Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

TRANSMITTAL

To: Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Date: March 28, 2018

Leighton Project No. 603378.006

Attention: Mr. Dane Robinson

Transmitted:		The Following:		For:	
____	Mail/Overnight	____	Draft Report	_X_	Your Use
____	Courier	_X_	Final Report	____	As Requested
____	Pick Up	____	Extra Report		
_X_	Email	____	Proposal		
		____			

Subject: Preliminary Environmental Assessment Equivalent (PEA-E) Document, Burroughs Middle School Comprehensive Modernization Project, 600 South McCadden Place, Los Angeles, California, 90005

LEIGHTON CONSULTING, INC.

By: Kris Lutton

Distribution: Addressee

17781 Cowan ▪ Irvine, CA 92614-6009
949.250.1421 ▪ 949.250.1114 Fax

PRELIMINARY ENVIRONMENTAL ASSESSMENT EQUIVALENT DOCUMENT BURROUGHS MIDDLE SCHOOL COMPREHENSIVE MODERNIZATION PROJECT 600 SOUTH MCCADDEN PLACE LOS ANGELES, CALIFORNIA, 90005

Prepared for:

LOS ANGELES UNIFIED SCHOOL DISTRICT

Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Project No. 603378.006

October 5, 2017

Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

October 5, 2017

Project No. 603378.006

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Attention: Mr. Patrick Schanen

Subject: Preliminary Environmental Assessment Equivalent (PEA-E) Burroughs Middle School Comprehensive Modernization Project
600 South McCadden Place, Los Angeles, California, 90005

Leighton Consulting, Inc. is pleased to present this Preliminary Environmental Assessment Equivalent (PEA-E) Document Submission for the subject site which documents historical site land use, outlines the approach and data collected as part of the recently concluded site assessment, and recommends preparation of a Removal Action Workplan (RAW).

If you have any questions regarding this report, please do not hesitate to contact the undersigned at your earliest convenience. We appreciate the opportunity to be of service to the District.

Respectfully submitted,

LEIGHTON CONSULTING, INC.





Kris Lutton, P.G.
Senior Vice President

JCH/KRL/lr

Distribution: Addressee

17781 Cowan ▪ Irvine, CA 92614-6009
949.250.1421 ▪ 949.250.1114 Fax

TABLE OF CONTENTS

Section **Page**

LIST OF ABBREVIATIONS/ACRONYMS III

EXECUTIVE SUMMARY E-1

1.0 INTRODUCTION 1

1.1 Site Description 1
1.2 Background 2
1.3 Regional Geology and Hydrogeology 2
1.4 Environmental Setting 3
1.4.1 School Property 4
1.4.2 Site 4
1.5 Discussion of Phase I ESA Items 4
1.6 Other Environmental Concerns 7

2.0 SAMPLING ACTIVITIES 8

2.1 Objectives 9
2.2 Utility Clearance 9
2.3 Health & Safety Plan 9
2.4 Field Procedures 10
2.4.1 Sample Collection and Analysis 10
2.4.2 Sample Handling and Storage 13
2.4.3 Sample Custody 13
2.4.4 Equipment Decontamination 13
2.5 Laboratory Quality Control 14
2.6 Abandonment of Soil Borings 14
2.7 Investigation Derived Waste Management 14
2.8 Methane Screening in Soil Gas 16

3.0 RESULTS 18

3.1 Soil Type and Groundwater 18
3.2 Soil Analytical Results 19
3.3 Methane Screening Results 26

4.0 HUMAN HEALTH SCREENING EVALUATION 29

5.0 COMMUNITY PROFILE 31

5.1 Community Demographics 31
5.2 Local Participation and Involvement 31

6.0 OPINION OF ENVIRONMENTAL PROFESSIONAL 33

7.0 CONCLUSIONS AND RECOMMENDATIONS 34

TABLE OF CONTENTS (Continued)

8.0 LIMITATIONS..... 35

List of Accompanying Figures, Tables and Appendices

Figure 1 – Site Location Map
Figure 2 – Current and Historical Building and Structure Locations
Figure 3 – Soil Boring Location Map
Figure 4 – Step-Out Soil Boring Location Map, Existing Building 5 and Existing Building 23 (EB5-3, EB5-4 and EB23-2)
Figure 5 – Step-Out Soil Boring Location Map, Existing Building 9 and Vicinity (EB9-1, EB9-6, EB9-7, EB10-2, EB11-1, EB11-2, EB12-1, EB13-1, EB13-2, EB15-1, FB9-1 and FB9-4)
Figure 6 – Step-Out Soil Boring Location Map, Former Building 14 (FB14-1)
Figure 7 – Step-Out Soil Boring Location Map, Existing Building 20 and Former Building 16 (EB-20-6 and FB16-1)

Table 1 – Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Table 2 – Summary of Laboratory Results in Soil for Polycyclic Aromatic Hydrocarbons (PAHs), and Title 22 Metals at Boring EB9-7
Table 3 – Summary of Laboratory Results in Soil for Total Petroleum Hydrocarbons (TPH), and Volatile Organic Compounds (VOCs)

Appendix A – References
Appendix B – Boring Logs
Appendix C – Photographic Log
Appendix D – Laboratory Analytical Reports
Appendix E – Waste Disposal Documentation
Appendix F – Methane Survey Report
Appendix G – ProUCL Output Spreadsheets

LIST OF ABBREVIATIONS/ACRONYMS

ACM	asbestos containing material
AIN	Assessor's ID Number
amsl	above mean sea level
ATL	Advanced Technology Laboratories
Belshire	Belshire Environmental Services, Inc
bgs	below ground surface
Cal/EPA	California Environmental Protection Agency
COPC	Chemical of potential concern
District	Los Angeles Unified School District
DTSC	Department of Toxic Substances Control
Enthalpy	Enthalpy Analytical
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
HASP	Site-specific health and safety plan
HHRA	Human Health Risk Assessment
J&H	J&H Drilling Co. Inc.
LAUSD	Los Angeles Unified School District
LBP	lead-based paint
Leighton	Leighton Consulting Inc.
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
Millennium	Millennium Environmental Inc.
OCPs	Organochlorine Pesticides
OEHS	Office of Environmental Health and Safety
PAHs	Polyaromatic hydrocarbons
PCBs	Polychlorinated Biphenyls
PEA-E	Preliminary Environmental Assessment Equivalent Document
PPE	Personal protective equipment
PQL	Laboratory practical quantitation limit
RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental condition
School property	Burroughs Middle School Campus
Site	Burroughs Middle School Comprehensive Modernization Project
Spectrum	Spectrum Geophysics
STLC	Soluble Threshold Limit Concentration

List of Abbreviations/Acronyms (Continued)

SWRCB	State Water Resources Control Board
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total petroleum hydrocarbons
TTLC	Total Threshold Limit Concentration
UCL	Upper confidence limit
µg/kg	Micrograms per kilogram

EXECUTIVE SUMMARY

This *Preliminary Environmental Assessment Equivalent (PEA-E) Document* summarizes historical site land use, and outlines the approach utilized and data collected as part of the recently concluded assessment conducted for the Burroughs Middle School Comprehensive Modernization Project (the 'Site', Figures 1, 2 and 3). The Site is part of the Burroughs Middle School property (hereinafter also referred to as 'the School property'), located at 600 South McCadden Place, Los Angeles, California, 90005.

The School opened as "John Burroughs Junior High School" in 1924. Since 1924, various construction activities at the Site added and removed various structures, added parking lots and paved areas. From at least 1894 to 1921 the land was undeveloped with the exception of a small building located on the southern portion of the Site adjacent to Wilshire Boulevard (WorleyParsons, 2016).

The majority of the Site is paved and currently developed with three two-story administrative/classroom buildings, 23 single-story multi-purpose buildings that contain such things as classrooms, restrooms, gymnasiums, lounges and storage rooms (Figure 2). Two paved parking areas are located in the northeast corner and the southwest corner of the Site. Two tennis courts are located in the center of the Site. A paved and dirt playground area is located in the southern portion of the Site. The School property is bounded to the north by residential properties across West 6th Street, to the east by residential properties and a commercial building, to the south by residential properties, Wilshire Private School, and commercial buildings across Wilshire Boulevard, and to the west by residential properties across South McCadden Place.

The primary objectives of this PEA-E were to assess soil for potential environmental concerns identified in a Phase I Environmental Site Assessment (ESA) (WorleyParsons, 2016); and to evaluate overall Site health risk based on soil analytical screening results for chemicals of potential concern (COPCs), including lead, arsenic, organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), polyaromatic hydrocarbons (PAH's), and CA Title 22 Metals (CAM-17). Additionally, this PEA-E included a survey to screen for methane in soil gas.

Between December 28, 2016 and July 17, 2017, a total of one hundred and ninety (190) soil borings were advanced using hand auger or direct push drilling methods for the purpose of collecting soil samples in the vicinity of existing and former buildings, a former incinerator and a former aboveground storage tank (AST). A total of six hundred and thirty-two (632) soil samples were collected and select samples were analyzed for COPCs. The initial round of soil sampling conducted between December 28, 2016 and

January 3, 2017, identified lead or arsenic impacts in soil in eighteen (18) borings. Subsequent sampling events conducted April 10-12, 2017 and July 17, 2017 helped to delineate the vertical and lateral extent of lead or arsenic contamination in these eighteen (18) areas with step-out borings (Figure 3). Borings installed in April and July 2017 are referred to as step-outs or step-out borings throughout this report.

In one hundred and eighty-one (181) of the one hundred and ninety (190) soil borings, the target maximum total depth was 2.5 feet below ground surface (bgs), with soil samples typically collected from 0.5, 1.5 and 2.5 feet bgs, to the extent practicable. Seven (7) of the 190 borings were advanced to a target maximum total depth of 4 feet to delineate the vertical extent of arsenic impacts in soil in select areas, with soil samples typically collected at 0.5, 1.5, 2.5, 3 and 4 feet bgs (EB9-6 step-out samples and EB15-1 step-out sample). For one boring installed in the vicinity of a former incinerator (EB9-7), soil samples were collected from target depths of 0.5, 1.5, and 2.5 feet bgs. One (1) boring installed in the vicinity of a former fuel oil AST (EB1-1) was advanced to a target maximum total depth of 10 feet bgs, with soil samples collected from 1, 5 and 10 feet bgs. Select soil samples were analyzed for COPCs. Boring locations are shown on Figures 3 through 7, and analytical soil results are summarized in Tables 1 through 3.

With the exception of arsenic and lead in select borings, the soil matrix analytical results (Tables 1 through 3) indicate that remaining COPCs at the Site were either below detection or below regulatory screening levels. Evaluation of the analytical results presented in this report show the data to be of acceptable quality.

Table 1 identifies boring locations where shallow soil sample results indicate concentrations of arsenic above the DTSC-adopted background concentration of 12 milligrams per kilogram (mg/kg) (DTSC, 2008) and/or lead above the DTSC-modified screening level of 80 mg/kg. No arsenic results exceeded state or federal hazardous waste criteria; therefore, for waste disposal considerations the levels of arsenic in shallow soil are representative of non-hazardous material under California waste disposal regulations, per the California Code of Regulations, Title 22, Chapter 11, Article 3. Lead results in select samples exceeded the state hazardous waste criteria of 1,000 mg/kg Total Threshold Limit Concentration (TTLC) lead or 5 mg/L Soluble Threshold Limit Concentration (STLC)-lead. Therefore, for waste disposal considerations select areas were identified with lead impacts in soil representative of hazardous material under California waste disposal regulations, per the California Code of Regulations, Title 22, Chapter 11, Article 3 (i.e., California-restricted non-Resource Conservation and Recovery Act (non-RCRA) hazardous waste was identified). No areas of Federal RCRA hazardous waste were identified based on the lead and arsenic results (Table 1). Based upon the

findings of the PEA-E and in consultation with the OEHS, the estimated volume of arsenic and lead-impacted shallow soil along with the anticipated waste classification is summarized below:

- Approximately 54 cubic yards (CY) of arsenic and lead-impacted soil with non-hazardous waste classification (Areas A, E, and G shown on Figures 4 and 5)

- Approximately 106 CY of arsenic and lead-impacted soil with California-restricted non-RCRA hazardous waste classification due to elevated lead levels (Areas B, C, D, F, H, I, J, K, L and M shown on Figures 4 through 7)

To screen for methane in soil gas, thirty (30) additional soil borings were advanced between December 23 and 28, 2016 to a maximum total depth of 15.5 feet bgs. Dual methane probes were installed at approximately 5 and 15 feet bgs at each location. Methane sampling events were conducted on January 3 and 16, 2017. Soil samples were not typically collected from methane probe locations; however, in consultation with OEHS, two supplemental soil samples were collected from one location (M-3 at 10 and 12.5 feet bgs) where soil staining (potentially tar sand) was observed. The M-3 soil samples were analyzed for TPH and volatile organic compounds (VOCs), and results from the limited soil sampling at the M-3 location are presented in Table 3. TPH and VOCs in the M-3 samples were either below detection or below regulatory screening levels. Appendix F presents a methane screening report. It is Leighton's understanding that methane issues will be addressed by the District per Los Angeles Department of Building and Safety requirements and regulatory agency requirements, where applicable.

Based on the maximum methane concentrations measured above 12,500 ppm, the Site is a Level V design category per Los Angeles Department of Building and Safety (LADBS) methane regulations (>12,500 ppm at all pressures) (Appendix F).

Based upon the findings presented in this PEA-E study, elevated levels of COPCs were identified at the Site, including arsenic and lead in soil in select areas (Table 1). On behalf of the District, Leighton recommends preparation of a Removal Action Workplan (RAW) to address areas of elevated arsenic and lead in soil at the Site.

1.0 INTRODUCTION

This *Preliminary Environmental Assessment Equivalent (PEA-E) Document (hereinafter also referred to as 'the report')* summarizes historical site land use, and outlines the approach utilized and data collected as part of the recently concluded assessment conducted at the Burroughs Middle School Comprehensive Modernization Project (the 'Site', Figures 1, 2 and 3).

This report was prepared by Leighton Consulting Inc. (Leighton) on behalf of the District in general conformance with various existing guidance documents related to site assessment, characterization and investigation published by the California Environmental Protection Agency (Cal/EPA) – Department of Toxic Substances Control (DTSC, 2015). Pertinent references related to the Site are listed in Appendix A.

1.1 Site Description

The School property is identified by the Los Angeles County Assessor's Office with Assessor's ID Number (AIN) 5507-017-900 and occupies approximately 10.23 acres. The property is owned and operated by the Los Angeles Unified School District (LAUSD) (hereinafter also referred to as 'the District' or LAUSD). The School property is bounded to the north by residential properties across West 6th Street, to the east by residential properties and a commercial building, to the south by residential properties, Wilshire Private School, and commercial buildings across Wilshire Boulevard, and to the west by residential properties across South McCadden Place.

The Site is part of the Burroughs Middle School property (hereinafter also referred to as 'the School property'), which is located at 600 South McCadden Place, Los Angeles, California, 90005. The majority of the Site is paved and currently developed with three two-story administrative/classroom buildings, 23 single-story multi-purpose buildings that contain such things as classrooms, restrooms, gymnasiums, lounges and storage rooms. Two paved parking areas are located in the northeast corner and the southwest corner of the Site. Two tennis courts are located in the center of the Site. A paved and dirt playground area is located in the southern portion of the Site.

1.2 Background

The school opened as “John Burroughs Junior High School” in 1924. Since 1924, various construction activities at the Site added and removed various structures, added parking lots and paved areas. From at least 1894 to 1921 the land was undeveloped with the exception of a small building located on the southern portion of the Site adjacent to Wilshire Boulevard (WorleyParsons, 2016).

WorleyParsons completed a Phase I Environmental Site Assessment (ESA) for the School Property in May 2016. Findings from the Phase I ESA are discussed in Section 1.5, below.

The current Site contact related to the environmental matters is listed below:

Mr. Dane Robinson
Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

1.3 Regional Geology and Hydrogeology

Geologic Setting: Locally, the Site is located in the Hollywood Basin within the central block of the Los Angeles Basin, a structural trough, characterized as a northwest-trending alluviated lowland plain approximately 50 miles long and 20 miles wide. The Santa Monica Mountains, Beverly Hills and Elysian Hills that generally expose Late Cretaceous to Late Pleistocene-age sedimentary and igneous rocks bound the Hollywood Basin along the north, northeast and east (Yerkes, 1965).

The sediments deposited in the Hollywood Basin have subsequently been faulted and folded during uplift of the Santa Monica Mountains and contraction of the basin (Tsutsumi et al., 2001; Catchings et al., 2001). Uplift of the Santa Monica Mountains is occurring along a zone of faults that comprise the Santa Monica Fault System, and include the Malibu Coast, Santa Monica and the Hollywood faults (Tsutsumi et al., 2001; Catchings et al., 2001; Dolan, et al., 2000). Deformation caused by the Hollywood Fault of the near-surface sediments has resulted in the formation of the Hollywood Basin. The Hollywood Basin is situated between the Hollywood fault and the Santa Monica Mountains on its north, and a subsurface fold to the south, known as the Wilshire Arch, located near Wilshire Boulevard

(Dolan et al., 1997 and 2000; Hildenbrand et al., 2001; Hummon et al., 1994; California Department of Water Resources, 1988).

The Site, southeast of the Salt Lake Oilfield, is underlain by surficial sediments consisting generally of clay, sand and gravel including gravel of minor stream channels (Dibblee, 1991). Older surficial sediments underlying the site can be expected to consist generally of unconsolidated to weakly consolidated, dissected alluvial fan sediments consisting chiefly of clay, silt, sand and gravels overlying the Lakewood and San Pedro Formations. At depth, petroliferous sands (tar sand) present within the San Pedro Formation can be expected.

Groundwater: The Site lies within the northeastern part of the Coastal Plain at an approximate elevation of 209 feet above mean sea level (amsl) (USGS, 1972) and located within the Hollywood sub-basin. This groundwater basin is bound on the north by the Santa Monica Mountains and the Hollywood fault, on the east by the Elysian Hills and on the west by the Newport-Inglewood fault zone. Southerly, the basin is bound by anticlinal structure termed the La Brea High were the San Pedro formation was eroded prior to deposition of the Lakewood Formation. This anticlinal structure brings less permeable bedrock close to the surface forcing groundwater to shallow depths primarily within the Pleistocene sands and gravels. Based on the approximate site elevation (El. 209 feet) and depth to groundwater recorded at 5020 to 5044 Wilshire Boulevard (1,000 feet southwest of the site) groundwater is likely to occur at approximate elevations (El.) 189 feet to El. 186 feet (Western Environmental Engineers Company, 2006). These elevations suggest groundwater may be encountered beneath the Site at approximately 20 to 23 feet below grade.

1.4 Environmental Setting

A Phase I ESA was completed for the School property on May 18, 2016 by WorleyParsons (WorleyParson, 2016). The purpose of the Phase I ESA is to identify recognized environmental conditions (RECs) in order to assist in the evaluation of historical land use, assess potential environmental impacts on- and off-site, and determine if any potential environmental impacts may pose a threat to on-site occupants, off-site individuals and the environment. Information pertaining to the Site as determined by the Phase I ESA is summarized below.

1.4.1 School Property

The Phase I ESA includes a review of historical aerial photographs, topographic maps and Sanborn® maps for the School property. According to the Phase I ESA, historical use of the School property from at least 1928 to 1940 included an arboretum with a single-family dwelling located in the center portion of the property. The property was purchased by LAUSD in 1949, and has operated as a school since approximately 1951. Currently, the majority of the School property is paved and is developed with various school buildings, intermodal containers used for storage, playground areas and an animal sanctuary. The findings of the Phase I ESA are discussed in Section 1.5, below.

1.4.2 Site

WorleyParsons identified RECs for the Site (WorleyParsons, 2016). Identified RECs include the potential presence of lead based paint (LBP) residue, organochlorine pesticide (OCP), and arsenic in soils at the Site; asbestos containing material (ACM) in the Site building materials, the historical presence of a heating oil aboveground storage tank (AST) on-Site, the historical presence of an incinerator on-Site, and the former presence of two nearby off-site gasoline service stations.

Based on the Phase I ESA's investigation of historical aerial images, topographic maps, site reconnaissance, and fire insurance maps, existing and former building footprints were identified within the proposed development area at the Site (WorleyParsons, 2016). Existing and former building footprints are shown on Figure 2.

The District plans to redevelop the Site as part of the Burroughs Middle School Comprehensive Modernization Project. Leighton was contracted by the District to complete a PEA-E study to address potential soil contamination identified in the Phase I ESA and screen for methane in soil gas.

1.5 Discussion of Phase I ESA Items

The Phase I ESA found no evidence of the storage or release of hazardous materials during the on-site inspection at the School property with the exception of

the storage of small quantities of janitorial supplies and a 55-gallon steel drum containing gasoline, stored in a flammable materials storage building located southeast of Building No. 9 (Shop Building). Staining on the concrete floor adjacent to this drum was observed during the reconnaissance inspection. During review of regulatory databases, the John Burroughs Middle School is identified as a large quantity hazardous waste generator; as a result of past school renovation activities, which included the abatement of asbestos and polychlorinated biphenyls (PCB)-containing equipment. According to Mr. Martin Nevarez, the Site Plant Manager, these wastes are not and have not been disposed at the Site. Based on the site reconnaissance and records reviewed as part of the Phase I ESA, WorleyParsons identified the following RECs associated with the Site:

- Potential presence of LBP residue in shallow soils around the drip lines of the existing and former buildings at the Site.
- Potential presence of OCP in shallow soils around the foundations of the existing and former buildings at the Site.
- Potential presence of arsenic in shallow soils under pavement at the Site.
- Potential presence of ACM in Site building materials.
- Potential presence of hydrocarbons in groundwater due to the historical presence of two gasoline service stations approximately 60 and 250 feet west of the Site.
- Potential presence of petroleum products in soil and groundwater due to the historical presence of a heating oil AST located adjacent to Building No. 1 (Main/Auditorium Building).
- Potential presence of burn ash in soils due to the historical presence of an incinerator located adjacent to Building No. 9 (Shop Building).

Based on the age of the existing Site buildings, it is possible that LBP has been applied to the exterior finishes of the buildings. As such, it is possible that LBP residue is present in soils around the perimeters of the existing and former buildings (WorleyParsons, 2016). DTSC guidance indicates that LBP residue from paint or surface coatings may be present in soil around school structures that are

adjacent or near unpaved areas where runoff could occur and were constructed prior to January 1993 (DTSC, 2006).

It is possible that OCPs in the form of termiticides have been applied around the foundations of these Site buildings or in the areas (WorleyParsons, 2016). OCPs were commonly used as insecticides for termite control, around structures between 1948 and 1989 (DTSC, 2006).

There is the potential presence of arsenic underneath pavement that may have been applied as an herbicide (WorleyParsons, 2016).

Based on the age of the existing Site buildings, it is possible that ACM are present in building materials (WorleyParsons, 2016).

Two “oil and gas” service stations were located west of the Site (approximately 60 feet west of the Site and cross/upgradient with respect the reported groundwater flow direction), at the northwest intersection of South McCadden Place and Wilshire Boulevard and at the northeast corner of South Highland Avenue and Wilshire Boulevard, from at least 1938 to at least 1964. Based on their location relative to the Site, it is possible that groundwater beneath the Site has been impacted by releases of petroleum hydrocarbons at these facilities (WorleyParsons, 2016).

A heating oil AST was located on the Site adjacent to the east of Building No. 1 (Main/Auditorium Building). Based on this, it is possible that leaks or spills from this tank have impacted soil and groundwater at the Site (WorleyParsons, 2016).

An incinerator, presumably for solid waste, was located on the Site near the southwest corner of Building No. 9 (Shop Building). Based on this, it is possible that adjacent soils have been impacted by burn ash containing combustion by-products such as polycyclic aromatic hydrocarbons (PAHs), furans, and heavy metals (WorleyParsons, 2016).

A hazardous material property condition survey was recommended in the Phase I ESA to identify and quantify hazardous construction-related materials (ACM, LBP, mold, PCBs, mercury, tritium, radium and universal wastes). The hazardous material survey is not part of Leighton’s scope for this PEA-E study.

Leighton was contracted by the District to complete a PEA-E study to address soil concerns identified in the Phase I ESA, specifically to collect soil samples near

former and existing buildings at the Site and analyze select samples for lead, OCPs, arsenic, PCBs, petroleum hydrocarbons, PAH's, and CA Title 22 metals (CAM-17). Where elevated levels of chemicals of potential concern (COPCs) are identified, a human health risk screening assessment is included to determine if the levels may pose a risk to future Site occupants.

1.6 Other Environmental Concerns

PCBs were used widely in caulking and elastic sealant materials, particularly from 1950 through the 1970s until PCBs were banned in 1979. DTSC guidance indicates that PCBs may exist in soil near exterior caulking present in buildings meeting the age criteria and adjacent to unpaved areas (DTSC, 2006). PCBs in shallow soil are commonly evaluated at the Phase I ESA Addendum/PEA-E stage of assessment at school sites that meet the age criteria. Although not identified as a COPC in soil by WorleyParsons, screening for PCBs was included in the PEA-E for select samples, as defined in the PEA-E Scope of Services (OEHS, 2016).

Information provided by the City of Los Angeles NavigateLA Web site, the Los Angeles Department of Building and Safety (LADBS), and the City's Public Works Departments, indicates that the Site lies within a City of Los Angeles designated methane zone. The Salt Lake Oil Field lies approximately 1,500 feet north of the Site and 2,000 feet west of the Site. One plugged oil and gas production well is also located approximately 1,300 feet west/southwest of the Site (API 03720045). Based on this, the Project may create a new or exacerbate an existing significant safety hazard to students from a known methane zone. Screening of soil gas for methane was included in the PEA-E, per the PEA-E Scope of Services (OEHS, 2016).

2.0 SAMPLING ACTIVITIES

The PEA-E field sampling activities presented herein were conducted between December 23, 2016 and July 17, 2017 and included soil sampling and a survey to screen for methane in soil gas. Soil sampling was designed to assess lead, arsenic, OCPs, PCBs, TPH, PAHs, and CA Title 22 Metals, which were the COPCs identified in soil at the Site. The soil sampling consisted of the collection of select soil samples at specific depths to screen soil for COPCs. Appendix B contains boring logs and boring locations are shown on Figures 3 through 7. Appendix C contains a photographic log showing representative soil boring locations from the sampling event. Section 2.8 includes discussion of the methane survey, including methane sampling events conducted on January 3 and 16, 2017.

Between December 28, 2016 and July 17, 2017, a total of one hundred and ninety (190) soil borings were advanced using hand auger or direct push drilling methods for the purpose of collecting soil samples in the vicinity of existing and former buildings, a former incinerator and a former AST. The initial round of soil sampling conducted between December 28, 2017 and January 3, 2017, identified lead or arsenic impacts in soil in eighteen (18) borings. Subsequent sampling events conducted April 10-12, 2017 and July 17, 2017 helped to further delineate the vertical and lateral extent of lead or arsenic contamination in these eighteen (18) areas (Figures 3 through 7). Borings installed in April and July 2017 are referred to as step-outs or step-out borings throughout this report.

In one hundred and eighty-one (181) of the one hundred and ninety (190) soil borings, the target maximum total depth was 2.5 feet below ground surface (bgs), with soil samples typically collected from 0.5, 1.5 and 2.5 feet bgs, as practicable. Seven (7) of the 190 borings were advanced to a target maximum total depth of 4 feet to delineate the vertical extent of arsenic impacts in soil in select areas, with soil samples typically collected at 0.5, 1.5, 2.5, 3 and 4 feet bgs (EB9-6 step-out samples and EB15-1 step-out sample). For one (1) boring installed in the vicinity of a former incinerator (EB9-7), soil samples were collected from target depths of 0.5, 1.5, and 2.5 feet bgs. One (1) boring installed in the vicinity of a former fuel oil AST (EB1-1) was advanced to a target maximum total depth of 10 feet bgs, with soil samples collected from 1, 5 and 10 feet bgs. Select soil samples were analyzed for COPCs. Boring locations are shown on Figures 3 through 7, and analytical soil results are summarized in Tables 1 through 3.

Sampling activities consisted of the following components discussed below.

2.1 Objectives

The primary objectives of this PEA-E were:

- To assess soil for potential environmental concerns identified in the Phase I ESA for the Site; and
- To evaluate the overall Site health risk based on soil analytical screening results for COPCs, including lead, arsenic, OCPs, PCBs, TPH, PAHs, and CA Title 22 Metals.
- To screen soil gas beneath the Site for the presence of oil field gases and determine the design level of mitigation required.

