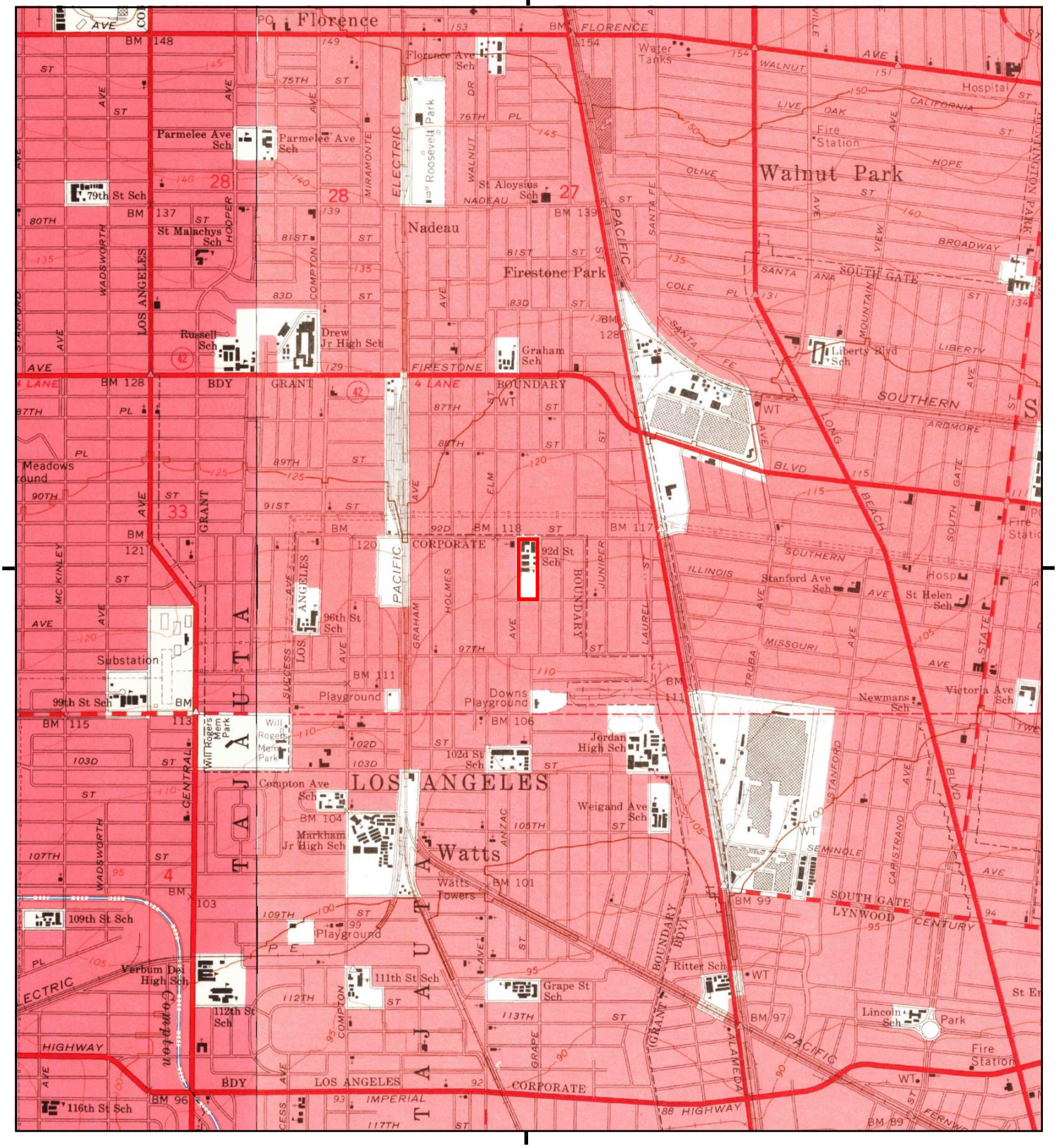
TP, South Gate, 1972, 7.5-minute
W, Inglewood, 1972, 7.5-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, 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

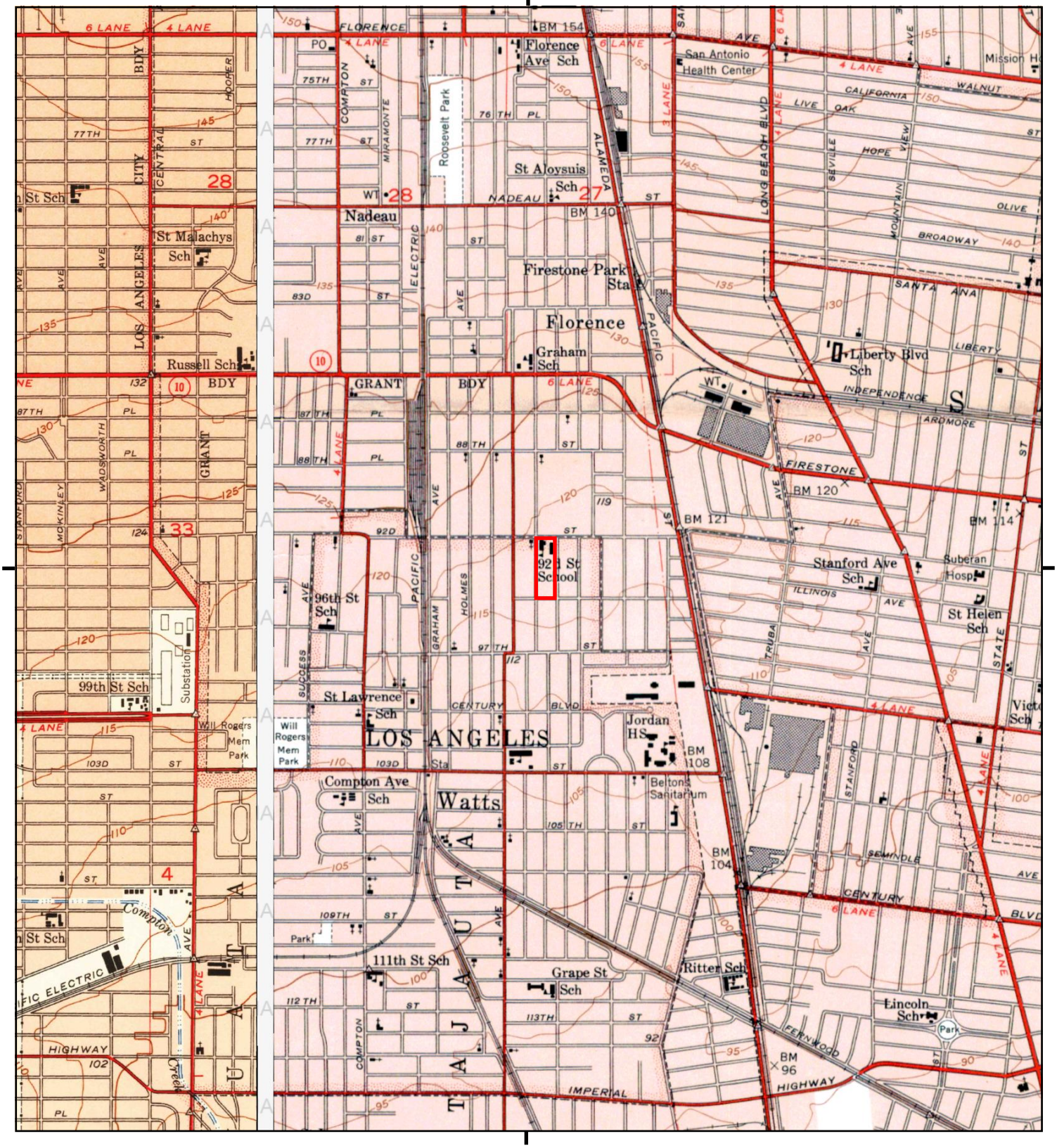
TP, South Gate, 1964, 7.5-minute
W, Inglewood, 1964, 7.5-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N

Historical Topo Map

1952



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

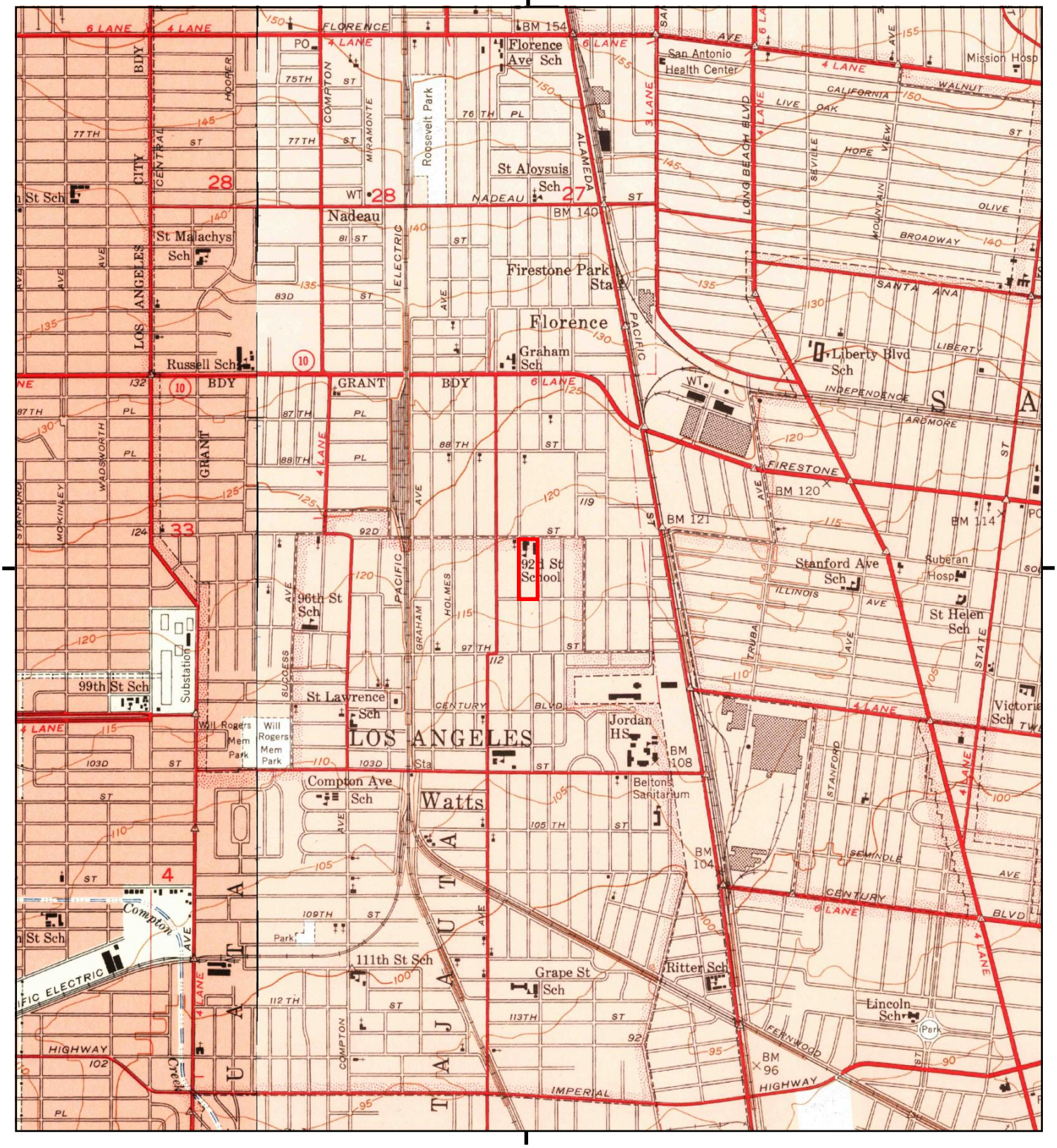
TP, SOUTH GATE, 1952, 7.5-minute
W, Inglewood, 1952, 7.5-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N

Historical Topo Map

1949, 1950



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

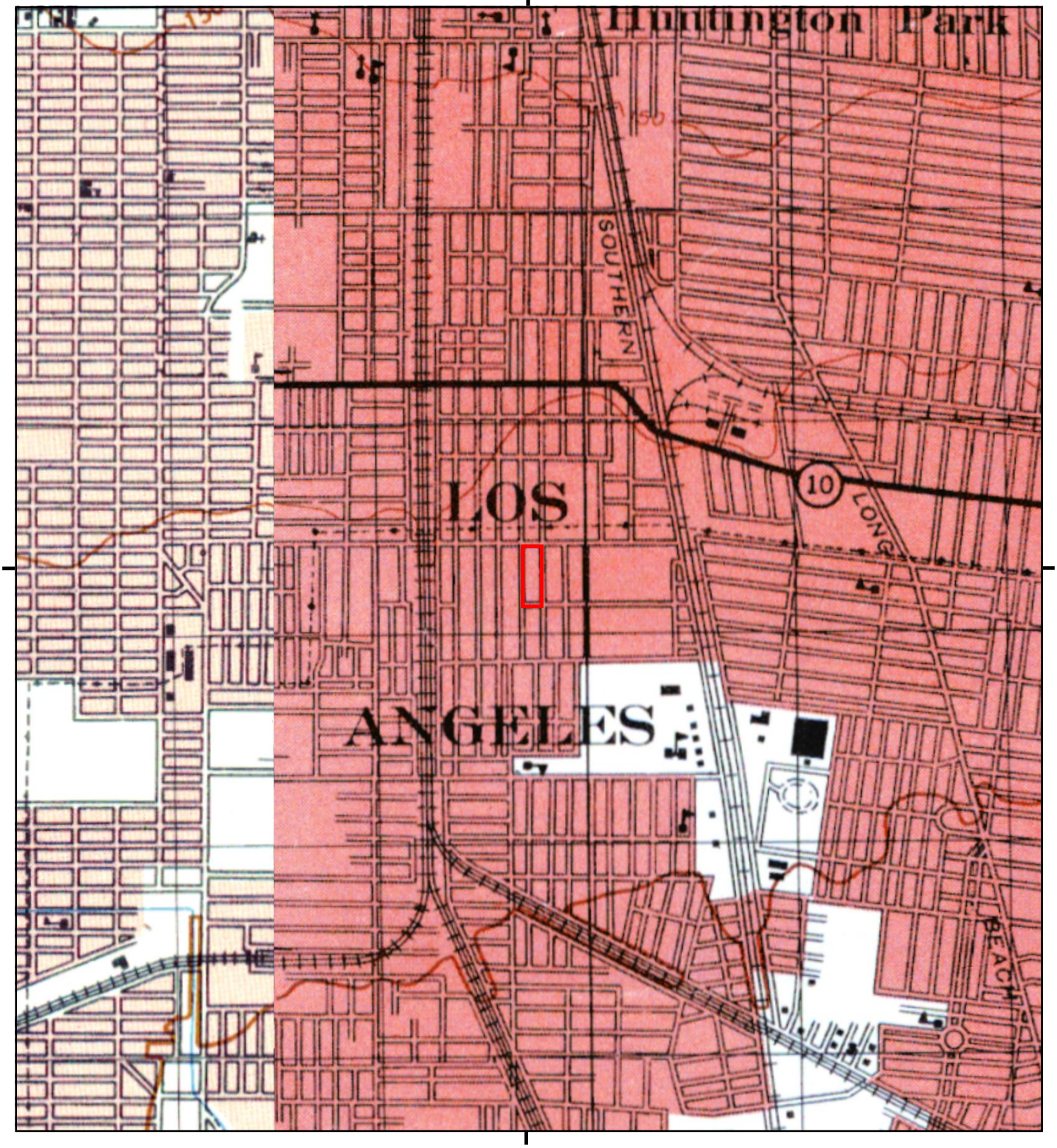
TP, South Gate, 1949, 7.5-minute
W, Inglewood, 1950, 7.5-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N

Historical Topo Map

1947, 1948



This report includes information from the following map sheet(s).

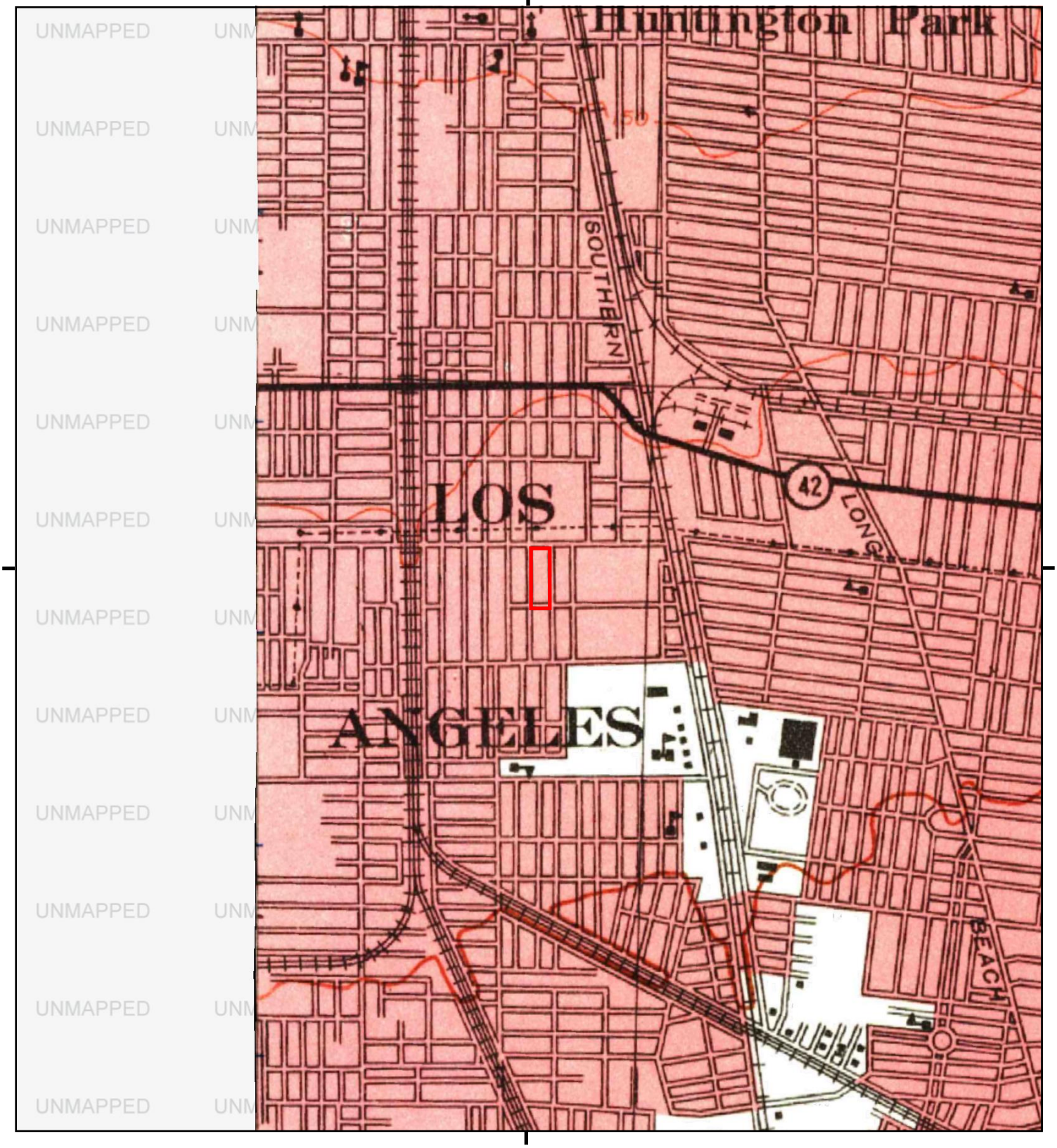
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, DOWNEY, 1947, 15-minute
SW, REDONDO, 1948, 15-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N