2.2 Utility Clearance

Prior to collecting the soil samples, Underground Service Alert (USA) was notified more than 48-hours prior to initiation of field sampling activities for marking subsurface utilities in and around the Site. The Site boring locations were clearly marked with white water-base chalk paint on December 20, 2016, April 1, 2017 and June 26, 2017 prior to USA notification. Also on December 27, 2016, April 1, 2017, and June 26, 2017 Spectrum Geophysics completed a geophysical survey to identify potential underground utilities or obstructions in conflict with the soil boring locations. Leighton reviewed an ALTA survey map (Surveying and Drafting Services, Inc., 2016) provided by the District indicating the anticipated locations of known sub-surface utilities at the School property prior to field activities in an effort to avoid encountering potential subsurface utilities during advancement of borings sampling. Based on the geophysical survey and ALTA survey, select proposed boring locations were adjusted in the field where necessary to minimize risk to damaging underground utilities.

2.3 Health & Safety Plan

A Site-specific health and safety plan (HASP) was prepared for the field activities. The HASP addressed issues regarding chemical exposure, personal protective equipment (PPE), physical and biological hazards that might be expected at the Site, an emergency response plan, and route to the nearest hospital. Site personnel engaged in field activities were required to read and sign the HASP.

Subcontractor(s) were required to prepare and follow their own HASP during field activities, considering the Site-specific conditions.

2.4 Field Procedures

Collection of environmental samples of high integrity is important to the quality of chemical data to be generated. To this end, strict field procedures have been developed. General descriptions of field methods that were employed at various locations during various phases of the field investigation are described below.

2.4.1 Sample Collection and Analysis

Soil borings were advanced by Millennium Environmental, Inc. (Millennium), a State of California licensed driller, using hand-auger tools or direct-push drilling methods (Appendix B). Additionally, J&H Drilling (J&H), a State of California licensed driller, advanced soil borings using hand-auger tools or direct-push drilling methods and installed methane probes on December 28, 2016. The addition of J&H to complete drilling on December 28, 2016 was necessary due to difficult drilling conditions encountered and to complete sampling within the winter break. Asphalt or concrete pavement was cored by the respective driller prior to advancing the soil borings. Each boring was advanced to the maximum target depth or refusal. When refusal was encountered up to three additional attempts were made to advance a soil boring to the target depth in the vicinity of the original attempted boring location. Lithologic information and soil descriptions from the soil borings were recorded by Leighton's on-Site staff and reviewed by a State Certified Professional Geologist. Boring Logs are provided in Appendix B.

Specific sampling approaches are outlined below and sample analyses with corresponding sample depths are shown in Tables 1 through 3:

- Between December 28, 2016 and July 17, 2017, a total of one hundred and ninety (190) soil borings were advanced using hand auger or direct push drilling methods for the purpose of collecting soil samples in the vicinity of existing and former buildings, a former incinerator and a former AST. The initial round of soil sampling conducted between December 28, 2017 and January 3, 2017, identified lead or arsenic impacts in soil in eighteen (18) borings. Subsequent sampling events conducted April 10-12, 2017 and July 17, 2017 helped to further

delineate the vertical and lateral extent of lead or arsenic contamination in these areas.

- Discrete soil samples were obtained from target depths from each boring and analyzed for the relevant COPCs, as summarized in Tables 1 through 3. Depths were measured from the top of the asphaltic concrete, if present. Gravel base located below the AC was not included in the sample, if present. Soil samples were collected in laboratory supplied 8-ounce glass jars or driller-provided acetate sleeves.

- For one hundred and eighty-one (181) of the soil borings, soil samples were collected from target depths of 0.5, 1.5, and 2.5 feet bgs, to the extent practicable. The upper 0.5 feet and 1.5 feet bgs samples were analyzed for lead, OCPs, arsenic and/or PCBs. The 2.5 feet bgs samples near former buildings were also analyzed for lead, OCPs and arsenic. Approximately 10% of the samples collected (excluding step-outs) were analyzed for PCBs based on field observations and discussions with District personnel. The 2.5 feet bgs samples near existing buildings were placed on hold, which were intended to allow analysis in a tiered fashion for vertical delineation of soil contamination, such that the deeper 2.5 feet bgs samples would be analyzed if shallow sample results revealed significant concentrations of lead, arsenic or other OCPs. Select 2.5 feet bgs samples near existing buildings were analyzed based on the shallower results and step-out samples were analyzed for the COPC that was potentially elevated in the vicinity of the original nearby boring (lead or arsenic).

- Seven (7) step-out borings were advanced to a target maximum total depth of 4 feet to delineate the vertical extent of arsenic impacts in soil in select areas, with soil samples typically collected at 0.5, 1.5, 2.5, 3 and 4 feet bgs (EB9-6 step-out samples and EB15-1 step-out sample). These samples were analyzed for arsenic.

- For one (1) boring installed in the vicinity of a former incinerator (EB9-7), soil samples were collected from target depths of 0.5, 1.5, and 2.5 feet bgs. Boring EB9-7 samples were analyzed for PAHs, PCBs, and Title 22 metals.

- One (1) boring installed in the vicinity of a former fuel oil AST (EB1-1) was advanced to a target maximum total depth of 10 feet bgs, with soil samples collected from 1, 5 and 10 feet bgs. The samples from EB1-1 were analyzed for TPH.

- Boring locations are shown on Figures 3 through 7, and analytical soil results are summarized in Tables 1 through 3.

- Field duplicate samples were collected during the PEA-E sampling activities at an approximate ratio of 1 duplicate sample for every 10 original samples. The duplicate sample was collected immediately after the original sample. Due to the heterogeneity of the soil matrix the results for duplicate samples may vary from the results of the original sample. The duplicate samples were analyzed for the same parameters as the original samples collected from the same boring and similar interval.

- An equipment rinsate blank was collected from the reusable sampling equipment (hand auger) each field day, typically. The equipment blank was collected by pouring distilled water over the cleaned and rinsed hand auger bucket and collecting the poured water in laboratory supplied sample container(s). The equipment blank sample was analyzed for the same parameters as the soil matrix sample(s) collected during the investigation.

Select samples were analyzed for the following compounds:

- Arsenic and/or Lead by EPA Method 6010B,
- OCPs by EPA Method 8081A,
- PCBs by EPA Method 8082,
- TPH-carbon chain (TPH-cc, C4-C40) by EPA 8015M,
- Title 22 Metals by EPA 6000/7000,
- PAHs by 8270SIM,
- Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP) Lead by EPA Method 6010B (where the Total Threshold Limit Concentration (TTLC) Lead result was greater than 50 mg/kg), and/or

- STLC and TCLP Arsenic by EPA Method 6010B (where the TTLC Arsenic result was greater than 50 mg/kg).

2.4.2 Sample Handling and Storage

In the field, each sample container was marked with their unique sampling location number, date and time of sample collection. Each of the sample containers were wiped with clean paper towels, sealed in a plastic bag, and securely packed in a cooler on ice, in preparation for delivery to the laboratory.

2.4.3 Sample Custody

An entry was made on a chain-of-custody form supplied by the laboratory for each sample that was submitted to the laboratory for analysis. The information recorded included the sampling date and time, sample identification number, matrix type, requested analyses and methods, preservatives, and the sampler's name. Sampling team members maintained custody of the samples until they were relinquished to laboratory personnel or professional courier service. The cooler was appropriately sealed before it was relinquished to laboratory personnel. The chain-of-custody form accompanied the samples from the time of collection until received by the laboratory. Each party in possession of the samples signed the chain-of-custody form signifying receipt.

Collected soil samples were transported using standard chain-of-custody protocol to Advanced Technology Laboratories (ATL) of Signal Hill, California, an analytical testing laboratory accredited by the California Department of Public Health (CDPH). Upon receipt, the laboratory inspected the condition of the sample containers and reported the information on chain-of-custody or similar form.

A copy of the original completed chain-of-custody form was provided by the laboratory along with the report of results. Appendix D contains copies of the laboratory analytical reports.

2.4.4 Equipment Decontamination

Any equipment that came into contact with potentially contaminated materials was decontaminated consistently to assure the quality of samples

collected. Disposable equipment intended for one-time use was not decontaminated, but was packaged for appropriate disposal. Decontamination occurred prior to and after each use of a reusable piece of equipment. The sampling devices used (e.g., hand auger, drilling equipment) were decontaminated using the following procedures:

- Non-phosphate detergent and tap water scrub, using a brush if necessary;
- Tap water rinse; and
- Final deionized/distilled water rinse.

2.5 Laboratory Quality Control

The laboratory data package provided includes quality control sample results for blanks, matrix spike/matrix spike duplicates, surrogate recoveries, and laboratory control samples/laboratory control sample duplicates, as specified by the method. The laboratory also provided narrative stating whether or not quality control guidelines were met and listed discrepancies and laboratory data qualifiers. The laboratory reports containing the quality control results are included in Appendix D.

2.6 Abandonment of Soil Borings

Upon completion of sampling, all soil borings were backfilled with native soil (soil cuttings) and tamped per the request of the District personnel. Boring locations were resurfaced with concrete dyed black to match existing asphalt hardscape, as applicable.

2.7 Investigation Derived Waste Management

In the process of collecting environmental samples during the PEA-E activities, different types of potentially contaminated Investigation Derived Waste (IDW) were generated that included used PPE, disposable sampling equipment, excess soil cuttings, and decontamination fluids.

Listed below are the procedures that were followed for handling the IDW:

- Used PPE and disposable equipment were double bagged and placed in a municipal refuse dumpster. These wastes are not considered hazardous and could be sent to a municipal landfill.

- Remaining soil cuttings (not used as backfill) and decontamination wastewater were placed in US Department of Transportation (DOT)-approved 55-gallon drums. The drums were labeled and sealed, pending receipt of analytical results, waste profiling and off-Site disposal.

Four 55-gallon drums containing IDW were generated during the PEA-E. Grab samples were collected directly from the 55-gallon drums containing IDW on December 29, 2016 (Sample ID "DRUM1"), January 3, 2017 (Sample ID "DRUM-LIQUID"), April 13, 2017 (Sample ID "DRUM-1"), and July 17, 2017 (Sample IDs: "IDW-S" and "IDW-L"). IDW sampled on April 13, 2017 and July 17, 2017 were combined into one drum, and the July 17, 2017 samples were used for profiling purposes for that drum. Laboratory reports are provided in Appendix D. IDW samples were analyzed for the following compounds:

- California Code of Regulations (CCR) Title 22 Code of Administrative Manual (CAM) 17 metals (CAM 17 metals) by EPA Method 6010B/7471A,

- OCPs by EPA Method 8081A, and

- Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and Oil Range Organics (ORO) by EPA Method 8015B.

Additionally, the July 17, 2017 "IDW-S" sample was also analyzed for lead using the Waste Extraction Test for STLC and TCLP by EPA Method 6010B, because the TTLC lead result in this sample was greater than 50 mg/kg. With the result below the STLC and TCLP regulatory limits of 5 mg/L, the material is considered non-hazardous under California waste disposal regulations, per the California Code of Regulations, Title 22, Chapter 11, Article 3.

The IDW sample results indicate that the IDW is classified as nonhazardous waste. Two drums containing soil cuttings and one drum containing sample equipment decontamination water were removed from the Site on January 6, 2017 by Belshire Environmental Services Inc. (Belshire). One drum containing soil cuttings and decontamination water was removed from the Site on September 8, 2017 by Belshire. The three drums containing soil cuttings were transported to US Ecology in Beatty, Nevada for disposal. The one drum containing water only was

transported to Demenno Kerdoon in Compton, California for disposal. Appendix E provides waste disposal documentation.

2.8 Methane Screening in Soil Gas

To screen for methane in soil gas, thirty (30) soil borings were advanced between December 23 and 28, 2016 to a maximum total depth of 15.5 feet bgs. Dual methane probes were installed at approximately 5 and 15 feet bgs at each location. Appendix F summarizes results of methane in soil gas screening, including sampling events on January 3 and 16, 2017. It is Leighton's understanding that methane issues will be addressed by the District per Los Angeles Department of Building and Safety requirements and regulatory agency requirements, where applicable.

Soil samples were not typically collected from methane probe locations; however, in consultation with OEHS, two supplemental soil samples were collected from one location (M-3 at 10 and 12.5 feet bgs) where soil staining (potentially tar sand) was observed. The M-3 soil samples were analyzed for TPH and volatile organic compounds (VOCs), and results from the limited soil sampling at the M-3 location are presented in Table 3. TPH and VOCs in the M-3 samples were either below detection or below regulatory screening levels. TPH and VOCs were not identified at levels of concern at M-3 and VOCs were not identified as a COPC for the Site.

Upon reaching the total target depth, soil vapor probes were installed per the DTSC *Advisory Active Soil Gas Investigations* dated July 2015. Soil vapor probes were installed at approximately 5 and 15 feet bgs in each location for a total of 60 soil vapor probes. Details of soil vapor probe installation include:

- Dual-nested soil gas probes were installed at approximate target depths of 5 and 15 feet bgs in each boring.

- A small-diameter, inert Nylaflow tube with an attached sampling filter was inserted into each probe upon reaching desired depths. Displaced annular space was back-filled above and below each installed sampling probe for a total of approximately one vertical foot of sand filter-pack. Hydrated granular bentonite was placed from the top of the sand filter pack up to existing grade or 6-inches below the next probe depth. Sand filter-pack and bentonite placement were repeated as necessary until all probes were installed. The

probes were sealed with bentonite for a minimum of 48 hours prior to sample collection.

- Two rounds of sampling for methane and hydrogen sulfide in soil gas were conducted at each probe in accordance with the *Advisory Active Soil Gas Investigations* (July 2015):
  - Sampling took place after the appropriate equilibration time
  - Prior to sampling, tubing or probe pressure was recorded in the field logs and each probe was purged a minimum of three tubing volumes prior to collecting soil gas samples.
  - Samples were then extracted at a rate of approximately 200 milliliters per minute using a Xitech 1-Liter bag sampler and transferred into Tedlar bags.
  - Field monitoring of samples collected in the Tedlar bags was conducted for oil field gases utilizing a pre-calibrated Landtec GEM-2000 Plus, Jerome 631-X H2S Analyzer, and a Photovac MicroFID.
- Approximately 10% of soil gas samples were placed in new 1-L Tedlar bags, protected from ultra-violet light in a black protective bag, and transported using chain-of-custody protocol to Enthalpy Analytical (Enthalpy) a California Department of Public Health, Environmental Laboratory Accreditation Program-certified laboratory for analysis for methane and hydrogen sulfide, as follows:
  - Methane by EPA 8015 analyzed within 24 hours of collection, and
  - Hydrogen Sulfide by ASTM D5504M analyzed within 24 hours of collection.
- Upon completion of soil gas sampling and with OEHS approval, soil gas sampling points will be decommissioned in accordance with the *Advisory Active Soil Gas Investigations* (July 2015).

3.0 RESULTS

The following sections provide discussion of PEA-E results.

3.1 Soil Type and Groundwater

The limited subsurface investigation conducted at the Site included a total of one hundred and ninety (190) soil borings to facilitate soil sampling and thirty (30) soil borings to facilitate methane probe installation (Appendix B).

A majority of soil borings were completed in paved areas consisting of 3-4 inches of asphaltic concrete with the exception of borings completed on the athletic field and the locations adjacent to the southern margin of the Site. Soil logging within shallow boreholes, up to 2.5 feet bgs, generally consisted of fine-grained soils of predominantly silt and clay with varying amounts of fine to medium-grained sand as a secondary component. Deeper borings, or methane probe locations, completed to approximately 15.5 feet bgs encountered similar native fine-grained soils dominated by silt and clay. Artificial fill materials were identified in several deeper boring locations (M-3, M-8, M-9) primarily based on the coarse nature of the soil and presence of construction debris, brick or asphalt, observed between 0.5 and 11.5 feet in specific locations.

Varying levels of naturally occurring bitumen or tar were noted in soil from 10 methane probe locations including M-1, M-2, M-12, M-13, M-14, M-23, M-24, M-25, M-26, and M-30. These locations were generally located in the southern half of the Site and/or near the eastern Site boundary. Observations ranged from gray to black soil coloration with a distinct tar-like odor to soil saturated with black, viscous bitumen. Soils that exhibited these characteristics were noted as “bituminous” in the methane probe construction log. Natural deposits of bitumen are not uncommon for this area as seen in the nearby La Brea Tar Pits, which is located approximately one mile west of the Site. Soils exhibiting the presence of bitumen were generally encountered at depths greater than 5 feet below grade.

Groundwater was not encountered in the borings completed during this investigation with the exception of boring location M-30. The M-30 boring was advanced to 15.5 feet bgs and soil was noted as “moist” during drilling from 9 feet to total depth. Upon reaching total depth, the drill rod was removed from the borehole and water was observed pooling in the bottom of the borehole up to approximately 12 feet bgs. Methane probes were set at 5 feet bgs and 9.5 feet

bgs at location M-30. This occurrence is likely an isolated zone of perched groundwater related to irrigation water infiltration taking place on the athletic field. Groundwater was not observed in any of the remaining borings installed between December 23, 2016 and July 17, 2017.

3.2 Soil Analytical Results

Between December 28, 2016 and July 17, 2017, a total of one hundred and ninety (190) soil borings were advanced using hand auger or direct push drilling methods for the purpose of collecting soil samples in the vicinity of existing and former buildings, a former incinerator and a former AST (Figures 3 through 7). Tables 1 through 3 summarize data collected during the PEA-E from these soil borings at various depths, as follows:

The soil matrix analytical results indicate the following for screening for Arsenic, Lead, OCPs and/or PCBs at one hundred and eighty-eight (188) total soil borings in the vicinity of existing and former buildings (Table 1):

- One hundred and eighty-one (181) soil borings, were advanced to a target maximum total depth of 2.5 feet below ground surface (bgs), with soil samples typically collected from 0.5, 1.5 and 2.5 feet bgs, to the extent practicable. Seven (7) step-out borings were advanced to a target maximum total depth of 4 feet to delineate the vertical extent of arsenic impacts in soil in select areas, with soil samples typically collected at 0.5, 1.5, 2.5, 3 and 4 feet bgs (EB9-6 step-out samples and EB15-1 step-out sample).

- An initial round of soil sampling conducted between December 28, 2017 and January 3, 2017, identified lead or arsenic impacts in soil in eighteen (18) borings. Subsequent sampling events conducted April 10-12, 2017 and July 17, 2017 helped to delineate the extent of lead or arsenic contamination in these areas (Figures 3 through 7). Borings installed in April and July 2017 are referred to as step-outs or step-out borings throughout this report.

- During the PEA-E, three hundred and fifty-one (351) original and step-out samples were analyzed for arsenic in soil with the following results (Table 1).

  – Arsenic was reported above the practical quantitation limit (PQL) in three hundred and twenty-six (326) samples at concentrations ranging between 1.0 mg/kg (EB6-3 at 1.5 feet bgs and EB9-6-E10 at 2.5 feet bgs) and a maximum of 82 mg/kg (EB15-1-S5 step-out at 0.5 feet bgs).

- The DTSC-adopted background arsenic concentration is 12 mg/kg (DTSC, 2008), and thirty-four (34) of the soil samples analyzed showed concentrations above 12 mg/kg (Table 1).

- Additionally, nine (9) samples were also analyzed for arsenic using the Waste Extraction Test (WET) for STLC and/or TCLP by EPA Method 6010B, because the TTLC arsenic result in these samples was greater than 50 mg/kg. Each resulting arsenic concentration was below the STLC and TCLP regulatory limits of 5 milligrams per liter (mg/L). Additionally, no arsenic results exceeded the state hazardous waste criteria of 500 mg/kg TTLC-arsenic. Based on these TTLC, STLC and TCLP results, the levels of arsenic in soil are representative of non-hazardous material under California waste disposal regulations, per the California Code of Regulations, Title 22, Chapter 11, Article 3.

- See Section 4.0 for further discussion of arsenic concentrations.

- During the PEA-E, five hundred and twenty-one (521) original and step-out samples were analyzed for lead in soil with the following results (Table 1).

  - Lead was reported above the PQL in all five hundred and twenty-one (521) samples at concentrations ranging between 1.3 mg/kg (FB16-1-E5 step-out at 0.5 feet bgs) and a maximum of 2,700 mg/kg (EB9-1-S5 step-out at 1.5 feet bgs).

  - The EPA Region 9 Regional Screening Level (RSL) for lead is 400 mg/kg (RSL for soil considering residential land use) (EPA, 2017), and three (3) of the soil samples analyzed showed concentrations above 400 mg/kg (Table 1).

  - The DTSC-modified screening level is 80 mg/kg (screening level for use in human health risk assessments) (DTSC, 2017), and fifty-three (53) of the soil samples analyzed showed concentrations above 80 mg/kg (Table 1).

  - Additionally, ninety-nine (99) samples were analyzed for lead using the WET-STLC and/or TCLP by EPA Method 6010B, because the TTLC-lead result in these samples was greater than 50 mg/kg. Each resulting lead concentration is shown on Table 1. One (1) lead result (EB9-1-S5 step-out at 1.5 feet bgs) exceeded the state hazardous waste criteria of 1,000 mg/kg TTLC-lead, and thirty-eight (38) STLC-lead results exceeded the STLC-

lead limit of 5 mg/L. STLC-lead results were between 0.24 mg/L (FB9-1-N5 at 1.5 feet bgs) and 51 mg/L (EB9-1-E5 step-out at 0.5 feet bgs). TCLP-lead ranged between <0.014 mg/L (multiple samples) and 3.8 mg/L (FB14-4 at 1.5 feet bgs), so all TCLP-lead concentrations were below the TCLP regulatory limit of 5 mg/L.

- Because lead results in select samples exceeded the state hazardous waste criteria of 1,000 mg/kg TTLC-lead or 5 mg/L STLC-lead, areas were identified with soil representative of hazardous material under California waste disposal regulations, per the California Code of Regulations, Title 22, Chapter 11, Article 3 (California-restricted non-RCRA hazardous waste was identified).

- Federal RCRA hazardous waste was not identified based on the TCLP-lead results, which were all below 5 mg/L.

- See Section 4.0 for further discussion of lead concentrations.

- As presented on Table 1, low concentrations of OCPs were detected above the laboratory PQL in forty-seven (47) out of two hundred and eighty (280) samples analyzed for OCPs between December 28, 2016 and January 3, 2017. OCP compounds with detections above the PQL included 4,4-DDD, 4,4-DDE, 4,4-DDT, alpha-Chlordane, Chlordane, gamma-Chlordane, and Methoxychlor in the following ranges:

  - 4,4-DDD from 2.1 micrograms per kilogram (µg/kg) (FB9-3 at 0.5 feet bgs) to 21 µg/kg (FB14-4 at 0.5 feet bgs),

  - 4,4-DDE from 2.2 µg/kg (FB15-2 at 0.5 feet bgs, and FB15-4 at 0.5 feet bgs) to 600 µg/kg (EB5-3 at 0.5 feet bgs),

  - 4,4-DDT from 2.1 µg/kg (FB4-3 at 0.5 feet bgs) to 25 µg/kg (FB14-4 at 0.5 feet bgs),

  - alpha-Chlordane from 1.1 µg/kg (FB1-3 at 1.5 feet bgs [duplicate], and EB20-3 at 0.5 feet bgs) to 38 µg/kg (FB15-3 at 2.5 feet bgs),

  - Chlordane (total) from 8.9 µg/kg (FB1-3 at 1.5 feet bgs [duplicate]) to 280 µg/kg (EB15-3 at 2.5 feet bgs),

  - gamma-Chlordane from 1.0 µg/kg (EB20-2 at 1.5 feet bgs) to 29 µg/kg (FB15-3 at 2.5 feet bgs), and

  - Methoxychlor from 48 µg/kg (EB5-4 at 0.5 feet bgs) to 180 µg/kg (EB5-3 at 1.5 feet bgs).

  - The above reported concentrations for OCP compounds were below published regulatory screening levels in all borings sampled for OCPs between December 28, 2016 and January 3, 2017 (Table 1). Based on these initial results, no step-out samples were analyzed for OCPs in subsequent soil sampling events in April and July 2017.

- PCB concentrations were below the laboratory PQL in the subset of soil samples chosen for PCB analysis (38 samples collected from a depth of 0.5 or 1.5 feet bgs) (Table 1).

The soil matrix analytical results indicate the following for screening for PCBs, PAHs, and Title 22 metals in soil in the vicinity of a former incinerator (Tables 1 and 2):

- For one (1) soil boring (EB9-7), and one (1) step-out soil boring located 6 feet to the west (EB9-7-W6), soil samples were collected from target depths of 0.5, 1.5, and 2.5 feet bgs. Borings EB9-7 and EB9-7-W6 lie in the vicinity of a former on-site incinerator. The EB9-7 samples were analyzed for PAHs, PCBs, and Title 22 metals at each depth. The EB9-7-W6 step-out samples were analyzed for copper and lead at each depth. Additional step-out borings were attempted in the compass directions around the EB-9-7 boring. An aboveground structure prevented step-outs to the north, and utilities prevented step-outs to the east, south and further west.

- PCB concentrations were below the laboratory PQL in each of the EB9-7 samples (0.5, 1.5 and 2.5 feet bgs samples) (Table 1).

- PAHs concentrations were below the laboratory PQL in each of the EB9-7 samples (0.5, 1.5 and 2.5 feet bgs samples) (Table 2).

- Metals with detections above the PQL included arsenic, barium, chromium, cobalt, copper, lead, mercury, nickel, vanadium and zinc in the following ranges:

  - Arsenic from 1.5 mg/kg (EB9-7 at 2.5 feet bgs) to 2.3 mg/kg (EB9-7 at 0.5 feet bgs),
  - Barium from 88 mg/kg (EB9-7 at 2.5 feet bgs) to 180 mg/kg (EB9-7 at 1.5 feet bgs),
  - Chromium from 14 mg/kg (EB9-7 at 0.5 feet bgs) to 20 mg/kg (EB9-7 at 2.5 feet bgs),
  - Cobalt from 8.0 mg/kg (EB9-7 at 0.5 feet bgs) to 9.0 mg/kg (EB9-7 at 2.5 feet bgs),
  - Copper from 25 mg/kg (EB9-7 at 2.5 feet bgs) to 2,800 mg/kg (EB9-7 at 0.5 feet bgs),
  - Lead from 11 mg/kg (EB9-7 at 2.5 feet bgs) to 250 mg/kg (EB9-7 at 0.5 feet bgs),
  - Mercury at 0.12 mg/kg (EB9-7 at 1.5 feet bgs) and below the PQL in remaining samples analyzed at EB9-7,
  - Nickel from 13 mg/kg (EB9-7 at 0.5 feet bgs) to 18 mg/kg (EB9-7 at 2.5 feet bgs),
  - Vanadium from 26 mg/kg (EB9-7 at 0.5 feet bgs) to 31 mg/kg (EB9-7 at 1.5 feet bgs and 2.5 feet bgs), and
  - Zinc from 38 mg/kg (EB9-7 at 2.5 feet bgs) to 170 mg/kg (EB9-7 at 1.5 feet bgs).

- With the exception of copper, lead and arsenic, Title 22 metals results were below published regulatory screening levels in each sample in the vicinity of the former incinerator (Table 2).
- None of the EB9-7 sample results for arsenic exceeded the DTSC-adopted background arsenic concentration of 12 mg/kg (DTSC, 2008), and arsenic was not analyzed in the step out samples from EB9-7-W6 (Table 1 and Table 2). Arsenic was not elevated above 12 mg/kg in the vicinity of the former incinerator. Arsenic results from the EB9-7 and EB9-7-W6 borings were included in the data set for arsenic in soil surrounding existing and former buildings at the Site (Table 1), as discussed in Section 4.0.

- For lead results, none of the EB9-7 or EB9-7-W6 step-out samples exceeded the EPA Region 9 RSL of 400 mg/kg lead. Two (2) of the soil samples analyzed showed concentrations above 80 mg/kg (250 mg/kg and 130 mg/kg lead were reported for EB9-7 soil samples at 0.5 and 1.5 feet bgs, respectively). Lead results from the EB9-7 and EB9-7-W6 borings were included in the data set for lead in soil surrounding existing and former buildings at the Site (Table 1), as discussed in Section 4.0.

- For potential waste characterization purposes, EB9-7 soil samples at 0.5 and 1.5 feet bgs were analyzed for lead using the WET-STLC and TCLP by EPA Method 6010B. Each resulting lead concentration is shown on Table 1. Both STLC-lead results exceeded the STLC-lead limit of 5 mg/L. All TTLC-lead results were below the state hazardous waste criteria of 1,000 mg/kg TTLC-lead. Because lead results in select samples exceeded the 5 mg/L STLC-lead limit, areas were identified with soil representative of hazardous material under California waste disposal regulations, per the California Code of Regulations, Title 22, Chapter 11, Article 3 (California-restricted non-RCRA hazardous waste was identified). Federal RCRA hazardous waste was not identified based on the TCLP-lead results, which were all below 5 mg/L.