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

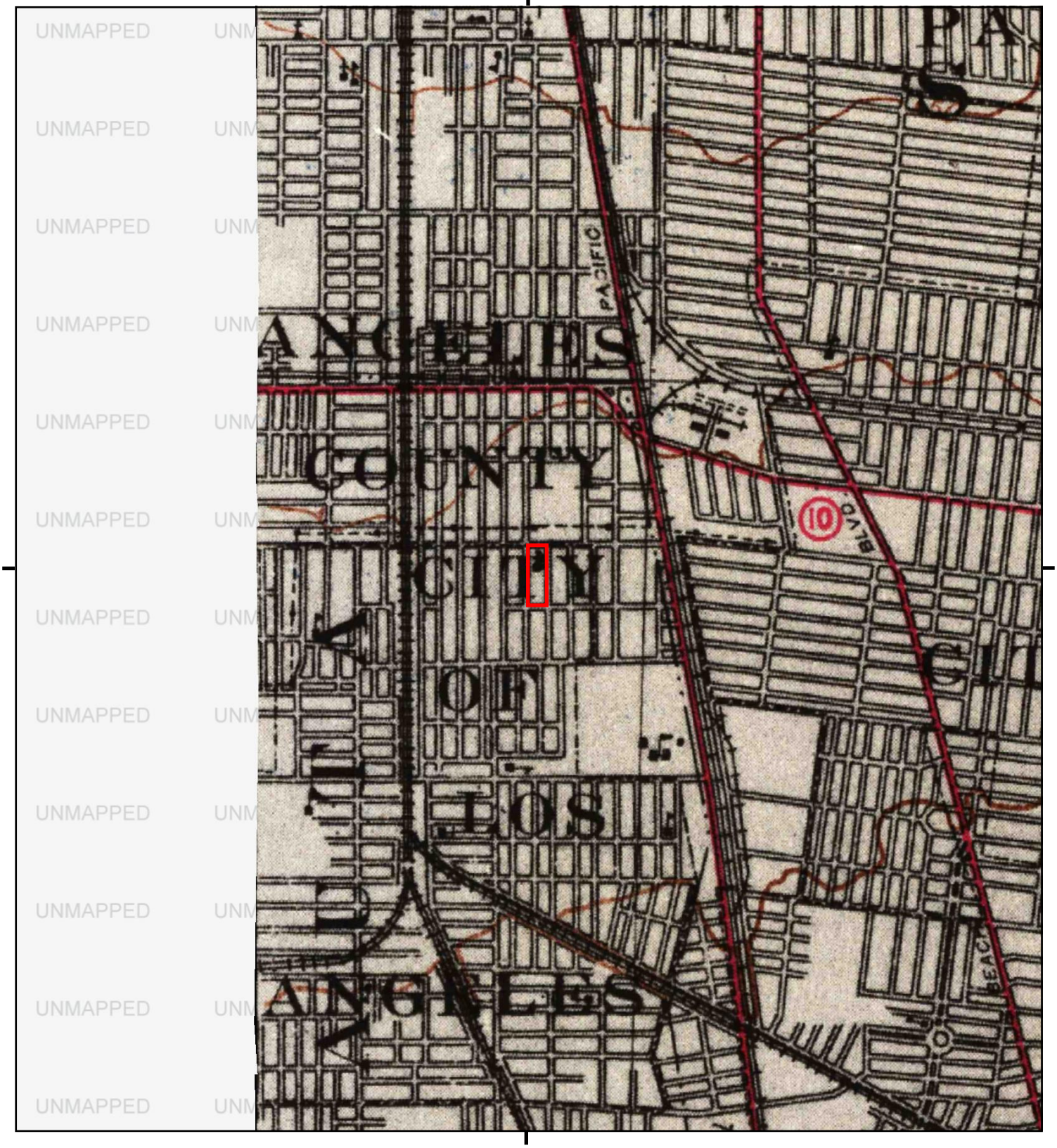
TP, Downey, 1943, 15-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N

Historical Topo Map

1942



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

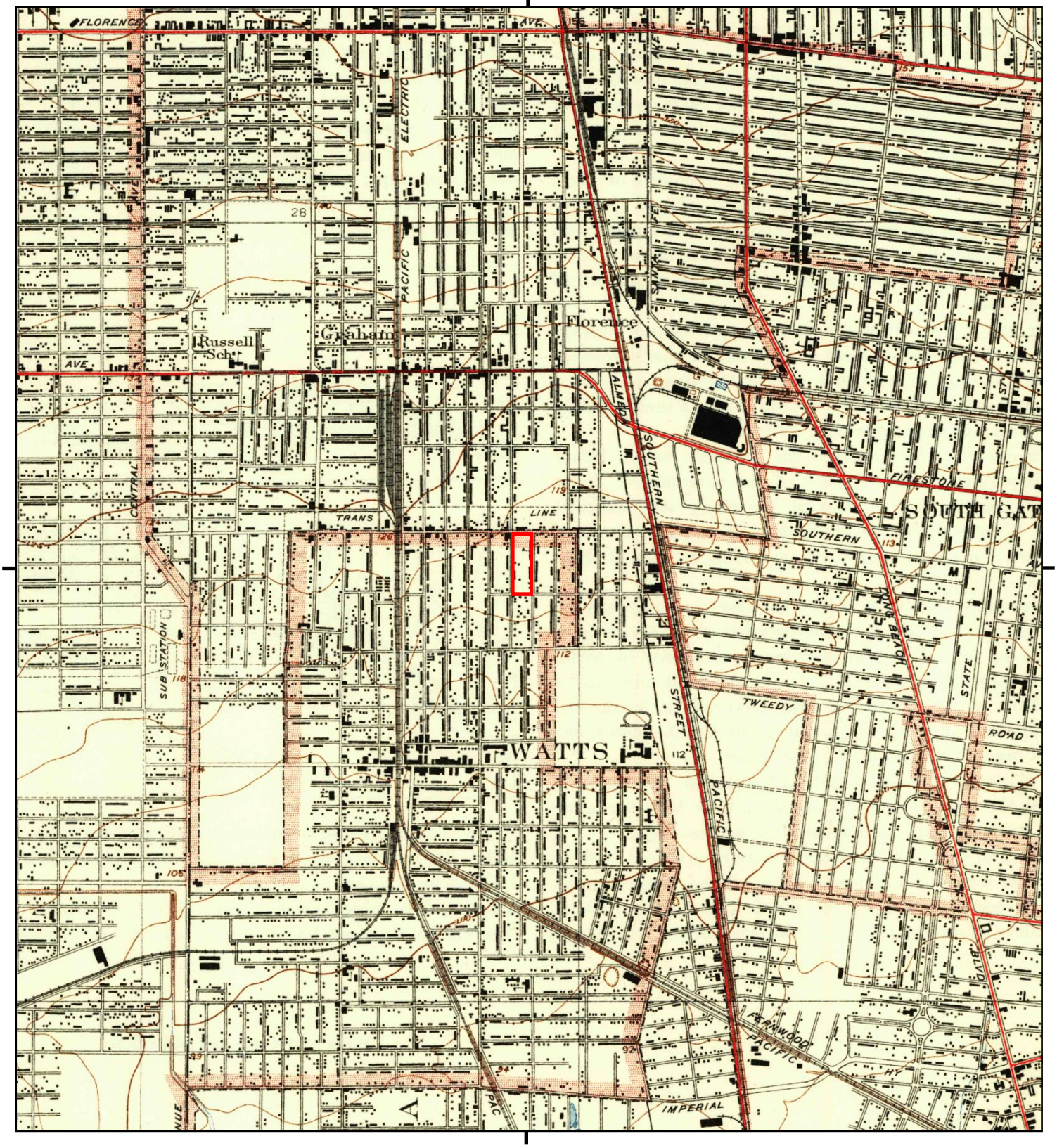
TP, Downey, 1942, 15-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N

Historical Topo Map

1937



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

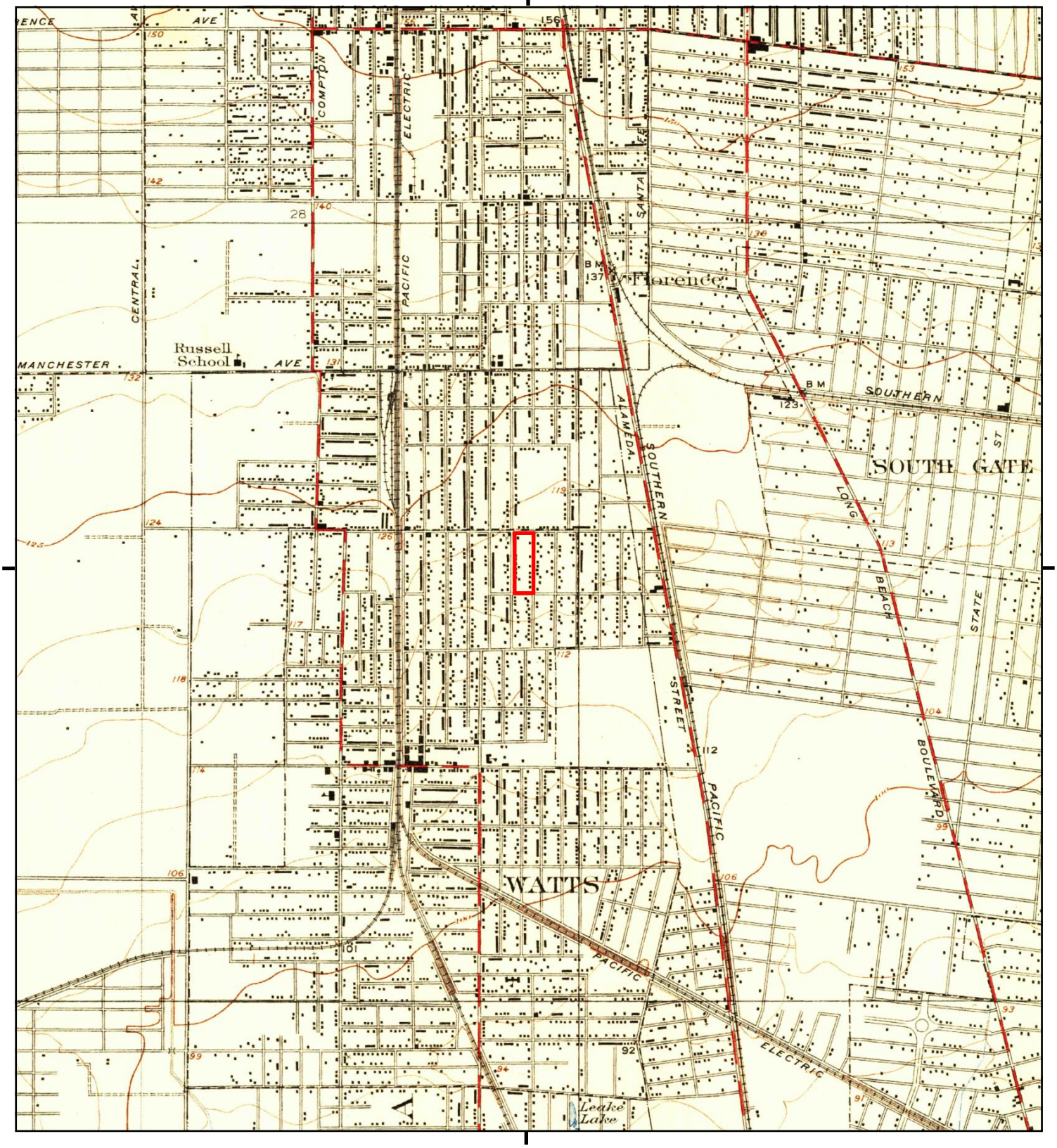
TP, Watts, 1937, 7.5-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N

Historical Topo Map

1924



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

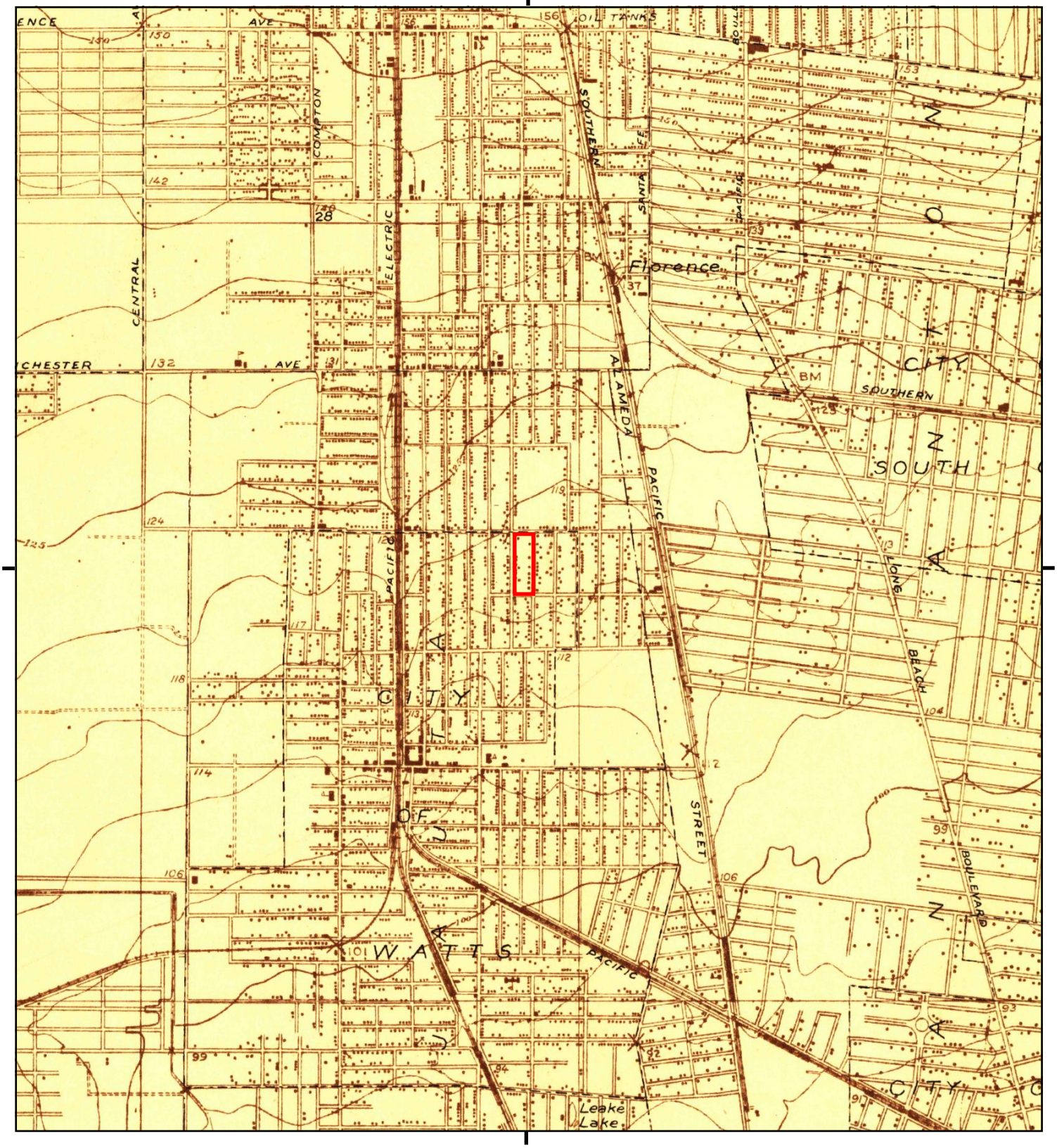
TP, Watts, 1924, 7.5-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N

Historical Topo Map

1923



This report includes information from the following map sheet(s).

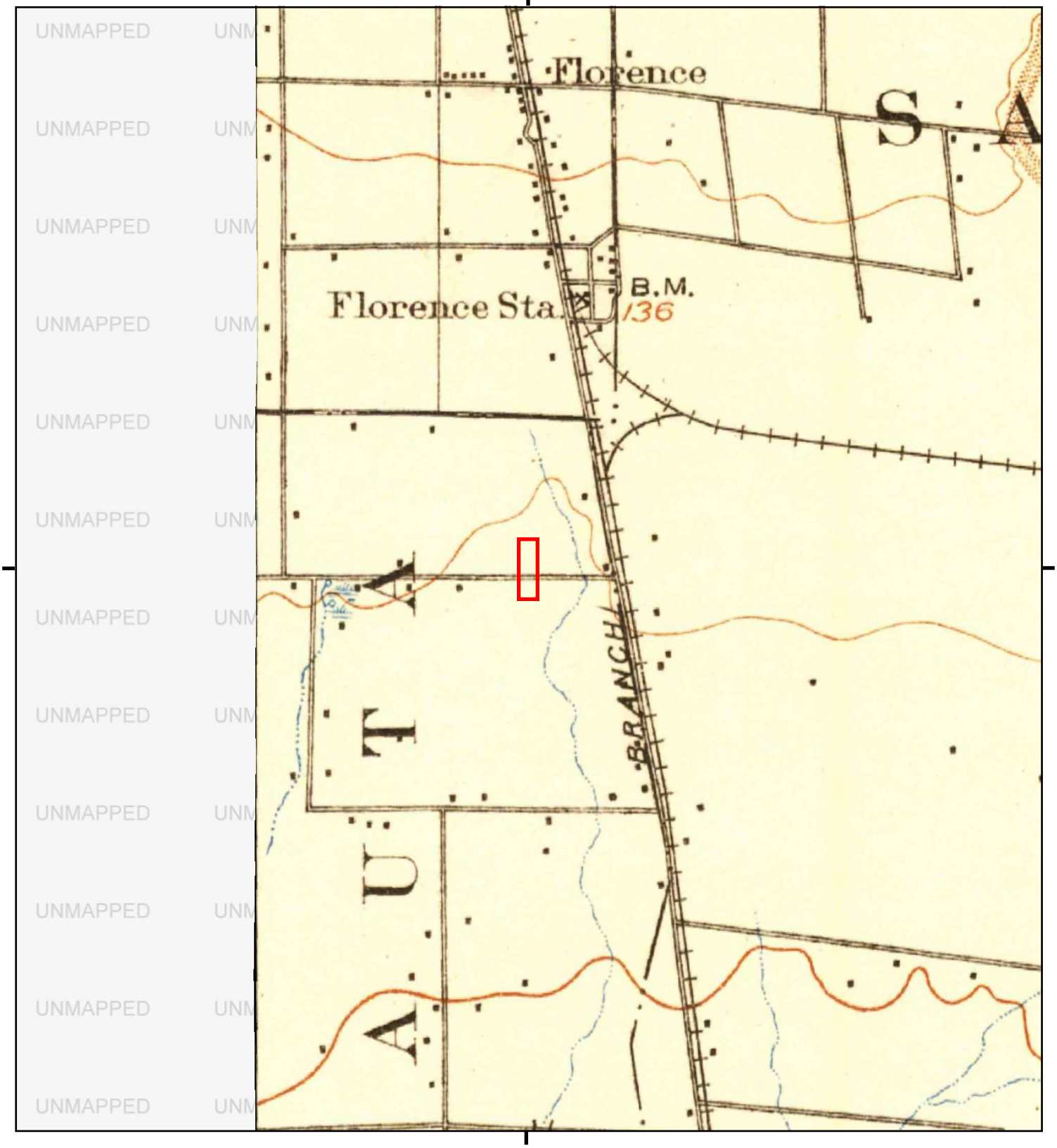
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Watts, 1923, 7.5-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N



This report includes information from the following map sheet(s).

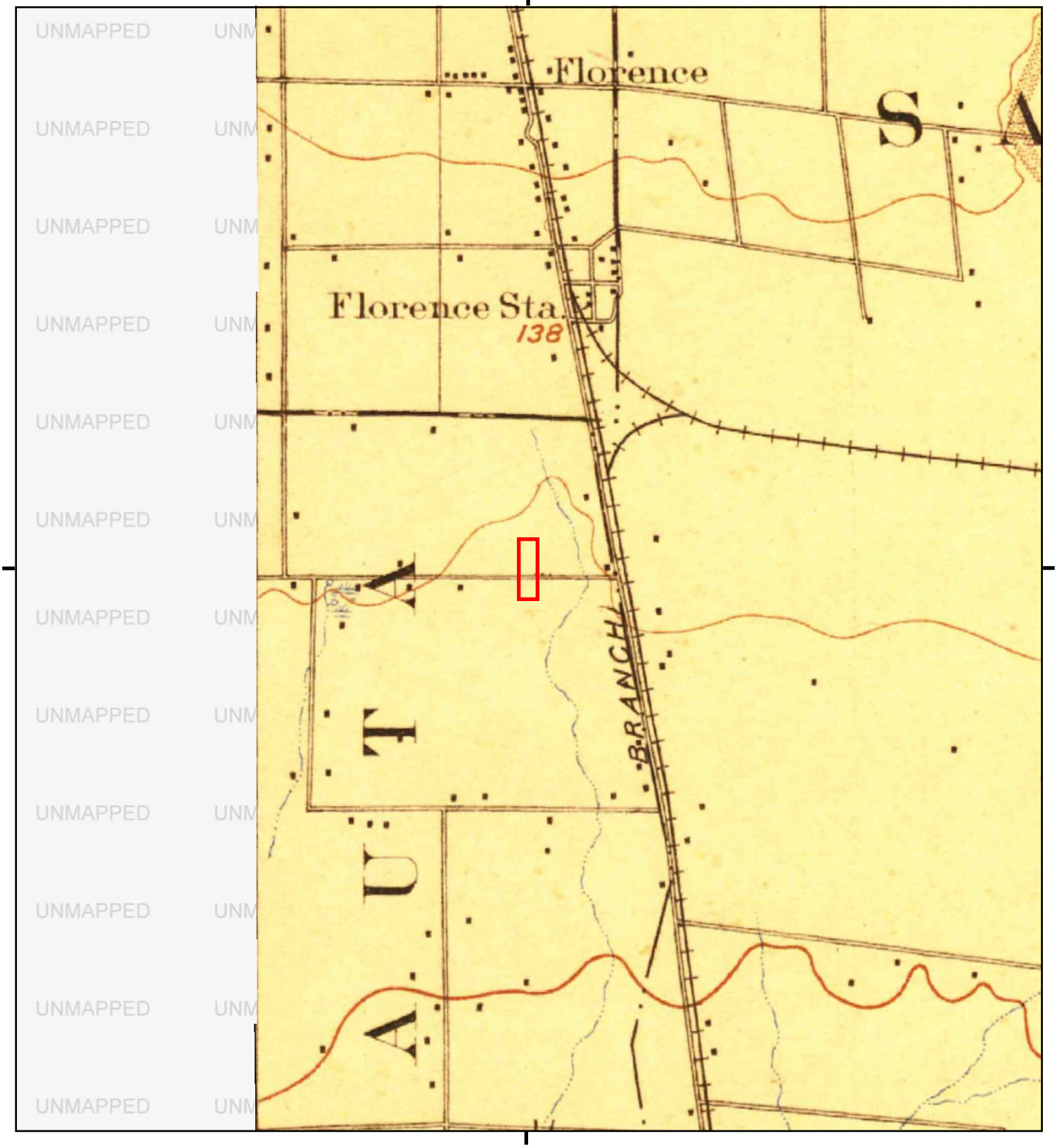
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1902, 15-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N



This report includes information from the following map sheet(s).