- For copper results, none of the EB9-7 or EB9-7-W6 step-out samples exceeded the EPA Region 9 RSL of 3,100 mg/kg copper. For waste characterization purposes, one 2,800 mg/kg TTLC-copper result at EB9-7 at 0.5 feet bgs exceeded the state hazardous waste criteria of 2,500 mg/kg TTLC-copper. Because copper results in the 0.5 feet bgs sample exceeded the state TTLC limit, areas were identified California-restricted non-RCRA hazardous waste was identified. There is no federal TCLP limit for copper. Elevated copper was not identified in other deeper samples at EB9-7 or in step-out samples at EB9-7-W6. The elevated copper result in the one sample from EB9-7 at 0.5 feet bgs was co-located with elevated lead results that also indicated California-restricted non-RCRA hazardous waste identified based on lead results.

The soil matrix analytical results indicate the following for screening for TPH in Soil in the Vicinity of a Former AST (Table 3):

- One (1) boring installed in the vicinity of a former fuel oil AST (EB1-1) was advanced to a target maximum total depth of 10 feet bgs, with soil samples collected from 1, 5 and 10 feet bgs. The samples from EB1-1 were analyzed for TPH.

- As shown on Table 3, TPH results were below published regulatory screening levels in each sample in the vicinity of the former fuel AST.

The soil matrix analytical results indicate the following for Supplemental Soil Samples from methane probe location M-3 where stained soil was screened for TPH and VOCs (potentially naturally-occurring tar sand) (Table 3):

- To screen for methane in soil gas, thirty (30) additional soil borings were advanced between December 23 and 28, 2016 to a maximum total depth of 15.5 feet bgs. Soil samples were not typically collected from methane probe locations; however, in consultation with OEHS, two supplemental soil samples were collected from one location (M-3 at 10 and 12.5 feet bgs) where soil staining (potentially tar sand) was observed.

- The M-3 soil samples were analyzed for TPH and VOCs, and results from the limited soil sampling at the M-3 location are presented in Table 3. As shown on Table 3, TPH results were below published regulatory screening levels in the M-3 samples at 10 and 12.5 feet bgs. VOCs in the M-3 samples were below the laboratory PQL.

Duplicate samples collected during the PEA-E are included in Tables 1 to 2 in the row beneath the relevant original sample. Duplicate samples show similar results to the original samples considering the observed heterogeneity of the soil matrix. Equipment blank sample results indicated levels of COPCs below the laboratory PQLs. Field procedures (sampling and decontamination) were conducted in compliance with the above procedures. Laboratory procedures were in compliance with the method requirements, including acceptable reporting limits, laboratory selection, and laboratory reporting of quality control information. Samples from borings and quality control samples were analyzed as planned, therefore an acceptable level of completeness was achieved. Borings that could not be installed due to refusal, proximity to utilities, or surface obstructions/structures were not considered in the assessment of completeness. Acceptable sensitivity was achieved by selecting analytical methods with reporting limits suitable for comparison with action levels. Overall, the dataset is considered to be of acceptable quality. As such, the data set is considered acceptable for use in assessing human health risk at the Site.

3.3 Methane Screening Results

Probes were installed between December 23 and 28, 2016 using hand augering and direct-push drilling methods. Probe locations are shown in Figure 1 in Appendix F. Monitoring for methane and hydrogen sulfide was conducted on January 3 and 16, 2017. The probes were monitored using a magnahelic gauge for initial subsurface pressure, and a GEM2000 Plus for methane, fixed gases, and hydrogen sulfide. A Jerome 631-X H2S Analyzer was also used to monitor for hydrogen sulfide, and a Photovac MicroFID was used to monitor for methane. Table 1 in Appendix F summarizes field readings collected at thirty (30) methane probe locations throughout the Site.

During the initial round of monitoring, the GEM2000 Plus measured methane between 0.0% and 48.8% (M-17 probe set at 5 feet bgs), and hydrogen sulfide between 0.0 ppm and 1.0 ppm (M-1 and M-20 at 15 feet bgs). Methane was measured between 0.0 ppm and 3,800 ppm (M-14 at 15 feet bgs) using the MicroFID, and hydrogen sulfide was measured between 0.00 ppm and 0.78 ppm (M-14 at 15 feet bgs) using the Jerome 631-X H2S Analyzer. At some locations, the MicroFID experienced flame out conditions and the Jerome 631-X H2S Analyzer did not display a reading (“MF”) preventing collection of measurements with these instruments. No flow was observed in some probes, as summarized in Table 1 in Appendix F.

During the second round of monitoring on January 16, 2017, the GEM 2000 Plus measured methane between 0.0% and 57.8% (M-17 probe set at 5 feet bgs), and hydrogen sulfide between 0.0 ppm and 1.0 ppm (M-24 at 15 feet bgs). Methane was measured between 0.0 ppm and 2,427 ppm (M-13 at 5 feet bgs) using the MicroFID, and hydrogen sulfide was measured between 0.00 ppm and 0.02 ppm (multiple probe locations) using the Jerome 631-X H2S Analyzer. At some locations, the MicroFID did not display a reading (“MF”) preventing collection of measurements with these instruments.

In addition, fixed gases in the field measurements included carbon dioxide and oxygen, using the GEM2000 Plus. On January 3, 2017, carbon dioxide was measured between 0.0% (multiple probes) and 19.2% (M-6 at 5 feet bgs), and oxygen was measured between 1.6% (M-6 at 5 feet bgs) and 21.1% (M-14 at 5 feet bgs). On January 16, 2017, carbon dioxide was measured between 0.0%

(multiple probes) and 17.0% (M-15 at 15 feet bgs) and oxygen was measured between 0.6% (M-17 at 5 feet bgs) and 21.1% (M-4 at 15 feet bgs).

Background outdoor air concentrations of methane and hydrogen sulfide were:

Date Sampled	% Methane (GEM2000 Plus)	Methane (ppm) (MicroFID)	Hydrogen Sulfide (ppm) (Jerome 631-X)
January 3, 2017	0.0	0.0	0.00
January 16, 2017	0.0	0.0	0.00

A summary of the monitoring results for soil vapor samples is presented in Table 1 in Appendix F. During each event, seven (7) soil vapor samples were collected for laboratory analysis of methane by EPA method 8015 and hydrogen sulfide by ASTM method D5504M. The January 3, 2017 samples were collected from probes M-1 at 15 feet bgs, M-7 at 5 feet bgs, M-8 at 5 feet bgs, M-14 at 15 feet bgs, M-15 at 15 feet bgs, and M-17 at 5 feet bgs (original and duplicate sample). The January 16, 2017 samples were collected from probes M-7 at 5 feet bgs, M-13 at 5 feet bgs, M-14 at 15 feet bgs, M-15 at 15 feet bgs, M-17 at 5 feet bgs (original and duplicate sample) and M-24 at 15 feet bgs. Soil vapor samples were delivered under chain of custody documentation to Enthalpy Analytical, Inc. (Enthalpy) in Orange, California for analysis. Enthalpy is a California Department of Public Health, Environmental Laboratory Accreditation Program-certified laboratory. Laboratory results for methane and hydrogen sulfide in soil gas are presented in Table 2 in Appendix F. Copies of the laboratory reports are included in Appendix F.

During the initial round of sampling on January 3, 2017, the laboratory reported methane between 124 ppm (M-7 at 5 feet bgs) and 577,000 ppm (M-17 duplicate sample at 5 feet bgs), and hydrogen sulfide between 0.008 ppm (M-8 at 5 feet bgs) and 3.5 ppm (M-1 at 15 feet bgs). During the second round of sampling on January 16, 2017, the laboratory reported methane between 84,200 ppm (M-15 at 15 feet bgs) and 388,000 ppm (M-17 duplicate sample at 5 feet bgs), and hydrogen sulfide between 0.021 ppm (M-13 at 5 feet bgs) and 5.4 ppm (M-24 at 15 feet bgs).

Methane field readings were generally similar to laboratory results for methane and hydrogen sulfide. Where variability was observed between field and laboratory results, the field result was qualified in Table 1 in Appendix F with a J1 or J2

qualifier. The qualifier indicates that the result is an estimate based on variability between the field and laboratory results for methane, with the field result being lower (J1) or higher (J2) than the laboratory result. As qualified, the data is usable for its intended purpose of screening the Site for methane in soil gas beneath the Site.

The maximum positive pressure measured in the probes prior to monitoring was a maximum of 1.0 inches of water column (multiple probes, Table 1 in Appendix F). Based on the maximum methane concentrations measured above 12,500 ppm, the Site is a Level V design category per LADBS methane regulations (>12,500 ppm at all pressures). Hydrogen sulfide was detected at a maximum of 5.4 ppm.

4.0 HUMAN HEALTH SCREENING EVALUATION

Areas surrounding existing and former buildings are typically paved at the Site. There is no direct pathway between the current Site occupants and shallow soil in paved areas. It is Leighton's understanding that one of the intentions of sampling was to assess shallow soil for COPCs identified in the Phase 1 ESA (WorleyParsons, 2016). Data from this PEA-E will help to evaluate reuse and disposal options for soil that may be disturbed during redevelopment activities.

Elevated levels of arsenic and lead were identified at the Site based upon the initial soil sampling activities conducted between December 28, 2017 and January 3, 3017, during which select samples were analyzed for arsenic, lead, OCPs, PCBs, TPH, PAHs, Title 22 metals, and/or VOCs (Tables 1 through 3), as described in Section 3, above. Results for remaining Title 22 Metals, OCPs, PCBs, TPH, PAHs, and VOCs were below their respective screening levels (Human Health Risk Assessment Note #3, and RSLs).

Arsenic in Soil: A 12 mg/kg concentration of arsenic in soil represents an upper-bound value for background ambient levels of arsenic found in southern California and is actually a 95% upper confidence limit (UCL) (DTSC, 2008). The 12 mg/kg concentration was used as the screening level for arsenic at the Site.

Arsenic was reported above the PQL in three hundred and twenty-six (326) samples at concentrations ranging between 1.0 mg/kg (EB6-3 at 1.5 feet bgs and EB9-6-E10 at 2.5 feet bgs) and a maximum of 82 mg/kg (EB15-1-S5 step-out at 0.5 feet bgs) (Table 1). Due to the presence of sample results above 12 mg/kg in thirty-four (34) of the samples, a 95% upper confidence limit (UCL) analysis was completed. The analysis used the three hundred and twenty-six (326) detections above the PQL to determine if arsenic in soil exceeded the screening level, and would potentially present a human health risk to current or future occupants of the Site. The 95% UCL Analysis Report is included as Appendix G. The result was 9.842 mg/kg for arsenic. The median arsenic result is 2.4 mg/kg. The arsenic data set is consistent with the southern California arsenic data set and the central tendencies are also similar.

Shallow soil where elevated arsenic results were reported will be targeted for removal, so that arsenic remaining at the Site is below background arsenic levels for southern California per DTSC guidelines (12 mg/kg arsenic) (DTSC, 2008).

Lead in Soil: The 80 mg/kg concentration is the DTSC screening level for lead in soil (Human Health Risk Assessment Note #3, soil lead discussion, available at http://www.dtsc.ca.gov/ AssessingRisk/ LeadSpread8.cfm).

Due to the presence of sample results above 80 mg/kg in fifty-three (53) of the samples, a 95% UCL analysis was completed. The analysis used the five hundred and twenty-one (521) detections above the PQL to determine if lead in soil exceeded the screening level, and would potentially present a human health risk to current or future occupants of the Site. The 95% UCL Analysis Report is included as Appendix G. The result was 61.28 mg/kg for lead. The median lead result is 11 mg/kg. The lead data set indicates that the 95% UCL is below the screening level of 80 mg/kg.

Shallow soil where elevated lead results were reported will be targeted for removal, so that lead remaining at the Site is below the DTSC-modified screening level (80 mg/kg lead) (DTSC, 2017).

Other COPCs in Soil (remaining Title 22 Metals, OCPs, PCBs, TPH, PAHs, and VOCs):

With the exception of limited areas with elevated arsenic and lead in soil, the PEA-E sampling results presented in this report, demonstrate that soil analytical results for remaining Title 22 Metals, OCPs, PCBs, TPH, PAHs, and VOCs were either below the laboratory PQL or below regulatory screening levels.

Arsenic and lead have been identified as chemicals of concern in soil. Based on District preference to remove isolated areas with elevated arsenic and lead, further action appears warranted at the Site.

Methane in Soil Gas: Methane gas is a non-poisonous, non-toxic, non-carcinogenic, and simple asphyxiant. Methane is considered for its explosive concerns and not health concerns. Accumulation of methane gas is combustible and potentially explosive at concentrations above the lower explosive limit of 50,000 ppmv (equivalent to 5% v/v methane in air, and 100% of the LEL) in the presence of oxygen and an ignition source. Methane is discussed further in Appendix F.

5.0 COMMUNITY PROFILE

5.1 Community Demographics

A brief summary of the community demographics for the zip code 90005 in Los Angeles County according to the 2010 US Census (factfinder.census.gov) is as follows:

- Total population: 37,681
- Male: 13,635 (51.2%)
- Female: 14,292 (48.8%)
- Median Age: 33.9
- Population 18 years and over: 79.7%
- Total Housing units: 16,345
- Average Household Size: 2.5
- Population by race: White: 10,953 (29.1%)
  Black or African American: 2,007 (5.3%)
  American Indian and Alaska Native: 317 (0.8%)
  Asian: 12,740 (33.8%)
  Native Hawaiian and Pacific Islander: 40 (0.1%)
  Other: 9,940 (26.4%)
  Two or More Races: 1,684 (4.5%)

5.2 Local Participation and Involvement

At the time of this investigation, Leighton is not aware of any current or past media coverage with relation to the School property or the Site. A fact sheet, in the form of a flyer, was produced in English, Spanish, and Korean (double-sided flyer) to provide members of the community with details regarding the PEA-E investigation including who would perform the work, project schedule, when and where the results of the investigation would be posted, and who to contact regarding additional information. This work notice flyer was handed out to School staff, mailed to parents of students, hand-delivered to line-of-site neighbors of the School, and posted along the boundary fence of the School property.

No specific environmental concerns or issues have been brought to the District's attention regarding the onsite activities at this time. In terms of project visibility, the onsite work took place during School shut downs (i.e., winter break and summer break) to minimize any interference with school activities. Line-of-site neighbors, School staff, and parents were given copies of the work notice flyer. With the exception of offsite former gas station sites identified by WorleyParsons in the Phase 1 ESA (WorleyParsons, 2016), Leighton is unaware of environmental concerns or issues with relation to neighboring sites at this time.

6.0 OPINION OF ENVIRONMENTAL PROFESSIONAL

Based on the PEA-E sampling results (Table 1), elevated levels of lead and arsenic were reported for soil in limited areas at the Site (Figures 4 through 7). The RAW should include hot spot removal such that the post-removal data sets for lead and arsenic provide 95% UCL analysis results that are below DTSC screening levels of 80 mg/kg lead and 12 mg/kg arsenic, respectively (DTSC, 2017 and 2008). The extent of excavations shown on Figures 4 through 7 are estimates. Based on the post-removal data sets and their 95% UCL analysis results, the final extent of soil removal may vary from that shown on Figures 4 through 7, in consultation with OEHS and DTSC, as appropriate.

One elevated result of 2,800 mg/kg for copper at boring EB9-7 at 0.5 feet bgs was co-located with elevated lead impacts in soil in the vicinity of a former incinerator. This copper result was below the RSL for residential soil considering health risk screening (3,100 mg/kg). Copper will not drive removal action based on health risk because the maximum level of 2,800 mg/kg is below the relevant RSL and no DTSC-modified screening level exists for copper. Copper in the vicinity of boring EB9-7 will be addressed with the removal of lead-impacted soil. Should soil generated from the vicinity of boring EB9-7 require disposal, copper and lead will both support classification of the soil as California-restricted non-RCRA hazardous waste.

Further action appears warranted to address lead and arsenic in soil at select areas of the Site. Limitations that apply to this PEA-E study are shown in Section 8.0.

It is our opinion that the objectives of the methane screening survey were met, and no additional assessment is necessary to assess the objectives of the methane survey. Soil vapor probes were installed per the DTSC Advisory Active Soil Gas Investigations dated July 2015, as required by the RFP (OEHS, 2016). Maximum methane concentrations observed in the soil vapor probes in January 2017 trigger Design Level V, which is the highest level of mitigation LADBS specifies. Additional sampling per LADBS testing depths (5, 10 and 20 feet) does not appear warranted because LADBS would be unlikely to accept a design level less stringent that Design Level V.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The Site is part of the Burroughs Middle School property, located at 600 South McCadden Place, Los Angeles, California, 90005 (Figure 1 and Figure 2). The primary objectives of this PEA-E were to assess soil for potential environmental concerns identified in a Phase I ESA (WorleyParsons, 2016); and to evaluate overall Site health risk based on soil analytical screening results for COPCs, including lead, arsenic, OCPs, PCBs, TPH, PAH's, and CAM-17. Additionally, this PEA-E included a survey to screen for methane in soil gas.

Based upon the findings presented in this PEA-E study, elevated levels of COPCs were identified at the Site in soil, including arsenic and lead in soil in select areas (Table 1). With the exception of arsenic and lead in select borings, the soil matrix analytical results (Tables 1 through 3) indicate that remaining COPCs at the Site were either below detection or below regulatory screening levels. On behalf of the District, Leighton recommends preparation of a Removal Action Workplan (RAW) to address areas of elevated arsenic and lead in soil at the Site per DTSC guidelines (DTSC, 2017 and 2008).

The purpose of conducting the methane screening survey was to evaluate the Site for the presence of oil field gases and determine the design level of mitigation required. The Site lies within the City of Los Angeles methane zone. The Salt Lake Oil Field lies approximately 1,500 feet north of the Site and 2,000 feet west of the Site. One plugged oil and gas production well is also located approximately 1,300 feet west/southwest of the Site. Maximum field measurements and the maximum laboratory reported concentrations from sampling events on January 3 and 16, 2017 exceeded 12,500 ppm methane. The maximum positive pressure measured in the probes prior to monitoring was a maximum of 1.0 inches of water column. Hydrogen sulfide was detected at a maximum of 5.4 ppm at the Site. Based on the field measurements and the laboratory results the Site is categorized as Design Level V at all pressures per the LADBS criteria. It is our opinion that the objectives of the methane screening survey were met, and no additional assessment is necessary to assess the objectives of the methane survey.

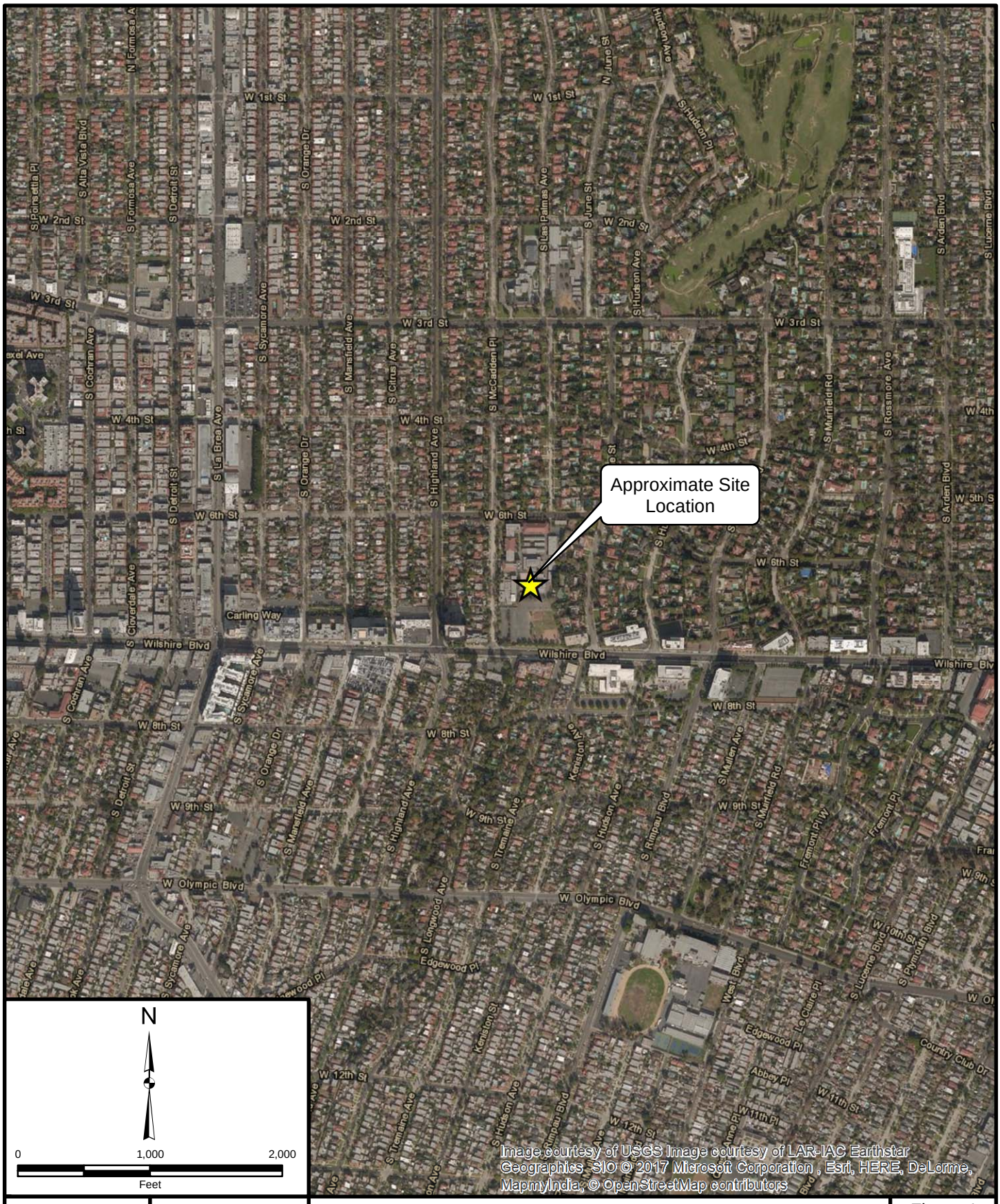
8.0 LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. Opinions, conclusions, and recommendations contained in this report apply to conditions existing when the services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. Where subsurface exploratory work, monitoring, and/or testing was performed, our professional opinions and conclusions are based in part on interpretation of data from discrete sampling or measurement locations that may not represent actual conditions at un-sampled or un-measured locations. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of the services. We assume no responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when the services were performed. We do not warranty the accuracy of information supplied by others, or the use of segregated portions of this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Leighton should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

Leighton's professional opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analyses data. Further assessment of potential adverse environmental impacts from past on-Site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between and beyond the sampling locations. Variations in soil and soil gas conditions likely exist beyond the points explored in this assessment and related excavation.

FIGURES



Project: 603378.006	Eng/Geol: JCH/RAL
Scale:1 " = 1,000 '	Date: March 2017

Base Map: ESRI ArcGIS Online 2017
Thematic Information: Leighton
Author: Leighton Geomatics (btran)

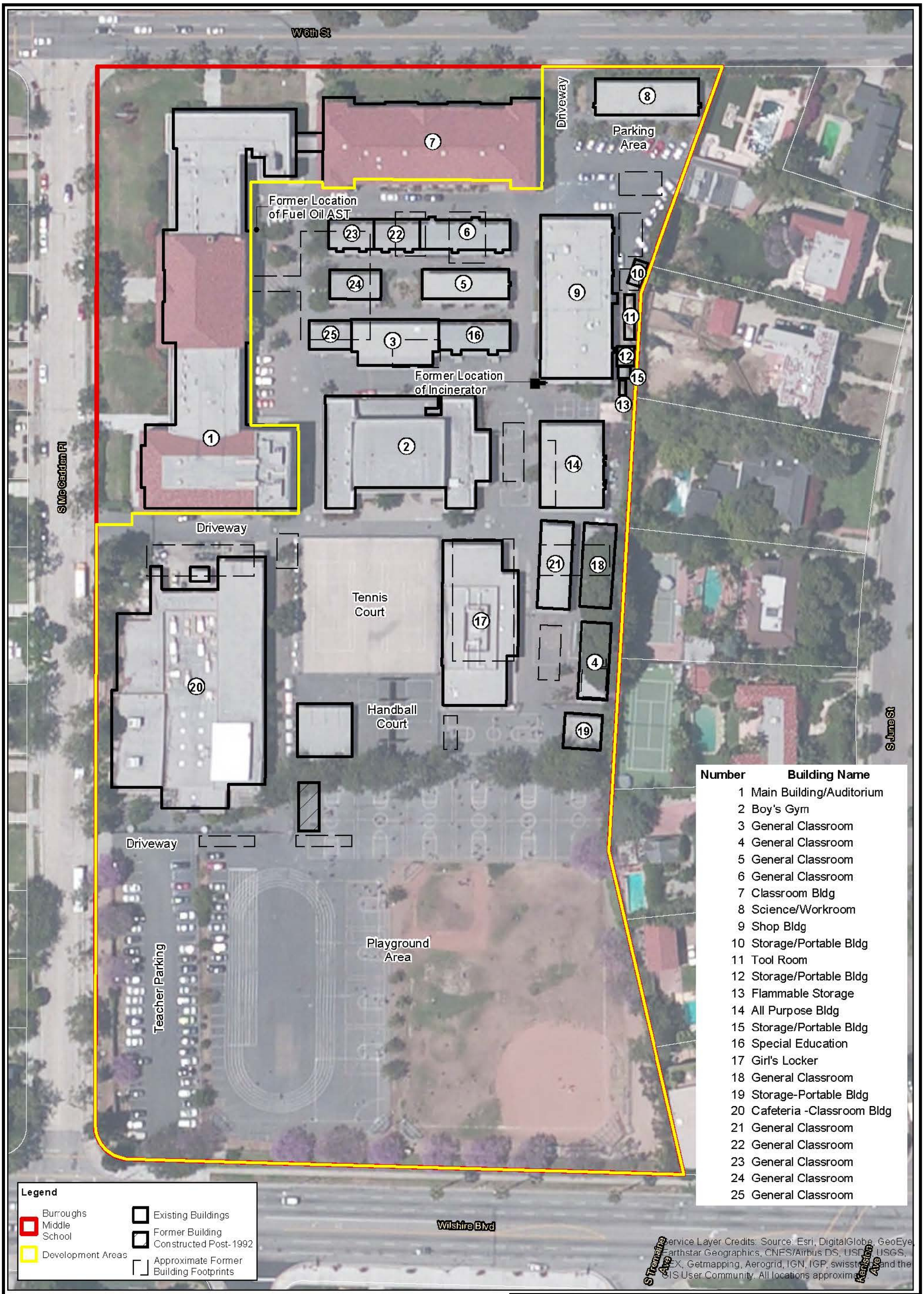
SITE LOCATION MAP

LAUSD Burroughs Middle School
600 South McCadden Place,
Los Angeles, California

Figure 1

Leighton

Map Saved as V:\Drafting\603378\006\Maps\603378-006_F01_SLM_2017-03-28.mxd on 3/28/2017 10:16:46 AM



Number	Building Name
1	Main Building/Auditorium
2	Boy's Gym
3	General Classroom
4	General Classroom
5	General Classroom
6	General Classroom
7	Classroom Bldg
8	Science/Workroom
9	Shop Bldg
10	Storage/Portable Bldg
11	Tool Room
12	Storage/Portable Bldg
13	Flammable Storage
14	All Purpose Bldg
15	Storage/Portable Bldg
16	Special Education
17	Girl's Locker
18	General Classroom
19	Storage-Portable Bldg
20	Cafeteria -Classroom Bldg
21	General Classroom
22	General Classroom
23	General Classroom
24	General Classroom
25	General Classroom

N
W E
S
0 150
Feet

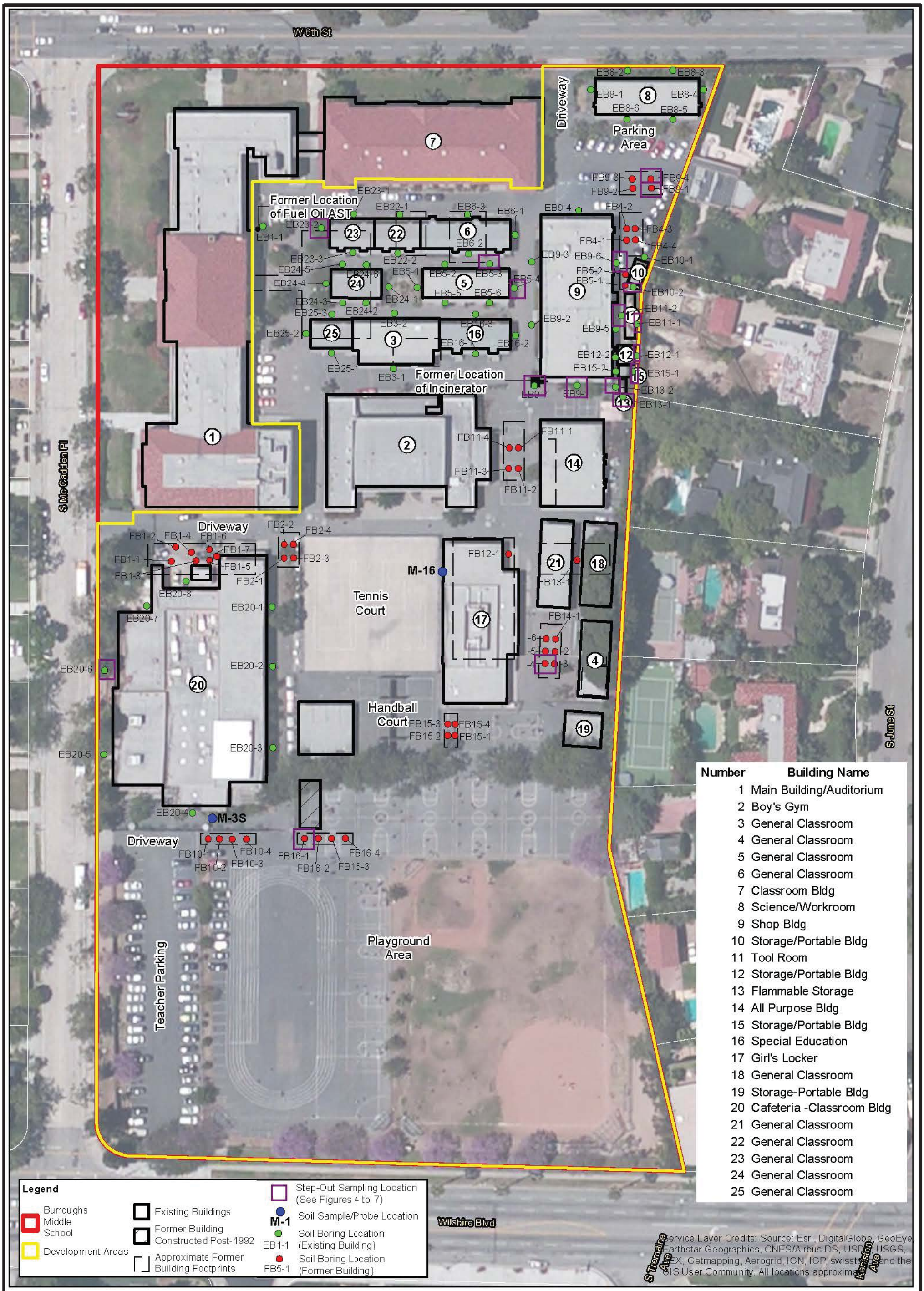
CURRENT AND HISTORICAL BUILDING AND STRUCTURE LOCATIONS

600 South McCadden Place,
Los Angeles, CA

FIGURE 2

Project: 603378.006	Eng/Geol: JCH/RL
Approx. Scale 1"=75'	Date:03/24/17
Drafted By: BES	Checked By: JCH

Leighton



Site Plan provided by Advisian,Worley Parsons Group. dated 10/16/2016.

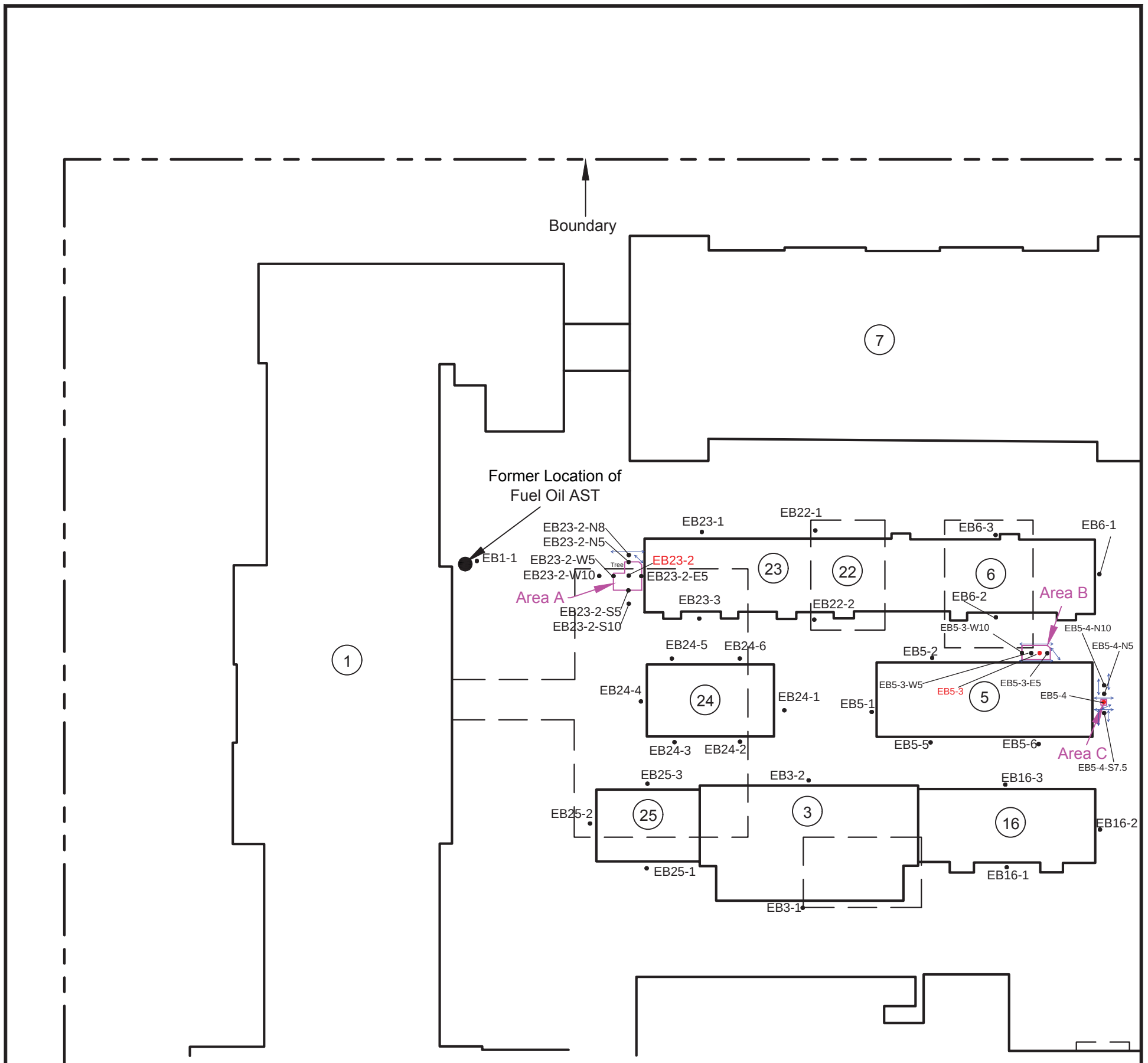
SOIL BORING LOCATION MAP

600 South McCadden Place,
Los Angeles, CA

FIGURE 3

Project: 603378.006	Eng/Geol: JCH/RL
Approx. Scale 1"=75'	Date:03/24/17
Drafted By: BES	Checked By: JCH

Leighton



Notes/Definitions:

bgs = below ground surface
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
NA = not analyzed for arsenic and/or lead TTLC
STLC = Soluble threshold limit concentration
TCLP = Toxicity characteristic leaching procedure
TTLC = Total threshold limit concentration
RCRA = Resource Conservation and Recovery Act
* Replicate/duplicate soil sample

Approximate Volume of Soil Impacted with Arsenic or Lead for Removal**:
Area A (to 1.5 ft bgs) = ~5.0 CY (Non-Hazardous)
Area B (to 1 feet bgs) = ~1.8 CY (CA-Haz Non-RCRA)
Area C (to 1.5 feet bgs) = ~0.2 CY (CA-Haz Non-RCRA)
**Removal to within 1 foot of surface structures and to within 2 feet of identified utilities was assumed.

LEGEND

EB1-1 — Sample: Where Lead-TTLC (mg/kg) or Arsenic-TTLC (mg/kg) results are greater than >80 mg/kg lead or >12 mg/kg arsenic the ID is red

Non-Hazardous Waste - Soil Sample Location where no results exceeded hazardous waste criteria

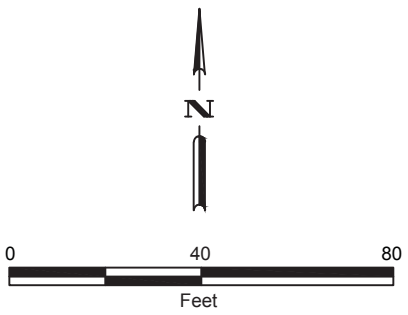
California-Restricted (Non-RCRA) Hazardous Waste - Soil Sample Location where Lead STLC exceeded 5.0 mg/L, arsenic STLC exceeded 5 mg/L and/or Lead TTLC exceeded 1,000 mg/kg [No sample results exceeded Federal RCRA Hazardous Waste criteria]

Approximate location of detected utilities near impacted soil areas

Existing Buildings

Approximate Former Building Footprints

Approximate extent of lead or arsenic impacted soil based on TTLC Lead >80 mg/kg, TTLC Arsenic >12 mg/kg, or CA Hazardous Levels

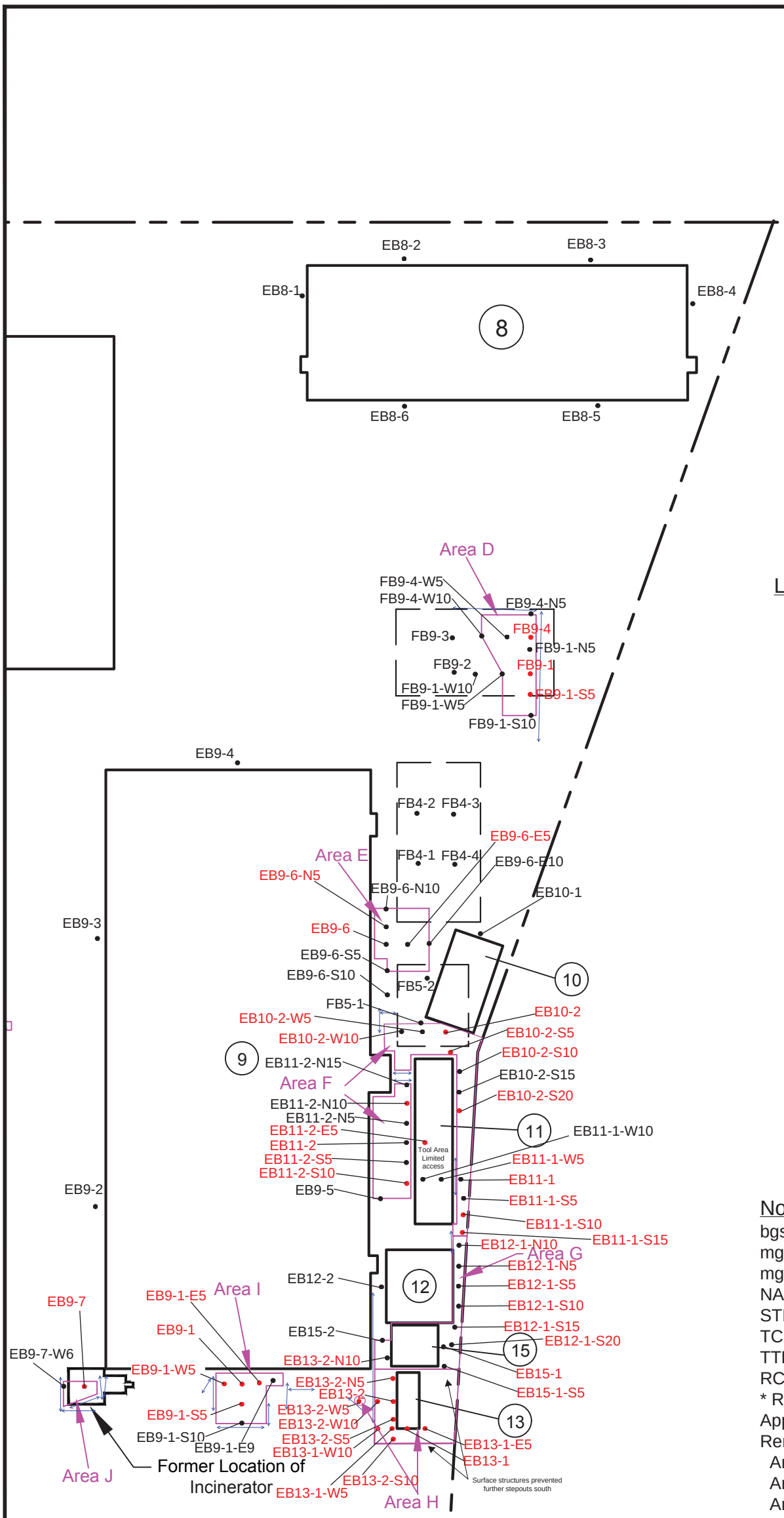


Project: 603378.006	Eng/Geol: JH
Scale: 1"=40'	Date: September 2017
Reference:	
Author: MAM	

STEP-OUT SOIL BORING LOCATION MAP
EXISTING BUILDING 5 AND EXISTING BUILDING 23
600 South McCadden Place
Los Angeles, California

Figure 4

Leighton



LEGEND

EB1-1 — Sample: Where Lead-TTLC (mg/kg) or Arsenic-TTLC (mg/kg) results are greater than >80 mg/kg lead and >12 mg/kg arsenic the ID is red

Non-Hazardous Waste - Soil Sample Location where no results exceeded hazardous waste criteria

California-Restricted (Non-RCRA) Hazardous Waste - Soil Sample Location where Lead STLC exceeded 5.0 mg/L, arsenic STLC exceeded 5 mg/L and/or Lead TTLC exceeded 1,000 mg/kg
[No sample results exceeded Federal RCRA Hazardous Waste criteria]

Approximate location of detected utilities near impacted soil areas

Approximate extent of lead or arsenic impacted soil based on TTLC Lead >80 mg/kg, TTLC Arsenic >12 mg/kg, or CA Hazardous Levels

Existing Buildings

Approximate Former Building Footprints

Notes/Definitions:

bgs = below ground surface
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
NA = not analyzed for arsenic and/or lead TTLC
STLC = Soluble threshold limit concentration
TCLP = Toxicity characteristic leaching procedure
TTLC = Total threshold limit concentration
RCRA = Resource Conservation and Recovery Act
* Replicate/duplicate soil sample
Approximate Volume of Soil Impacted with Arsenic or Lead for Removal**:
Area D (to 2.5 feet bgs) = ~22 CY (CA-Haz Non-RCRA)
Area E (to 4.5 feet bgs) = ~31 CY (Non-Hazardous)
Area F (to 2.5 feet bgs) = ~20 CY (CA-Haz Non-RCRA)
Area G(to 3.5 feet bgs) = ~18 CY (Non-Hazardous)
Area H** (to 2.5 feet bgs) = ~18 CY (CA-Haz Non-RCRA)
Area I (to 2.5 feet bgs) = ~14 CY (CA-Haz Non-RCRA)
Area J (to 2.5 feet bgs) = ~3 CY (CA-Haz Non-RCRA)
**Survey monument to protect in Area H west of Building 13. Removal to within 1 foot of surface structures and to within 2 feet of identified utilities was assumed.

N

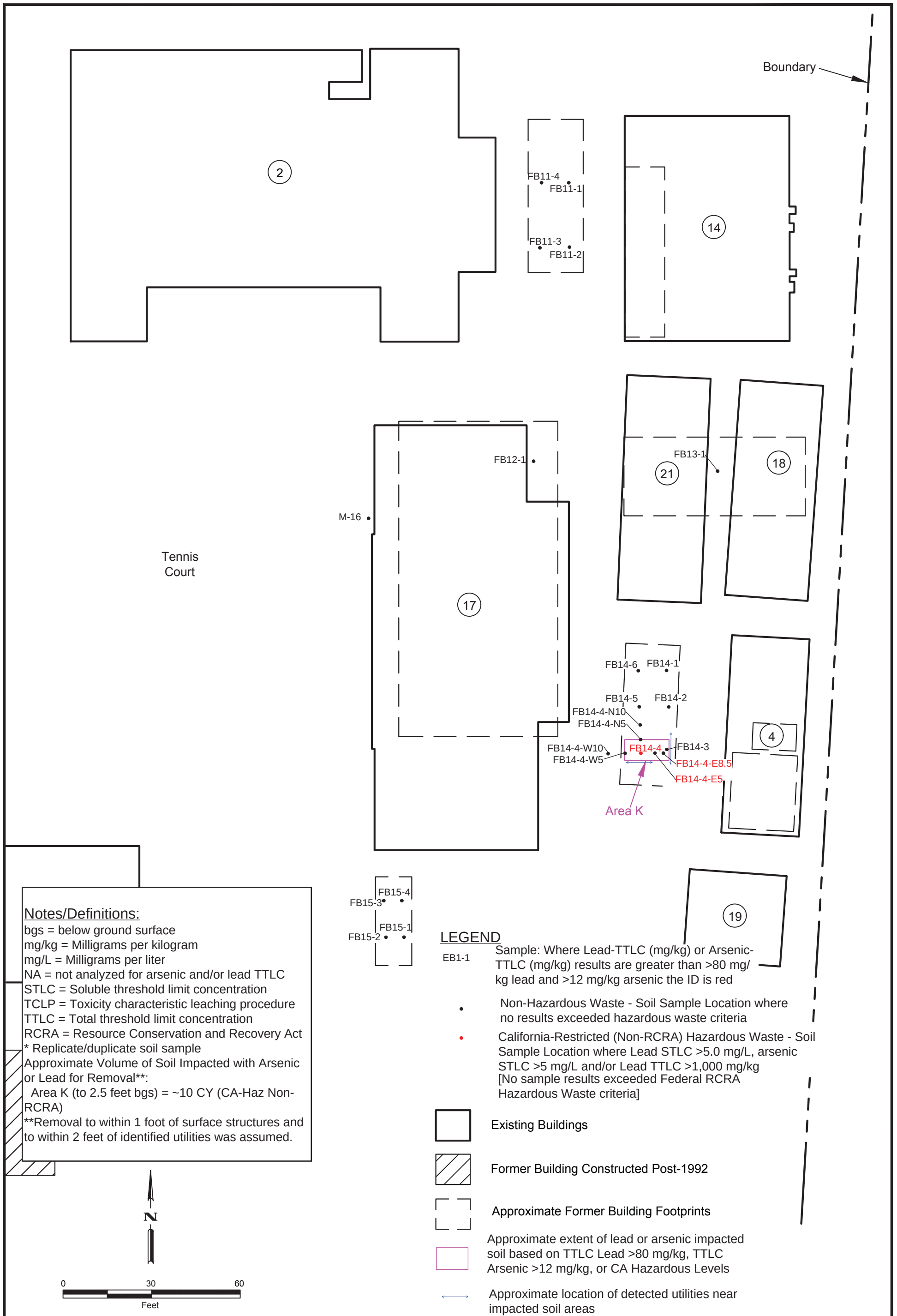
0 30 60
Feet

Project: 603378.006	Eng/Geol: JH
Scale: 1"=30'	Date: September 2017
Reference:	
Author: MAM	

STEP-OUT SOIL BORING LOCATION MAP
EXISTING BUILDING 9 AND VICINITY
600 South McCadden Place
Los Angeles, California

Figure 5

Leighton



Notes/Definitions:

bgs = below ground surface
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
NA = not analyzed for arsenic and/or lead TTLC
STLC = Soluble threshold limit concentration
TCLP = Toxicity characteristic leaching procedure
TTLC = Total threshold limit concentration
RCRA = Resource Conservation and Recovery Act
* Replicate/duplicate soil sample
Approximate Volume of Soil Impacted with Arsenic or Lead for Removal**:
Area K (to 2.5 feet bgs) = ~10 CY (CA-Haz Non-RCRA)
**Removal to within 1 foot of surface structures and to within 2 feet of identified utilities was assumed.

Project: 603378.006	Eng/Geol: JH
Scale: 1"=30'	Date: September 2017
Reference:	
Author: MAM	

STEP-OUT SOIL BORING LOCATION MAP
FORMER BUILDING 14
600 South McCadden Place
Los Angeles, California

Figure 6

Leighton

Boundary

Driveway

FB1-2
FB1-4
FB1-6
FB1-7
FB1-1
FB1-3
FB1-5
EB20-8

FB2-4
FB2-2
FB2-3
FB2-1

EB20-7
EB20-1
EB20-2
EB20-3
EB20-5
EB20-4
M-3S

Surface Area L
EB20-6-N10
EB20-6-N5
EB20-6-W8
EB20-6
EB20-6-W5
EB20-6-S5
Tree
Wall

EB20

Driveway

FB10-1
FB10-3
FB10-2
FB10-4

FB16-1-N10
FB16-1-N5
FB16-1-W10
FB16-2
FB16-4
FB16-1-W5
FB16-3
FB16-1
FB16-1-E10
FB16-1-E5
FB16-1-S5
FB16-1-S10
Surface Area M

Notes/Definitions:
bgs = below ground surface
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
NA = not analyzed for arsenic and/or lead TTLC
STLC = Soluble threshold limit concentration
TCLP = Toxicity characteristic leaching procedure
TTLC = Total threshold limit concentration
RCRA = Resource Conservation and Recovery Act
* Replicate/duplicate soil sample
Approximate Volume of Soil Impacted with Arsenic or Lead for Removal**:
Area L (to 1.5 feet bgs) = ~3 CY (CA-Haz Non-RCRA)
Area M (to 2.5 feet bgs) = ~14 CY (CA-Haz Non-RCRA)
**Removal to within 1 foot of surface structures and to within 2 feet of identified utilities was assumed.

LEGEND

EB1-1 — Sample: Where Lead-TTLC (mg/kg) or Arsenic-TTLC (mg/kg) results are greater than >80 mg/kg lead and >12 mg/kg arsenic the ID is red

Non-Hazardous Waste - Soil Sample Location where no results exceeded hazardous waste criteria

California-Restricted (Non-RCRA) Hazardous Waste - Soil Sample Location where Lead STLC exceeded 5.0 mg/L, arsenic STLC exceeded 5 mg/L and/or Lead TTLC exceeded 1,000 mg/kg
[No sample results exceeded Federal RCRA Hazardous Waste criteria]

Approximate extent of lead or arsenic impacted soil based on TTLC Lead >80 mg/kg, TTLC Arsenic >12 mg/kg, or CA Hazardous Levels

Existing Buildings

Former Building Constructed Post-1992

Approximate Former Building Footprints

Approximate location of detected utilities near impacted soil areas

N

0 30 60
Feet

Project: 603378.006	Eng/Geol: JH
Scale: 1"=30'	Date: September 2017
Reference:	
Author: MAM	

STEP-OUT SOIL BORING LOCATION MAP
EXISTING BUILDING 20 AND FORMER BUILDING 16
600 South McCadden Place
Los Angeles, California