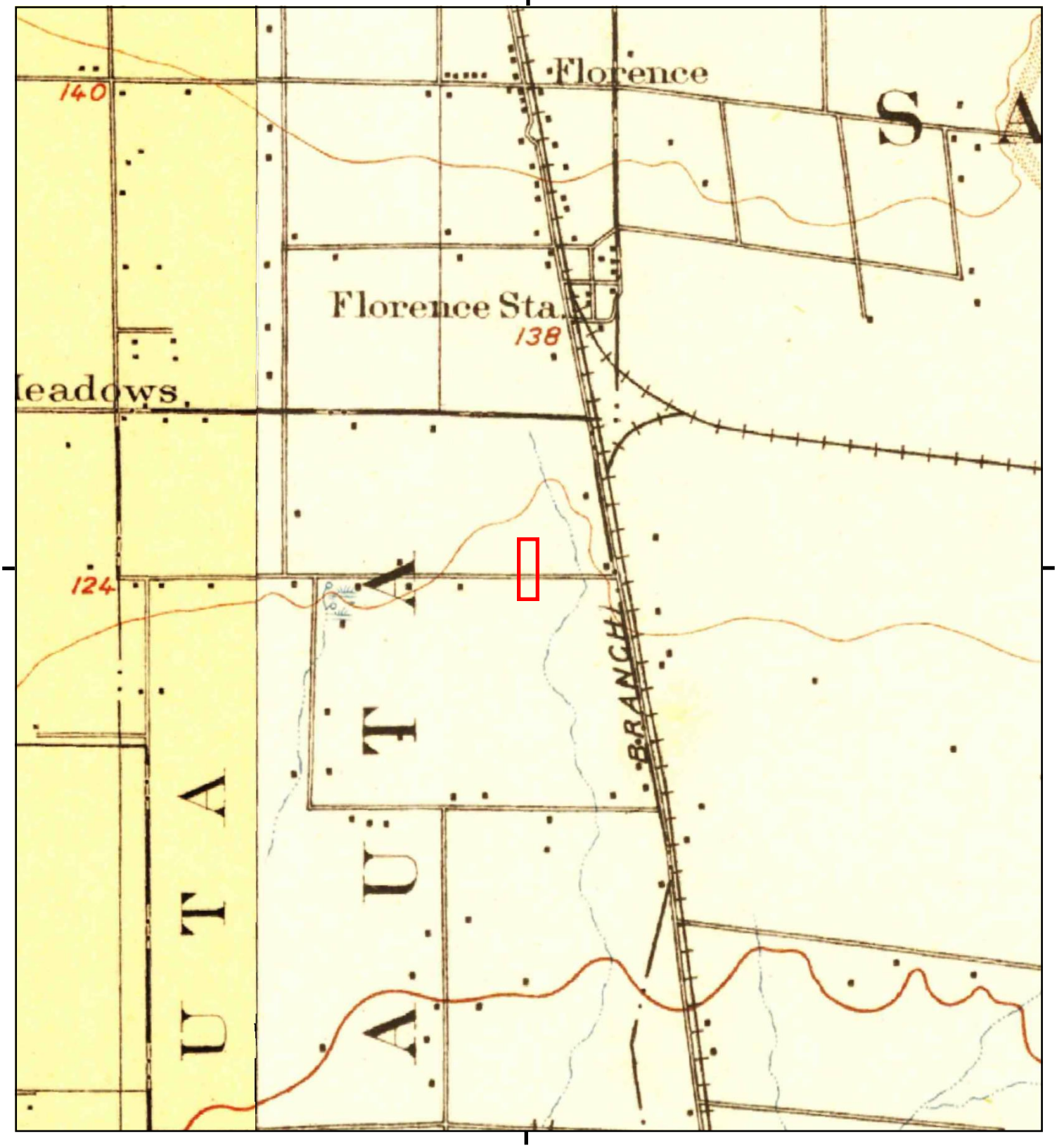
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1899, 15-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N



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, Downey, 1896, 15-minute
SW, Redondo, 1896, 15-minute

SITE NAME: 92nd Street Elementary School
ADDRESS: 9211 Grape St
Los Angeles, CA 90002
CLIENT: Accord Engineering, Inc

N

Appendix F

EDR City Directory Abstract

92nd Street Elementary School
9211 Grape St
Los Angeles, CA 90002

Inquiry Number: 4961336.5
June 09, 2017

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

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 332 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by infoUSA®

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
2014	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2010	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2006	Haines Company, Inc	X	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines & Company	-	X	X	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	-	-	-
1990	Pacific Bell	X	X	X	-
1986	Pacific Bell	X	X	X	-
1985	Pacific Bell	-	-	-	-
1981	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	-	-	-	-
1976	Pacific Telephone	-	X	X	-
1975	Pacific Telephone	-	-	-	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	X	X	X	-
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	-	-	-
1967	Pacific Telephone	X	X	X	-
1966	Pacific Telephone	-	-	-	-
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	X	X	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	X	X	X	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Pacific Telephone & Telegraph Co.	X	X	X	-
1950	Pacific Telephone	-	-	-	-
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.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
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.	-	X	X	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

9211 Grape St
Los Angeles, CA 90002

FINDINGS DETAIL

Target Property research detail.

GRAPE

9211 GRAPE

Year	*Uses*	*Source*
1990	NINETY SECOND STREET ELEMENTARY SCHOOL	Pacific Bell
1986	NINETY SECOND STREET ELEMENTARY SCHOOL	Pacific Bell
1981	NINETY SECOND STREET ELEMENTARY SCHOOL	Pacific Telephone
1971	Ninety Second Street Elementary School	Pacific Telephone
1967	Ninety Second St Elementary School	Pacific Telephone
1962	Ninety Second St Elementary School	Pacific Telephone

Grape St

9211 Grape St

Year	*Uses*	*Source*
2014	LOS ANGELES UNIFIED SCHOOL DST	EDR Digital Archive
2010	LOS ANGELES UNIFIED SCHL DIST	EDR Digital Archive

GRAPE ST

9211 GRAPE ST

Year	*Uses*	*Source*
2006	NINETY SECOND ST ELEMSC	Haines Company, Inc
1958	Ninety Second St Elementary School	Pacific Telephone
1951	Grape Los Angeles City Board of Education elementary schools Ninety Second St	Pacific Telephone & Telegraph Co.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

92ND ST E

1955 92ND ST E

Year	Uses	Source
1951	E 92nd Carrasco Miguel r	Pacific Telephone & Telegraph Co.

1963 92ND ST E

Year	Uses	Source
1951	E 92nd Torley Guy A r	Pacific Telephone & Telegraph Co.

1975 92ND ST E

Year	Uses	Source
1951	E 92nd Little Richard C r	Pacific Telephone & Telegraph Co.

2007 92ND ST E

Year	Uses	Source
1951	E 92nd Orange Evelyn	Pacific Telephone & Telegraph Co.
	E 92nd Allen Alfred r	Pacific Telephone & Telegraph Co.

2008 92ND ST E

Year	Uses	Source
1951	E 92nd Murphy John A Murphys Mkt	Pacific Telephone & Telegraph Co.
	E 92nd Murphys Mkt	Pacific Telephone & Telegraph Co.
	E 92nd Wolf Syble r	Pacific Telephone & Telegraph Co.

2010 92ND ST E

Year	Uses	Source
1951	E 92nd Hi Tone Clnrs	Pacific Telephone & Telegraph Co.

2013 92ND ST E

Year	Uses	Source
1951	E 92nd Foltz W R r	Pacific Telephone & Telegraph Co.

2017 92ND ST E

Year	Uses	Source
1951	E 92nd Henderson Marvin G r	Pacific Telephone & Telegraph Co.

FINDINGS

2021 92ND ST E

Year	Uses	Source
1951	E 92nd Beard Frank r	Pacific Telephone & Telegraph Co.

2022 92ND ST E

Year	Uses	Source
1951	E 92nd Johnson Henry L r	Pacific Telephone & Telegraph Co.

2023 92ND ST E

Year	Uses	Source
1951	E 92nd Harris Byron C r	Pacific Telephone & Telegraph Co.

2024 92ND ST E

Year	Uses	Source
1951	E 92nd Chacon Jos r	Pacific Telephone & Telegraph Co.

2031 92ND ST E

Year	Uses	Source
1951	E 92nd Brown Jos E r	Pacific Telephone & Telegraph Co.

2043 92ND ST E

Year	Uses	Source
1951	E 92nd Crunk E V r	Pacific Telephone & Telegraph Co.

2049 92ND ST E

Year	Uses	Source
1951	E 92nd Cipres Mike J r	Pacific Telephone & Telegraph Co.

ANZAC AVE

9210 ANZAC AVE

Year	Uses	Source
2000	XXXX	Haines & Company
1976	Ninety Second Street Elementary School	Pacific Telephone

9217 ANZAC AVE

Year	Uses	Source
1928	VACANT	Los Angeles Directory Co.

9225 ANZAC AVE

Year	Uses	Source
1928	VACANT	Los Angeles Directory Co.

FINDINGS

9226 ANZAC AVE

Year	Uses	Source
1928	VACANT	Los Angeles Directory Co.

Anzac Ave

9317 Anzac Ave

Year	Uses	Source
2014	BELGICA I MORATAYA	EDR Digital Archive

E 92ND

1959 E 92ND

Year	Uses	Source
1990	PURRY SYLVESTER & MABLE	Pacific Bell
1986	PURRY SYLVESTER & MABLE	Pacific Bell
1971	Henderson Willie J Jr	Pacific Telephone
1962	Henderson Willie J Jr	Pacific Telephone
1929	STANTON Alice A lndywkr r	Los Angeles Directory Co.

1963 E 92ND

Year	Uses	Source
1990	PATTON PATRICE	Pacific Bell
1971	Torley Guy A	Pacific Telephone

1977 E 92ND

Year	Uses	Source
1990	HERRERA GUDELIA	Pacific Bell
1962	Cross Karey D	Pacific Telephone

1979 E 92ND

Year	Uses	Source
1986	CORAL MARTIN	Pacific Bell
	SEINZ ALFREDO	Pacific Bell
1971	Brown C J	Pacific Telephone
1962	Thomas Bonnie	Pacific Telephone

2002 E 92ND

Year	Uses	Source
1990	MURPHY JOHN A	Pacific Bell
1986	MURPHY JOHN A	Pacific Bell

FINDINGS

Year	Uses	Source
1981	MURPHY JOHN A	Pacific Telephone
1962	Murphy Eva	Pacific Telephone

2010 E 92ND

Year	Uses	Source
1986	GREATER LIGHTHOUSE CHURCH OF GOD IN CHRIST	Pacific Bell
1981	ST JUDE SPIRITUAL TEMPLE	Pacific Telephone

2012 E 92ND

Year	Uses	Source
1990	GREATER LIGHTHOUSE CHURCH OF GOD IN CHRIST	Pacific Bell
1929	CHASE M Mrs jan	Los Angeles Directory Co.

2018 E 92ND

Year	Uses	Source
1990	MADRID LESLY S	Pacific Bell
	DIAZ EDGAR A	Pacific Bell
	MASCORRO ESTEBAN	Pacific Bell
1937	Roessler Mary G Mrs casewkr County Charities	Los Angeles Directory Co.
1933	Roessler Ellwood C gdnr Park Dept	Los Angeles Directory Co.

2021 E 92ND

Year	Uses	Source
1986	BILLINGER HERBERT	Pacific Bell
1933	Buker Chas batter Myer Winik	Los Angeles Directory Co.

E 92ND ST

1955 E 92ND ST

Year	Uses	Source
2006	e PURRYMable	Haines Company, Inc
1967	Carrasco Lupe	Pacific Telephone

1959 E 92ND ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc
1995	Purry Sylvester & Mable	Pacific Bell
1967	Henderson Willie J Jr	Pacific Telephone
1958	Alviso Francisco	Pacific Telephone

FINDINGS

1963 E 92ND ST

Year	Uses	Source
2006	AVILEZ Lilia	Haines Company, Inc
	MORAN Edgar	Haines Company, Inc
1967	Torley Guy A	Pacific Telephone
1958	Torley Guy A	Pacific Telephone

1967 E 92ND ST

Year	Uses	Source
2006	e TATE Chester	Haines Company, Inc

1969 E 92ND ST

Year	Uses	Source
2006	e RISH Dorothy	Haines Company, Inc

1975 E 92ND ST

Year	Uses	Source
2006	RAMOSJorge a	Haines Company, Inc
1967	Williams Emma D	Pacific Telephone
	Williams Cornelrus	Pacific Telephone
1958	Little Lillie Mae Mrs	Pacific Telephone

1977 E 92ND ST

Year	Uses	Source
2006	HERRERA Entique	Haines Company, Inc
1995	Herrera Gudelia	Pacific Bell
	Vallin Saul	Pacific Bell
1967	Cross Oscar	Pacific Telephone

1979 E 92ND ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc
1967	Cross Louise	Pacific Telephone

2001 E 92ND ST

Year	Uses	Source
2006	CARDOZA Emlilo	Haines Company, Inc

2002 E 92ND ST

Year	Uses	Source
2006	MURPHY Rosetta	Haines Company, Inc
1995	Murphy John A	Pacific Bell

FINDINGS

Year	Uses	Source
1958	Murphy Eva	Pacific Telephone

2003 E 92ND ST

Year	Uses	Source
2006	LOPEZOscar	Haines Company, Inc

2007 E 92ND ST

Year	Uses	Source
2006	RIVAS Isidr	Haines Company, Inc
1967	Jackson C J	Pacific Telephone
1958	White Leon W Rev	Pacific Telephone
	Jackson C J	Pacific Telephone

2008 E 92ND ST

Year	Uses	Source
2006	CABRERA Ignado	Haines Company, Inc

2009 E 92ND ST

Year	Uses	Source
1958	Arbertha Willie Lee	Pacific Telephone

2011 E 92ND ST

Year	Uses	Source
1967	Haley Roy E	Pacific Telephone
1958	Haley Elizabeth	Pacific Telephone

2012 E 92ND ST

Year	Uses	Source
2006	BAPTCH	Haines Company, Inc
	SWEET PLGRM	Haines Company, Inc
1995	Sweet Pilgrim Baptist Church	Pacific Bell
1958	Church of God & Christ	Pacific Telephone

2013 E 92ND ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc

2018 E 92ND ST

Year	Uses	Source
2006	a PEREZFredy	Haines Company, Inc
1995	Diaz Jose Dolores	Pacific Bell

FINDINGS

Year	Uses	Source
1995	Diaz Edgar A	Pacific Bell
	Lemus Sonia	Pacific Bell

2020 E 92ND ST

Year	Uses	Source
2006	ZAMORA Homero	Haines Company, Inc

2021 E 92ND ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc
1958	Beard Frank	Pacific Telephone

2022 E 92ND ST

Year	Uses	Source
2006	LINARES Edgar	Haines Company, Inc
	Mauriclo	Haines Company, Inc
	LINARES M	Haines Company, Inc
	SAGASTUME Freddy	Haines Company, Inc
1967	Lemays Mayetta	Pacific Telephone
1958	Nelson Erath	Pacific Telephone

2023 E 92ND ST

Year	Uses	Source
1967	Ballard Laurene	Pacific Telephone
1958	Whitsett Lillie	Pacific Telephone

2024 E 92ND ST

Year	Uses	Source
2006	ALARCON Albino a I	Haines Company, Inc
	MENDOZA Isal	Haines Company, Inc
1967	Chacon Lupe Mrs	Pacific Telephone

GRAPE

9115 GRAPE

Year	Uses	Source
1990	CROSS KAREY D	Pacific Bell
1986	CROSS KAREY D	Pacific Bell
1981	CROSS KAREY D	Pacific Telephone
1971	Cross Karey D	Pacific Telephone
1967	Cross Karey D	Pacific Telephone

Year	Uses	Source
1962	Cardoso Geo H	Pacific Telephone
1942	THOMAS Gerald L emp CT & T Co	Los Angeles Directory Co.
1933	WELLS Harry Alvira vulce	Los Angeles Directory Co.

GRAPE ST

9111 GRAPE ST

Year	Uses	Source
2006	OCHOALuls a	Haines Company, Inc
1976	Mc Nair Geo T Jr	Pacific Telephone
1958	Mc Nair Geo T Jr	Pacific Telephone
1951	Grape McNair Geo T Jr r	Pacific Telephone & Telegraph Co.

9115 GRAPE ST

Year	Uses	Source
2006	CROSS Karey D	Haines Company, Inc
1976	Cross Karey D	Pacific Telephone
1951	Grape Thomas G L	Pacific Telephone & Telegraph Co.

9208 GRAPE ST

Year	Uses	Source
1951	Grape Donahue Mable r	Pacific Telephone & Telegraph Co.

9216 GRAPE ST

Year	Uses	Source
2006	ALVAREZJuan	Haines Company, Inc
	FLORES Marie 323 564 1037a	Haines Company, Inc
1958	Hazelton Mary Etta	Pacific Telephone
1951	Grape Lemon Carmen R r	Pacific Telephone & Telegraph Co.

9222 GRAPE ST

Year	Uses	Source
2006	e MUNGUIARene	Haines Company, Inc
1958	Beaucham Inez W	Pacific Telephone
1951	Grape Rowin Don r	Pacific Telephone & Telegraph Co.

9224 GRAPE ST

Year	Uses	Source
2006	LAIDLER Ralph	Haines Company, Inc
1951	Grape Waters Clara E r	Pacific Telephone & Telegraph Co.

FINDINGS

9226 GRAPE ST

Year	Uses	Source
2006	SHIVERS Emma	Haines Company, Inc
	LEWIS Ruthle L	Haines Company, Inc
1951	Grape Smith Chas W r	Pacific Telephone & Telegraph Co.

9312 GRAPE ST

Year	Uses	Source
2006	CABRAL Bemardlno	Haines Company, Inc

Grape St

9412 Grape St

Year	Uses	Source
2010	A M E ICE CREAM	EDR Digital Archive

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
9211 Grape St	2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 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

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
1955 92ND ST E	2014, 2010, 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, 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
1955 E 92ND ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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
1959 E 92ND	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 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
1959 E 92ND ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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
1963 92ND ST E	2014, 2010, 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, 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
1963 E 92ND	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 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
1963 E 92ND ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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

FINDINGS

Address Researched	Address Not Identified in Research Source
1967 E 92ND ST	2014, 2010, 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
1969 E 92ND ST	2014, 2010, 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
1975 92ND ST E	2014, 2010, 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, 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
1975 E 92ND ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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
1977 E 92ND	2014, 2010, 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, 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
1977 E 92ND ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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
1979 E 92ND	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 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
1979 E 92ND ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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
2001 E 92ND ST	2014, 2010, 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
2002 E 92ND	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 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
2002 E 92ND ST	2014, 2010, 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, 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
2003 E 92ND ST	2014, 2010, 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
2007 92ND ST E	2014, 2010, 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, 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
2007 E 92ND ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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
2008 92ND ST E	2014, 2010, 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, 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
2008 E 92ND ST	2014, 2010, 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
2009 E 92ND ST	2014, 2010, 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
2010 92ND ST E	2014, 2010, 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, 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
2010 E 92ND	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 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
2011 E 92ND ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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
2012 E 92ND	2014, 2010, 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, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
2012 E 92ND ST	2014, 2010, 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, 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
2013 92ND ST E	2014, 2010, 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, 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
2013 E 92ND ST	2014, 2010, 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
2017 92ND ST E	2014, 2010, 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, 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
2018 E 92ND	2014, 2010, 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, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
2018 E 92ND ST	2014, 2010, 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
2020 E 92ND ST	2014, 2010, 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
2021 92ND ST E	2014, 2010, 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, 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
2021 E 92ND	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 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, 1924, 1923, 1921, 1920
2021 E 92ND ST	2014, 2010, 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
2022 92ND ST E	2014, 2010, 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, 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
2022 E 92ND ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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

FINDINGS

Address Researched	Address Not Identified in Research Source
2023 92ND ST E	2014, 2010, 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, 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
2023 E 92ND ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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
2024 92ND ST E	2014, 2010, 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, 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
2024 E 92ND ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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
2031 92ND ST E	2014, 2010, 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, 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
2043 92ND ST E	2014, 2010, 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, 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
2049 92ND ST E	2014, 2010, 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, 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
9111 GRAPE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 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
9115 GRAPE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9115 GRAPE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 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
9208 GRAPE ST	2014, 2010, 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, 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
9210 ANZAC AVE	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 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
9216 GRAPE ST	2014, 2010, 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, 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
9217 ANZAC AVE	2014, 2010, 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, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9222 GRAPE ST	2014, 2010, 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, 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
9224 GRAPE ST	2014, 2010, 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, 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
9225 ANZAC AVE	2014, 2010, 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, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9226 ANZAC AVE	2014, 2010, 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, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9226 GRAPE ST	2014, 2010, 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, 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
9312 GRAPE ST	2014, 2010, 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
9317 Anzac Ave	2010, 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
9412 Grape St	2014, 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