Figure 7

Leighton

P:\DRAFTING\603378\006\CAD\WORKING.DWG (09.08.17 5:07:30PM) Plotted by: mmurphy

TABLES

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Main Building/ Auditorium (EB1)	EB1-1**	EB1-1-1	1.0	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		EB1-1-5	5.0	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		EB1-1-10	10.0	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Classroom Building No. 3 (EB3)	EB3-1*	EB3-1-0.5	0.5	1/3/17	0.38 J	**150**	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**4.5**	**43**	--	--	--	--	12 J	ND
		EB3-1-1.5	1.5	1/3/17	<0.22	**10**	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.1**	**6.1**	--	--	--	--	--	--
		EB3-1-1.5-D	1.5	1/3/17	<0.22	**8.1**	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**5.0**	**12**	--	--	--	--	--	--
		EB3-1-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB3-2	EB3-2-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.5**	**24**	--	--	--	--	--	--
		EB3-2-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**4.4**	--	--	--	--	--	--
		EB3-2-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Classroom Building No. 5 (EB5)	EB5-1	EB5-1-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**25**	--	--	--	--	--	--
		EB5-1-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**3.7**	--	--	--	--	--	--
		EB5-1-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB5-2	EB5-2-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.1**	**7.9**	--	--	--	--	--	--
		EB5-2-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.0**	**3.7**	--	--	--	--	--	--
		EB5-2-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB5-3	EB5-3-0.5	0.5	12/29/16	**13**	**600**	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**7.9**	**170**	--	**7.3 D1**	--	0.038 D1, J	--	--
		EB5-3-1.0	1.0	12/29/16	0.30 J	**33**	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	**180**	ND	**3.2**	**25**	--	--	--	--	--	--
		Refusal at 1.0' bgs in boring.																		--			
	Step out boreholes near boring EB5-3:																						
	EB5-3-W5	EB5-3-W5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**22**	--	--	--	--	--	--
		EB5-3-W5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.7**	--	--	--	--	--	--
		EB5-3-W5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.7**	--	--	--	--	--	--
	EB5-3-W10	EB5-3-W10-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**14**	--	--	--	--	--	--
		EB5-3-W10-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.9**	--	--	--	--	--	--
		EB5-3-W10-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.8**	--	--	--	--	--	--
	EB5-3-E5	EB5-3-E5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**34**	--	--	--	--	--	--
		EB5-3-E5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.3**	--	--	--	--	--	--
		EB5-3-E5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.2**	--	--	--	--	--	--
	EB5-4	EB5-4-0.5	0.5	12/29/16	<1.1 D1	<0.98 D1	<0.67 D1	<1.1 D1	<4.5 D1	<1.2 D1	<1.1 D1	<1.1 D1	<1.0 D1	**48 D1**	ND	**2.2**	**56**	--	**7.7 D1**	--	--	--	--
		EB5-4-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**18**	--	--	--	--	--	--
		EB5-4-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Step out boreholes near boring EB5-4:																						
	EB5-4-N5	EB5-4-N5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**15**	--	--	--	--	--	--
		EB5-4-N5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.6**	--	--	--	--	--	--
		EB5-4-N5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.1**	--	--	--	--	--	--
	EB5-4-N10	EB5-4-N10-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**17**	--	--	--	--	--	--
		EB5-4-N10-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**5.8**	--	--	--	--	--	--
		EB5-4-N10-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.8**	--	--	--	--	--	--
	EB5-4-S7.5	EB5-4-S7.5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**21**	--	--	--	--	--	--
		EB5-4-S7.5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.6**	--	--	--	--	--	--
		EB5-4-S7.5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.3**	--	--	--	--	--	--
	EB5-5	EB5-5-0.5	0.5	12/29/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**3.6**	**22**	--	--	--	--	--	--
		EB5-5-1.5	1.5	12/29/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**2.5**	**8.5**	--	--	--	--	--	--
		EB5-5-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB5-6	EB5-6-0.5	0.5	12/29/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**3.8**	**24**	--	--	--	--	2.6 J	ND
		EB5-6-1.5	1.5	12/29/16	<2.2 D1	<2.0 D1	<1.3 D1	5.5 D1, J	67 D1, J	<2.5 D1	<2.3 D1	6.0 D1, J	<2.0 D1	<1.8 D1	ND	**1.5**	**67**	--	**1.9 D1**	--	--	--	--
		EB5-6-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Classroom Building No. 6 (EB6)	EB6-1	EB6-1-0.5	0.5	12/29/16	<1.1 D1	1.6 D1, J	<0.67 D1	<1.1 D1	<4.5 D1	<1.2 D1	<1.1 D1	<1.1 D1	<1.0 D1	<0.89 D1	ND	**3.4**	**15**	--	--	--	--	--	--
		EB6-1-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.1**	**8.7**	--	--	--	--	--	--
		EB6-1-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB6-2	EB6-2-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.4**	**3.5**	--	--	--	--	--	--
		EB6-2-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.5**	**3.1**	--	--	--	--	<1.5	ND
		EB6-2-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB6-3*	EB6-3-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**4.3**	--	--	--	--	--	--
		EB6-3-1.5	1.5	1/3/17	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**1.0**	**3.1**	--	--	--	--	--	--
		EB6-3-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Classroom Building No. 8 (EB8)	EB8-1	EB8-1-0.5	0.5	12/29/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**3.2**	**39**	--	--	--	--	--	--
		EB8-1-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**3.5**	--	--	--	--	<1.5	ND
		EB8-1-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB8-2	EB8-2-0.5	0.5	12/29/16	<0.22	<0.20	0.22 J	<0.21	<0.90	<0.25	<0.23	0.23 J	<0.20	<0.18	ND	**10**	**9.4**	--	--	--	--	--	--
		EB8-2-1.5	1.5	12/29/16	<0.22	0.21 J	0.61 J	0.31 J	2.5 J	<0.25	<0.23	0.33 J	<0.20	<0.18	ND	**7.7**	**3.5**	--	--	--	--	--	--
		EB8-2-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB8-3	EB8-3-0.5	0.5	12/29/16	0.29 J	0.20 J	0.52 J	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**16**	--	--	--	--	2.7 J	ND
		EB8-3-1.5	1.5	12/29/16	0.23 J	<0.20	0.45 J	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.3**	**6.1**	--	--	--	--	--	--
		EB8-3-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB8-4	EB8-4-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.4**	**3.9**	--	--	--	--	--	--
		EB8-4-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.5**	**4.2**	--	--	--	--	--	--
		EB8-4-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB8-5	EB8-5-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.3**	**3.6**	--	--	--	--	--	--
		EB8-5-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.1**	**2.8**	--	--	--	--	--	--
		EB8-5-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB8-6	EB8-6-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.9**	**50**	--	0.72 D1, J	--	--	--	--
		EB8-6-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**3.7**	--	--	--	--	--	--
		EB8-6-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Classroom Building No. 9 (EB9)	EB9-1	EB9-1-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.8**	**150**	--	**16**	--	**0.38 D1**	--	--
		EB9-1-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.0**	**18**	--	--	--	--	<1.5	ND
		EB9-1-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Step out boreholes near boring EB9-1:																						
	EB9-1-W5	EB9-1-W5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**260**	--	**6.6 D1**	--	0.35 D1	--	--
		EB9-1-W5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**21**	--	--	--	--	--	--
		EB9-1-W5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**5.5**	--	--	--	--	--	--
	EB9-1-S5	EB9-1-S5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**99**	--	**9.3 D1**	--	0.10 D1,J	--	--
		EB9-1-S5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**2700 D6**	--	**2.3 D1**	--	<0.014 D1	--	--
		EB9-1-S5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.9**	--	--	--	--	--	--
	EB9-1-S10	EB9-1-S10-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**34**	--	--	--	--	--	--
		EB9-1-S10-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**36**	--	--	--	--	--	--
		EB9-1-S10-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**7.6**	--	--	--	--	--	--
	EB9-1-E5	EB9-1-E5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**230**	--	**51 D1**	--	**0.74 D1**	--	--
		EB9-1-E5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**20**	--	--	--	--	--	--
		EB9-1-E5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.6**	--	--	--	--	--	--
	EB9-1-E9	EB9-1-E9-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**26**	--	--	--	--	--	--
		EB9-1-E9-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	**2.5 D1**	--	0.019 D1,J	--	--
		EB9-1-E9-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**40**	--	--	--	--	--	--
	EB9-2	EB9-2-0.5	0.5	12/29/16	<0.22	0.39 J	<0.13	**1.5**	**13**	0.29 J	<0.23	**1.5**	<0.20	<0.18	ND	**5.2**	**13**	--	--	--	--	--	--
		EB9-2-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**4.5**	--	--	--	--	--	--
		EB9-2-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB9-3	EB9-3-0.5	0.5	12/29/16	<0.22	0.49 J	0.38 J	0.56 J	6.1 J	<0.25	<0.23	0.60 J	<0.20	<0.18	ND	**2.4**	**17**	--	--	--	--	--	--
		EB9-3-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	0.92 J	**3.4**	--	--	--	--	<1.5	ND
		EB9-3-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB9-4	EB9-4-0.5	0.5	12/29/16	<1.1 D1	<0.98 D1	<0.67 D1	4.9 D1, J	38 D1, J	<1.2 D1	<1.1 D1	**5.5 D1**	1.5 D1, J	<0.89 D1	ND	**1.9**	**28**	--	--	--	--	--	--
		EB9-4-1.5	1.5	12/29/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**1.5**	**12**	--	--	--	--	--	--
		EB9-4-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB9-5	EB9-5-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**4.2**	**69**	--	**2.3**	--	--	--	--
		EB9-5-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	0.37 J	3.6 J	<0.25	<0.23	0.31 J	<0.20	<0.18	ND	**3.8**	**53**	--	**2.1**	--	--	--	--
		EB9-5-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB9-6	EB9-6-0.5	0.5	12/29/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**40**	**34**	--	--	--	--	3.7 J	ND
		EB9-6-1.5	1.5	12/29/16	<11 D1	<9.8 D1	<6.7 D1	<11 D1	<45 D1	<12 D1	<11 D1	<11 D1	<10 D1	<8.9 D1	ND	**18**	**54**	--	**2.9 D1**	--	--	--	--
		EB9-6-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	**22**	--	--	--	--	--	--	--
	Step out boreholes near boring EB9-6:																						
	EB9-6-N5	EB9-6-N5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**78**	--	**2.1 D1**	--	0.12 D1, J	--	--	--
		EB9-6-N5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**29**	--	--	--	--	--	--	--
		EB9-6-N5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**39**	--	--	--	--	--	--	--
		EB9-6-N5-3	3.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**48**	--	--	--	--	--	--	--
		EB9-6-N5-4	4.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**24**	--	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Classroom Building No. 9 (EB9)	EB9-6-N10	EB9-6-N10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**2.3**	--	--	--	--	--	--	--
		EB9-6-N10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**1.7**	--	--	--	--	--	--	--
		EB9-6-N10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**3.7**	--	--	--	--	--	--	--
		EB9-6-N10-3	3.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**4.8**	--	--	--	--	--	--	--
		Refusal below 3 ft depth.																					
	EB9-6-S5	EB9-6-S5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**1.5**	--	--	--	--	--	--	--
		EB9-6-S5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**2.8**	--	--	--	--	--	--	--
		EB9-6-S5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**1.5**	--	--	--	--	--	--	--
		EB9-6-S5-3	3.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**4.1**	--	--	--	--	--	--	--
		EB9-6-S5-4	4.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**3.1**	--	--	--	--	--	--	--
	EB9-6-S10	EB9-6-S10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**2.0**	--	--	--	--	--	--	--
		EB9-6-S10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**2.8**	--	--	--	--	--	--	--
		EB9-6-S10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**1.8**	--	--	--	--	--	--	--
		EB9-6-S10-3	3.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**5.0**	--	--	--	--	--	--	--
		Refusal below 3 ft depth.																					
	EB9-6-E5	EB9-6-E5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**8.6**	--	--	--	--	--	--	--
		EB9-6-E5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**13**	--	--	--	--	--	--	--
		EB9-6-E5-1.5-D	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**8.5**	--	--	--	--	--	--	--
		EB9-6-E5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**1.5**	--	--	--	--	--	--	--
		EB9-6-E5-3	3.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**3.3**	--	--	--	--	--	--	--
		EB9-6-E5-3-D	3.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**3.1**	--	--	--	--	--	--	--
		EB9-6-E5-4	4.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**3.1**	--	--	--	--	--	--	--
	EB9-6-E10	EB9-6-E10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**3.0**	--	--	--	--	--	--	--
		EB9-6-E10-0.5-D	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**1.8**	--	--	--	--	--	--	--
		EB9-6-E10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	0.98 J	--	--	--	--	--	--	--
		EB9-6-E10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**1.0**	--	--	--	--	--	--	--
		EB9-6-E10-3	3.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**2.8**	--	--	--	--	--	--	--
		EB9-6-E10-4	4.0	4/11/17	--	--	--	--	--	--	--	--	--	--	--	**2.8**	--	--	--	--	--	--	--
	EB9-7**	EB9-7-0.5	0.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	**2.3**	**250**	--	**12 D1**	--	**0.34 D1**	<1.5	ND
		EB9-7-1.5	1.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	**2.1**	**130**	--	**9.3 D1**	--	0.036 D1, J	<1.5	ND
		EB9-7-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	**1.5**	**11**	--	--	--	--	<1.5	ND
	Step out boreholes near boring EB9-7:																						
	EB9-7-W6	EB9-7-W6-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**6.4**	--	--	--	--	--	--
		EB9-7-W6-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**9.6**	--	--	--	--	--	--
		EB9-7-W6-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.1**	--	--	--	--	--	--
Storage Building No. 10 (EB10)	EB10-1	EB10-1-0.5	0.5	12/29/16	<11 D1	<9.8 D1	<6.7 D1	<11 D1	<45 D1	<12 D1	<11 D1	<11 D1	<10 D1	<8.9 D1	ND	**3.0**	**25**	--	--	--	--	--	--
		EB10-1-1.5	1.5	12/29/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**3.8**	**58**	--	**4.9 D1**	--	--	--	--
		EB10-1-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB10-2*	EB10-2-0.5	0.5	12/28/16	0.28 J	**3.1**	1.1 J	0.95 J	**10**	0.33 J	<0.23	**1.4**	<0.20	<0.18	ND	**12**	**220**	--	**7.6 D1**	--	<0.014 D1	--	--
		Refusal ~0.5' bgs in boring.																		--			
	Step out boreholes near boring EB10-2:																						
	EB10-2-W5	EB10-2-W5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**85**	--	**4.2 D1**	--	0.044 D1,J	--	--
		EB10-2-W5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	**1.6 D1**	--	<0.014 D1	--	--
		EB10-2-W5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**6.5**	--	--	--	--	--	--
	EB10-2-W10	EB10-2-W10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**24**	--	--	--	--	--	--
		EB10-2-W10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**92**	--	**4.5 D1**	--	<0.014 D1	--	--
		EB10-2-W10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.3**	--	--	--	--	--	--
		EB10-2-W10-2.5-	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**5.2**	--	--	--	--	--	--
	EB10-2-S5	EB10-2-S5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**38**	--	--	--	--	--	--
		EB10-2-S5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**100**	--	**9.7 D1**	--	0.070 D1,J	--	--
		EB10-2-S5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.0**	--	--	--	--	--	--
	EB10-2-S10	EB10-2-S10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**55**	--	**2.6 D1**	--	0.042 D1,J	--	--
		EB10-2-S10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	**2.8 D1**	**--**	0.042 D1,J	--	--
		EB10-2-S10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**61**	--	**2.0 D1**	--	<0.014 D1	--	--
	EB10-2-S15	EB10-2-S15-0.5	0.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**48.9**	--	--	--	--	--	--
		EB10-2-S15-1.5	1.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**72.9**	--	**3.37**	**--**	<0.05	--	--
		EB10-2-S15-2.5	2.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.60**	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Storage Building No. 10 (EB10)	EB10-2-S20	EB10-2-S20-0.5	0.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**74.3**	--	**3.67**	**--**	<0.05	--	--
		EB10-2-S20-1.5	1.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**87.7**	--	**6.40**	**--**	<0.05	--	--
		EB10-2-S20-2.5	2.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**42.8**	--	**--**	**--**	**--**	--	--
Tool Room Building No. 11 (EB11)	EB11-1	EB11-1-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**4.6**	**84**	--	**4.9 D1**	--	--	6.1 J	ND
		EB11-1-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**5.7**	**65**	--	**3.0 D1**	--	--	--	--
		EB11-1-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Step out boreholes near boring EB11-1:																						
	EB11-1-W5	EB11-1-W5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**50**	--	--	--	--	--	--
		EB11-1-W5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	**2.5 D1**	--	<0.014 D1	--	--
		EB11-1-W5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.3**	--	--	--	--	--	--
	EB11-1-W10	EB11-1-W10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**54**	--	**3.6 D1**	--	<0.014 D1	--	--
		EB11-1-W10-0.5-	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**26**	--	--	--	--	--	--
		EB11-1-W10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**18**	--	--	--	--	--	--
		EB11-1-W10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**5.4**	--	--	--	--	--	--
	EB11-1-S5	EB11-1-S5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**70**	--	**3.5 D1**	--	<0.014 D1	--	--
		EB11-1-S5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**100**	--	**4.0 D1**	--	<0.014 D1	--	--
		EB11-1-S5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**66**	--	**3.6 D1**	--	<0.014 D1	--	--
	EB11-1-S10	EB11-1-S10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	**10 D1**	--	0.043 D1,J	--	--
		EB11-1-S10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**37**	--	--	--	--	--	--
		EB11-1-S10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.5**	--	--	--	--	--	--
	EB11-1-S15	EB11-1-S15-0.5	0.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**231**	--	**10.4**	--	**0.278**	--	--
		EB11-1-S15-1.5	1.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**94.8**	--	**2.02**	--	<0.05	--	--
	EB11-2	EB11-2-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**6.8**	**90**	--	**3.9 D1**	--	--	--	--
		EB11-2-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.2**	**46**	--	--	--	--	--	--
		EB11-2-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Step out boreholes near boring EB11-2:																						
	EB11-2-N5	EB11-2-N5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**44**	--	--	--	--	--	--
		EB11-2-N5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**47**	--	--	--	--	--	--
		EB11-2-N5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**5.7**	--	--	--	--	--	--
	EB11-2-N10	EB11-2-N10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**36**	--	--	--	--	--	--
		EB11-2-N10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**75**	--	**7.8 D1**	--	<0.014 D1	--	--
		EB11-2-N10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**27**	--	--	--	--	--	--
	EB11-2-N15	EB11-2-N15-0.5	0.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**68.8**	--	**3.16**	--	<0.05	--	--
		EB11-2-N15-0.5-D	0.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**79.3**	--	**3.10**	--	<0.05	--	--
		EB11-2-N15-1.5	1.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**72.0**	--	**4.15**	--	<0.05	--	--
		EB11-2-N15-2.5	2.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	--	**63.9**	--	**2.01**	--	<0.05	--	--
	EB11-2-S5	EB11-2-S5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**56**	--	**2.7 D1**	--	0.017 D1,J	--	--
		EB11-2-S5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**82**	--	**4.0 D1**	--	0.019 D1,J	--	--
		EB11-2-S5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**83**	--	**3.6 D1**	--	<0.014 D1	--	--
	EB11-2-S10	EB11-2-S10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	**3.7 D1**	--	**0.019 D1,J**	--	--
		EB11-2-S10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**72**	--	**5.5 D1**	--	<0.014 D1	--	--
		EB11-2-S10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.7**	--	--	--	--	--	--
		EB11-2-S10-2.5-D	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.4**	--	--	--	--	--	--
	EB11-2-E5	EB11-2-E5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	**5.2 D1**	--	<0.014 D1	--	--
		EB11-2-E5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**44**	--	--	--	--	--	--
		EB11-2-E5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**42**	--	--	--	--	--	--
		EB11-2-E5-2.5-D	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**25**	--	--	--	--	--	--
Storage Building No. 12 (EB12)	EB12-1	EB12-1-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	0.44 J	3.7 J	<0.25	<0.23	0.38 J	<0.20	<0.18	ND	**55**	**74**	**2.3 D1**	**3.2 D1**	--	--	--	--
		EB12-1-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**40**	**28**	--	--	--	--	--	--
		EB12-1-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	**11**	--	--	--	--	--	--	--
	Step out boreholes near boring EB12-1:																						
	EB12-1-N5	EB12-1-N5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**48**	--	--	--	--	--	--	--
		EB12-1-N5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**25**	--	--	--	--	--	--	--
		EB12-1-N5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**4.2**	--	--	--	--	--	--	--
	EB12-1-N10	EB12-1-N10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**51**	--	**2.0 D1**	--	0.12 D1,J	--	--	--
		Refusal below 0.5 ft depth.																					