Appendix G

Certified Sanborn® Map Report

92nd Street Elementary School
9211 Grape St
Los Angeles, CA 90002

Inquiry Number: 4961336.3
June 08, 2017

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/08/17

Site Name:	Client Name:
92nd Street Elementary Schoo	Accord Engineering, Inc
9211 Grape St	2923 Pullman Street
Los Angeles, CA 90002	Santa Ana, CA 92705
EDR Inquiry # 4961336.3	Contact: Rice Xiao

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Certified Sanborn Results:

Certification # BF58-4109-BF38

PO # 170602

Project 92nd Street Elementary School

Maps Provided:

1970
1950
1928
1922

Sanborn® Library search results

Certification #: BF58-4109-BF38

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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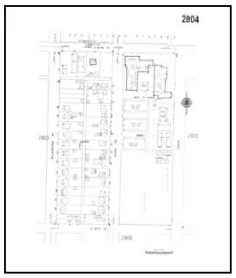
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

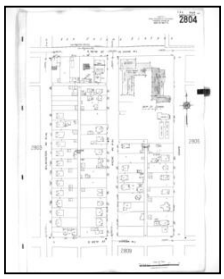
1970 Source Sheets



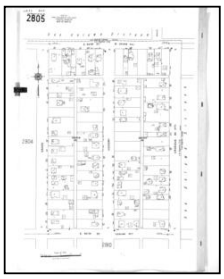
Volume 28, Sheet 2804
1970

Volume 28, Sheet 2805
1970

1950 Source Sheets



Volume 28, Sheet 2804
1950



Volume 28, Sheet 2805
1950

1928 Source Sheets

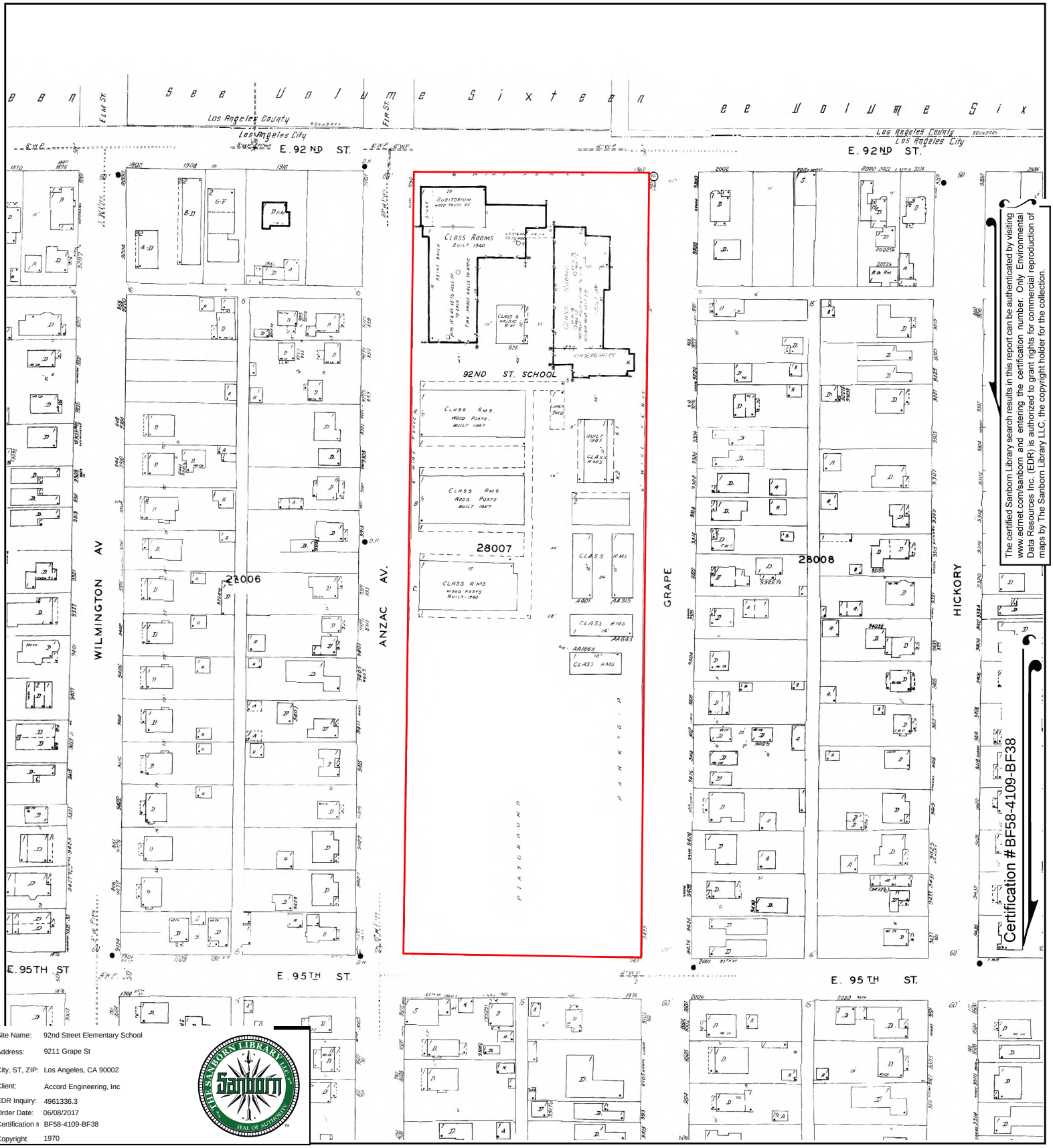
Volume 28, Sheet 2804
1928

Volume 28, Sheet 2805
1928

1922 Source Sheets

Volume 1, Sheet 3
1922

Volume 1, Sheet 10
1922



Site Name: 92nd Street Elementary School
Address: 9211 Grape St
City, ST, ZIP: Los Angeles, CA 90002
Client: Accord Engineering, Inc
EDR Inquiry: 4961336.3
Order Date: 06/08/2017
Certification #: BF58-4109-BF38
Copyright 1970

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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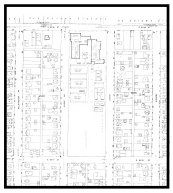

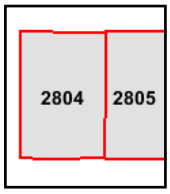

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Volume 28, Sheet 2804

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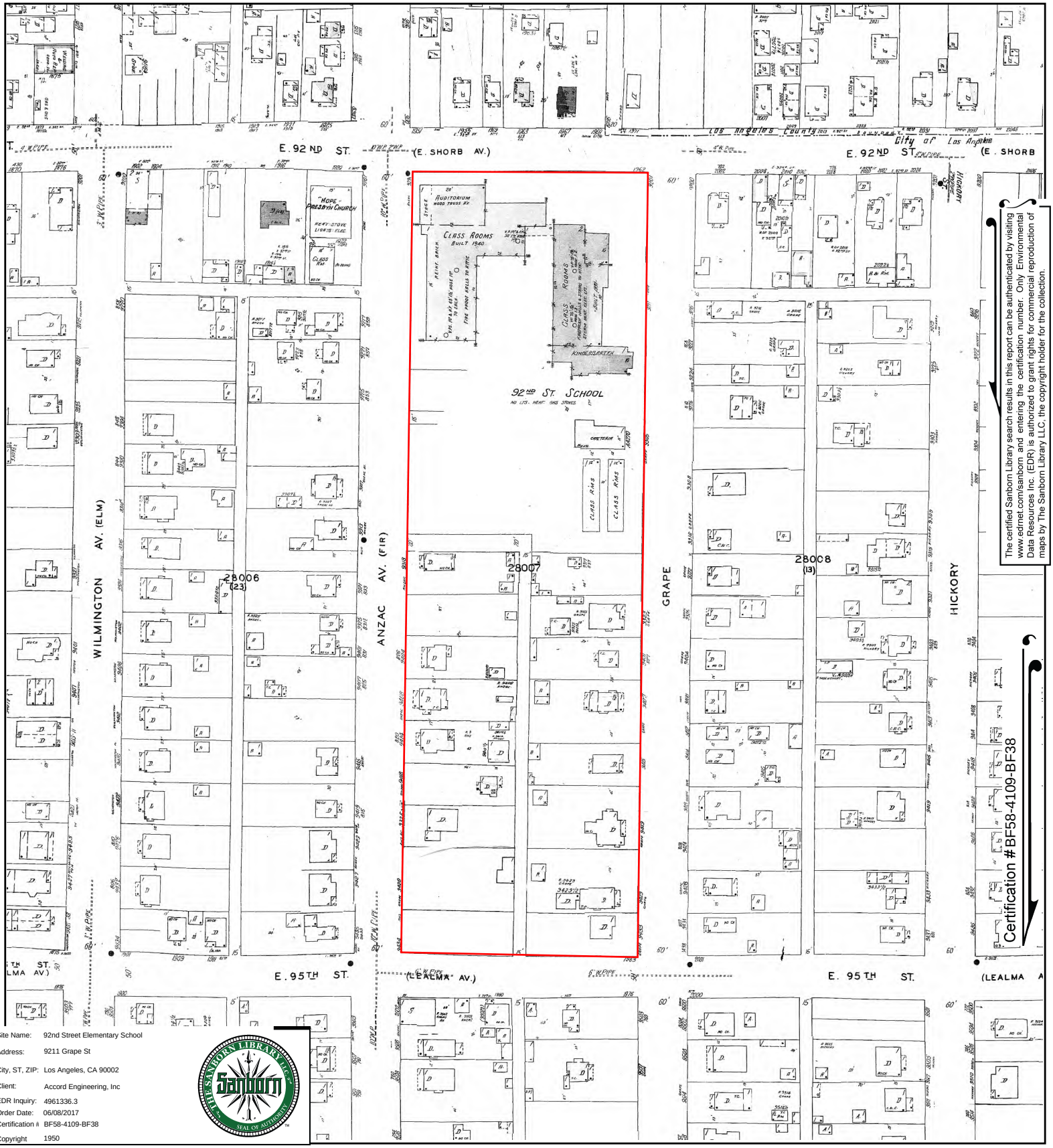

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Certification #BF58-4109-BF38

Site Name:	92nd Street Elementary School
Address:	9211 Grape St
City, ST, ZIP:	Los Angeles, CA 90002
Client:	Accord Engineering, Inc
EDR Inquiry:	4961336.3
Order Date:	06/08/2017
Certification #:	BF58-4109-BF38
Copyright	1950

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Outlined areas indicate map sheets within the collection.

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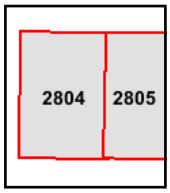

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Volume 28, Sheet 2804

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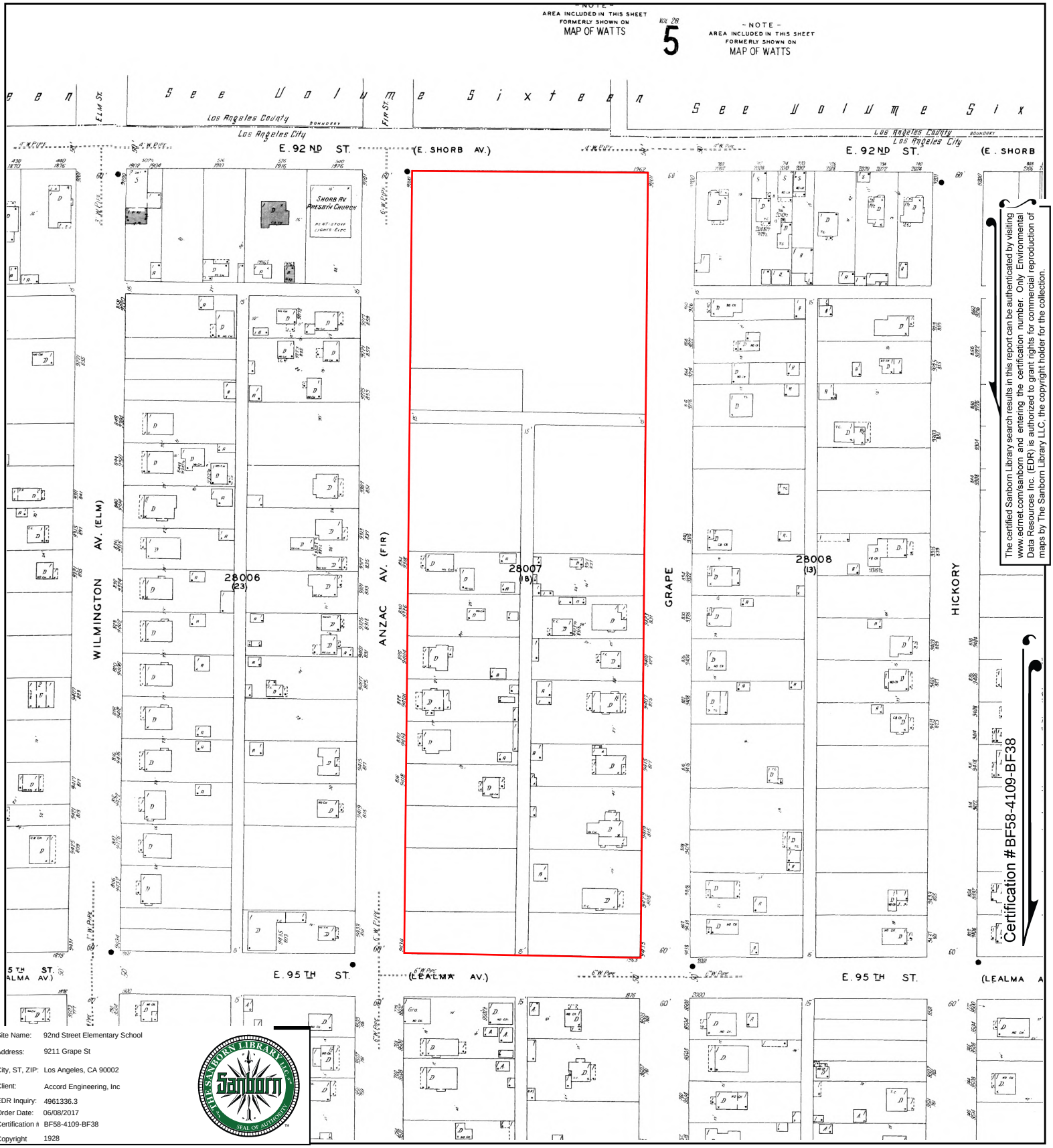

Site Name:	92nd Street Elementary School
Address:	9211 Grape St
City, ST, ZIP:	Los Angeles, CA 90002
Client:	Accord Engineering, Inc
EDR Inquiry:	4961336.3
Order Date:	06/08/2017
Certification #:	BF58-4109-BF38
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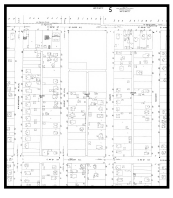

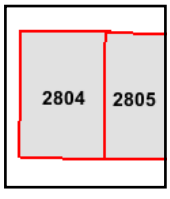

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Volume 28, Sheet 2804

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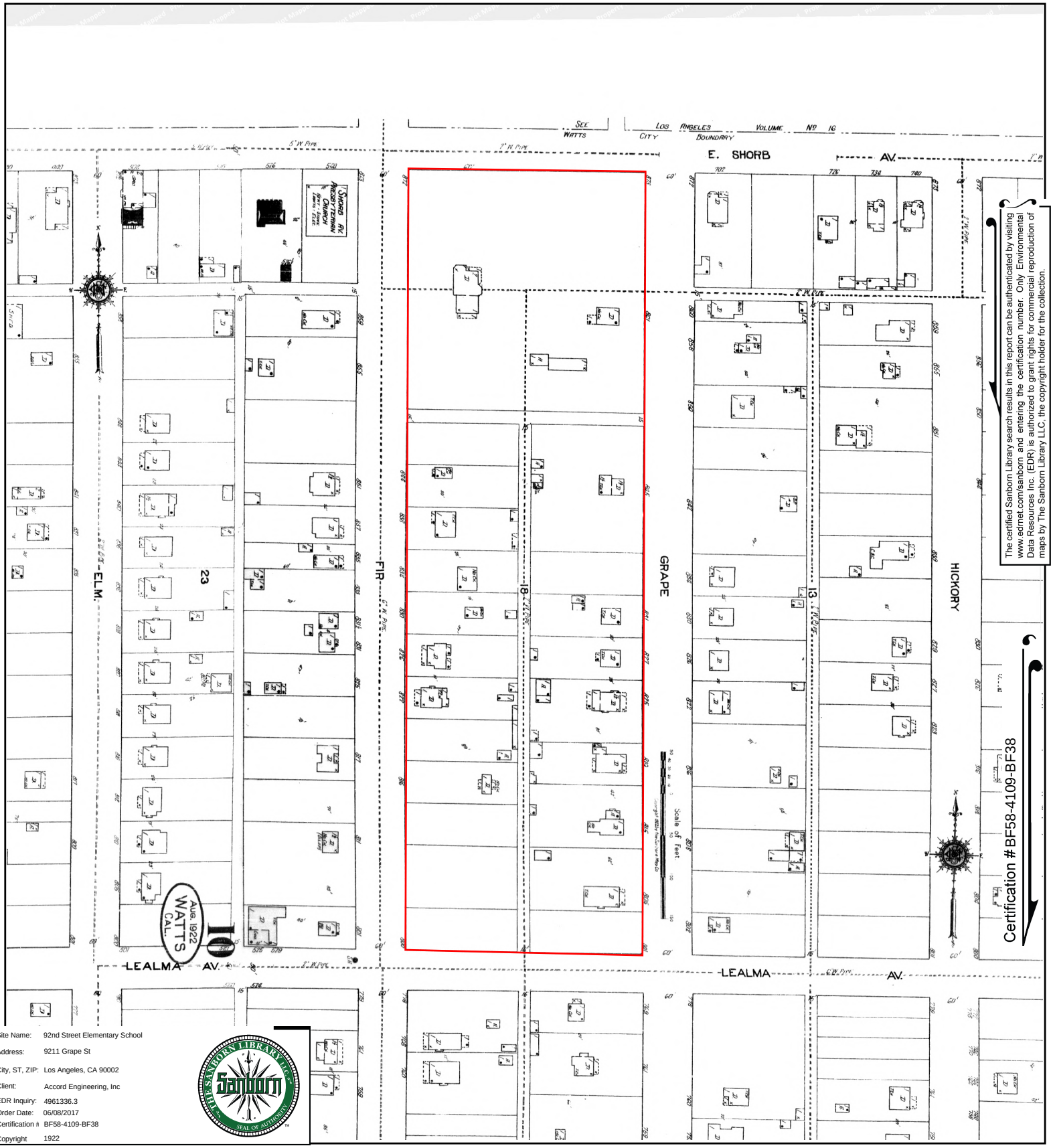

Certification #BF58-4109-BF38

Site Name:	92nd Street Elementary School
Address:	9211 Grape St
City, ST, ZIP:	Los Angeles, CA 90002
Client:	Accord Engineering, Inc
EDR Inquiry:	4961336.3
Order Date:	06/08/2017
Certification #:	BF58-4109-BF38
Copyright	1922

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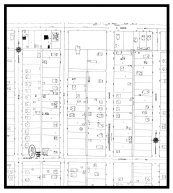

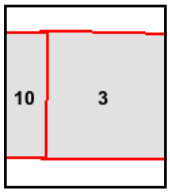

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Appendix H

Regulatory Agency Inquiries and Responses

Office of the State Fire Marshal

Pipeline Safety Division

P.O. Box 944246
Sacramento, CA 94244-2460

Request ID: 07062017SFM001

TO: ACCORD ENGINEERING
RICE XIAO
2923 PULLMAN STREET
SANTA ANA, CA 92705

Phone: 7142417200
Fax: 9492510563

FROM: Lisa Dowdy

Phone: (916) 445-8477
Fax: (916) 445-8526

PIPELINE LOCATION REQUEST FOR:

9211 GRAPE STREET
LOS ANGELES, CA 90002

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

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.

Matthew Rodriquez
Secretary for
Environmental Protection

Department of Toxic Substances Control

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr
Governor

July 3, 2017

Mr. Rice Xiao
Accord Engineering
2923 Pullman Street
Santa Ana, CA 92705

92nd Street Elementary School, 9211 S. Grape Street, Los Angeles, CA 90002
PR3-062717-09

Dear Mr. Xiao:

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 or would like further information regarding your request, please contact me at (818) 717-6522.

Sincerely,

Glenn Castillo/bh
Regional Records Coordinator

Matthew Rodriquez
Secretary for
Environmental Protection

Department of Toxic Substances Control

Barbara A. Lee, Director
5796 Corporate Avenue
Cypress, California 90630

Edmund G. Brown Jr.
Governor

June 19, 2017

Rice Xiao
Accord Engineering
2923 Pullman Street,
Santa Ana, CA 92705

92nd Street Elementry School
9211 S. Grape Street,
Los Angeles, CA 90002
PR4-061517-02

Dear Mr. Xiao:

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, please contact our Regional Records Coordinator at (714) 484-5336.

Sincerely,

Jone Barrio

Jone Barrio
Regional Records Coordinator
Cypress Administrative Services

Gmail Ru Xiao <rxiao0731@gmail.com>

RE: 17-0485 PRA REQ EST

Strange, Amber <Amber.Strange@fire.lacounty.gov> Tue, Jul 11, 2017 at 7:30 AM
To: "RXIAO@ACCORDENG.COM" <RXIAO@accordeng.com>
Cc: "Clark, Kim" <Kim.Clark@fire.lacounty.gov>

HELLO,

The Los Angeles County Fire Department, Health Hazardous Materials Division, being the custodian or keeper of records, certify that a thorough search for the records you requested has been carried out.