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Storage Building No. 12 (EB12)	EB12-1-S5	EB12-1-S5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**30**	--	--	--	--	--	--	--
		EB12-1-S5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**77**	--	**2.4 D1**	--	**0.39 D1**	--	--	--
		EB12-1-S5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**11**	--	--	--	--	--	--	--
	EB12-1-S10	EB12-1-S10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**45**	--	--	--	--	--	--	--
		EB12-1-S10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**53**	--	**2.2 D1**	--	**0.32 D1**	--	--	--
		EB12-1-S10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**3.0**	--	--	--	--	--	--	--
	EB12-1-S15	EB12-1-S15-0.5	0.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	**59.7**	--	**2.46**	--	**0.095**	--	--	--
		EB12-1-S15-1.5	1.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	**44.1**	--	--	--	--	--	--	--
		EB12-1-S15-2.5	2.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	**42.7**	--	--	--	--	--	--	--
	EB12-1-S20	EB12-1-S20-0.5	0.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	**38.2**	--	--	--	--	--	--	--
		EB12-1-S20-0.5-D	0.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	**78.6**	--	**2.31**	--	**0.169**	--	--	--
		EB12-1-S20-1.5	1.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	**48.4**	--	--	--	--	--	--	--
		EB12-1-S20-2.5	2.5	7/17/17	--	--	--	--	--	--	--	--	--	--	--	**17.4**	--	--	--	--	--	--	--
	EB12-2	EB12-2-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.2**	**33**	--	--	--	--	--	--
		EB12-2-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.4**	**5.9**	--	--	--	--	--	--
		EB12-2-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB13-1	EB13-1-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.6**	**600**	--	**6.6 D1**	--	0.016 D1,J	--	--
		EB13-1-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**6.5**	--	--	--	--	<1.5	ND
		EB13-1-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Step out boreholes near boring EB13-1:																						
	EB13-1-W5	EB13-1-W5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**220**	--	**7.5 D1**	--	0.022 D1,J	--	--
		EB13-1-W5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**7.1**	--	--	--	--	--	--
		EB13-1-W5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.5**	--	--	--	--	--	--
	EB13-1-W10	EB13-1-W10-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**61**	--	**7.8 D1**	--	0.026 D1,J	--	--
		EB13-1-W10-0.5-	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**120**	--	**11 D1**	--	0.017 D1,J	--	--
		EB13-1-W10-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.5**	--	--	--	--	--	--
		EB13-1-W10-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.1**	--	--	--	--	--	--
	EB13-1-E5	EB13-1-E5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**150**	--	**7.5 D1**	--	0.021 D1, J	--	--
		EB13-1-E5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**11**	--	--	--	--	--	--
		EB13-1-E5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**14**	--	--	--	--	--	--
	EB13-2	EB13-2-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**12**	**520**	--	**11 D1**	--	0.053 D1, J	<1.5	ND
		EB13-2-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.2**	**6.9**	--	--	--	--	--	--
		EB13-2-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Storage Building No. 13 (EB13)	*Step out boreholes near boring EB13-2:*																						
	EB13-2-N5	EB13-2-N5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**210**	--	**15 D1**	--	0.028 D1, J	--	--
		EB13-2-N5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**12**	--	--	--	--	--	--
		EB13-2-N5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**9.8**	--	--	--	--	--	--
	EB13-2-N10	EB13-2-N10-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**82**	--	3.1 D1	--	<0.014 D1	--	--
		EB13-2-N10-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**22**	--	--	--	--	--	--
		EB13-2-N10-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**6.1**	--	--	--	--	--	--
	EB13-2-W5	EB13-2-W5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**350**	--	**30 D1**	--	0.69 D1	--	--
		EB13-2-W5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**190**	--	**15 D1**	--	0.19 D1, J	--	--
		EB13-2-W5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.2**	--	--	--	--	--	--
	EB13-2-W10	EB13-2-W10-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**140**	--	**6.8 D1**	--	0.060 D1,J	--	--
		EB13-2-W10-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**140**	--	**5.8 D1**	--	<0.014 D1	--	--
		EB13-2-W10-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.8**	--	--	--	--	--	--
		EB13-2-W10-2.5-	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.8**	--	--	--	--	--	--
	EB13-2-S5	EB13-2-S5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	**9.0 D1**	--	0.047 D1,J	--	--
		EB13-2-S5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.4**	--	--	--	--	--	--
		EB13-2-S5-1.5-D	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**12**	--	--	--	--	--	--
		EB13-2-S5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.4**	--	--	--	--	--	--
	EB13-2-S10	EB13-2-S10-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**84**	--	**6.6 D1**	--	0.036 D1,J	--	--
		EB13-2-S10-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**9.9**	--	--	--	--	--	--
		EB13-2-S10-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.6**	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Storage Building No. 15 (EB15)	EB15-1	EB15-1-0.5	0.5	12/28/16	<0.22	<0.20	0.20 J	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**51**	**46**	**2.2 D1**	--	--	--	--	--
		EB15-1-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**21**	**9.0**	--	--	--	--	--	--
		EB15-1-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	**14**	**--**	--	--	--	--	--	--
	Step out boreholes near boring EB15-1:																						
	EB15-1-S5	EB15-1-S5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**82**	--	**4.8 D1**	--	**0.97 D1**	--	--	--
		EB15-1-S5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**32**	--	--	--	--	--	--	--
		EB15-1-S5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	**32**	--	--	--	--	--	--	--
		EB15-1-S5-3	3.0	4/12/17	--	--	--	--	--	--	--	--	--	--	--	**25**	--	--	--	--	--	--	--
		EB15-1-S5-3-D	3.0	4/12/17	--	--	--	--	--	--	--	--	--	--	--	**16**	--	--	--	--	--	--	--
		EB15-1-S5-4	4.0	4/12/17	--	--	--	--	--	--	--	--	--	--	--	**3.0**	--	--	--	--	--	--	--
	EB15-2	EB15-2-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**4.0**	**24**	--	--	--	--	--	--
		EB15-2-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.5**	**12**	--	--	--	--	--	--
		EB15-2-2.5	2.5	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Classroom Building No. 16 (EB16)	EB16-1	EB16-1-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**20**	--	--	--	--	--	--
		EB16-1-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.2**	**78**	--	0.64 D1, J	--	--	--	--
		EB16-1-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB16-2	EB16-2-0.5	0.5	12/29/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**2.4**	**19**	--	--	--	--	--	--
		EB16-2-1.5	1.5	12/29/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**2.0**	**8.8**	--	--	--	--	--	--
		EB16-2-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB16-3	EB16-3-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**5.3**	--	--	--	--	--	--
		EB16-3-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	<0.70	**1.7**	--	--	--	--	--	--
		EB16-3-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cafeteria/ Classroom Building No. 20 (EB20)	EB20-1	EB20-1-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	0.29 J	4.0 J	<0.25	<0.23	0.43 J	<0.20	<0.18	ND	**1.3**	**4.5**	--	--	--	--	2.6 J	ND
		EB20-1-0.5-D	0.5	1/3/17	<0.22	<0.20	0.30 J	0.94 J	**9.2**	<0.25	<0.23	**1.3**	<0.20	<0.18	ND	**1.8**	**5.0**	--	--	--	--	--	--
		EB20-1-1.5	1.5	1/3/17	<0.22	0.66 J	1.9 J	**7.7**	**58**	0.79 J	<0.23	**7.2**	0.41 J	<0.18	ND	**5.1**	**16**	--	--	--	--	--	--
		EB20-1-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB20-2	EB20-2-0.5'	0.5	1/3/17	<1.1 D1	<0.98 D1	1.2 D1, J	<1.1 D1	9.4 D1, J	<1.2 D1	<1.1 D1	<1.1 D1	<1.0 D1	<0.89 D1	ND	**1.8**	**9.0**	--	--	--	--	--	--
		EB20-2-0.5-D	0.5	1/3/17	<0.22	<0.20	0.22 J	0.26 J	2.6 J	<0.25	<0.23	0.37 J	<0.20	<0.18	ND	**1.4**	**6.1**	--	--	--	--	--	--
		EB20-2-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	0.59 J	<0.90	<0.25	<0.23	**1.0**	<0.20	<0.18	ND	**2.9**	**56**	--	0.56 D1, J	--	--	--	--
		EB20-2-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB20-3	EB20-3-0.5	0.5	1/3/17	<0.22	<0.20	0.33 J	**1.1**	<0.90	<0.25	<0.23	**1.4**	<0.20	<0.18	ND	**2.4**	**13**	--	--	--	--	--	--
		EB20-3-0.5-D	0.5	1/3/17	<0.22	<0.20	0.29 J	0.92 J	<0.90	<0.25	<0.23	**1.8**	<0.20	<0.18	ND	**2.8**	**20**	--	--	--	--	--	--
		EB20-3-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	0.56 J	<0.20	<0.18	ND	**2.3**	**9.4**	--	--	--	--	<1.5	ND
		EB20-3-1.5-D	1.5	1/3/17	<0.22	0.29 J	<0.13	0.26 J	<0.90	<0.25	<0.23	**1.4**	<0.20	<0.18	ND	**2.5**	**17**	--	--	--	--	--	--
		EB20-3-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB20-4	EB20-4-0.5	0.5	1/3/17	<0.22	<0.20	0.89 J	0.54 J	<0.90	<0.25	<0.23	**2.5**	<0.20	<0.18	ND	**3.0**	**21**	--	--	--	--	--	--
		EB20-4-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	0.41 J	<0.90	<0.25	<0.23	**1.7**	<0.20	<0.18	ND	**7.4**	**18**	--	--	--	--	--	--
		EB20-4-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	**1.7**	<0.20	<0.18	ND	**5.4**	**16**	--	--	--	--	--	--
		EB20-4-1.5-D	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	**1.2**	<0.20	<0.18	ND	**4.7**	**14**	--	--	--	--	--	--
		EB20-4-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB20-5	EB20-5-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.1**	**3.6**	--	--	--	--	--	--
		EB20-5-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	0.25 J	<0.20	<0.18	ND	**3.2**	**22**	--	--	--	--	--	--
		EB20-5-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**4.5**	--	--	--	--	--	--
		EB20-5-1.5-D	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.2**	**5.7**	--	--	--	--	--	--
		EB20-5-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB20-6	EB20-6-0.5	0.5	1/3/17	<0.22	0.38 J	0.86 J	<0.21	<0.90	<0.25	<0.23	**2.1**	<0.20	<0.18	ND	**3.3**	**74**	--	**7.3 D1**	--	--	--	--
		EB20-6-0.5-D	0.5	1/3/17	<0.22	0.42 J	1.2 J	<0.21	<0.90	<0.25	<0.23	**1.4**	<0.20	<0.18	ND	**3.0**	**120**	--	**10 D1**	--	0.041 D1, J	--	--
		EB20-6-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	0.68 J	<0.20	<0.18	ND	**2.3**	**16**	--	--	--	--	--	--
		EB20-6-1.5-D	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**7.7**	--	--	--	--	--	--
		EB20-6-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Step out boreholes near boring EB20-6:																						
	EB20-6-N5	EB20-6-N5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**99**	--	**4.1 D1**	--	0.091 D1,J	--	--
		EB20-6-N5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**13**	--	--	--	--	--	--
		EB20-6-N5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.4**	--	--	--	--	--	--
	EB20-6-N10	EB20-6-N10-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**23**	--	--	--	--	--	--
		EB20-6-N10-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**13**	--	--	--	--	--	--
		EB20-6-N10-1.5-D	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**19**	--	--	--	--	--	--
		EB20-6-N10-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.1**	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Cafeteria/ Classroom Building No. 20 (EB20)	EB20-6-W5	EB20-6-W5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**33**	--	--	--	--	--	--
		EB20-6-W5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**15**	--	--	--	--	--	--
		EB20-6-W5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.4**	--	--	--	--	--	--
	EB20-6-W8	EB20-6-W8-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**27**	--	--	--	--	--	--
		EB20-6-W8-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**16**	--	--	--	--	--	--
		EB20-6-W8-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.6**	--	--	--	--	--	--
		EB20-6-W8-2.5-D	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**6.9**	--	--	--	--	--	--
	EB20-6-S5	EB20-6-S5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**54**	--	**2.3 D1**	--	<0.014 D1	--	--
		EB20-6-S5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**12**	--	--	--	--	--	--
		EB20-6-S5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.1**	--	--	--	--	--	--
	EB20-7	EB20-7-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	0.76 J	**2.2**	--	--	--	--	--	--
		EB20-7-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	**20**	<0.90	<0.25	<0.23	**16**	<0.20	<0.18	ND	**3.8**	**10**	--	--	--	--	--	--
		EB20-7-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB20-8	EB20-8-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	<0.70	**1.9**	--	--	--	--	--	--
		EB20-8-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.2**	**6.1**	--	--	--	--	--	--
		EB20-8-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	0.26 J	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.8**	**7.7**	--	--	--	--	--	--
		EB20-8-1.5-D	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.3**	**4.5**	--	--	--	--	--	--
		EB20-8-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Classroom Building No. 22 (EB22)	EB22-1	EB22-1-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.3**	**3.0**	--	--	--	--	--	--
		EB22-1-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.3**	**3.0**	--	--	--	--	<1.5	ND
		EB22-1-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.5**	**3.0**	--	--	--	--	--	--
		EB22-1-1.5-D	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**3.1**	--	--	--	--	--	--
		EB22-1-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB22-2*	EB22-2-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.4**	**3.9**	--	--	--	--	--	--
		EB22-2-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.2**	**3.2**	--	--	--	--	<1.5	ND
		EB22-2-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Classroom Building No. 23 (EB23)	EB23-1	EB23-1-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	0.25 J	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**13**	**52**	--	0.24 D1, J	--	--	--	--
		EB23-1-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**4.6**	--	--	--	--	--	--
		EB23-1-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB23-2	EB23-2-0.5	0.5	1/3/17	<0.22	1.9 J	**7.7**	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**5.8**	**8.0**	--	--	--	--	--	--
		EB23-2-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**5.1**	**150**	--	**2.0 D1**	--	<0.014 D1	--	--
		EB23-2-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**2.8**	--	--	--	--	--	--
		EB23-2-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Step out boreholes near boring EB23-2:																						
	EB23-2-N5	EB23-2-N5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**9.7**	--	--	--	--	--	--
		EB23-2-N5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**6.0**	--	--	--	--	--	--
		EB23-2-N5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.5**	--	--	--	--	--	--
	EB23-2-N8	EB23-2-N8-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.4**	--	--	--	--	--	--
		EB23-2-N8-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.5**	--	--	--	--	--	--
		EB23-2-N8-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.8**	--	--	--	--	--	--
	EB23-2-W5	EB23-2-W5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**27**	--	--	--	--	--	--
		EB23-2-W5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.1**	--	--	--	--	--	--
		EB23-2-W5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.8**	--	--	--	--	--	--
	EB23-2-W10	EB23-2-W10-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**7.5**	--	--	--	--	--	--
		EB23-2-W10-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**12**	--	--	--	--	--	--
		EB23-2-W10-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.3**	--	--	--	--	--	--
	EB23-2-S5	EB23-2-S5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**6.5**	--	--	--	--	--	--
		EB23-2-S5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.2**	--	--	--	--	--	--
		EB23-2-S5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.1**	--	--	--	--	--	--
	EB23-2-S10	EB23-2-S10-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**12**	--	--	--	--	--	--
		EB23-2-S10-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**5.8**	--	--	--	--	--	--
		EB23-2-S10-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.7**	--	--	--	--	--	--
	EB23-2-E5	EB23-2-E5-0.5	0.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.8**	--	--	--	--	--	--
		EB23-2-E5-1.5	1.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.5**	--	--	--	--	--	--
		EB23-2-E5-2.5	2.5	4/11/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.2**	--	--	--	--	--	--
	EB23-3*	EB23-3-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	1.6 J	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**5.0**	--	--	--	--	<1.5	ND
		EB23-3-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	0.73 J	**5.2**	--	--	--	--	<1.5	ND
		EB23-3-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Classroom Building No. 24 (EB24)	EB24-1	EB24-1-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.6**	**2.5**	--	--	--	--	<1.5	ND
		EB24-1-1.5	1.5	12/29/16	<0.22	0.73 J	0.62 J	0.65 J	7.6 J	<0.25	<0.23	0.76 J	<0.20	<0.18	ND	**3.7**	**7.5**	--	--	--	--	--	--
		EB24-1-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB24-2	EB24-2-0.5	0.5	12/29/16	<0.22	0.71 J	<0.13	0.30 J	2.7 J	<0.25	<0.23	0.23 J	<0.20	<0.18	ND	**2.8**	**8.5**	--	--	--	--	--	--
		EB24-2-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.5**	**17**	--	--	--	--	--	--
		EB24-2-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB24-3	EB24-3-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	0.25 J	3.0 J	<0.25	<0.23	0.34 J	<0.20	<0.18	ND	**2.1**	**10**	--	--	--	--	--	--
		EB24-3-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	<0.70	**2.5**	--	--	--	--	--	--
		EB24-3-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB24-4	EB24-4-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.4**	**3.4**	--	--	--	--	<1.5	ND
		EB24-4-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	0.76 J	**2.7**	--	--	--	--	--	--
		EB24-4-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.5**	**4.3**	--	--	--	--	--	--
		EB24-4-1.5-D	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**5.7**	--	--	--	--	--	--
		EB24-4-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB24-5	EB24-5-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**4.5**	--	--	--	--	--	--
		EB24-5-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**6.0**	**9.0**	--	--	--	--	--	--
		EB24-5-1.0	1.0	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**5.7**	**7.3**	--	--	--	--	--	--
		EB24-5-1.0-D	1.0	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**6.8**	**7.9**	--	--	--	--	--	--
		Refusal at 1.25' bgs in boring (possible cobble).																					
	EB24-6*	EB24-6-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**10**	--	--	--	--	--	--
		EB24-6-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.3**	**4.5**	--	--	--	--	--	--
		EB24-6-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Classroom Building No. 25 (EB25)	EB25-1	EB25-1-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**3.4**	--	--	--	--	--	--
		EB25-1-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**4.4**	--	--	--	--	--	--
		EB25-1-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.0**	**3.6**	--	--	--	--	--	--
		EB25-1-2.5	2.5	1/3/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EB25-2	EB25-2-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**5.7**	**16**	--	--	--	--	--	--
		Refusal at 1' bgs in boring (unknown obstruction).																					
	EB25-3*	EB25-3-0.5	0.5	12/29/16	<0.22	0.21 J	<0.13	0.46 J	4.0 J	<0.25	<0.23	0.41 J	<0.20	<0.18	ND	**3.4**	**10**	--	--	--	--	--	--
		EB25-3-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.1**	**4.9**	--	--	--	--	<1.5	ND
		EB25-3-2.5	2.5	12/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Former Building No. 1 (FB1)	FB1-1	FB1-1-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	0.28 J	2.3 J	<0.25	<0.23	0.33 J	<0.20	<0.18	ND	<0.70	**2.2**	--	--	--	--	1.6 J	ND
		FB1-1-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	<0.70	**2.2**	--	--	--	--	--	--
		FB1-1-1.5	1.5	1/3/17	0.79 J	1.1 J	0.32 J	**1.5**	**11**	<0.25	<0.23	**1.3**	<0.20	<0.18	ND	**3.0**	**19**	--	--	--	--	--	--
		FB1-1-1.5-D	1.5	1/3/17	0.23 J	0.25 J	<0.13	**2.4**	**16**	<0.25	<0.23	**1.7**	<0.20	<0.18	ND	**2.8**	**21**	--	--	--	--	--	--
		FB1-1-2.5	2.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**3.5**	--	--	--	--	--	--
	FB1-2	FB1-2-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**4.2**	--	--	--	--	--	--
		FB1-2-0.5-D	0.5	1/3/17	0.32 J	0.23 J	<0.13	<0.21	1.5 J	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.2**	**12**	--	--	--	--	--	--
		FB1-2-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**3.6**	--	--	--	--	--	--
		FB1-2-1.5-D	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**3.6**	--	--	--	--	--	--
		FB1-2-2.5	2.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**3.8**	--	--	--	--	--	--
	FB1-3	FB1-3-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	0.29 J	2.5 J	<0.25	<0.23	<0.23	<0.20	<0.18	ND	<0.70	**1.6**	--	--	--	--	<1.5	ND
		FB1-3-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	0.23 J	2.7 J	<0.25	<0.23	0.54 J	<0.20	<0.18	ND	**1.3**	**2.3**	--	--	--	--	--	--
		FB1-3-1.5	1.5	1/3/17	<0.22	0.29 J	<0.13	0.34 J	3.2 J	<0.25	<0.23	0.33 J	<0.20	<0.18	ND	**2.6**	**9.3**	--	--	--	--	--	--
		FB1-3-1.5-D	1.5	1/3/17	<0.22	<0.20	<0.13	**1.1**	**8.9**	<0.25	<0.23	**1.3**	<0.20	<0.18	ND	**2.6**	**10**	--	--	--	--	--	--
		FB1-3-2.5	2.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	0.27 J	<0.20	<0.18	ND	**1.3**	**3.2**	--	--	--	--	--	--
	FB1-4	FB1-4-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.2**	**4.0**	--	--	--	--	--	--
		FB1-4-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**7.7**	--	--	--	--	--	--
		FB1-4-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.5**	**3.7**	--	--	--	--	--	--
		FB1-4-1.5-D	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.4**	**3.5**	--	--	--	--	--	--
		FB1-4-2.5	2.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.0**	**3.8**	--	--	--	--	--	--
	FB1-5	FB1-5-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	<0.70	**2.3**	--	--	--	--	--	--
		FB1-5-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.2**	**3.3**	--	--	--	--	--	--
		FB1-5-1.5	1.5	1/3/17	<0.22	<0.20	0.21 J	0.47 J	3.6 J	<0.25	<0.23	0.44 J	<0.20	<0.18	ND	**1.9**	**12**	--	--	--	--	--	--
		FB1-5-1.5-D	1.5	1/3/17	<0.22	0.35 J	0.22 J	**2.4**	**16**	<0.25	<0.23	**1.4**	0.29 J	<0.18	ND	**3.6**	**14**	--	--	--	--	--	--
		FB1-5-2.5	2.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**2.8**	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Former Building No. 1 (FB1)	FB1-6	FB1-6-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**3.3**	--	--	--	--	--	--
		FB1-6-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**3.3**	--	--	--	--	--	--
		FB1-6-1.5-D	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**4.0**	--	--	--	--	--	--
		FB1-6-2.5	2.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**3.1**	--	--	--	--	--	--
	FB1-7	FB1-7-0.5	0.5	1/3/17	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**1.8**	**4.3**	--	--	--	--	--	--
		FB1-7-0.5-D	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**4.4**	--	--	--	--	<1.5	ND
	Refusal at 1.0' bgs in boring.																						
Former Building No. 2 (FB2)	FB2-1	FB2-1-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	0.77 J	**3.4**	--	--	--	--	--	--
		FB2-1-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.3**	**4.0**	--	--	--	--	--	--
		FB2-1-2.5	2.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.5**	**4.4**	--	--	--	--	--	--
	FB2-2	FB2-2-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	0.27 J	3.5 J	<0.25	<0.23	0.28 J	<0.20	<0.18	ND	**2.0**	**13**	--	--	--	--	--	--
		FB2-2-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**3.4**	--	--	--	--	--	--
		FB2-2-2.5	2.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**3.0**	--	--	--	--	--	--
	FB2-3	FB2-3-0.5	0.5	1/3/17	<0.22	<0.20	0.23 J	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.2**	**6.8**	--	--	--	--	--	--
		FB2-3-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.2**	**5.0**	--	--	--	--	--	--
		FB2-3-2.5	2.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**3.3**	--	--	--	--	--	--
	FB2-4	FB2-4-0.5	0.5	1/3/17	<0.22	<0.20	<0.13	0.22 J	2.0 J	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.6**	**11**	--	--	--	--	--	--
		FB2-4-1.5	1.5	1/3/17	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**3.3**	--	--	--	--	--	--
		FB2-4-2.5	2.5	1/3/17	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**1.8**	**3.5**	--	--	--	--	--	--
Former Building No. 3 (FB3)	See Existing Building EB3.																						
Former Building No. 4 (FB4)	FB4-1	FB4-1-0.5	0.5	12/29/16	<1.1 D1	3.1 D1, J	1.5 D1, J	1.9 D1, J	18 D1, J	<1.2 D1	<1.1 D1	2.3 D1, J	<1.0 D1	<0.89 D1	ND	**4.2**	**20**	--	--	--	--	--	--
		FB4-1-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**7.2**	**54**	--	**2.8 D1**	--	--	--	--
		FB4-1-2.5	2.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.4**	**7.7**	--	--	--	--	--	--
	FB4-2	FB4-2-0.5	0.5	12/29/16	<0.22	<0.20	0.36 J	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.2**	**34**	--	--	--	--	--	--
		FB4-2-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**4.5**	**52**	--	**3.3 D1**	--	--	--	--
		FB4-2-2.5	2.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.6**	**21**	--	--	--	--	--	--
	FB4-3	FB4-3-0.5	0.5	12/29/16	1.8 J	**22**	**2.1**	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.0**	**66**	--	**4.0 D1**	--	--	--	--
		FB4-3-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**3.1**	**46**	--	--	--	--	--	--
		FB4-3-2.5	2.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**6.9**	--	--	--	--	--	--
	FB4-4	FB4-4-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**26**	--	--	--	--	3.3 J	ND
		FB4-4-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.9**	**44**	--	--	--	--	--	--
		FB4-4-2.5	2.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.2**	**4.6**	--	--	--	--	--	--
Former Building No. 5 (FB5)	FB5-1	FB5-1-0.5	0.5	12/28/16	0.28 J	<0.20	<0.13	0.37 J	4.1 J	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**4.0**	**53**	--	**2.9 D1**	--	--	--	--
		FB5-1-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.8**	**65**	--	**3.5 D1**	--	--	--	--
		FB5-1-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.2**	**8.4**	--	--	--	--	--	--
	FB5-2	FB5-2-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.6**	**47**	--	--	--	--	--	--
		FB5-2-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.5**	**63**	--	**3.0 D1**	--	--	--	--
		FB5-2-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.3**	**9.7**	--	--	--	--	--	--
Former Building No. 6 (FB6)	See Existing Building EB6.																						
Former Building No. 7 (FB7)	See Existing Building EB22.																						
Former Building No. 8 (FB8)	See Existing Buildings EB23, EB24 and EB25.																						
Former Building No. 9 (FB9)	FB9-1	FB9-1-0.5	0.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	0.28 J	<0.20	<0.18	ND	**3.2**	**82**	--	**6.2 D1**	--	--	--	--
		FB9-1-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**5.5**	--	--	--	--	<1.5	ND
		FB9-1-2.5	2.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**2.8**	--	--	--	--	--	--
	Step out boreholes near boring FB9-1:																						
	FB9-1-N5	FB9-1-N5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**52**	--	**2.5 D1**	--	0.069 D1, J	--	--
		FB9-1-N5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**63**	--	**0.24 D1**	--	<0.014 D1	--	--
		FB9-1-N5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.2**	--	--	--	--	--	--
	FB9-1-W5	FB9-1-W5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**9.0**	--	--	--	--	--	--
		FB9-1-W5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.9**	--	--	--	--	--	--
		FB9-1-W5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.2**	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Former Building No. 9 (FB9)	FB9-1-W10	FB9-1-W10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**27**	--	--	--	--	--	--
		FB9-1-W10-0.5-D	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**20**	--	--	--	--	--	--
		FB9-1-W10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**26**	--	--	--	--	--	--
		FB9-1-W10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.7**	--	--	--	--	--	--
	FB9-1-S5	FB9-1-S5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**67**	--	**12 D1**	--	0.18 D1, J	--	--
		FB9-1-S5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**340**	--	**30 D1**	--	0.71 D1, J	--	--
		FB9-1-S5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**140**	--	**9.1 D1**	--	<0.014 D1	--	--
	FB9-1-S10	FB9-1-S10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**47**	--	--	--	--	--	--
		FB9-1-S10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**55**	--	**2.7 D1**	--	<0.014 D1	--	--
		FB9-1-S10-1.5-D	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**58**	--	**3.6 D1**	--	<0.014 D1	--	--
		FB9-1-S10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**43**	--	--	--	--	--	--
	FB9-2	FB9-2-0.5	0.5	12/29/16	<0.22	<0.20	0.19 J	0.23 J	2.9 J	<0.25	<0.23	0.26 J	<0.20	<0.18	ND	**1.6**	**7.9**	--	--	--	--	--	--
		FB9-2-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**3.2**	--	--	--	--	--	--
		FB9-2-2.5	2.5	12/29/16	<0.22	<0.20	0.14 J	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**3.3**	--	--	--	--	--	--
	FB9-3	FB9-3-0.5	0.5	12/29/16	**2.1**	1.3 J	<0.13	**15**	**110**	<0.25	0.55 J	**13**	<0.20	<0.18	ND	**2.0**	**53**	--	**4.9 D1**	--	--	<1.5	ND
		FB9-3-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**3.8**	--	--	--	--	--	--
		FB9-3-2.5	2.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	3.9 D5, J	**10 D5**	--	--	--	--	--	--
	FB9-4	FB9-4-0.5	0.5	12/29/16	<0.22	1.1 J	0.97 J	**1.4**	**12**	<0.25	<0.23	**1.4**	<0.20	<0.18	ND	**9.3**	**65**	--	**4.2 D1**	--	--	--	--
		FB9-4-1.5	1.5	12/29/16	<0.22	<0.20	<0.13	0.42 J	3.5 J	<0.25	<0.23	0.40 J	<0.20	<0.18	ND	**1.8**	**160**	--	**6.7 D1**	--	0.14 D1, J	--	--
		FB9-4-2.5	2.5	12/29/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.1**	**33**	--	--	--	--	--	--
	Step out boreholes near boring FB9-4:																			--			
	FB9-4-N5	FB9-4-N5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.9**	--	--	--	--	--	--
		FB9-4-N5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**11**	--	--	--	--	--	--
		FB9-4-N5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**33**	--	--	--	--	--	--
	FB9-4-W5	FB9-4-W5-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**34**	--	--	--	--	--	--
		FB9-4-W5-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**9.6**	--	--	--	--	--	--
		FB9-4-W5-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**200**	--	**4.0 D1**	--	**2.7 D1**	--	--
	FB9-4-W10	FB9-4-W10-0.5	0.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**12**	--	--	--	--	--	--
		FB9-4-W10-1.5	1.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.6**	--	--	--	--	--	--
		FB9-4-W10-2.5	2.5	4/10/17	--	--	--	--	--	--	--	--	--	--	--	--	**17**	--	--	--	--	--	--
Former Building No. 10 (FB10)	FB10-1	FB10-1-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**17**	--	--	--	--	<1.5	ND
		FB10-1-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**8.8**	--	--	--	--	--	--
		FB10-1-2.5	2.5	12/28/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**1.7**	**8.0**	--	--	--	--	--	--
	FB10-2	FB10-2-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**6.8**	--	--	--	--	--	--
		FB10-2-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.7**	**3.8**	--	--	--	--	--	--
		FB10-2-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**4.3**	--	--	--	--	--	--
	FB10-3	FB10-3-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	2.3 J	<0.25	<0.23	0.24 J	<0.20	<0.18	ND	**1.6**	**9.1**	--	--	--	--	--	--
		FB10-3-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.3**	**4.3**	--	--	--	--	--	--
		FB10-3-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**15**	--	--	--	--	--	--
	FB10-4	FB10-4-0.5	0.5	12/28/16	<0.22	<0.20	0.23 J	0.24 J	2.7 J	<0.25	<0.23	0.27 J	<0.20	<0.18	ND	**1.7**	**28**	--	--	--	--	--	--
		FB10-4-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.1**	**3.8**	--	--	--	--	--	--
		FB10-4-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.4**	**3.0**	--	--	--	--	--	--
Former Building No. 11 (FB11)	FB11-1	FB11-1-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**23**	--	--	--	--	--	--
		FB11-1-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**11**	--	--	--	--	--	--
		FB11-1-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.6**	**4.8**	--	--	--	--	--	--
	FB11-2	FB11-2-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.0**	**28**	--	--	--	--	<1.5	ND
		FB11-2-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.4**	**6.2**	--	--	--	--	--	--
		FB11-2-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.4**	**3.5**	--	--	--	--	--	--
	FB11-3	FB11-3-0.5	0.5	12/28/16	<0.22	0.20 J	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.7**	**23**	--	--	--	--	--	--
		FB11-3-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.4**	**17**	--	--	--	--	--	--
		FB11-3-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.4**	**4.5**	--	--	--	--	--	--
	FB11-4	FB11-4-0.5	0.5	12/28/16	<0.22	0.97 J	0.98 J	0.46 J	5.3 J	0.67 J	<0.23	0.47 J	<0.20	<0.18	ND	**2.6**	**18**	--	--	--	--	--	--
		FB11-4-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**9.6**	--	--	--	--	--	--
		FB11-4-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**12**	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Former Building No. 12 (FB12)	FB12-1	FB12-1-0.5	0.5	12/28/16	<0.22	0.40 J	<0.13	**9.8**	**77**	<0.25	<0.23	**6.7**	<0.20	<0.18	ND	**2.3**	**7.3**	--	--	--	--	<1.5	ND
		FB12-1-1.5	1.5	12/28/16	<0.22	1.5 J	0.24 J	**14**	**120**	<0.25	<0.23	**12**	<0.20	<0.18	ND	**3.5**	**14**	--	--	--	--	--	--
		FB12-1-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	**18**	**150**	<0.25	<0.23	**17**	<0.20	<0.18	ND	**6.7**	**25**	--	--	--	--	--	--
Former Building No. 13 (FB13)	FB13-1	FB13-1-0.5	0.5	12/28/16	<0.22	<0.20	0.24 J	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**27**	--	--	--	--	--	--
		FB13-1-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**4.5**	--	--	--	--	<1.5	ND
		FB13-1-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**3.6**	--	--	--	--	--	--
Former Building No. 14 (FB14)	FB14-1	FB14-1-0.5	0.5	12/28/16	<0.22	0.67 J	1.7 J	0.40 J	4.2 J	<0.25	<0.23	0.47 J	<0.20	<0.18	ND	**4.4**	**29**	--	--	--	--	--	--
		FB14-1-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**9.6**	--	--	--	--	--	--
		FB14-1-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.0**	**9.0**	--	--	--	--	--	--
	FB14-2	FB14-2-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	0.25 J	2.8 J	<0.25	<0.23	0.29 J	<0.20	<0.18	ND	**3.2**	**25**	--	--	--	--	--	--
		FB14-2-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**19**	--	--	--	--	--	--
		FB14-2-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.1**	**11**	--	--	--	--	--	--
	FB14-3	FB14-3-0.5	0.5	12/28/16	**4.6**	**10**	**9.3**	0.67 J	6.3 J	<0.25	<0.23	0.42 J	<0.20	<0.18	ND	**3.9**	**16**	--	--	--	--	--	--
		FB14-3-1.5	1.5	12/28/16	<1.1 D1	<0.98 D1	<0.67 D1	<1.1 D1	<4.5 D1	<1.2 D1	<1.1 D1	<1.1 D1	<1.0 D1	<0.89 D1	ND	**2.9**	**28**	--	--	--	--	--	--
		FB14-3-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.5**	**3.3**	--	--	--	--	--	--
	FB14-4	FB14-4-0.5	0.5	12/28/16	**21**	**50**	**25**	**3.6**	**38**	<0.25	<0.23	**4.8**	<0.20	<0.18	ND	**3.0**	**46**	--	--	--	--	--	--
		FB14-4-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.6**	**140**	--	**9.9 D1**	--	**3.8 D1**	--	--
		FB14-4-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**2.0**	**47**	--	--	--	--	--	--
	Step out boreholes near boring FB14-4:																						
	FB14-4-N5	FB14-4-N5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**21**	--	--	--	--	--	--
		FB14-4-N5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**18**	--	--	--	--	--	--
		FB14-4-N5-1.5-D	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**29**	--	--	--	--	--	--
		FB14-4-N5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.4**	--	--	--	--	--	--
	FB14-4-N10	FB14-4-N10-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**17**	--	--	--	--	--	--
		FB14-4-N10-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.9**	--	--	--	--	--	--
		FB14-4-N10-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**7.6**	--	--	--	--	--	--
	FB14-4-W5	FB14-4-W5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**35**	--	--	--	--	--	--
		FB14-4-W5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**18**	--	--	--	--	--	--
		FB14-4-W5-1.5-D	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**13**	--	--	--	--	--	--
		FB14-4-W5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**56**	--	**2.2 D1**	--	<0.014 D1	--	--
	FB14-4-W10	FB14-4-W10-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**17**	--	--	--	--	--	--
		FB14-4-W10-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**20**	--	--	--	--	--	--
		FB14-4-W10-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**24**	--	--	--	--	--	--
	FB14-4-E5	FB14-4-E5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.2**	--	--	--	--	--	--
		FB14-4-E5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	**4.9 D1**	--	0.17 D1,J	--	--
		FB14-4-E5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**53**	--	**1.9 D1**	--	<0.014 D1	--	--
		FB14-4-E5-2.5-D	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**40**	--	--	--	--	--	--
	FB14-4-E8.5	FB14-4-E8.5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**20**	--	--	--	--	--	--
		FB14-4-E8.5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**89**	--	**1.0 D1**	--	<0.014 D1	--	--
		FB14-4-E8.5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.4**	--	--	--	--	--	--
		FB14-4-E8.5-2.5-	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**36**	--	--	--	--	--	--
	FB14-5	FB14-5-0.5	0.5	12/28/16	<0.22	0.88 J	<0.13	0.41 J	2.9 J	<0.25	<0.23	0.39 J	<0.20	<0.18	ND	**2.8**	**20**	--	--	--	--	--	--
		FB14-5-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.5**	**15**	--	--	--	--	--	--
		FB14-5-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**12**	--	--	--	--	--	--
	FB14-6	FB14-6-0.5	0.5	12/28/16	<0.22	0.63 J	<0.13	0.24 J	2.7 J	<0.25	<0.23	0.29 J	<0.20	<0.18	ND	**4.2**	**37**	--	--	--	--	6.8 J	ND
		FB14-6-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**6.8**	--	--	--	--	--	--
		FB14-6-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.7**	**6.3**	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Former Building No. 15 (FB15)	FB15-1	FB15-1-0.5	0.5	1/3/17	<0.22	**4.7**	**5.6**	**12**	**87**	0.79 J	<0.23	**9.8**	<0.20	<0.18	ND	**5.3**	**18**	--	--	--	--	<1.5	ND
		FB15-1-1.5	1.5	1/3/17	<0.22	0.62 J	0.57 J	**2.4**	**19**	<0.25	<0.23	**1.9**	<0.20	<0.18	ND	**5.0**	**19**	--	--	--	--	--	--
		FB15-1-2.5	2.5	1/3/17	<0.22	0.61 J	0.55 J	**7.4**	**61**	<0.25	<0.23	**6.9**	<0.20	<0.18	ND	**4.4**	**24**	--	--	--	--	--	--
	FB15-2	FB15-2-0.5	0.5	1/3/17	<0.22	**2.2**	**2.5**	**5.7**	**46**	<0.25	<0.23	**4.4**	<0.20	<0.18	ND	**3.9**	**9.8**	--	--	--	--	--	--
		FB15-2-1.5	1.5	1/3/17	<0.22	**2.3**	**2.5**	**13**	**100**	<0.25	<0.23	**8.6**	<0.20	<0.18	ND	**6.7**	**15**	--	--	--	--	--	--
		FB15-2-2.5	2.5	1/3/17	<0.22	0.48 J	0.36 J	**6.6**	**70**	<0.25	<0.23	**5.4**	<0.20	<0.18	ND	**6.4**	**13**	--	--	--	--	--	--
	FB15-3	FB15-3-0.5	0.5	1/3/17	<0.22	1.2 J	1.3 J	**8.7**	**63**	0.73 J	<0.23	**6.1**	<0.20	<0.18	ND	**5.8**	**12**	--	--	--	--	<1.5	ND
		FB15-3-1.5	1.5	1/3/17	<0.22	0.92 J	0.35 J	**23**	**170**	<0.25	<0.23	**15**	<0.20	<0.18	ND	**7.1**	**20**	--	--	--	--	--	--
		FB15-3-2.5	2.5	1/3/17	<0.22	<0.20	<0.13	**38**	**280**	<0.25	<0.23	**29**	<0.20	<0.18	ND	**9.6**	**27**	--	--	--	--	--	--
	FB15-4	FB15-4-0.5	0.5	1/3/17	<0.22	**2.2**	1.2 J	0.75 J	8.2 J	0.85 J	<0.23	0.92 J	<0.20	<0.18	ND	**3.6**	**17**	--	--	--	--	--	--
		FB15-4-1.5	1.5	1/3/17	<0.22	**3.2**	0.93 J	**9.2**	**71**	<0.25	<0.23	**6.2**	<0.20	<0.18	ND	**3.0**	**23**	--	--	--	--	--	--
		FB15-4-2.5	2.5	1/3/17	0.37 J	<0.20	<0.13	**1.6**	**12**	<0.25	<0.23	0.99 J	<0.20	<0.18	ND	**3.9**	**6.0**	--	--	--	--	--	--
Former Building No. 16 (FB16)	FB16-1	FB16-1-0.5	0.5	12/28/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**2.0**	**10**	--	--	--	--	--	--
		FB16-1-1.5	1.5	12/28/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**2.6**	**170**	--	**1.3 D1**	--	<0.014 D1	--	--
		FB16-1-2.5	2.5	12/28/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**1.8**	**7.5**	--	--	--	--	--	--
	Step out boreholes near boring FB16-1:																						
	FB16-1-N5	FB16-1-N5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**15**	--	--	--	--	--	--
		FB16-1-N5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.9**	--	--	--	--	--	--
		FB16-1-N5-1.5-D	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**5.2**	--	--	--	--	--	--
		FB16-1-N5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**6.4**	--	--	--	--	--	--
	FB16-1-N10	FB16-1-N10-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**22**	--	--	--	--	--	--
		FB16-1-N10-0.5-D	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**25**	--	--	--	--	--	--
		FB16-1-N10-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**5.1**	--	--	--	--	--	--
		FB16-1-N10-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.2**	--	--	--	--	--	--
	FB16-1-W5	FB16-1-W5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.3**	--	--	--	--	--	--
		FB16-1-W5-0.5-D	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**56**	--	0.40 D1,J	--	<0.014 D1	--	--
		FB16-1-W5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**8.0**	--	--	--	--	--	--
		FB16-1-W5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**6.7**	--	--	--	--	--	--
	FB16-1-W10	FB16-1-W10-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**42**	--	--	--	--	--	--
		FB16-1-W10-0.5-	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**9.7**	--	--	--	--	--	--
		FB16-1-W10-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**9.3**	--	--	--	--	--	--
		FB16-1-W10-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.4**	--	--	--	--	--	--
	FB16-1-S5	FB16-1-S5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**20**	--	--	--	--	--	--
		FB16-1-S5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**82**	--	**5.1 D1**	--	**1.6 D1**	--	--
		FB16-1-S5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**62**	--	**3.3 D1**	--	**0.65 D1**	--	--
		FB16-1-S5-2.5-D	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.3**	--	--	--	--	--	--
	FB16-1-S10	FB16-1-S10-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**21**	--	--	--	--	--	--
		FB16-1-S10-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**12**	--	--	--	--	--	--
		FB16-1-S10-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**9.5**	--	--	--	--	--	--
	FB16-1-E5	FB16-1-E5-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**1.3**	--	--	--	--	--	--
		FB16-1-E5-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**7.9**	--	--	--	--	--	--
		FB16-1-E5-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.9**	--	--	--	--	--	--
		FB16-1-E5-2.5-D	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.3**	--	--	--	--	--	--
	FB16-1-E10	FB16-1-E10-0.5	0.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**16**	--	--	--	--	--	--
		FB16-1-E10-1.5	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**4.0**	--	--	--	--	--	--
		FB16-1-E10-1.5-D	1.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**3.6**	--	--	--	--	--	--
		FB16-1-E10-2.5	2.5	4/12/17	--	--	--	--	--	--	--	--	--	--	--	--	**2.9**	--	--	--	--	--	--
	FB16-2	FB16-2-0.5	0.5	12/28/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**2.4**	**5.3**	--	--	--	--	--	--
		FB16-2-1.5	1.5	12/28/16	<2.2	<2.0	<1.3	<2.1	<9.0	<2.5	<2.3	<2.3	<2.0	<1.8	ND	**2.9**	**6.8**	--	--	--	--	<1.5	ND
		FB16-2-2.5	2.5	12/28/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**1.7**	**3.2**	--	--	--	--	--	--