Re: ***9211 S. GRAPEE ST, LOS ANGELES, CA 90002***

This search revealed that no records were found for the above noted address(es).

It should be understood that this does not mean that the records you requested do not exist. It is possible that such records may be misfiled; exist under another spelling, another name, or may have been destoyed based on this Department's Record Retention Policy. However, with the information furnished to our office, and to the best of our knowledge, no records were located.

If you have any questions regarding your request, please contact our office at *(310) 348-1781.*

Los Angeles County Fire Department

Health Hazardous Materials Division

Inspection Section / West District

HHMD Website

image001.png
26K

Gmail Ru Xiao <rxiao0731@gmail.com>

RE: Public Records Request- 9211 S Grape St, LA

David Coscia <DCOSCIA@dpw.lacounty.gov> Mon, Jul 3, 2017 at 6:53 AM
To: "rxiao@accordeng.com" <rxiao@accordeng.com>

Hello Xiao

Per your request to County of Los Angeles Public Works, we do not have jurisdiction for the site. Please contact City of Los Angeles.

Regards,

David Coscia

Program Manager II

Los Angeles County Public Works

(626) 458-3519

From: rxiao@accordeng.com [mailto:rxiao@accordeng.com]
Sent: Friday, June 30, 2017 2:37 PM
To: David Coscia <DCOSCIA@dpw.lacounty.gov>
Subject: RE: Public Records Request- 9211 S Grape St, LA

[Quoted text hidden]

Southern California Gas Company

A Sempra Energy utility℠

July 19, 2017

To whom it may concern,

Enclosed is a copy of our Atlas Sheets with the approximate locations of our gas mains for you to post to your proposed project plans. There also may be service laterals coming from mains that are not identified on the plans. The dimensions and locations of the mains are believed to be reasonably correct but are not guaranteed.

The depths of our facilities vary and can only be confirmed by pot holing, or some other acceptable method of taking elevations.

It is extremely important that you furnish us with "signed" final plans, before construction, including profiles and subsequent plan revisions as soon as they are available. A minimum of twelve (12) weeks is needed to analyze the plans and design alterations for any conflicting facilities. Depending on the magnitude of the work involved, additional time may be required to clear the conflict.

Underground Service Alert (USA), (800) 442-4133 or (800) 227-2600, must be notified 48 hours prior to commencing work. Please keep us informed of construction schedules, pre-construction meetings, etc., so that we can schedule our work accordingly. If no action is taken on this project within 24 months, plans will be discarded.

Gamaliel Vazquez
Planning Associate

Map Title:
Printed By: CORP\gvazque1
Printed Date: 7/19/2017

SoCalGas
A Sempra Energy utility

Information Management
Public Records Unit

Direct Dial (909) 396-3700
Fax:(909) 396-3330

COMPLETION LETTER

June 23, 2017

RICE XIAO
ACCORD ENGINEERING
2923 PULLMAN ST.
SANTA ANA, CA 92705

Ref.: CONTROL NO. 90760
Received 6/20/2017

Re: P/O'S, EQL'S, NOV'S, N/C'S, COMPLAINTS & ASBESTOS NOTIFICATIONS/RECORDS FOR 92ND STREET ELEMENTARY SCHOOL, 9211 S GRAPE ST, LOS ANGELES, CA.

After a thorough search of this agency's records, the following records were found:
COMPLAINTS & ASBESTOS NOTIFICATIONS/RECORDS FOR 92ND STREET ELEMENTARY SCHOOL, 9211 S GRAPE ST, LOS ANGELES, CA.

The following records were not found:
P/O'S, EQL'S, NOV'S, & N/C'S FOR 92ND STREET ELEMENTARY SCHOOL, 9211 S GRAPE ST, LOS ANGELES, CA.

YOUR REQUESTED RECORDS WERE PROVIDED ELECTRONICALLY ON 06/23/2017

If you have any questions, please do not hesitate to contact me, Tuesday through Friday, **8:00 a.m**. to **4:30 p.m.**

Sincerely,

LORA TRAPP x2854
For COLLEEN PAINE
Public Records Coordinator

:lt

Appendix I

CDE Screening Criteria Checklist

Preliminary Environmental Screening of Proposed Project at Existing School Site

Project: 92nd Street Elementary School Modernization

Selection Criteria	Yes	No	Comments
High Voltage Power Transmission Lines [CCR, Title 5, 14010(c)]			
Will the project create or exacerbate any health risks to students from 50-133 kV power lines within 100 feet of the site?		X	
Will the project create or exacerbate any health risks to students from 220-230 kV power lines within 150 feet of the site?		X	
Will the project create or exacerbate any health risks to students from 500-550 kV power lines within 350 feet of the site?		X	See Note 1
Railroads [CCR, Title 5, 14010(d)]			
Will the project create or exacerbate any safety risks to students from railroads within 1,500 feet of th site?		X	
Traffic Noise [CCR, Title 5, 14010(e)]			
Will the project create or exacerbate any noise impacts to students from adjacent roads or freeways that will adversely affect the educational program?		X	
Faults [CCR, Title 5, 14010(f)]			
Will the project create or exacerbate and safety risks to students from active fault traces which may be onsite?		X	
Flood or Inundation Area [CCR, Title 5, 14010(g)]			
Will the project create or exacerbate safety risks to students from flooding or dam inundation?		X	
Pipelines and Above Ground Tanks [CCR, Title 5, 14010(h)]			
Will the project create or exacerbate safety risks to students from nearby above ground water or fuel storage tanks?		X	
Will the project create or exacerbate safety risks to students from high-pressure hazardous material pipelines located within 1,500 feet of the site?			
Liquefaction and Landslides [CCR, Title 5, 14010(i)]			
Will the project create or exacerbate safety risks to students from liquefaction or landslides?		X	
Traffic and Pedestrian Safety [CCR, Title 5, 14010(l)]			
Will the project create or exacerbate traffic/pedestrian safety risks to students from an adjacent major arterial street?		X	

Note 1 - Existing transmission line and tower located about 350 feet to the north of 92nd street

Preliminary Environmental Screening of Proposed Project at Existing School Site

Project: 92nd Street Elementary School Modernization

Selection Criteria	Yes	No	Comments
Compatible Zoning [CCR, Title 5, 14010(m)]			
Will the project create or exacerbate health or safety risks to students from the zoning surrounding the site?		X	
Light, Wind, Air Pollution [CCR, Title 5, 14010(q)]			
Will the project create or exacerbate impacts to students from light, wind, or air pollution?		X	
Easements [CCR, Title 5, 14010(r)]			
Will the project create or exacerbate impacts to students from easements on or adjacent to the site which may restrict access or building placement?		X	
Border Zone Property [CCR, Title 5, 14010(t)]			
Will the project create or exacerbate health and safety risks to students from a significant disposal of hazardous waste within 2,000 ft. of the site?		X	
Cellular Phone Towers [LAUSD Board Resolution]			
Will the project create or exacerbate health risks to students from a cellular phone tower on or adjacent to the site?		X	
Methane Zone			
Will the project create or exacerbate health and safety risks to students from a known methane zone or oil field?		X	
Oil Wells			
Will the project create or exacerbate health and safety risks to students from an onsite oil well?		X	
Air Pollution [LAUSD Board Resolution]			
Will the project create or exacerbate health risks to students from a major transportation corridor (freeway, major rail line) within 500 feet?		X	
Will the project create or exacerbate health risks to students from a major stationary source of emissions within 500 feet?		X	
Is the school on the Priority List of Schools Most at Risk from Air Pollution?		X	
Will the project create or exacerbate health risks to students from a high-risk facility previously identified by OEHS?		X	
Airports [CCR, Title 5, 14010(t)]			
Will the project create or exacerbate health and safety risks to students from an airport within two nautical miles of the site?		X	

Noise and Vibration Background and Modeling Data

NOISE BACKGROUND

Terminology and Noise Descriptors

The following are brief definitions of noise terminology.

- **Sound.** A vibratory disturbance that, when transmitted by pressure waves through a medium such as air, is capable of being detected by a receiving mechanism, such as the human ear or a microphone.

- **Noise**. Sound that is loud, unpleasant, unexpected, or otherwise undesirable.

- **Decibel (dB)**. A unitless measure of sound on a logarithmic scale, which indicates the squared ratio of sound pressure amplitude to a reference sound pressure amplitude. The reference pressure is 20 micropascals (20 μPa).

- **Vibration Decibel (VdB).** A unitless measure of vibration, expressed on a logarithmic scale and with respect to a defined reference vibration velocity. In the U.S., the standard reference velocity is 1 micro-inch per second ($1x10^{-6}$ in/sec).

- **A-Weighted Decibel (dBA).** An overall frequency-weighted sound level in decibels which approximates the frequency response of the human ear.

- **Equivalent Continuous Noise Level (Leq); also called the Energy-Equivalent Noise Level.** The value of an equivalent, steady sound level which, in a stated time period (often over an hour) and at a stated location, has the same A-weighted sound energy as the time-varying sound. Thus, the L_{eq} metric is a single numerical value that represents the equivalent amount of variable sound energy received by a receptor over the specified duration.

- **Statistical Sound Level (L_n).** The sound level that is exceeded "n" percent of time during a given sample period. For example, the L_{50} level is the statistical indicator of the time-varying noise signal that is exceeded 50 percent of the time (during each sampling period); that is, half of the sampling time, the changing noise levels are above this value and half of the time they are below it. This is called the "median sound level." The L_{10} level, likewise, is the value that is exceeded 10 percent of the time (i.e., near the maximum) and this is often known as the "intrusive sound level." The L_{90} is the sound level

exceeded 90 percent of the time and is often considered the "effective background level" or "residual noise level."

- **Day-Night Level (L_{dn} or DNL).** The energy average of the A-weighted sound levels occurring during a 24-hour period, with 10 dB added to the A-weighted sound levels occurring during the period from 10 PM to 7 AM.

- **Community Noise Equivalent Level (CNEL).** The energy average of the A-weighted sound levels occurring during a 24-hour period, with 5 dB added to the A-weighted sound levels occurring during the period from 7 PM to 10 PM and 10 dB added to the A-weighted sound levels occurring during the period from 10 PM to 7 AM. For general community/environmental noise, CNEL and L_{dn} values rarely differ by more than 1 dB. As a matter of practice, L_{dn} and CNEL values are interchangeable and are treated as being equivalent in this assessment.

- **Sensitive Receptor.** Noise- and vibration-sensitive receptors include land uses where quiet environments are necessary for enjoyment and public health and safety. Residences, schools, motels and hotels, libraries, religious institutions, hospitals, and nursing homes are examples.

Characteristics of Sound

Sound is a pressure wave transmitted through the air. When an object vibrates, it radiates part of its energy as acoustical pressure in the form of a sound wave. Sound can be described in terms of amplitude (loudness), frequency (pitch), or duration (time). The standard unit of measurement of the loudness of sound is the decibel (dB). The human hearing system is not equally sensitive to sound at all frequencies. Sound waves below 16 Hz are not heard at all and are "felt" more as a vibration. Similarly, while people with extremely sensitive hearing can hear sounds as high as 20,000 Hz, most people cannot hear above 15,000 Hz. In all cases, hearing acuity falls off rapidly above about 10,000 Hz and below about 200 Hz. Since the human ear is not equally sensitive to sound at all frequencies, a special frequency-dependent rating scale is usually used to relate noise to human sensitivity. The A-weighted decibel scale (dBA) performs this compensation by discriminating against frequencies in a manner approximating the sensitivity of the human ear.

Because of the physical characteristics of noise transmission and noise perception, the relative loudness of sound does not closely match the actual amounts of sound energy. Table 1 presents the subjective effect of changes in sound pressure levels. Typical human hearing can detect changes of approximately 3 dBA or greater under normal conditions. Changes of 1 to 3 dBA are detectable under quiet, controlled conditions and changes of less than 1 dBA are usually indiscernible. A change of 5 dBA or greater is typically noticeable to most people in an exterior environment and a change of 10 dBA is perceived as a doubling (or halving) of the noise.

Table 1 Change in Sound Pressure Level, dB

Change in Apparent Loudness	
± 3 dB	Threshold of human perceptibility
± 5 dB	Clearly noticeable change in noise level
± 10 dB	Half or twice as loud
± 20 dB	Much quieter or louder

Source: Bies and Hansen, Engineering Noise Control, 2009.

Point and Line Sources

Noise may be generated from a point source, such as a piece of construction equipment, or from a line source, such as a road containing moving vehicles. Because noise spreads in an ever-widening pattern, the given amount of noise striking an object, such as an eardrum, is reduced with distance from the source. This is known as "spreading loss." The typical spreading loss for point source noise is 6 dBA per doubling of the distance from the noise source.

A line source of noise, such as vehicles proceeding down a roadway, would also be reduced with distance, but the rate of reduction is affected by of both distance and the type of terrain over which the noise passes. Hard sites, such as developed areas with paving, reduce noise at a rate of 3 dBA per doubling of the distance while soft sites, such as undeveloped areas, open space and vegetated areas reduce noise at a rate of 4.5 dBA per doubling of the distance.[1] These represent the extremes and most areas would actually contain a combination of hard and soft elements with the noise reduction placed somewhere in between these two factors. Unfortunately, the only way to actually determine the absolute amount of attenuation that an area provides is through field measurement under operating conditions with subsequent noise level measurements conducted at varying distances from a constant noise source.

Objects that block the line of sight attenuate the noise source if the receptor is located within the "shadow" of the blockage (such as behind a sound wall). If a receptor is located behind the wall, but has a view of the source, the wall would do little to reduce the noise. Additionally, a receptor located on the same side of the wall as the noise source may experience an increase in the perceived noise level, as the wall would reflect noise back to the receptor compounding the noise.

[1] Surface type or ground cover is defined as the "hardness" or "softness" of the surrounding area. "Hard site environment" is areas with acoustically hard ground (e.g., pavement or water). Distance attenuation from a line source (i.e., roadway or railway) with a hard site environment is 3 dB per doubling of distance (dB/DD). "Soft site environment" is areas with acoustically soft ground (e.g., lawn or loose dirt or agricultural uses). Ground cover can affect the sound propagation rate by as much as an additional 1.5 dB/DD. (Note that this rate occurs only when both the noise source and the receiver are close to the ground and the terrain between the two is flat and soft.) As a result of this additional attenuation, the line-source sound levels decrease at a rate of 4.5 dB/DD at soft sites.

Noise Metrics

Several rating scales (or noise "metrics") exist to analyze adverse effects of noise, including traffic-generated noise, on a community. These scales include the equivalent noise level (Leq), the community noise equivalent level (CNEL) and the day/night noise level (Ldn). Leq is a measurement of the sound energy level averaged over a specified time period.

The CNEL noise metric is based on 24 hours of measurement. CNEL differs from Leq in that it applies a time-weighted factor designed to emphasize noise events that occur during the evening and nighttime hours (when quiet time and sleep disturbance is of particular concern). Noise occurring during the daytime period (7:00 AM to 7:00 PM) receives no penalty. Noise produced during the evening time period (7:00 to 10:00 PM) is penalized by 5 dB, while nighttime (10:00 PM to 7:00 AM) noise is penalized by 10 dB. The Ldn noise metric is similar to the CNEL metric except that the period from 7:00 to 10:00 PM receives no penalty. Both the CNEL and Ldn metrics yield approximately the same 24-hour value (within 1 dB) with the CNEL being the more restrictive (i.e., higher) of the two.[2]

Psychological and Physiological Effects of Noise

Physical damage to human hearing begins at prolonged exposure to noise levels higher than 85 dBA. Exposure to high noise levels affects the entire system, with prolonged noise exposure in excess of 75 dBA increasing body tensions, thereby affecting blood pressure and functions of the heart and the nervous system. In comparison, extended periods of noise exposure above 90 dBA would result in permanent cell damage. When the noise level reaches 120 dBA, a tickling sensation occurs in the human ear even with short-term exposure. This level of noise is called the threshold of feeling. As the sound reaches 140 dBA, the tickling sensation is replaced by the feeling of pain in the ear. This is called the threshold of pain. A sound level of 160 to 165 dBA will result in dizziness or loss of equilibrium. The ambient or background noise is widespread and generally more concentrated in urban areas than in outlying, less-developed areas (see Table 2).

[2] Ldn and CNEL values rarely differ by more than 1 dB. As a matter of practice, Ldn and CNEL values are considered equivalent and are treated as such in this assessment.

Table 2 Common Sound Levels and Their Sources

Noise Source	A-Weighted Sound Level in Decibels	Noise Environments	Subjective Evaluations Relative to 70 dB
Near Jet Engine	140	Deafening	128 times as loud
Civil Defense Siren	130	Threshold of Pain	64 times as loud
Hard Rock Band	120	Threshold of Feeling	32 times as loud
Accelerating Motorcycle at a Few Feet Away	110	Very Loud	16 times as loud
Pile Driver; Noisy Urban Street/Heavy City Traffic	100	Very Loud	8 times as loud
Ambulance Siren; Food Blender	95	Very Loud	
Garbage Disposal	90	Very Loud	4 times as loud
Freight Cars; Living Room Music	85	Loud	
Pneumatic Drill; Vacuum Cleaner	80	Loud	2 times as loud
Busy Restaurant	75	Moderately Loud	
Near Freeway Auto Traffic	70	Moderately Loud	
Average Office	60	Quiet	One-half as loud
Suburban Street	55	Quiet	
Light Traffic; Soft Radio Music in Apartment	50	Quiet	One-quarter as loud
Large Transformer	45	Quiet	
Average Residence without Stereo Playing	40	Faint	One-eighth as loud
Soft Whisper	30	Faint	
Rustling Leaves	20	Very Faint	
Human Breathing	10	Very Faint	Threshold of Hearing

Source: California Department of Transportation (Caltrans) 2006, October. Traffic Noise Analysis Protocol.

Vibration

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration is normally associated with activities such as railroads or vibration-intensive stationary sources, but can also be associated with construction equipment, such as jackhammers, pile drivers, and hydraulic hammers. Vibration displacement is the distance that a point on a surface moves away from its original static position. The instantaneous speed that a point on a surface moves is described as the velocity, and the rate of change of the speed is described as the acceleration. Each of these descriptors can be used to correlate vibration to human response, building damage, and acceptable equipment vibration levels. During the construction of a building, the operation of construction equipment could cause groundborne vibration. The three main wave types of concern in the propagation of groundborne vibrations are surface or Rayleigh waves, compression or P-waves, and shear or S-waves.

- Surface or Rayleigh waves travel along the ground surface. They carry most of their energy along an expanding cylindrical wave front, similar to the ripples produced by throwing a rock into a lake. The particle motion is more or less perpendicular to the direction of propagation (known as retrograde elliptical).

- Compression or P-waves are body waves that carry their energy along an expanding spherical wave front. The particle motion in these waves is longitudinal, in a push-pull motion. P-waves are analogous to airborne sound waves.

- Shear or S-waves are also body waves, carrying their energy along an expanding spherical wave front. Unlike P-waves, however, the particle motion is transverse, or perpendicular to the direction of propagation.

The peak particle velocity (PPV) or the root mean square (RMS) velocity is usually used to describe vibration amplitudes. PPV is defined as the maximum instantaneous peak of the vibration signal and RMS is defined as the square root of the average of the squared amplitude of the signal. PPV is more appropriate for evaluating potential building damage, whereas RMS is typically more suitable for evaluating human response.

The units for PPV and RMS velocity are normally inches per second (in/sec). Often, vibration is presented and discussed in dB units to compress the range of numbers required to describe the vibration. All PPV and RMS velocity are in in/sec and all vibration levels in this study are in dB relative to 1 micro-inch per second (abbreviated as VdB). The threshold of perception is approximately 65 VdB. Typically groundborne vibration generated by manmade activities attenuates rapidly with distance from the source of the vibration. Manmade vibration problems are usually confined to short distances (500 feet or less) from the source.

Construction generally includes a wide range of activities that can generate groundborne vibration. In general, demolition of structures generates the highest vibrations. Vibratory compactors or rollers, pile drivers, and pavement breakers can generate perceptible amounts of vibration at distances within 200 feet of the vibration sources. Heavy trucks can also generate groundborne vibrations that vary, depending on vehicle type, weight, and pavement conditions. Potholes, pavement joints, discontinuities, differential settlement of pavement, etc., all increase the vibration levels from vehicles passing over a road surface. Construction vibration is normally of greater concern than vibration of normal traffic on streets and freeways with smooth pavement conditions. Trains generate substantial quantities of vibration due to their engines, steel wheels, and heavy loads.

Sensitive Receptors

Certain land uses are particularly sensitive to noise and vibration. Noise- and vibration-sensitive uses include land uses where quiet environments are necessary for enjoyment and public health and safety. Residences, schools, guest lodging, libraries, religious institutions, hospitals, nursing homes, and passive recreation areas are generally more sensitive to noise than commercial and industrial land use.

Noise Regulations and Guidelines

Compliance with State, City, and LAUSD noise requirements and guidelines is required for schools as described below.

State

California Code of Regulations, Title 24, Part 2

Current law states that every local agency enforcing building regulations, such as cities and counties, must adopt the provisions of the California Building Code (CBC) within 180 days of its publication. The publication date of the CBC is established by the California Building Standards Commission. The most recent building standard adopted by the legislature and used throughout the state is the 2016 version, often with local, more restrictive amendments that are based on local geographic, topographic, or climatic conditions.[5] The State of California's noise insulation standards are codified in the CBC. 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.

City of Los Angeles

Exterior

As specified in Sections 112.02 and 112.05 of the City of Los Angeles Municipal Code, noise attributable to mechanical equipment (such as heating, air conditioning, and ventilation equipment (HVAC) systems or any pumping, filtering, or heating equipment) cannot exceed the ambient noise level by more than 5 decibels. Ambient noise levels can be as-measured at the project site or established via Code-presumed levels. For the nearby residential neighborhood (Zone R1), the presumed ambient levels are 50 dBA (daytime, 7:00 AM to 10:00 PM) and 40 dBA (nighttime, 10:00 PM to 7:00 AM).

Further, power-equipment, including lawn mowers, backpack blowers, small lawn and garden tools, and riding tractors are restricted to no more than 65 dBA Leq at residential properties.

Construction Activities

Section 41.40 of the Los Angeles Municipal Code prohibits construction or repair work between 9:00 PM and 7:00 AM the following morning, Monday through Friday; between 6:00 PM and 8:00 AM the following morning, Saturdays or federal holidays; and anytime on Sundays. Further, Section 112.05 specifies the maximum noise level from powered equipment[3] as 75 dBA at a distance of 50 feet from the source.[4]

[3] The specified equipment for this limitation includes: 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.

[4] However, this noise limitation does not apply where compliance is technically infeasible. Technically infeasible means that the above noise limitation cannot be met despite the use of mufflers, shields, sound barriers and/or any other noise reduction device or techniques during the operation of equipment.

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Roadway Construction Noise Model (RCNM),Version 1.1

Report dat ########
Case Descr LASD-31.0

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Site Prep	Residential	60	55	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85		210	0
Tractor	No	40	84		210	0
Pickup Truck	No	40		75	210	0

Equipment	Calculated (dBA) *Lmax	Leq	Results Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Grader	72.5	68.6	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	71.5	67.6	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck	62.5	58.6	N/A	N/A	N/A	N/A	N/A	N/A
Total	72.5	71.3	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Noise Limit Exceedance (dBA)					
Day		Evening		Night	
Lmax	Leq	Lmax	Leq	Lmax	Leq
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: ########
Case Description: LASD-31.0

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Utility Trenching	Residential	60	55	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	210	0
Tractor	No	40	84		210	0
Pickup Truck	No	40		75	210	0

		Calculated (dBA)		Results	Noise Limits (dBA)			
				Day		Evening		Night
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Excavator		68.2	64.3	N/A	N/A	N/A	N/A	N/A
Tractor		71.5	67.6	N/A	N/A	N/A	N/A	N/A
Pickup Truck		62.5	58.6	N/A	N/A	N/A	N/A	N/A
	Total	71.5	69.6	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Noise Limit Exceedance (dBA)						
	Day		Evening		Night	
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: ########
Case Description: LASD-31.0

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Portable Building Haul	Residential	60	55	60

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16		80.6	210	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		68.1	60.1	N/A	N/A	N/A	N/A
	Total	68.1	60.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Noise Limit Exceedance (dBA)							
Night		Day		Evening		Night	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: ########
Case Description: LASD-31.0

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Demolition	Residential	60	55	60

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Concrete Saw	No	20		89.6	210	0
Dozer	No	40		81.7	210	0
Tractor	No	40	84		210	0

			Results				
	Calculated (dBA)			Noise Limits (dBA)			
			Day		Evening		Night
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Saw	77.1	70.1	N/A	N/A	N/A	N/A	N/A
Dozer	69.2	65.2	N/A	N/A	N/A	N/A	N/A
Tractor	71.5	67.6	N/A	N/A	N/A	N/A	N/A
Total	77.1	72.9	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Noise Limit Exceedance (dBA)						
	Day		Evening		Night	
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: ########
Case Description: LASD-31.0

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Grading and Trenching	Residential	60	55	60	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Gradall	No	40		83.4	210	0
Dozer	No	40		81.7	210	0
Tractor	No	40	84		210	0
Front End Loader	No	40		79.1	210	0

		Calculated (dBA)		Results Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Gradall		70.9	67	N/A	N/A	N/A	N/A
Dozer		69.2	65.2	N/A	N/A	N/A	N/A
Tractor		71.5	67.6	N/A	N/A	N/A	N/A
Front End Loader		66.6	62.7	N/A	N/A	N/A	N/A
	Total	71.5	72	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Noise Limit Exceedance (dBA)							
Night		Day		Evening		Night	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: ########
Case Description: LASD-31.0

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Building Construction	Residential	60	55	60	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	210	0
Man Lift	No	20		74.7	210	0
Man Lift	No	20		74.7	210	0
Generator	No	50		80.6	210	0
Tractor	No	40	84		210	0
Welder / Torch	No	40		74	210	0
Welder / Torch	No	40		74	210	0
Welder / Torch	No	40		74	210	0

		Calculated (dBA)		Results			
				Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		68.1	60.1	N/A	N/A	N/A	N/A
Man Lift		62.2	55.2	N/A	N/A	N/A	N/A
Man Lift		62.2	55.2	N/A	N/A	N/A	N/A
Generator		68.2	65.2	N/A	N/A	N/A	N/A
Tractor		71.5	67.6	N/A	N/A	N/A	N/A
Welder / Torch		61.5	57.6	N/A	N/A	N/A	N/A
Welder / Torch		61.5	57.6	N/A	N/A	N/A	N/A
Welder / Torch		61.5	57.6	N/A	N/A	N/A	N/A
	Total	71.5	70.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Noise Limit Exceedance (dBA)							
Night		Day		Evening		Night	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: ########
Case Description: LASD-31.0

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Architect Coating	Residential	60	55	60

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40		77.7	210	0

				Results				
		Calculated (dBA)		Noise Limits (dBA)				
				Day		Evening		Night
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)		65.2	61.2	N/A	N/A	N/A	N/A	N/A
	Total	65.2	61.2	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

		Noise Limit Exceedance (dBA)				
	Day		Evening		Night	
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: ########
Case Description: LASD-31.0

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Portable Inst	Residential	60	55	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	210	0
Pickup Truck	No	40		75	210	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening		Night
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Crane		68.1	60.1	N/A	N/A	N/A	N/A	N/A
Pickup Truck		62.5	58.6	N/A	N/A	N/A	N/A	N/A
	Total	68.1	62.4	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

		Noise Limit Exceedance (dBA)				
	Day		Evening		Night	
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat ########
Case Descr LASD-31.0

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Paving	Residential	60	55	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	210	0
Paver	No	50		77.2	210	0
Pavement Scarafier	No	20		89.5	210	0
Roller	No	20		80	210	0
Roller	No	20		80	210	0
Tractor	No	40	84		210	0

Results

	Calculated (dBA)		Noise Limits (dBA)					
			Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	66.3	62.4	N/A	N/A	N/A	N/A	N/A	N/A
Paver	64.8	61.7	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	77	70	N/A	N/A	N/A	N/A	N/A	N/A
Roller	67.5	60.5	N/A	N/A	N/A	N/A	N/A	N/A
Roller	67.5	60.5	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	71.5	67.6	N/A	N/A	N/A	N/A	N/A	N/A
Total	77	73.3	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

	Noise Limit Exceedance (dBA)				
Day		Evening		Night	
Lmax	Leq	Lmax	Leq	Lmax	Leq
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Report date: ########
Case Description: LASD-31.0

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Finish/Landscape	Residential	60	55	60	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	210	0
Excavator	No	40		80.7	210	0
Pavement Scarafier	No	20		89.5	210	0

		Calculated (dBA)		Results Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Front End Loader		66.6	62.7	N/A	N/A	N/A	N/A
Excavator		68.2	64.3	N/A	N/A	N/A	N/A
Pavement Scarafier		77	70	N/A	N/A	N/A	N/A
	Total	77	71.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Noise Limit Exceedance (dBA)							
Night		Day		Evening		Night	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Site Circulation Report

LAUSD COMPREHENSIVE MODERNIZATION PROJECT - 92ND STREET ELEMENTARY SCHOOL

LIN Consulting, Inc.

Traffic, Civil, and Electrical Consulting Engineers

Prepared by:
LIN Consulting, Inc.

For:
ESA
Los Angeles Unified School District

October 11, 2018

TABLE OF CONTENTS

APPENDICES

1.0 INTRODUCTION

The purpose of this report is to document existing traffic and circulation conditions at 92nd Street Elementary School (ES), located at 9211 Grape Street in the Los Angeles Unified School District's (LAUSD) Local District South in the Watts community of the City of Los Angeles. This report summarizes existing conditions, including observed and anecdotal circulation operations, for use in the facilities planning and design process for the 92nd Street ES Comprehensive Modernization Project.

Observations include conditions and operations at adjacent intersections and roadway segments, internal parking lots, and identified or reported issues. Other existing conditions recorded are general vehicular travel (including pick-up/drop-off operations), school bus, parking, transit, pedestrian and bicycle usage. To aid this process, a safety audit (with an emphasis on walking) was performed. The audit encompasses positive and negative experiences during field visits from a professional civil engineering perspective, as well as an end user of the facilities. Walkability, accessibility, visibility, and safety of pedestrians and bicyclists are some of the major concerns that were evaluated in the audit. A follow-up interview regarding access, egress, and circulation at the school was conducted with 92nd Street ES administration, including Principal Priscilla Currie, on May 14, 2018.

This report concludes with observed deficiencies, operational and/or circulation issues, and offers potential opportunities for improvements to site access and/or onsite circulation that can be explored further in the facilities planning process for the 92nd Street ES Comprehensive Modernization Project, as well as other future projects. ***Appendix A*** includes notes from the field review conducted on April 26, 2018, and ***Appendix B*** includes notes from the walk audits conducted on the same date. Selected photos depicting conditions described in this report are included in ***Appendix C***. ***Appendix D*** provides additional information on circulation, such as traffic counts on record or suggested routes to school maps.

1.1 School and Neighborhood Description

The 92nd Street ES campus is located in the northeastern most section of the community of Watts in the area referred to as "South Los Angeles". It first opened its doors to students in 1925. Neighboring cities include South Gate to the immediate east, Huntington Park to the northeast, and Lynwood to the southeast. Single- and multi-family residential zones surround the immediate area of 92nd Street ES. As one moves east along 92nd Street towards Alameda Street, industrial and commercial uses including: scrap metal yards, glass and window shops,

and other light industry are predominant. These land uses are typical due to their proximity to the Alameda Corridor - a twenty-mile-long freight railway connecting the national rail system in downtown Los Angeles to the Ports of Los Angeles and Long Beach.

Per the school's 2017-2018 Single Plan for Student Achievement (SPSA), 92nd Street ES serves a total of 963 students from grades K to 6.

During the administration interview on May 14, 2018, Principal Currie indicated that enrollment at the school has remained steady in recent years.

2.0 TRANSPORTION NETWORK

2.1 Streets and Intersections

The 92nd Street ES campus is bounded by 92nd Street to the north, Grape Street to the east, Anzac Avenue to the west, and 95th Street to the south. The public entry to the main office is accessed from 92nd Street. Roadway characteristics, including roadway classification identified in the City of Los Angeles *Mobility Plan 2035*[1] for study area roadways are provided below.

STUDY AREA ROADWAYS

Anzac Avenue is a north-south roadway classified as a Local (standard) street located west of the project site. There is one travel lane in each direction within the school zone. Curb parking is allowed all day, except Thursdays from 10:00 am to noon on the west side and Wednesdays from 10:00 am to noon on the east side (for street sweeping). In addition, no parking is permitted on the east side between 7:00 am and 5:00 pm. No posted speed limit exists within the school zone, however, in accordance with California Vehicle Code, a school warning sign up to 500 feet away from school grounds indicating a speed limit of 25 mph is required when children are present.

Grape Street is a north-south roadway classified as a Local (standard) street located east of the project site. There is one travel lane in each direction within the school zone. Curb parking is allowed all day on the west side, except on Wednesdays from 10:00 am to noon (for street sweeping). Curb parking is allowed all day on the east side, except Thursdays from 10:00 am to noon (for street sweeping). Passenger loading only is allowed from 6:30 am to 9:00 am and 1:30 pm to 4:00 pm on school days. A two-hour parking restriction exists from 9:00 am to 1:30 pm during school days north of the main gated pedestrian entrance to the school. There is a 15-

[1] *Los Angeles Department of City Planning, Mobility Plan 2035 (California: Los Angeles, 2016)*

minute parking restriction from 7:00 am to 5:00 pm south of the same gate. No posted speed limit exists within the school zone, however, in accordance with California Vehicle Code, a school warning sign up to 500 feet away from school grounds indicating a speed limit of 25 mph is required when children are present.

95th Street is an east-west roadway classified as a Local (standard) street located south of the project site. There is one travel lane in each direction within the vicinity of the project. Curb parking is allowed all day on the south side except Thursdays from 10:00 am to noon and on the north side except Wednesdays from 10:00 am to noon (for street sweeping). No posted speed limit exists within the school zone, however, in accordance with California Vehicle Code, a school warning sign up to 500 feet away from school grounds indicating a speed limit of 25 mph is required when children are present.

92nd Street is an east-west roadway classified as an Avenue II located north of the project site. There is one travel lane and one Class II bike lane in each direction separated by a center lane within the school zone. Curb parking is allowed all day on the north side except Thursdays from 11:00 am to 3:00 pm and on the south side except Wednesdays from 8:00 am to 10:00 am (for street sweeping). The posted speed limit is 30 mph within the school zone. A speed limit of 25 mph when children are present is posted westbound, but not eastbound. This speed zone restriction may not fully conform to California Vehicle Code of a school warning sign is required up to 500 feet away from school grounds indicating a speed limit of 25 mph when children are present.

STUDY INTERSECTIONS

Anzac Avenue & 92nd Street is a signalized intersection with permissive left-turn phasing for all directions. The intersection operates under pre-timed signal timings. Pedestrian phase recall occurs along 92nd Street.

Grape Street & 95th Street is an unsignalized intersection with stop control on all movements.
Grape Street & 92nd Street is an unsignalized T-intersection with stop control on the northbound movement.

Anzac Avenue & 95th Street is an unsignalized intersection with stop control on all movements.

Specific characteristics of each intersection, including lane configurations, can be found in ***Appendix A***.

2.2 Transit

Public bus stops served by Metro are located as follows:

- 92nd Street
  - Southwest corner of Anzac Avenue
    - Metro 254 (eastbound), Metro 612 (eastbound)
  - Northwest corner of Fir Ave
    - Metro 254 (westbound), Metro 612 (westbound)
- Anzac Avenue
  - Northwest corner of 95th Street
    - Metro 254 (southbound)
  - Northeast corner of 95th Street
    - Metro 254 (northbound)

2.3 Bicycle and Pedestrian Facilities

There is one Class II Bike Lane in each travel direction on 92nd Street. In the *Mobility Plan 2035*[1], 92nd Street is listed as part of the proposed bike lane network, within the school zone.

Concrete sidewalks exist on both sides of 95th Street, 92nd Street, Grape Street, and Anzac Avenue within the school zone. In many locations, the sidewalk is paved inside the landscape buffer to the back of curb, with regular gaps provided for tree planters. These sidewalks appear to be accessible to disabled students. However, there is a short asphalt sidewalk segment on the east side of Grape Street just south of an alley, which is disrepair and likely not ADA compliant. In addition, many curb ramps appear to not be accessible to disabled students.

Principal Currie indicated that virtually no staff or faculty walks or bicycles to the school. Approximately half of students walk to school, most accompanied by at least one parent. Most parents do not allow their children to walk to school alone, primarily due to safety concerns. Students arrive from all directions, but predominantly from the southeast from a subsidized housing project. Few children skate or bike to school, and no bicycle racks are provided on school grounds. Bicycles or skateboards must be stored inside the school. 92nd Street ES has an active parent volunteer program, which assists with valet service by opening vehicle doors in the morning controlling traffic to protect students from potential collisions with oncoming vehicles and bicycles.

[1] *Los Angeles Department of City Planning, Mobility Plan 2035 (California: Los Angeles, 2016)*

2.4 Parks and Other Recreational Facilities

Jordan Downs Recreation Center is approximately 0.5 miles south of the school. Colonel Leo H. Washington Park is approximately 0.7 miles northwest of the school.

2.5 Congestion Locations

During the morning drop off period, parents dropping off students on Grape Street, 95th Street, and Anzac Avenue were observed to frequently block through vehicles. General congestion occurs during the morning and afternoon bell periods due to the number of parents who pick up or drop off students along the perimeter of the school. Two-way travel on Grape Street, Anzac Avenue, and 95th Street is therefore hindered by the combination of non-compliant curb parking outside of permitted hours or durations (which interferes with the "valet" service mentioned in ***Section 2.3 Bicycle and Pedestrian Facilities***), high parking utilization where permitted, vehicles stopping in the through lane to drop-off or pick-up students in both directions, and parents performing a U-turn to return to 92nd Street. Long queues (up to 10 vehicles) northbound on Grape Street at the intersection with 95th Street were noted during each bell period, which may contribute to the desire for parents to perform U-turn maneuvers. These queues were due to conflicting traffic at all approaches, as well as pedestrians trying to maneuver through jammed vehicles in the intersection.

Because these same streets allow parking on both sides of the roadway, it does not appear that adequate curb-to-curb width exists to allow free-flowing two-way travel simultaneously at the statutory speed for local roadways (25 mph). The inability to drive both directions during a gridlock-type situation compounds the circulation problems mentioned above. ***Appendix D*** contains traffic counts that were obtained from the City of Los Angeles, Department of Transportation (LADOT) *NavigateLA* database.

3.0 SCHOOL OPERATIONS

3.1 Parking

At 92nd Street ES, there are three parking lots permitted for school faculty only, located at:

- 92nd Street, approximately halfway between Anzac Avenue and Grape Street
- Grape Street, south of 92nd Street
- Grape Street approximately halfway between 95th Street and 92nd Street

The first lot is accessed from 92nd Street, and contains 6 marked parking spaces and no ADA spaces. The second lot is accessed from Grape Street, and contains 27 marked parking spaces and 2 van-accessible ADA spaces. The third lot is accessed from Grape Street, and contains 25 marked parking spaces and 1 van-accessible ADA space.

Principal Currie indicated that there is currently considerable shortage of parking available on-site for faculty and staff. On street sweeping days, the utilization of curb parking was observed to be above 95%, and per Principal Currie, faculty and staff often double-park or otherwise park in undesignated spaces on campus.

3.2 Circulation

92nd Street ES administration staff stated that vehicular traffic to and from the school travels mostly on 92nd Street.

A passenger loading zone of roughly 200 feet exists near the main pedestrian gate, which is located on Grate Street, approximately halfway between 95th Street and 92nd Street. At this location, the school has instituted a “valet” program and policy to help organize the morning bell period. This operation runs southbound along Grape Street, and involves setting up and removing traffic cones once per day. A separate lane is formed along the west curb of Grape Street, intended for brief loading and unloading. There are two volunteers at main pedestrian gate (sometimes referred to as the kindergarten entrance) for opening/closing car doors, and for guiding children into the school. However, there is no signage that exists permanently, nor was any temporary signage observed, which would indicate specific instructions to the driver other than “Stop and Drop Here”.

As mentioned previously, parents frequently attempt U-turns after the pick-up or drop-off to return to 92nd Street, which involves crossing a traffic cone line, which is a violation of California Vehicle Code. This maneuver often instead requires a 3-point turn and blocks oncoming northbound traffic. Principal Currie noted that despite occasional enforcement activity from the Los Angeles Police Department (LAPD), the problem continues to occur.

Parents also drop children off going northbound on Grape Street, which is inconsistent with the 92nd Street ES drop-off policy. Children, and sometimes parents, cross mid-block near the main pedestrian gate.

School buses load and unload on the east side of Anzac Avenue, approximately halfway between 95th Street and 92nd Street. There is a dedicated gate for students arriving by bus at the southwest corner of the campus.

A separate gate at the southeast corner of the campus allows all students entry during the morning bell period, but remains locked when school is in session and during the afternoon bell period.

3.3 Crash History

Between 2013 and 2017, a total of 19 crashes occurred in the school zone. 10 of these crashes were near the intersection of 92nd Street and Anzac Avenue. Five of these occurred at the intersection of 95th Street and Anzac Avenue. Two collisions occurred at the intersection of 95th Street and Grape Street. Two collisions occurred at the intersection of 92nd Street and Grape Street. Within the school zone, 1 pedestrian collision was recorded, which resulted in non-severe injuries. No fatalities were recorded.

Based on the available data, one discernible collision pattern was noted: on the three width-constrained streets (95th Street, Grape Street, and Anzac Avenue), 3 head-on collisions occurred. These collisions may be partly due to the fact that the roadways are not wide enough to accommodate two-way traffic and parking on both sides of the street.

Despite 3 collisions being cited as “unsafe speed” category violations (all rear-end collisions), there does not appear to be a significant crash pattern along eastbound 92nd Street, where the school speed zone is not signed.