TABLE 1
Summary of Laboratory Results in Soil for Organochlorine Pesticides (OCPs), Arsenic, Lead and Polychlorinated Biphenyls (PCBs)
Burroughs Middle School

Location	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	OCPs by EPA Method 8081 (ug/kg)											Arsenic & Lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)		PCBs by EPA Method 8082 (ug/kg)	
					4,4-DDD	4,4-DDE	4,4-DDT	alpha-Chlordane	Chlordane (Total)	Dieldrin	Endrin	gamma-Chlordane	Heptachlor epoxide	Methoxy-chlor	All Other OCPs	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Aroclor 1260	All Other PCBs
Former Building No. 16 (FB16)	FB16-3	FB16-3-0.5	0.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**12**	--	--	--	--	--	--
		FB16-3-1.5	1.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.8**	**6.7**	--	--	--	--	--	--
		FB16-3-2.5	2.5	12/28/16	<1.1 D1	<0.98 D1	<0.67 D1	<1.1 D1	<4.5 D1	<1.2 D1	<1.1 D1	<1.1 D1	<1.0 D1	<0.89 D1	ND	**2.1**	**4.3**	--	--	--	--	--	--
	FB16-4	FB16-4-0.5	0.5	12/28/16	<0.22	0.23 J	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.5**	**33**	--	--	--	--	--	--
		FB16-4-1.5	1.5	12/28/16	<2.2 D1	<2.0 D1	<1.3 D1	<2.1 D1	<9.0 D1	<2.5 D1	<2.3 D1	<2.3 D1	<2.0 D1	<1.8 D1	ND	**1.6**	**11**	--	--	--	--	--	--
		FB16-4-2.5	2.5	12/28/16	<0.22	<0.20	<0.13	<0.21	<0.90	<0.25	<0.23	<0.23	<0.20	<0.18	ND	**1.9**	**11**	--	--	--	--	--	--
Regulatory Screening Levels:																							
DTSC HERO HHRA Note 3 (August 2017)[1]					NA	NA	NA	NA	440	NA	NA	NA	NA	NA	Varies	0.11	80 [2]	NA	NA	NA	NA	NA	Varies
RSLs (June 2017)[3]					2,300	2,000	1,900	NA	1,700	34	19,000	NA	70	320,000	Varies	0.68	400	NA	NA	NA	NA	240	Varies
Southern California Regional Background Level (DTSC, 2008)[4]					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA
Federal and State Hazardous Waste Criteria					1,000	1,000	1,000	NA	2,500	8,000	200	NA	4,700	100,000	Varies	500	1,000	5 mg/L	5 mg/L	5 mg/L	5 mg/L	50,000	50,000

Notes:

Yellow high-lighted values exceeded one or more screening level.

Purple high-lighted values exceeded non-RCRA (CA-restricted) hazardous waste criteria.

1. DTSC, HERO HHRA Note Number 3 (August 2017). Criteria selected: Residential soil, cancer endpoint (carcinogens), non-cancer endpoint (all others)

2. DTSC recommends that a 95% upper confidence limit on the arithmetic mean calculated to be 80 mg/kg or less is protective of human health.

3. RSLs, Regional Screening Levels for Region 9, Updated June 2017, Criteria selected: Residential soil, Total Hazard Quotient = 1.0, Target risk of 1.0E-6

4. DTSC, Determination of a Southern California Regional Background Arsenic Concentration in Soil, March 2008. Background arsenic was selected as the screening level for arsenic.

5. Where TTLC lead and/or arsenic was greater than 50 mg/kg, the sample was analyzed using the Waste Extraction Test for STLC by EPA Method 6010B. Where the result is below the STLC regulatory limit of 5 mg/L arsenic or 5 mg/L lead, the material is non-hazardous under California waste disposal regulations, as per the California Code of Regulations, Title 22, Chapter 11, Article 3.

Acronyms/Abbreviations:

bgs	Below ground surface
D1	Laboratory data qualifier indicating that the sample required dilution due to possible matrix interference.
D5	Sample diluted due to failing internal standard in the original run.
D6	Sample required dilution due to high concentration of target analyte.
DTSC	California Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
HERO	Office of Human and Ecological Risk
HHRA	Human Health Risk Assessment
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NA	Not applicable or not available.
ND	Not detected above the laboratory reporting limit.
OCPs	Organochlorine Pesticides
PCBs	Polychlorinated biphenyls
RSLs	Regional Screening Levels (see Note 3, above)
STLC	Soluble Threshold Limit Concentration
TCLP	Total Threshold Limit Concentration
TTLC	Toxicity characteristic leaching procedure
ug/kg	micrograms per kilogram
4,4-DDD	Dichlorodiphenyldichloroethane
4,4-DDE	Dichlorodiphenyldichloroethylene
4,4-DDT	Dichlorodiphenyltrichloroethane
< 1.0	Analyte not detected above the referenced detection limit.
-	Not analyzed.
*	Includes testing for overlapping former buildings.
**	See additional soil analyses for these samples in Table 2 and/or Table 3.

TABLE 2
Summary of Laboratory Results in Soil for Polycyclic Aromatic Hydrocarbons (PAHs), and Title 22 Metals at Boring EB9-7
Burroughs Middle School

Location	Boring ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals by EPA Method 6010B/7471A (mg/kg)													Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270C SIM (ug/kg)							
					Antimony	Arsenic	Barium	Beryllium	Chromium	Cobalt	Copper	Lead[5]	Mercury	Nickel	Silver	Vanadium	Zinc	Other Metals Analyzed	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Chrysene	Fluoranthene	Indeno (1,2,3-cd) pyrene	Pyrene	Other PAHs Analyzed
Classroom Building No. 9 (EB9)	EB9-7	EB9-7-0.5	0.5	12/28/16	1.5 J	**2.3**	**130**	0.30 J	**14**	**8.0**	2,800 [6]	**250**	0.04 J	**13**	0.08 J	**26**	**150**	ND	2.0 D1, J	2.2 D1, J	3.3 D1, J	2.0 D1, J	1.9 D1, J	1.6 D1, J	2.3 D1, J	ND
		EB9-7-1.5	1.5	12/28/16	<0.32	**2.1**	**180**	0.31 J	**19**	**8.3**	**260**	**130**	**0.12**	**17**	<0.04	**31**	**170**	ND	<13 D1	<13 D1	22 D1, J	15 D1, J	<11 D1	<9.4 D1	12 D1, J	ND
		EB9-7-2.5	2.5	12/28/16	<0.32	**1.5**	**88**	0.31 J	**20**	**9.0**	**25**	**11**	0.04 J	**18**	<0.04	**31**	**38**	ND	15 D1, J	14 D1, J	26 D1, J	25 D1, J	16 D1, J	9.8 D1, J	23 D1, J	ND
	Step out boreholes near boring EB9-7 (the below step-out lead results are also reported in Table 1):																									
	EB9-7-W6	EB9-7-W6-	0.5	4/11/17	--	--	--	--	--	--	**12**	**6.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		EB9-7-W6-1.5	1.5	4/11/17	--	--	--	--	--	--	**18**	**9.6**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		EB9-7-W6-2.5	2.5	4/11/17	--	--	--	--	--	--	**13**	**3.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Regulatory Screening Levels:																										
DTSC HERO HHRA Note 3 (August 2017)[1]					NA	0.11	NA	1,600	NA	NA	NA	80 [2]	1.0	15,000	390	390	NA	Varies	NA	NA	NA	NA	NA	NA	NA	Varies
RSLs (June 2017)[3]					31	0.68	15,000	160	NA	23	3,100	400	11	1,500	390	390	23,000	Varies	110	1,100	NA	110,000	2,400,000	1,100	1,800,000	Varies
Southern California Regional Background Level (DTSC, 2008)[4]					NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Federal and State Hazardous Waste Criteria					500	500	10,000	75	2,500	8,000	2,500	1,000	20	2,000	500	2,400	5,000	Varies	NA	NA	NA	NA	NA	NA	NA	NA	Varies

Notes:
Yellow high-lighted values exceeded one or more screening level.
Purple high-lighted values exceeded non-RCRA (CA-restricted) hazardous waste criteria.
1. DTSC, HERO HHRA Note Number 3 (August 2017). Criteria selected: Residential soil, cancer endpoint (carcinogens), non-cancer endpoint (all others)
2. DTSC recommends that a 95% upper confidence limit on the arithmetic mean calculated to be 80 mg/kg or less is protective of human health
3. RSLs, Regional Screening Levels for Region 9, Updated June 2017, Criteria selected: Residential soil, Total Hazard Quotient = 1.0, Target risk of 1.0E-6
4. DTSC, Determination of a Southern California Regional Background Arsenic Concentration in Soil, March 2008. Background arsenic was selected as the screening level for arsenic.
5. See Table 1 for results using the Waste Extraction Test for STLC by EPA Method 6010B and TCLP results for lead.
6. Laboratory results for lead in sample EB9-7-0.5 exceed non-RCRA hazardous (CA-restricted) waste disposal regulations based on the lead results (See Table 1), as per the California Code of Regulations, Title 22, Chapter 11, Article 3. Further analysis of the sample for copper by the extraction test for STLC would not alter the classification and was not performed.

Acronyms/Abbreviations:

bgs	Below ground surface
D1	Laboratory data qualifier indicating that the sample required dilution due to possible matrix interference.
DTSC	California Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
HERO	Office of Human and Ecological Risk
HHRA	Human Health Risk Assessment
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NA	Not applicable or not available.
ND	Not detected above the laboratory reporting limit.
PAHs	Polycyclic Aromatic Hydrocarbons
RSLs	Regional Screening Levels (see Note 3, above)
STLC	Soluble Threshold Limit Concentration
TTLC	Total Threshold Limit Concentration
ug/kg	micrograms per kilogram
< 1.0	Analyte not detected above the referenced detection limit.
-	Not analyzed.

TABLE 3
Summary of Laboratory Results in Soil for Total Petroleum Hydrocarbons (TPH), and Volatile Organic Compounds (VOCs)
Burroughs Middle School

Location	Boring ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	Total Petroleum Hydrocarbons (TPH) by EPA Method 8015M (mg/kg)						Volatile Organic Compounds (VOCs) by EPA Method 8260B (ug/kg)
					C8-C10	C10-C18	C18-C28	C28-C36	C36-C40	C8-C40 (Total)	
Main Building/ Auditorium (EB1)	EB1-1	EB1-1-1	1.0	12/28/16	<10	<10	**39**	**130**	**120**	**290**	--
		EB1-1-5	5.0	12/28/16	<1.0	**1.3**	**4.5**	**11**	**8.7**	**26**	--
		EB1-1-10	10.0	12/28/16	<1.0	**1.4**	**2.3**	**1.8**	**1.2**	**6.8**	--
Methane Probe M-3	M-3	M-3-10.0	10.0	12/23/16	<10	**32**	**230**	**410**	**250**	**930**	ND
		M-3-12.5	12.5	12/23/16	<1.0	**1.4**	**3.0**	**3.1**	**2.3**	**9.8**	ND
Regulatory Screening Levels:											
October 2011 LAUSD 01 4524 Environmental Import/Export Materials Testing Spec.					100 (gasoline)	1,000 mg/kg (oil/diesel and long-chain hydrocarbons)					>ND
DTSC HERO HHRA Note 3 (August 2017)[1]					NA	16,000 (Mineral Oil ~C15-C50)				NA	Varies
RSLs (June 2017)[2]					520 (aliphatic low-C6); 96 (aliphatic medium-C9)	230,000 (aliphatic high-Mineral Oil ~C15-C50)				NA	Varies
					82 (aromatic low-C6)	110 (aromatic medium-C10/C11); 2,500 (aromatic high-C16)	NA				

NOTES:

1. DTSC, HERO HHRA Note Number 3 (August 2017). Criteria selected: Residential soil, cancer endpoint (carcinogens), non-cancer endpoint (all others)
2. RSLs, Regional Screening Levels for Region 9, Updated June 2017, Criteria selected: Residential soil, Total Hazard Quotient = 1.0, Target risk of 1.0E-6

Acronyms/Abbreviations:

bgs	Below ground surface
DTSC	California Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
HERO	Office of Human and Ecological Risk
HHRA	Human Health Risk Assessment
mg/kg	milligrams per kilogram
NA	Not applicable or not available.
ND	Not detected above the laboratory reporting limit.
RSLs	Regional Screening Levels (see Note 2, above)
TPH	Total Petroleum Hydrocarbons
VOCs	Volatile Organic Compounds
ug/kg	micrograms per kilogram
< 1.0	Analyte not detected above the referenced detection limit.
-	Not analyzed.

APPENDIX A

REFERENCES

APPENDIX A

References

California Department of Water Resources (DWR), Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, Appendix A, Ground Water Geology: California Department of Water Resources Bulletin 104, 181 p, 1988.

Catchings, R.D., Gandhok, G., Goldman, M.R., and Okaya, D., Seismic Images and Fault Relations of the Santa Monica Thrust Fault, West Los Angeles, California: U.S. Geological Survey Open-File Report 01-111, 15 p, 2001.

Dibblee, T. W., Jr., Geologic Map of the Hollywood and Burbank South ½ Quadrangles, Los Angeles County, California, DF-30, 1991.

Dolan, J.F., Sieh, K, Rockwell, T.K., Guptill, P., and Miller, G., Active Tectonics, Paleoseismology, and Seismic Hazards of the Hollywood Fault, Northern Los Angeles Basin, California: Geological Society of America Bulletin, Volume 109, No. 12, pp. 1595-1616, 1997.

Dolan, J.F., Sieh, K., and Rockwell, T.K., Late Quaternary Activity and Seismic Potential of the Santa Monica Fault System, Los Angeles, California: Geological Society of America Bulletin, Volume 112, No. 10, pp. 1559-1581, 2000.

Freeman, S.T., Heath, E.G., Guptill, P.D., and Waggoneer, J.T., Seismic Hazard Assessment, Newport-Inglewood Fault Zone, in Pipkin, B.W. and Proctor, R.J. (editors), Engineering Geologic Practice in Southern California: Association of Engineering Geologists Special Publication No. 4, pp. 211-231, 1992.

Hildenbrand, T.G., Davidson, J.G., Ponti, D.J., and Langenheim, V.E., Implications for the Hollywood Basin from Gravity Interpretations of the Northern Los Angeles Basin, California: U.S. Geological Survey Open-File Report 2001-394, 24 p, 2001.

Hummon, C., Schneider, C.L., Yeats, R.S., Dolan, J.F., Sieh, K.E., and Huftile, G.J., Wilshire fault: Earthquake in Hollywood: Geological Society of America Geology, Volume 22, No. 4, pp. 291-294, 1994.

Office of Environmental Health and Safety (OEHS), Scope of Services, prepared by OEHS, dated November 22, 2016.

_____, Response to Request for Clarifications, prepared by OEHS, dated November 29, 2016.

Surveying and Drafting Services, Inc. Title, Ground Topographic and Subsurface Utility Survey, John Burroughs M.S., 600 McCadden Place, Los Angeles, CA 90005, Drawing No. 1-7, May 18, 2016.

State of California Environmental Protection Agency - Department of Toxic Substances Control (DTSC), Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers, dated June 9, 2006, revised September 12, 2006.

_____, Determination of a Southern California Regional Background Arsenic Concentration in Soil, http://www.dtsc.ca.gov/ upload/Background-Arsenic.pdf, 2008.

_____, Interim Guidance for Sampling Agricultural Properties (Third Revision), dated April 30, 2008.

_____, Preliminary Endangerment Assessment Guidance Manual, January 1994, Revised October 2015.

_____, Human Health Risk Assessment (HHRA) Note Number: 3, DTSC-modified screening levels, https://www.dtsc.ca.gov/AssessingRisk/upload/HHRA-Note-3-2016-01.pdf, August 2017.

State Water Resources Control Board (SWRCB), Low-Threat Underground Storage Tank Case Closure Policy, State Water Board Resolution No. 2012-0016.

Tsutsumi, H., Yeats, R.S., and Huftile, G.J., Late Cenozoic Tectonics of the Northern Los Angeles Fault System, California: Geological Society of America Bulletin, Volume 113, No. 4, pp. 454-468, 2001.

United States Census Bureau, Profile of General Population and Housing Characteristics: 2010, Zip Code 90005, http://factfinder.census.gov/, 2010.

United States Environmental Protection Agency (EPA), Regional Screening Levels, Region 9: Pacific Southwest, Residential Soil Tables (TR-1E-06, THQ=1.0), http://www.epa.gov/region9/superfund/prg/, June 2017.

Western Environmental Engineers Co., Groundwater Sampling Report First Quarter, 2006 at Highland Express Cleaners Former Tidewater Retail Service Station 5020-5044 Wilshire Boulevard, Los Angeles, California, dated April 11, 2006.

WorleyParsons, Phase I Environmental Site Assessment, John Burroughs Middle School, 600 South McCadden Place, Los Angeles, California 90005, May 18, 2016.

Wright, T.L., Structural Geology and Tectonic Evolution if the Los Angeles Basin, California, in Biddle, K.T. (editor), Active Margin Basins: American Association of Petroleum Geologists Memoir 52, pp. 35-134, 1991.

Yerkes, R.F.; McCollouch, T.H.; Schoellhamer, J.E.; Vedder, J.G, Geology of the Los Angeles Basin, California- An Introduction: U.S. Geological Survey Professional Paper 420-A pp. 57, 1965.

APPENDIX B

BORING LOGS

PROBE CONSTRUCTION LOG

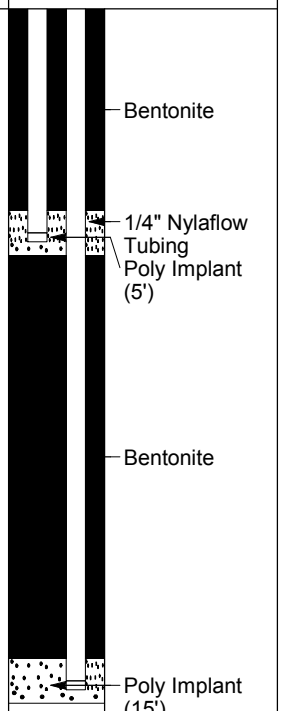
PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY KCH
REMARKS

BORING/WELL NUMBER M-1
DATE DRILLED 12/28/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Top soil	0.5
						ML		@1': SILT, dark brown, moist, firm, no odor or staining.	
									8.0
						CL		@8': Silty CLAY, brown, moist, stiff, slight odor, no staining.	
								@14': CLAY, dark brown, moist, stiff, odor, no staining.	
								@15': CLAY with Sand, mottled gray/dark brown, firm, odor, no staining, bituminous.	15.5
									20.0

Notes:
Total Depth of Boring: 15.5 feet
No groundwater encountered during drilling

WELL DIAGRAM

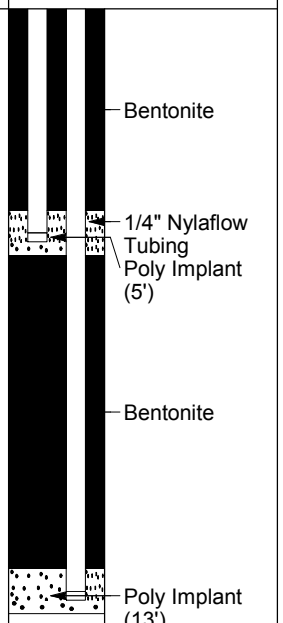


GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-10
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/23/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 2" Asphalt	0.2
								6" Concrete	0.7
						CL		@1': Sandy CLAY, brown, stiff, moist, no odor or staining.	
5						ML		@5': Sandy SILT, dark brown, stiff, slightly moist, fine to coarse grained sand, brick fragments, no odor or staining.	5.0
						CL		@8': CLAY, dark brown, hard, slightly moist, no odor or staining.	8.0
10						ML		@10': Sandy SILT, light brown, dry, no odor or staining.	10.0
						SM		@12': Silty SAND, tan, very dense, dry, fine to coarse grained sand, no odor or staining.	12.0
								@ 13.5': Refusal encountered.	13.0
15									
20									
25									
30									



Notes:
Total Depth of Boring: 13.5 feet
No groundwater encountered during drilling

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-11
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	Bentonite
						ML		@2': Sandy SILT, brown, moist, soft, slight odor, no staining.		
5								@5': Black.		1/4" Nylaflow Tubing; Poly Implant (5')
									9.0	
10								@9': Silty CLAY, dark brown, moist, firm, odor, no staining.		Bentonite
						CL		@11': Sandy CLAY, mottled light brown-white, moist, white sand content, slight odor, no staining.		
15									15.5	Poly Implant (15')
									20.0	
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

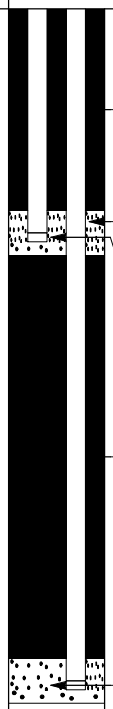
PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY KCH
REMARKS

BORING/WELL NUMBER M-12
DATE DRILLED 12/28/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Topsoil	0.5
						ML		@2': SILT, dark brown, moist, firm, no odor or staining. @3': Sandy SILT, brown, slightly moist, stiff, no odor or staining.	
5						CL		@5': Silty CLAY, brown/orange, slightly moist, stiff, iron oxidized, no odor or staining.	5.0
10								@9': Silty CLAY, dark brown, slightly moist, very stiff, no odor or staining. @12': CLAY, black, moist, firm, low plasticity, odor, no staining, bituminous.	
15									15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-13
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: Topsoil	0.5	
						ML		@1': SILT with concrete debris. @2': SILT, black, moist, soft, no odor or staining.		Bentonite
5								@5': Sandy SILT, black, moist, soft, odor, no staining.		1/4" Nylaflow Tubing Poly Implant (5')
									8.0	
						CL		@8': Silty CLAY, black, moist, soft, odor and no staining. @10': CLAY, mottled black and brown, moist, firm, odor, no staining, bitumenous.		Bentonite
10										
15									15.0	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

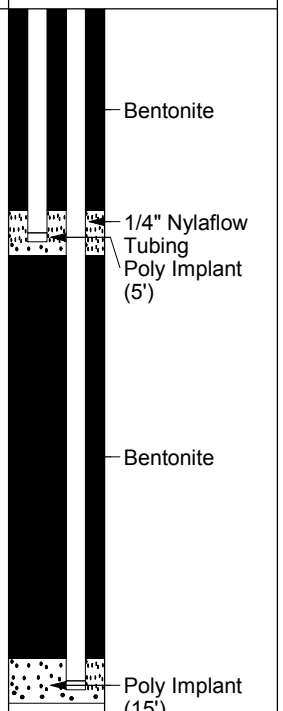
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY KCH
REMARKS

BORING/WELL NUMBER M-14
DATE DRILLED 12/28/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt with 3" Base-gravelly SAND.	0.5
						ML		@1': Clayey SILT, dark brown, slightly moist, very stiff, some sand, no odor or staining.	
5								@5': Black, moist, stiff, slight odor, no staining.	
								@7': Mottled gray-black, odor, no staining.	
10								@9': Black, soft, odor, no staining, bituminous.	
15									15.0
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
25									
30									



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

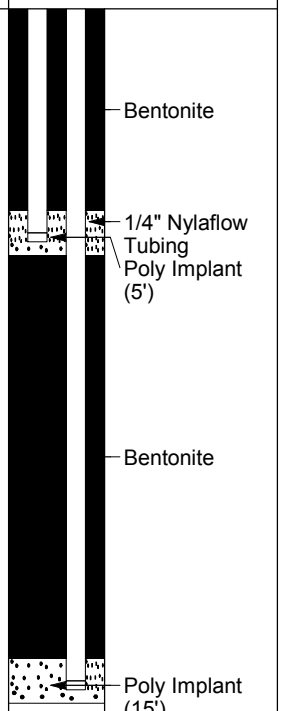
PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-15
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						CL		@0.5': Sandy CLAY, light brown, stiff, moist, fine to medium grained, no odor or staining.	
5								@5': Dark brown.	
								@8': Brick fragments in sampler.	
10								@10': Rock blocked sample recovery. No recovery from 10-15.5 feet bgs.	10.0
15									
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-16
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/23/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	Bentonite
						CL		@0.5': Silty CLAY, olive brown, moist, firm, trace sand, no odor or staining.		
5								@4.5': Dark gray, slight odor and staining. @5.5': Asphalt debris in sampler. @7': Silty CLAY, olive gray. @8': CLAY, brown, moist, stiff, no odor or staining.		1/4" Nylaflow Tubing Poly Implant (5')
10								@10': CLAY, dark gray, slight odor and staining.		Bentonite
15								@14': No odor, no staining. @15': Boring refusal at 15' bgs.	15.0	Poly Implant (14.5')
20								**Notes:** Total Depth of Boring: 15 feet No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY KCH
REMARKS

BORING/WELL NUMBER M-17
DATE DRILLED 12/28/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	Bentonite
						CL		@2': CLAY, black, moist, firm, low plasticity, no odor or staining.		
5								@6': Stiff.		1/4" Nylaflow Tubing; Poly Implant (5')
10								@10': Gray-blue.		Bentonite
15									15.5	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet. No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

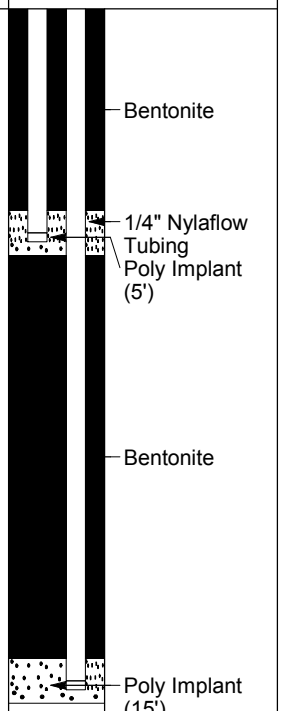
PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-18
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Planter soil	0.5
						CL		@0.5': CLAY, dark brown, moist, stiff, no odor or staining.	
									4.0
5						ML		@4': SILT, light brown, slightly moist, stiff, some clay, no odor and staining.	
								@7': Clayey SILT, light brown, slightly moist, stiff, no odor or staining.	9.0
						SP		@9': SAND, light brown, moist, medium dense, fine to medium grained, no odor and staining.	9.5
10								@9.5': CLAY, dark brown, stiff, slightly moist, trace sand, no odor or staining.	
								@13': Trace gravel, light brown.	
						CL		@14': Dark olive brown.	
15									15.5
20									20.0
25									
30									

Notes:
Total Depth of Boring: 15.5 feet
No groundwater encountered during drilling