4.0 DEFICIENCIES AND OPPORTUNITIES

4.1 Walk Audit Observations

Internally, a couple of issues were noted. Because the auditorium is too small to accommodate large groups, occasional pedestrian circulation problems occur in hallways due to multiple assemblies back-to-back, for each grade. Pedestrian spillback sometimes also blocks the ADA entrance near the main office, which is the only access in and out of the school during school hours. Additionally, almost all open space at the school is paved over with asphalt. The reflected and absorbed heat made walking or spending time outside uncomfortable.

The external walk audit conducted on April 26, 2018 within the school perimeter revealed the following deficiencies:

- Anzac Avenue & 95th Street
    - Crosswalk striping missing for the south leg of the intersection, despite heavy pedestrian use
    - Worn crossing pavement markings along the east leg of the intersection
    - Worn and uneven crossing pavement on the north leg of the intersection
    - Street lighting is only provided on the northeast corner of the intersection
    - Drivers encroach into marked crosswalks due to parked vehicles blocking driver's line of sight
    - Tactile strips for northeast curb ramp are absent
    - Some drivers seem distracted during pick-up/drop off hours and do not yield to pedestrians, particularly while turning
- Anzac Avenue & 92nd Street
    - Tactile strips for all curb ramps are absent, which may make crossing difficult for vision-impaired students
    - Some drivers were observed to stop within marked crosswalks, blocking pedestrian access
- Grape Street & 95th Street
    - Drivers encroach into marked crosswalks due to parked vehicles blocking driver's line of sight
    - Some drivers seem distracted during pick-up/drop off hours and do not yield to pedestrians, particularly while turning
- Grape Street & 92nd Street
    - Crossing 92nd Street is not allowed, and nearest eastern crossing is 300 feet away
    - Sidewalk on east side of Grape Street near alley is overgrown with brush, and uneven surface/deteriorated pavement
    - Children cross mid-block just south of main parking lot; dropped off by northbound vehicles not in compliance with the school's policy

Additional detail from the walk audit is provided in ***Appendix B***. Selected photos for the deficiencies identified during the walk audit are provided in ***Appendix C***.

4.2 Observed Circulation Deficiencies

- Pick-up/Drop-offs

  - Parents make U-Turns on Grape Street after picking-up/dropping-off students to return to 92nd Street
- Parking
  - Double parking on Grape Street and Anzac Avenue during pick-up/drop-off
  - Non-compliance with parking restrictions along Grape Street and Anzac Avenue during school hours
- Circulation
  - Unsupervised/uncontrolled mid-block crossing on Grape Street during morning and afternoon bell periods
  - Drivers often do not yield for pedestrians, and block crosswalks at Grape Street and Anzac Avenue intersections with 95th Street
  - Two-way traffic not possible during heavy use on Grape Street, Anzac Avenue, and 95th Street

4.3 Positive Attributes

- Good separation between parked vehicles and children decreases conflicts and likelihood of injuries
- Strong volunteer participation to assist parents dropping off students during the morning bell period and to assist pedestrians crossing the intersection of E 95th Street and Grape Street enhances overall safety

4.4 Opportunities

The following opportunities are not required improvements and are not required to limit or mitigate potential impacts. This list is provided solely as observations to LAUSD of the existing conditions that were observed during a site visit for planning purposes. The feasibility or practicality of these opportunities have not been evaluated and LAUSD does not have jurisdiction over any off-site improvements.

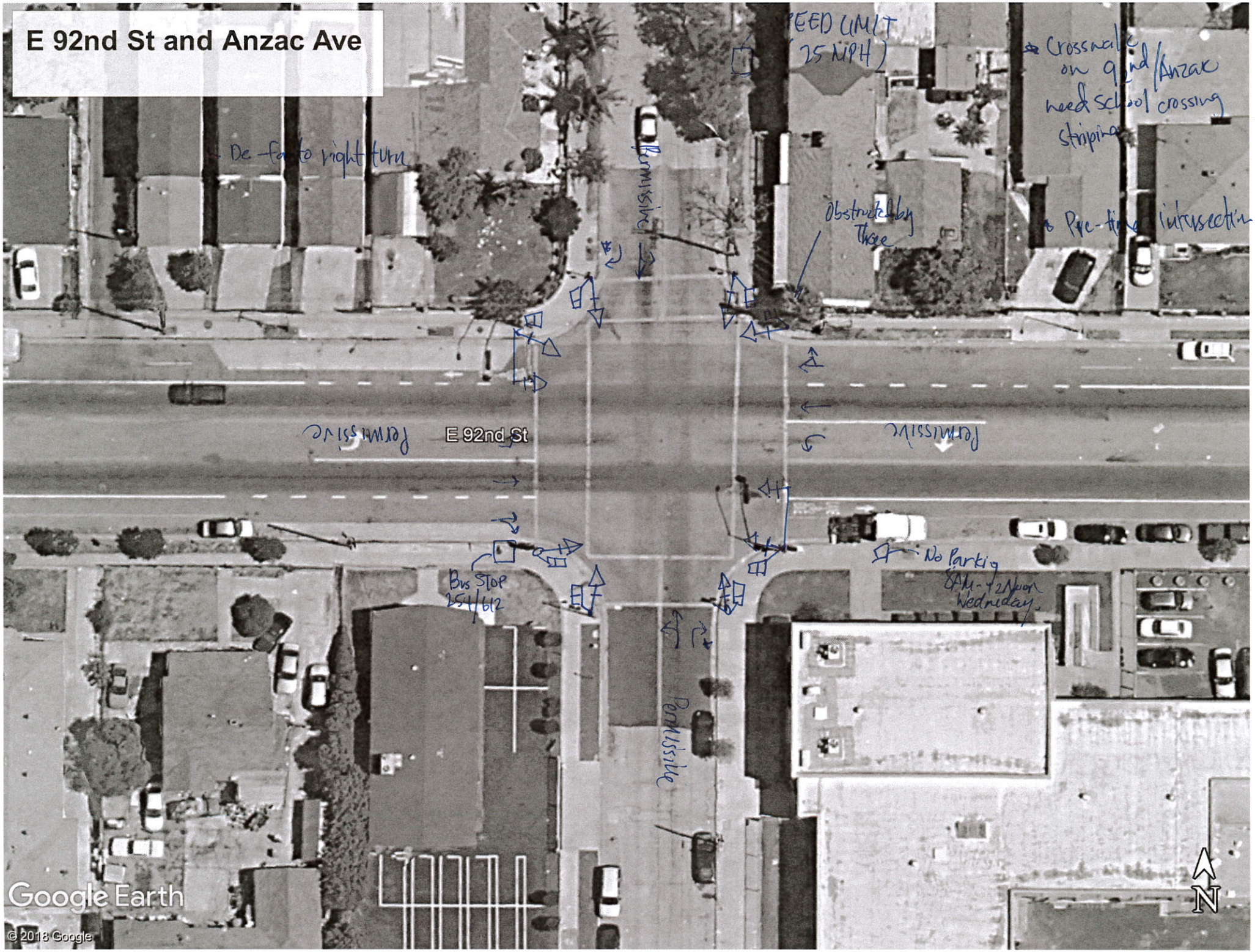
- Removal of portable classrooms and large open space, particularly on south side of campus, may be well suited for additional parking or pick-up/drop-off area
- Large amounts of available paved open space on campus that may be underutilized (i.e., not used during the school day) may also present an opportunity for additional parking or pick-up/drop-off area

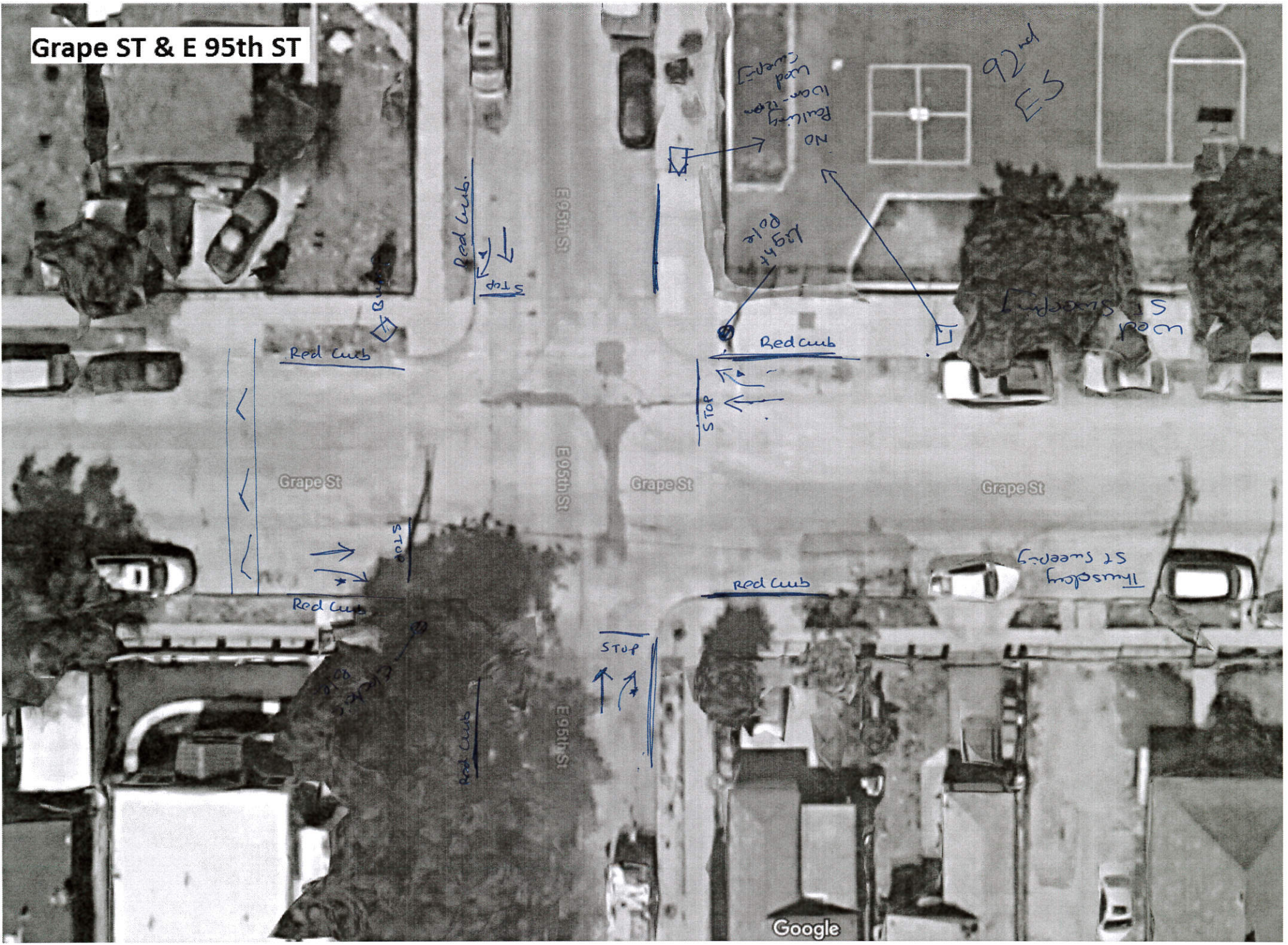
- While off-site improvements are not within LAUSD's jurisdiction, in order to facilitate two-way heavy traffic flow on 95th Street, Grape Street, and Anzac Avenue, one side of curb parking could be removed, or additional pavement width could be provided on each street
- Alternatively, another off-site improvement may entail converting the previously mentioned streets into a one-way couplet, where traffic enters southbound on Anzac Avenue, turns left at 95th Street, then turns left again to northbound Grape Street; one-way travel northbound on Grape Street would eliminate the need for illegal U-turns

APPENDIX A

Field Review Sheets

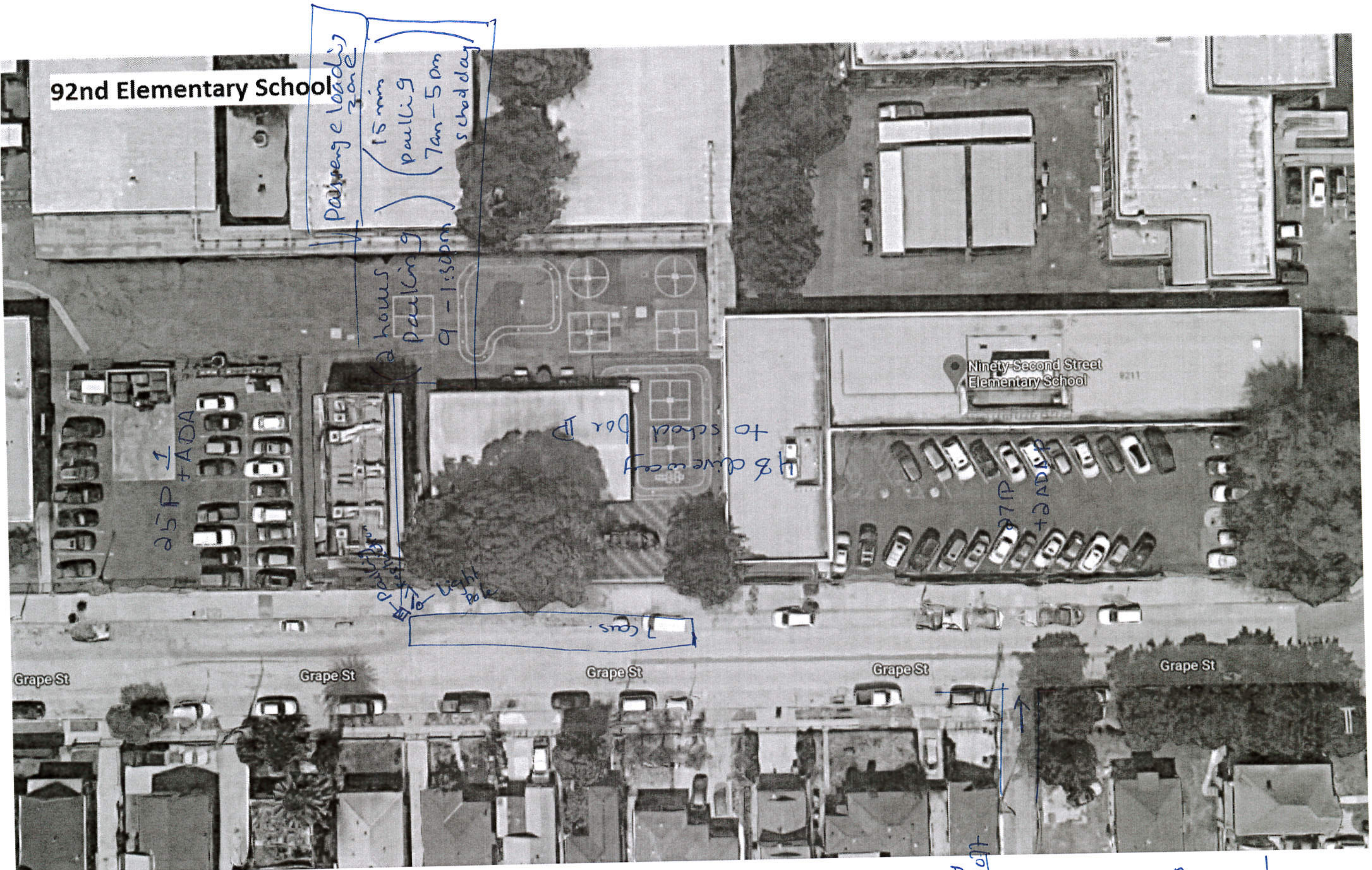
E 95th St and Anzac Ave
Google Earth
© 2018 Google
N
Anzac Ave
Bus Stop
Metro 254
Stop
Stop
Stop
Stop
Stop
Stop
Gate
No parking
(10AM-12NOON
WEDNESDAY)
No parking
10AM-12NOON
Thursday
No parking
10AM-12NOON
Wednesday
No parking
10AM-12NOON
Thursday
School sign
School
Sign
No Parking
Thursday


E 92nd St and Anzac Ave
SPEED LIMIT (25 MPH)
Crosswalk on 92nd/Anzac need school crossing striping
De-facto right turn
Permissive
Obstructed by Trees
Pre-time intersection
Permissive
E 92nd St
Permissive
Bus STOP 254/612
No Parking 8AM-12Noon Wednesday
Permissible
Google Earth
© 2018 Google
N


Grape ST & E 95th ST
Red Curb
STOP
E 95th St
Grape St
Google


92nd ST & Grape ST
Grape ST
Grape St
Light Pole
Bike lane
E 92nd St
Center lane
E 92nd St
E 92nd St
E 92nd St
Bike lane
Crosswalk
NO
Sign
Bike lane
Curb Pa
STOP
Grape St
Bike lane sign
Red curb
STOP sign and SI sign
Iglesia De Dios De Evangelio
Light Pole
Red Curb
Grape St
Google


92nd Street Elementary School
SPEED LIMIT 30 MPH
STOP
27 + 2 ADA
Thursday
Wednesday
Yellow curb from 7:30 - 8:30 AM
≈ 140'
Thursday
No Parking
(WEDNESDAY)
Thursday
STAFF
No Parking 8AM-12Noon (Wednesday)
No Parking
(7AM - 5PM
School Days)
No Parking
Thursday
Anzac Ave
Grape St
N
Google Earth
© 2018 Google



few people used this alley for dropoff

small alley only one car can pass at a time

- There is two guard at K entrance, one is manging kids. other is opening car door for kids. (Grape ST)
- There is Parking restriction on grape ST
- Max que length at Grape ST (K entrance) 7 veh.
- There is seperate lane made by yellow small cone on the curb for non stop movement (about 140')
- People are making U-Turn after dropping their kids at Grape ST to go to 92nd ST.
- Yellow cone removed at 8:00 pm
- red cone put by school ahead of yellow cone for non stop traffic flow.
- school gate (K grade) close at 8:05 pm

deep 077 AM Peak

- No crossing guards.
- Cars don't stop at line.
  - dangerous for kids running across the strets.
- Parents drop off kids at 95th St and at Anzac Ave.
- Sometimes line up but mostly stop an & drop off.
- Anzac Ave no parking 7am-5pm on School Days from ~~7am-3pm?~~ confirm.

Put some cars are still parked.

- Metro bus stop on Anzac Ave #254 Metro.
- Parents stop at intersection of 95th/Anzac Ave.
- Parents (50%) Park and drop off kids on Anzac Ave.
  - but not enough parking so they stop in the middle of the road.
- 95th street is too skipny/not wide enough to have parking on both sides and be a two way unstriped roadway.
- 95th and Anzac Ave becomes a congested busy intersection.
  - need crossing guards.
- parents make u-turn on Anzac Ave.
- vehicles stop at crosswalk to drop off kids.
- gates at Anzac Ave/95th street open at 7:30am.
- conditions are bad at Anzac/95th
- stop bar not enough distance to crosswalk.
- intersection gets better after 8am. 8am school starts.
- school starts at 8:05am.
  - gates close at 8:05am
- school crossing sign mark off Anzac Ave not facing to roadway.
- school crossing sign 95th St obstructed by existing tree.
- Alley/Anzac.
  - Alley gated not important.

PICK UP

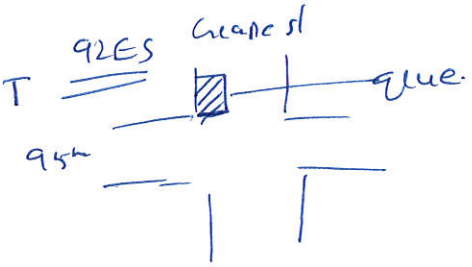
~~AM~~ AM Notes.

PM Peak = Pick Up

- Students get out at 2:20pm
- Parents park at E 95th St, Anzac Ave, & Grape St to pick up students.
- parents stop in the middle and pick-up kids.
- E 95th St is a complete mess because of cars coming in both directions.
  - cars stop ~~and or~~
  - cars go around other cars.
- take at E 95th St/Grape St is easier than E 95th St/Anzac Ave.
- crossing guard
  Morning 7:15 - 8:15
  Afternoon 2:05 - 3:05.
- Peak hour ends @ 2:35 pm.

Pick up ⇒ 2:20pm

- People/parents start double parking from 2:00pm at Grape ST
- blocking ~~red~~ curb parked veh.
- Parking on red curbs.
- making illegal U-Turn on grape ST to go to 92nd ST.
- 10 veh que at 95th and grape ST



- Parking on houses driveway.
- double Parking and leave their car in middle of Street to pick up their Kids.

Ninety-Second Elementary School

School Vicinity Aerial Map

APPENDIX B

Walk Audit Sheets

EXISTING CONDITIONS FIELD ASSESSMENT

PROCEDURE:

Each school location will include a project limit of all streets, intersections and midblock crossings that immediately surround the school grounds. Streets and intersections will be identified prior to the site visit.

OBSERVER: VIVIANNE TABUENA ; TAHA SAKRANI DATE: 9/26/18

LOCATION/WEATHER: OVERCAST (MORNING) - SUNNY (AFTERNOON) TIME: 7AM - 3PM

STREETS:

Anzac Ave, between E 92nd St and E 95th St

Grape St, between E 92nd St and E 95th St

E 95th St, between Anzac Ave and Grape St

E 92nd St, between Anzac Ave and Grape St.

INTERSECTIONS:

Anzac Ave and E 95th St

Grape St and E 92nd St

Grape St and E 95th St

Anzac Ave and E 92nd St.

After the project limit has been determined and aerial has been printed, the following list of items will be recorded or identified as missing:

1. Existing Lane Configurations
   a. Intersections – within reasonable vicinity of school
   b. Street Segments – within reasonable vicinity of school
2. Existing Traffic Signs
3. Locations of Existing Traffic Signals and Street Lighting
4. Locations of Existing Transit Areas
5. Existing Pedestrian and Bicycle Facilities
   a. Bike Lanes
   b. Sidewalks
   c. Crosswalks
   d. Pedestrian Ramps
6. Parking configurations as shown on aerials for:
   a. Administration
   b. Teachers
   c. Students
   d. Visitors
   e. Deliveries
   f. Buses
   g. On-street
7. Pick-up and Drop-off Operation Issues During Peak Periods
8. General Internal and External Circulation Issues

A Road Safety Audit (see attached template) will be conducted as part of each location's assessment.

NEEDS:

- Safety Vest
- Clipboard, pad and pen/pencil
- Geo-referenced digital camera
- Measuring wheel
- Shoes with ankle protection

Anzac Ave. between E 92nd St and E 95th St

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	YES
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	N/A
	3.	Are shoulders/sidewalks provided on both sides?	YES
	4.	Is the sidewalk width adequate for pedestrian volumes?	YES
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	YES
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	YES
	7.	Are ramps provided as an alternative to stairs?	N/A
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	N/A
	2.	Is the path clear from both temporary and permanent obstructions?	YES
	3.	Is the walking surface too steep?	No
	4.	Is the walking surface adequate and well-maintained?	YES
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	YES
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	No
Lighting	1.	Is the sidewalk adequately lit?	YES
	2.	Does the street lighting improve pedestrian visibility at night?	~~No~~ YES Not sure
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	YES
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	No
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	No
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	Other - Not!
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	YES

***For any Result with "N" or "Other", please add notes below:**

1. No bikes were seen while doing ~~fa~~ field work.

STREETS

Topic		Question	Result (Y, N, Other or N/A) A	Result (Y, N, Other or N/A) B
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	Y	Y
	3.	Are shoulders/sidewalks provided on both sides?	Y	Y
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	Y	Y
	7.	Are ramps provided as an alternative to stairs?	NA	NA
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	NA	NA
	2.	Is the path clear from both temporary and permanent obstructions?	Y	Y
	3.	Is the walking surface too steep?	N (Flat)	N(flat)
	4.	Is the walking surface adequate and well-maintained?	Y	Y
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	N	N
Lighting	1.	Is the sidewalk adequately lit? survey in morn	NA	NA
	2.	Does the street lighting improve pedestrian visibility at night? survey in morn.	NA	NA
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians? ~~from No driveway [illegible]~~	Y (2)	NA
	2.	Does the number of driveways make the route undesirable for pedestrian travel? ST to school	Y NA (2.)	NA
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	other (1)	other (1)
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y	Y

***For any Result with "N" or "Other", please add notes below:**

(1) may be because there is no sep of Ped & bicycle

(2) ~~One driveway but mostly closed open once in a blue moon~~

A Cheape ST

B 95th ST

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	Y
	3.	Are shoulders/sidewalks provided on both sides?	Y
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	Y
	7.	Are ramps provided as an alternative to stairs?	NA
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	NA
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	N (flat)
	4.	Is the walking surface adequate and well-maintained?	Y
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	N
Lighting	1.	Is the sidewalk adequately lit?	NA
	2.	Does the street lighting improve pedestrian visibility at night?	NA
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N (only one sidewalk)
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	NA (one driveway)
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	NA (seperate bike lane)
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y

***For any Result with "N" or "Other", please add notes below:**

* 92ND ST

Anzac Ave / 95th St

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	No.
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	No - Not skewed.
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	No
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	No - no crossing guards
	7.	Are marked crosswalks wide enough?	YES - Note 1
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	YES
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	YES needs repaving
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	No - NW side or Northside
	2.	Is the crossing pavement flush with the roadway surface?	YES
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	YES
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	YES
Lighting	1.	Is the pedestrian crossing adequately lit?	No - Note 3
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	YES
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Other - Note 4
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	No
Access Management	1.	Are driveways placed close to crossings?	No
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	YES!
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road? There is stop control but drivers do not drive	No - Note 4
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians? carefully	YES.
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	No
	2.	Are crossing points for pedestrians properly signed and/or marked?	YES
Signals	1.	Are pedestrian signal heads provided and adequate?	N/A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N/A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N/A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N/A
	5.	Are ADA accessible push buttons provided and properly located?	N/A

Stop controlled.

***For any Result with "N" or "Other", please add notes below:**

1. Need crosswalk striping for southside of intersection.
2. Tactile strip needed for NE curb ramp.
3. Street lighting only on NE corner.
4. Drivers can see pedestrian but some drivers not stop at stop bar and stop at crosswalk. Need to stop bar further.

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*	
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N/A (8)	NA
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	NA	NA
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	NA	NA
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N (2)	N (8)
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	NA	NA
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N (3)	NA
	7.	Are marked crosswalks wide enough?	Y	NA
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	NA	NA
	9.	Are crosswalks sited along pedestrian desire lines?	Y	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y	Y
Quality, Conditions, and Obstructions		*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y	NA
	2.	Is the crossing pavement flush with the roadway surface?	Y	NA
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y	NA
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y	NA
Lighting	1.	Is the pedestrian crossing adequately lit?	Only (4)	NA
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y	NA
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y	NA
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	NA	NA
Access Management	1.	Are driveways placed close to crossings?	N (5)	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N (1)	~~N~~ Y
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N (7)	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N	Y
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y	N (9)
Signals	1.	Are pedestrian signal heads provided and adequate?	NA	NA
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	NA	NA
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	NA	NA
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	NA	NA
	5.	Are ADA accessible push buttons provided and properly located?	NA	NA

***For any Result with "N" or "Other", please add notes below:**

(1) STOP and go
(2) Red curb on right turn, enough space SD
(3) NO Guards

A Grape ST & 95th ST
B Grape ST & 92nd ST

(4) survey in many
(5) NO driveway on Grape ST & 92nd ST (school side)
(6) There is bump so veh slow down
(7) Managed by school employee by using cone
(8) NO Ped x

9) Not Sight

Anzac Ave. / 92nd St.

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	No
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	No
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	No
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	No staff/crossing guard
	7.	Are marked crosswalks wide enough?	YES
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	* YES
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	No - No Tactile. strips waiting area.
Quality, Conditions, and Obstructions		*Use questions for Streets for potential issues on obstructions*	
	1.	Is the crossing pavement adequate and well maintained?	YES
	2.	Is the crossing pavement flush with the roadway surface?	YES
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	YES
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	YES
Lighting	1.	Is the pedestrian crossing adequately lit?	YES
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	YES
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	No - Need offset.
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	No
Access Management	1.	Are driveways placed close to crossings?	No
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	No
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	YES -
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	No
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	No
	2.	Are crossing points for pedestrians properly signed and/or marked?	YES
Signals	1.	Are pedestrian signal heads provided and adequate?	YES
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	YES
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	No
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	YES - No push buttons - Always on.
	5.	Are ADA accessible push buttons provided and properly located?	N/A No push buttons.

***For any Result with "N" or "Other", please add notes below:**

- Pretimed Intersection - Cycle length 75 sec. 4 sec Yellow / 1 sec AR.
  - 40 sec EB/WB
  - 26 sec NB/SB
- Pedestrian Always on.

92nd Street

TRANSIT AREAS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Are bus stops sited properly?	Y
	2.	Are safe pedestrian crossings convenient for transit and school bus users?	Y
	3.	Is sight distance to bus stops adequate?	Y
	4.	Are shelters appropriately designed and placed for pedestrian safety and convenience?	N/A - No shelters.
Quality, Conditions, and Obstructions	1.	Is the seating area at a safe and comfortable distance from vehicle and bicycle lanes?	N/A - No seating area
	2.	Do seats (or persons sitting on them) obstruct the sidewalk or reduce its usable width?	N/A
	3.	Is a sufficient landing area provided to accommodate waiting passengers, boarding/alighting passengers, and through/bypassing pedestrian traffic at peak times?	YES
	4.	Is the landing area paved and free of problems such as uneven surfaces, standing water, or steep slopes?	YES
	5.	Is the sidewalk free of temporary/permanent obstructions that constrict its width or block access to the bus stop?	YES
Continuity and Connectivity	1.	Is the nearest crossing opportunity free of potential hazards for pedestrians?	YES
	2.	Are transit stops part of a continuous network of pedestrian facilities?	YES
	3.	Are transit stops maintained during periods of inclement weather?	XX YES
Lighting	1.	Are access ways to transit facilities well-lit to accommodate early-morning, late-afternoon, and evening pedestrian traffic?	YES
Visibility	1.	Are open sight lines maintained between approaching buses and passenger waiting and loading areas?	YES
Traffic Characteristics	1.	Do pedestrians entering and leaving buses conflict with cars, bicycles, or other pedestrians?	No
Signs and Pavement Markings	1.	Are appropriate signs and pavement markings provided for school bus and transit stops?	YES - No school bus.

***For any Result with "N" or "Other", please add notes below:**

Anzac Ave

TRANSIT AREAS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Are bus stops sited properly?	Y
	2.	Are safe pedestrian crossings convenient for transit and school bus users?	Y
	3.	Is sight distance to bus stops adequate?	Y
	4.	Are shelters appropriately designed and placed for pedestrian safety and convenience?	N/A - No shelters
Quality, Conditions, and Obstructions	1.	Is the seating area at a safe and comfortable distance from vehicle and bicycle lanes?	N/A - No seating Area
	2.	Do seats (or persons sitting on them) obstruct the sidewalk or reduce its usable width?	N/A
	3.	Is a sufficient landing area provided to accommodate waiting passengers, boarding/alighting passengers, and through/bypassing pedestrian traffic at peak times?	YES
	4.	Is the landing area paved and free of problems such as uneven surfaces, standing water, or steep slopes?	YES
	5.	Is the sidewalk free of temporary/permanent obstructions that constrict its width or block access to the bus stop?	YES
Continuity and Connectivity	1.	Is the nearest crossing opportunity free of potential hazards for pedestrians?	YES
	2.	Are transit stops part of a continuous network of pedestrian facilities?	YES
	3.	Are transit stops maintained during periods of inclement weather?	YES
Lighting	1.	Are access ways to transit facilities well-lit to accommodate early-morning, late-afternoon, and evening pedestrian traffic?	YES
Visibility	1.	Are open sight lines maintained between approaching buses and passenger waiting and loading areas?	YES
Traffic Characteristics	1.	Do pedestrians entering and leaving buses conflict with cars, bicycles, or other pedestrians?	No
Signs and Pavement Markings	1.	Are appropriate signs and pavement markings provided for school bus and transit stops?	YES - No school bus.

***For any Result with "N" or "Other", please add notes below:**

Northside Parking

PARKING AREAS/ADJACENT DEVELOPMENTS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	YES-Ramp Available
	2.	Are the sidewalks/paths designed appropriately?	YES
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	YES
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	No
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	YES
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	YES
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	YES
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	YES
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	YES
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	No
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	YES
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	YES

***For any Result with "N" or "Other", please add notes below:**

-Parking spaces = 6.

PARKING AREAS/ADJACENT DEVELOPMENTS A

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y
	2.	Are the sidewalks/paths designed appropriately?	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	N
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	~~N/A~~ Yes
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	Y

***For any Result with "N" or "Other", please add notes below:**

A) Grape ST (closed to 95th ST and K grade entrance).

PARKING AREAS/ADJACENT DEVELOPMENTS A

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y
	2.	Are the sidewalks/paths designed appropriately?	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	NA
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	N
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Yes ~~NA (residential area) no separate~~ Facility
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	Y

***For any Result with "N" or "Other", please add notes below:**

W/ Chicago St (close to 92nd St)

APPENDIX C

Selected Photos

Crosswalk striping worn at the east leg (left) and crossing pavement worn and uneven at the north leg of the intersection of Anzac Ave and 95th Street

Parents make illegal U-turns on Grape Street to return to 92nd Street

Parents double park and leave their cars in the middle of Grape Street

Grape Street looking south; deteriorated sidewalks with overgrown brush make use impossible for disabled students or faculty

Faculty and staff double park due to lack of available parking

Modular temporary classroom units sit on top of largely paved over open space

Loading zone/15-minute parking zone is coned off to provide a “valet” curbside service for pick-ups/drop-offs on west side of Grape Street; volunteers open car doors and guide children into the gate

Parents frequently double park to drop children off, despite the “valet” service

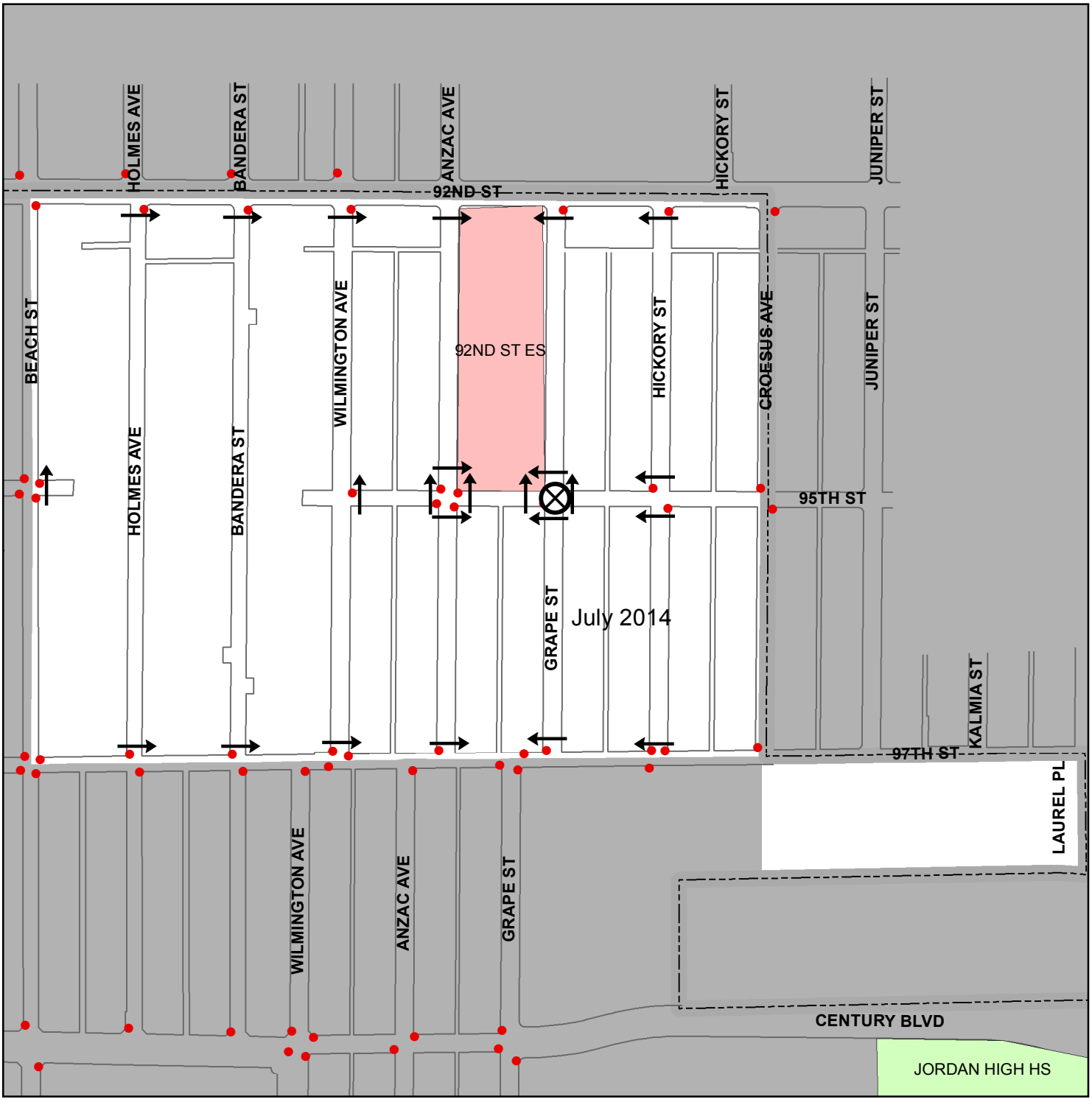
APPENDIX D

Additional Information

CITY OF LOS ANGELES - DEPARTMENT OF TRANSPORTATION

PEDESTRIAN ROUTES FOR NINETY-SECOND STREET ELEMENTARY SCHOOL

September 2016



Legend

- Recommended Crossing
- Stop Sign
- Traffic Signal
- Crossing Guard
- Stairs or Walkway
- Pedestrian Bridge
- Pedestrian Tunnel
- Parks

N W E S

0 150 300

Feet

Parents:

This map shows the recommended crossings to be used from each block in your school attendance area. Following the arrows, select the best route from your home to the school and mark it with a colored pencil or crayon. This is the route your child should take. Instruct your child to use this route and to cross streets only at locations shown. You and your child should become familiar with the route by walking it together. Obey marked crosswalks, stop signs, traffic signals and other traffic controls. Crossing points have been located at these controls wherever possible, even though a longer walk may be necessary. Instruct your child to always look both ways before crossing the street. If no sidewalk exists, your child should walk facing traffic.

Estimados Padres:

Este mapa muestra los cruzados recomendados para los peatones de cada cuadra en la area de su escuela. Siguiendo las flechas en el mapa, selecione la ruta mas segura de su casa a la Escuela y marquelo con un lapis o tiza de color. Esta es la ruta que su hijo (a) debe de usar. Digale a su hijo (a) que use esta ruta y que cruce las calles solamente en los lugares indicados. Usted y su hijo (a) deberian de familiarizarce con esta ruta. Obedezcan los rotulos de peatones, de altos, semaforos y todos los señales de trafico. Puntos para cruzar estan localizados en areas controladas, aunque sea necesario de alargar el tiempo para cruzar. Instruye a su hijo (a) que siempre se fije de los dos lados antes de cruzar la calle. El estudiante debe de siempre caminar en la direccion opuesta del trafico si no existe una banqueta.

24 Hours Traffic Volume

City of Los Angeles

Department of Transportation

Counter	ARMANDO
Date	10/06/08
Start Time	12 AM

Location	**92ND ST AT GRAPE ST**	**Day of Week**	MONDAY	**Prepared**	10/08/08
Direction	E/W STREET	**DOT District**	SOUTHERN	**Counter Mode**	Classifier
Serial Number	RD97593 D	**Weather**	CLEAR		

	NORTHBOUND or WESTBOUND					SOUTHBOUND or EASTBOUND					
Time	1ST QTR	2ND QTR	3RD QTR	4TH QTR	HOUR TOTAL	1ST QTR	2ND QTR	3RD QTR	4TH QTR	HOUR TOTAL	**TOTAL**
12 AM	8	14	9	13	44	9	10	10	4	33	77
1 AM	4	16	6	6	32	10	8	7	8	33	65
2 AM	11	11	12	7	41	8	7	5	7	27	68
3 AM	8	7	3	5	23	9	6	4	15	34	57
4 AM	7	16	15	16	54	9	13	17	19	58	112
5 AM	9	13	24	29	75	23	38	58	50	169	244
6 AM	31	58	78	104	271	49	60	97	101	307	578
7 AM	96	141	179	177	593	155	187	193	184	719	1312
8 AM	152	94	85	67	398	159	82	86	100	427	825
9 AM	77	61	62	56	256	95	77	57	75	304	560
10 AM	56	58	57	77	248	75	79	86	86	326	574
11 AM	62	89	68	104	323	81	100	87	92	360	683
12 NN	90	100	78	92	360	84	81	88	97	350	710
1 PM	80	87	75	91	333	80	105	93	105	383	716
2 PM	87	86	122	116	411	107	119	120	131	477	888
3 PM	115	143	121	151	530	149	149	137	138	573	1103
4 PM	121	146	126	111	504	137	156	138	152	583	1087
5 PM	134	141	139	127	541	163	154	153	175	645	1186
6 PM	123	146	137	132	538	134	144	129	116	523	1061
7 PM	121	116	98	93	428	107	100	83	73	363	791
8 PM	94	85	80	63	322	64	66	55	53	238	560
9 PM	56	59	51	45	211	40	55	49	35	179	390
10 PM	51	52	39	32	174	45	36	26	27	134	308
11 PM	20	18	31	14	83	21	11	11	8	51	134

FIRST 12-HOURS PEAK QUARTER COUNT	**179**	7 AM	3RD		**193**	7 AM	3RD
LAST 12-HOURS PEAK QUARTER COUNT	**151**	3 PM	4TH		**175**	5 PM	4TH
24 HOUR VEHICLES TOTAL		6,793				7,296	**14,089**
TOTAL VEHICLES STANDARD DEVIATION (STD)	[+,-]	182.67			[+,-]	207.70	387.56

PEAK HOURS VOLUME

	NORTH or WEST BOUND		SOUTH or EAST BOUND		BOTH DIRECTIONS	
	PEAK HOUR	VEHICLE VOLUME	PEAK HOUR	VEHICLE VOLUME	PEAK HOUR	VEHICLE VOLUME
First 12H Peak	7 AM	593	7 AM	719	7 AM	**1,312**
Last 12H Peak	5 PM	541	5 PM	645	5 PM	**1,186**
First 12H Peak STD	[+,-]	174.46	[+,-]	205.32	[+,-]	378.73
Last 12H Peak STD	[+,-]	146.03	[+,-]	184.56	[+,-]	327.70