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

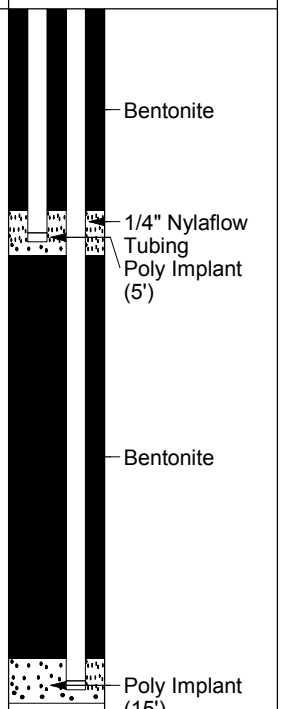
PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-19
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Planter soil	0.5
						ML		@0.5': Clayey SILT, brown, moist, stiff, no odor or staining.	
5									6.0
								@6': CLAY, brown, slightly moist, hard, no odor or staining.	
10									
						CL		@12': Some sand.	
15									15.5
								Notes: Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
20									
25									
30									

WELL DIAGRAM



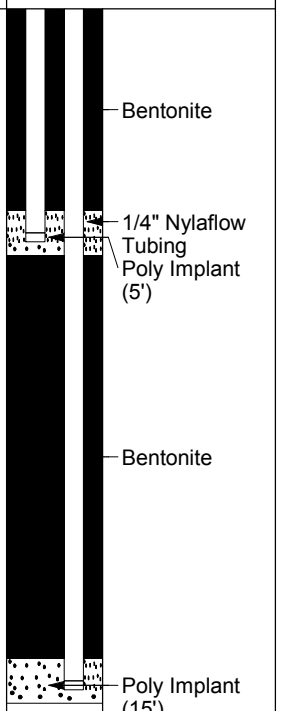
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-2
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Top soil	0.5
						ML		@1': SILT, brown, moist, firm, some gravel, no odor or staining.	
5								@7': Sandy SILT, brown, moist, firm, low plasticity, some sand, no odor or staining.	8.0
						CL		@8': Sandy CLAY, orange brown, moist, soft, odor and no staining. @9': Black, strong odor, no staining, bituminous.	
10								@10': CLAY, black/gray-blue, moist, firm, odor, no staining, bituminous.	11.0
						SW		@11': SAND, black, soft, strong odor, no staining, bituminous.	12.0
						ML		@12': SAND with Clay.	
15								@15': Clayey SAND, mottled black/gray, firm, odor, no staining, bituminous.	15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-20
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	
						ML		@0.5': Sandy SILT, brown.		
								@2': Concrete layer~2-3 inches	2.5	Bentonite
						CL		@2.5': CLAY, dark brown, moist, stiff, some silt, trace sand, no odor or staining.		
5										1/4" Nylaflow Tubing Poly Implant (5')
								@8': Olive brown, trace gravel, no odor or staining.		
10										Bentonite
								@12': Sandy CLAY, olive brown, slightly moist, very stiff, no odor or staining.		
15									15.5	Poly Implant (15')
									20.0	
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

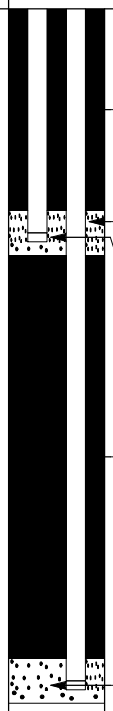
PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-21
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						SC		@0.5': Clayey SAND, brown, loose, slightly moist, fine to medium grained, no odor or staining.	
						CL		@4': CLAY, dark brown, moist, firm, no odor or staining.	4.0
5									
10								@10': CLAY, stiff.	
15									15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-22
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	
						ML		@1':SILT with Gravel, brown, moist, no odor or staining. @2':SILT, dark brown, moist, firm, low plasticity, no odor or staining.		Bentonite
5										1/4" Nylaflow Tubing Poly Implant (5')
									8.0	
						CL		@8': CLAY, mottled gray-brown, moist, stiff, low plasticity, no odor, no staining. @12': Gray.		Bentonite
10										
15									15.0	Poly Implant (15')
									20.0	
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

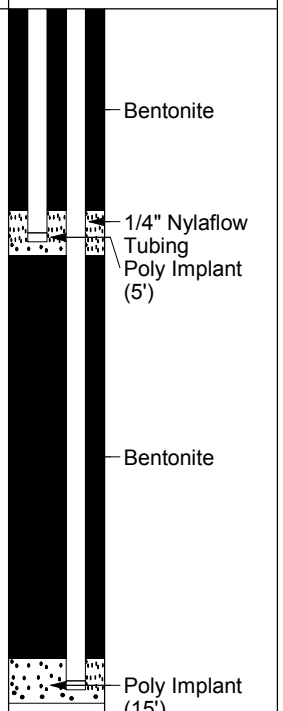
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-23
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						CL		@0.5': Sandy CLAY, brown, stiff, moist, fine to medium grained sand, no odor or staining.	
5						ML		@5': Sandy SILT, light grayish brown, very dense, some gravel, no odor or staining.	5.0
10									12.0
						CL		@12': CLAY, dark grayish brown, slightly moist, stiff, trace sand, odor, no staining, bituminous.	
15									15.0
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	
25									
30									



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-24
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	Bentonite
						CL		@0.5': Sandy CLAY, brown, very stiff, slightly moist, fine to medium grained sand, no odor or staining.		1/4" Nylaflow Tubing
5										Poly Implant (5')
								@8': Wood fragments in sampler, trace gravel.		
10								@10': CLAY, dark grayish brown, odor, no staining, bituminous.		Bentonite
15									15.0	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-25
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	
						CL		@0.5': Sandy CLAY, brown, dry, stiff, fine to medium grained sand, no odor or staining.		Bentonite
									4.0	
5						SW		@4': SAND, tan, dry, medium dense, fine to coarse grained, no odor or staining.	4.5	1/4" Nylaflow Tubing
								@4.5': Sandy CLAY, brown, dry, hard, fine grained sand, no odor or staining.		Poly Implant (5')
10						CL		@9.5': Dark gray to black, odor, no staining, bituminous.		Bentonite
15									15.5	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0	
25										
30										

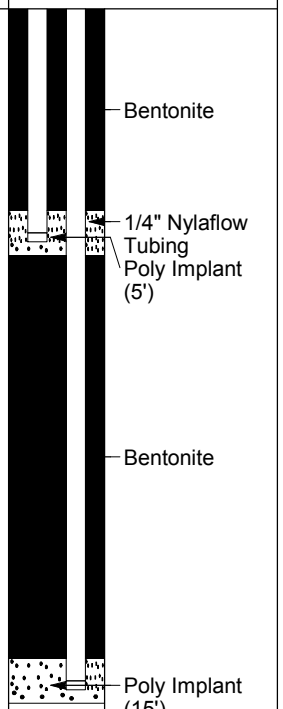
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-26
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Topsoil	0.5
						ML		@2': Clayey SILT, dark brown, moist, firm, no odor or staining.	5.0
5						SW		@5': Gravelly SAND, black, moist, loose, fine to coarse grained, slight odor, no staining, bituminous.	6.0
						ML		@6': Silty CLAY, dark brown, moist, soft, slight odor and no staining. @8': With gravel.	10.0
10						CL		@10': CLAY, black, slightly moist, very stiff, odor, no staining, bituminous. @11': Sandy CLAY, dark brown, moist, very stiff, medium grained sand, slight odor, no staining.	14.0
15						ML		@14': Clayey SAND, black, moist, soft, slight odor, no staining, bituminous	15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	
25									
30									

WELL DIAGRAM



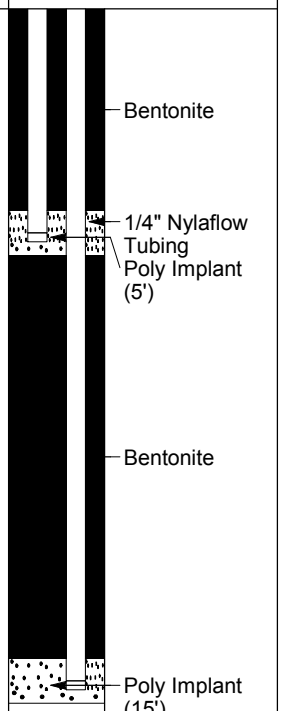
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-27
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Topsoil	0.5
						CL		@3': Silty CLAY, brown, moist, stiff, low plasticity, no odor or staining.	
5						ML		@5': Sandy SILT, light brown, slightly moist, very stiff, no odor or staining.	5.0
						SW		@6': SAND, mottled gold and brown, slightly moist, loose, fine to coarse grained, no odor and staining.	6.0
						ML		@7.5': SILT, brown, stiff, slightly moist, low plasticity, some iron oxidation, no tar odor or staining.	7.5
10								@ 10'-15' bgs- Liner jammed due to very dense material at depth, no sample recovery	10.0
						SC		@ 15': Clayey SAND, light brown, dry, very dense, no odor or staining.	14.5 15.0
15									
20									
25									
30									

Notes:
Total Depth of Boring: 15.5 feet
No groundwater encountered during drilling



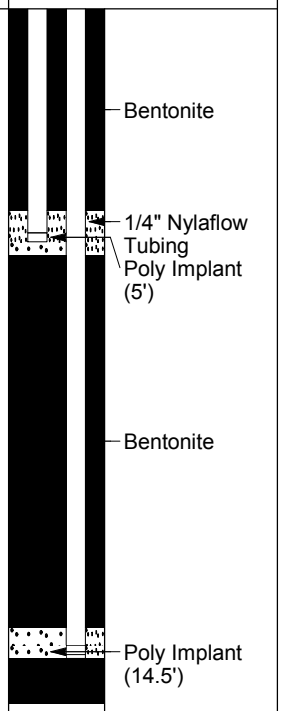
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-28
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Grass	0.5
						CL		@0.5': CLAY, dark brown, stiff, moist, no odor or staining.	
									4.5
5						ML		@4.5': Sandy SILT, light brown, slightly moist, stiff, fine grained sand, no odor or staining.	5.5
						CL		@5.5': CLAY, light brown, moist, stiff, no odor or staining.	6.5
						SW		@6.5': SAND, light brown, dry, medium dense, fine to coarse grained sand, no odor or staining.	7.5
						CL		@7.5': Silty CLAY, light brown, slightly moist, stiff, no odor, no staining.	
10								@12': CLAY, olive brown, slightly moist, hard, no odor or staining.	
								@14': Light brown.	
15								@15': Boring refusal.	15.0
20								**Notes:** Total Depth of Boring: 15 feet No groundwater encountered during drilling	
25									
30									

WELL DIAGRAM



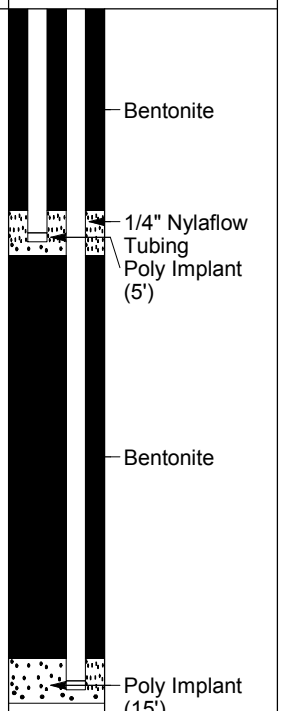
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-29
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						CL		@0.5': Sandy CLAY, brown, hard, dry, fine to medium grained sand, no odor or staining.	
5								@5': Dark brown.	
10						SP		@10': SAND, brown, medium dense, slightly moist, no odor or staining.	10.0
						CL		@13': Sandy CLAY, light brown, hard, dry, fine to medium grained sand, no odor or staining.	13.0
15									15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-30
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	12.0ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

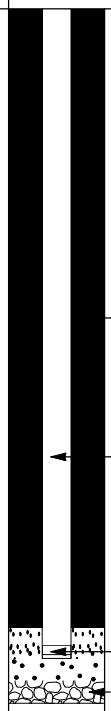
DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: Topsoil	0.5	Bentonite
						ML		@3': Sandy SILT, black, soft, slightly moist, no odor, no staining, oragnic rich. @4': SILT, dark brown, firm, slightly moist, low plasticity, some sand, no odor or staining.		1/4" Nylaflow Tubing Poly Implant (5')
5										Bentonite
								@8': Mottled brown and dark brown.	9.0	
						CL		@9': Sandy CLAY, black, moist, firm, low plasticity, no odor, no staining, bitunminous.		Poly Implant (9.5')
10								@12': Perched groundwater encountered post drilling. @12.5'- CLAY, black, moist, firm, no odor, no staining, bituminous.		Bentonite
15									15.5	
20								**Notes:** Total Depth of Boring: 15.5 feet Perched groundwater was encountered after tooling was removed from the boring. No evidence of broken utility in the area. Bentonite was added to dry up the boring from 15.5'bgs to 10' bgs. Probes were set at 5' bgs and 9.5' bgs.		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-3-Deep
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						SW		@0.5': Gravelly SAND, brown, medium dense, dry, fine to coarse grained sand (artificial fill).	
5								@5.5': Brick fragements in sampler.	6.0
						CL		@6': CLAY, dark gray, hard, slightly moist, some sand, slight odor and staining, brick fragments in sampler.	
10								@11.5': CLAY, asphalt fragments present.	12.0
						ML		@12': Sandy SILT, brown, hard, slightly moist, fine grained sand, no staining or odor.	
15									15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	
25									
30									



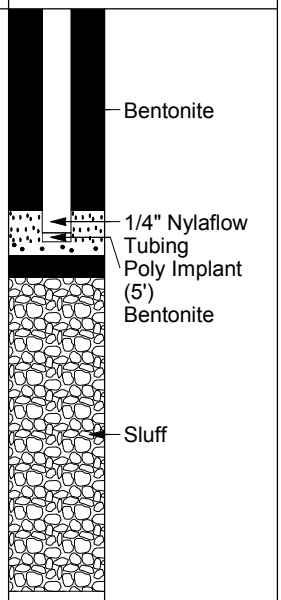
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-3-Shallow
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/23/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							@Surface: 3" Asphalt	0.5
						SW	@0.5': Gravelly SAND, brown, medium dense, dry, fine to coarse grained sand (artificial fill).	
5							@5.5': Brick fragments in sampler.	6.0
		6	M-3-6.0			CL	@6': CLAY, dark gray, hard, slightly moist, some sand, slight odor and staining, brick fragments.	
10		6	M-3-10.0				@11.5': CLAY, asphalt fragments present.	12.0
		6	M-3-12.5			ML	@12': Sandy SILT, brown, hard, slightly moist, fine grained sand, no staining or odor.	13.0
							@13': Refusal at depth.	
15								
20								
25								
30								

WELL DIAGRAM



Notes:
Total Depth of Boring: 13 feet
No groundwater encountered during drilling

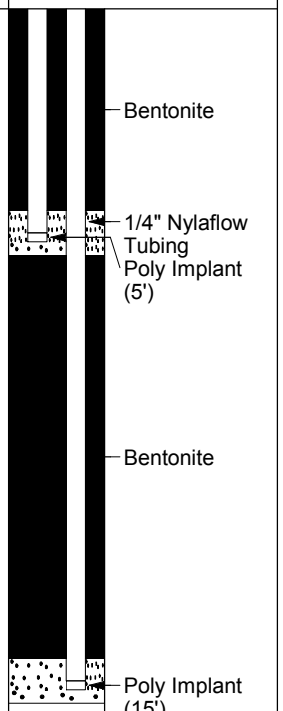
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-4
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						CL		@0.5': CLAY, dark olive brown, stiff, slightly moist, no odor or staining.	1.0
						SM		@1': Sandy SILT, brown, hard, slightly moist, fine grained sand, no staining or odor.	
									4.0
5						CL		@4': Silty CLAY, light olive brown, hard, moist, trace sand, no staining or odor.	
								@7': Some sand.	
10								@10': CLAY, brown, hard, moist, trace sand, no odor or staining.	
								@12': Some silt.	
15									15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-5
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 6" Concrete	0.5	Bentonite
						CL		@0.5': CLAY, dark brown, stiff, moist, no odor or staining.	4.0	
5						SM		@4': Silty SAND, light brown, medium dense, fine to medium grained sand, some gravel, no staining or odor.	5.0	1/4" Nylaflow Tubing Poly Implant (5')
						ML		@5': SILT, light brown, hard, dry, some sand, no staining or odor.		
10										Bentonite
15									15.5	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

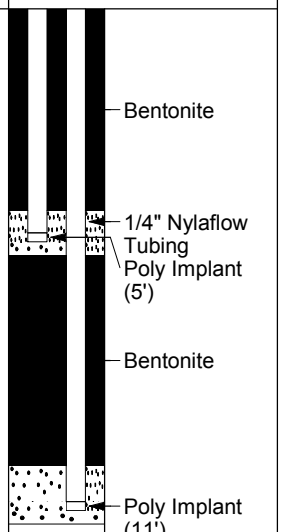
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-6
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						SP		@0.5': SAND, light brown, loose, dry, fine to medium grained sand, some silt, no odor or staining.	
5									5.5
						CL		@5.5': CLAY, dark brown, very stiff, slightly moist, no odor or staining.	
									9.0
						SM		@9': Silty SAND, tan, very dense, dry, fine to medium grained sand, no odor or staining.	
10									11.5
								@ 11.5': Refusal encountered.	
15									
20								**Notes:** Total Depth of Boring: 11.5 feet No groundwater encountered during drilling	
25									
30									

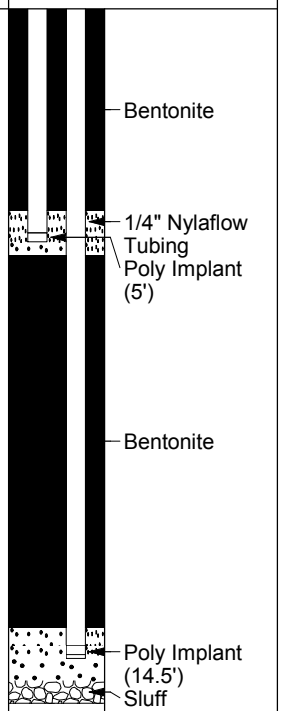


GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-7
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 2" Asphalt	0.5
						CL		@0.5': CLAY, olive-gray, firm, moist, no odor or staining.	
5									6.0
						ML		@6': Sandy SILT, olive gray, stiff, moist, fine to medium grained sand, no odor or staining. @7': Sandy SILT, trace sand.	9.0
10						CL		@9': CLAY, brown, hard, moist, no odor or staining.	
15								@14': Clayey SILT, olive gray, hard, slightly moist, trace sand, no odor or staining.	15.0
								@ 15': Refusal encountered.	
20								**Notes:** Total Depth of Boring: 15 feet No groundwater encountered during drilling	
25									
30									



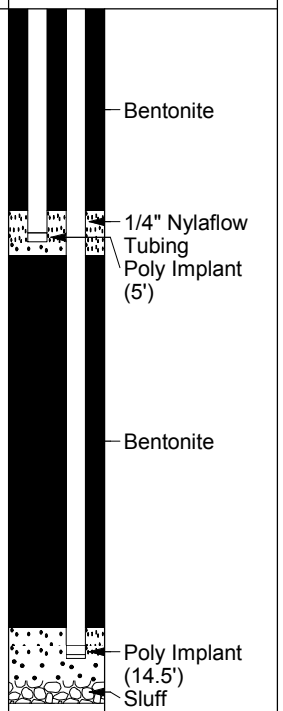
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-8
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 2" Asphalt	0.5
								@0.5': Brick and gravel (artificial fill).	
									2.5
						ML		@2.5': Clayey SILT, light brown, firm, moist, trace sand, no odor or staining.	
5									
								@9': sand.	
10									10.0
						CL		@10': CLAY, dark gray, hard, slightly moist, some sand, odor, no staining, brick fragments.	
									14.0
						ML		@14': Clayey SILT, light brown, hard, slightly moist, some sand, no odor or staining.	15.0
15								@ 15': Refusal encountered.	
20									
25									
30									



Notes:
Total Depth of Boring: 15 feet
No groundwater encountered during drilling

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-9-Deep
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	
						SW		@0.5': Gravelly SAND, light brown, medium dense, fine to coarse grained sand with asphalt debris from 0.5-2ft bgs no odor, no staining.	4.0	
5						SM		@4': Silty SAND, light brown, medium dense, no odor or staining.	6.0	
						CL		@6': Silty CLAY, brown, hard, dry, no odor or staining.	9.5	Bentonite
10						ML		@9.5': Clayey SILT, light brown, hard, slightly moist, trace sand, no odor or staining.		1/4" Nylaflow Tubing
15									15.5	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

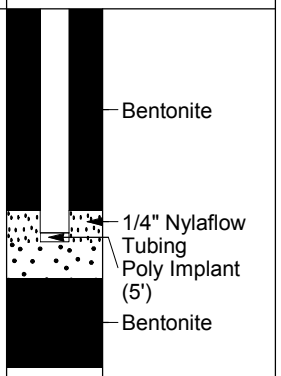
PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-9-Shallow
DATE DRILLED 12/23/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						SW		@0.5': Gravelly SAND, light brown, medium dense, fine to coarse grained sand with asphalt debris from 0.5-2ft bgs, no odor, no staining.	4.0
5						SM		@4': Silty SAND, light brown, medium dense, no odor or staining.	6.0
						CL		@6': Silty CLAY, brown, hard, dry, no odor or staining.	8.0
								@8': Refusal at depth.	
10									
15									
20									
25									
30									

Notes:
Total Depth of Boring: 8 feet
No groundwater encountered during drilling



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB1-1
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12/28/16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	N/A
Drilling Method	HA/DP	Screen Type/Slot	N/A
Sampling Method	HA/DP	Gravel Pack Type	N/A
Ground Elevation	—	Grout Type/Quantity	Bentonite
Logged By	KCH	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							3" Asphalt	
2		3:30	-1.0				@1' - SANDY SILT, brown, moist, firm, sl. odor / No S. (Tar)	
3								
4		~~3~~ 4	-5.0				@2' - Silty Clay, d.k brown, moist, firm, No tar odor/St,	
5							@5' SAA	
6								
7								
8							@8' - SANDY SILT, lt. brown moist, V Stiff. No O/S	
9								
10							@10' - Silty lt. SAND : firm, moist, stone? cemented, No O/S.	
11								
12							TD-10'	
13							Backfilled w/ Bent	
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB3-1
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Sloniers	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 3.5" AC.
								0.5' - 2.5' - Clay, dark grayish green, moist, s.p. fines, slight chemical odor (non-TPH).
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB3-2
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Siemers	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface-3" AC.
								C0.5'- Silty Sand, brown, moist, f.-m.-g. sand w/ n.p. fines
								C1.5'- Clay, d. brown, s.p. fines
5								C2.5'- Becomes grayish brown.
								TD=2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	FBS-1
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Seamans	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface – 2.5" AC.
								@ 0.5' – 2.5' – Sandy Clay; d. grayish brown, moist, s.p. fines w/f-m.g. sand
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	FBS-2
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Siemers	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface – 2" AC
								0.5'–2.5'– Clay, dark grayish brown mottled d. yellowish brown, moist, S.P. fines
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB5-3
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jar	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W Sumners	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
0								Surface - 2" AC.
								0.5'-1' - Silty Sand, grayish brown, moist.
								Refusal @ 1'.
5								
10								
15								
20								
25								
30								
35								

GE_SBL_FNC_AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB5-4
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Sommers	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 5" AC.
								@0.5' - Silty Sand, grayish black, moist, f-m. gr sand w/ n.p. fines
5								@1.5-2.5' - Clay, grayish black, moist, s.p. fines.
								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	605518.006	BORING/WELL NUMBER	EB5-5
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Sowiers	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 3.5" AC.
								@0.5' - Clayey silt, grayish brown, moist, n.p. fines w/ s.p. fines
5								@1.5-2.5' - Clay, grayish brown, moist, s.p. fines
								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	FB5-6
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Scowers	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 3" AC.
								@0.5' - Silty Sand, grayish brown, moist, f-g-sand/n.p.fines.
								@1.5' - Clay, brown w/ grayish brown mottling, moist, s.p.fines.
5								@2.5' - Same as at 0.5'.
								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB6-1
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	W Sconces	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							Surface - 4" AC.	
2							@0.5' - Silty Sand, d. brown, moist, fg. sand w/m.p. fines	
3							@1.5' - Clay, d. grayish brown, moist, s.p. fines	
4							@2.5' - P.G. Sand, grayish brown, moist, f-m.g. sand	
5							TD = 2.5' bgs.	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

~~EB6-6 4'~~ - D.brown SM, no odor, moist ~~EB6-1~~ Same, ~~EB6-4~~ Same, ~~EB6-1~~ Same (SP @ 0.5, l brown)

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB6-2
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	–
DRILLING METHOD	HA	SCREEN TYPE/SLOT	–
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	–
GROUND ELEVATION	–	GROUT TYPE/QUANTITY	–
TOP OF CASING	–	DEPTH TO WATER	–
LOGGED BY	W. Sconiers	GROUND WATER ELEVATION	–
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface – 3" AC. 0.5'-2.5'- Sandy Clay, d. brown to d. grayish brown, moist, s.p. fines w/ f.m.g. sand
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB6-3
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Scoville	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 4" AC.
								@0.5'-2.5' - Clay, d. brown, moist, s.p. fines.
								TD = 2.5' bgs.
5								
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EBS-1
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	-
Drilling Method	HA	Screen Type/Slot	-
Sampling Method	Jar	Gravel Pack Type	-
Ground Elevation	-	Grout Type/Quantity	-
Logged By	W. Sconiers	Depth to Water	-
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							@Surface - 3" AC.	
2							0.5' - 2.5' - Clay, d. brown, moist, s.p. fines, mottled d. gray ish brown.	
3								
4							TD = 2.5' bgs.	
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EBS-2
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	–
Drilling Method	HA	Screen Type/Slot	–
Sampling Method	Dars	Gravel Pack Type	–
Ground Elevation	–	Grout Type/Quantity	–
Logged By	W. Somers	Depth to Water	–
Remarks	Moved to unpaved portion in "breezeway".		

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							Surface - Topsoil.	
2							0.5'-2.5'. Sandy clay, dark grayish brown, moist.	
3								
4							TD = 2.5' bgs	
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EBS-3
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	W. Sconiers	Depth to Water	—
Remarks	Moved to unpaved portion in "breezeway".		

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							Surface - Topsoil	
2							0.5'-2.5' - Sandy Clay, dark grayish brown, moist.	
3							TD = 2.5' bgs.	
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB 8-1
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	H/A	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	W. Scowies	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							Surface - 4.5" AC.	
2							@ 0.5' - 1.5' - Clay, d. grayish brown, moist	
3							@ 2.5' - becomes brown	
4							TD = 2.5' bgs.	
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EBS-5 and EBS-6
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	W. Seamers	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							Surface - 5" AC	
2							0.5'-2.5' - Sandy Clay, d. grayish brown, moist.	
3							TD = 2.5' bgs.	
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB9-1, -5, -7 Area
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12/28/16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	~~HA~~ SPBS	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	Becky Streeter	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							@ Surface : asphalt @ 0.5 SANDY SILT : dark brown slightly moist, loose, F.g - C.g sand no o/o @ 1.5 same as 0.5 @ 2.5 SANDY SILT w/ CLAY same as 0.5	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB9-2
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	–
DRILLING METHOD	HA	SCREEN TYPE/SLOT	–
SAMPLING METHOD	Jar	GRAVEL PACK TYPE	–
GROUND ELEVATION	–	GROUT TYPE/QUANTITY	–
TOP OF CASING	–	DEPTH TO WATER	–
LOGGED BY	W. Stoniers	GROUND WATER ELEVATION	–
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
0								Surface - 3.5" AC.
								C0.5'-1' Silty Sand, grayish brown, moist, f.g sand w/n.p.fines,
								C1.5-2.5'- Sandy Clay, grayish brown, moist, s.p.fines w/ f-m.g.Sand, greenish gray mottling.
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC.AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB9-3
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Sconniers	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 4" AC.
								0.5' - 2.5' - Sandy Clay, d. grayish brown, moist, s.p. fines w/ f.g. sand.
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB9-4
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jam	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	W. Stonicks	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							Surface - 4.5" - AC.	
2							@0.5'-1.5'- Silty Sand, light pale brown, moist, F.g. sand w/m.p. fines	
3							@2.5'- grades into Sandy Clay, d. brown, moist	
4								
5							TD = 2.5' bgs.	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB9-6
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	-
Drilling Method	Hand auger (HA)	Screen Type/Slot	-
Sampling Method	Jars	Gravel Pack Type	-
Ground Elevation	-	Grout Type/Quantity	-
Logged By	W. Scollick	Depth to Water	-
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							Surface – 4" - AC.	
2							4" – 2.5' - Silty Sand, d. brown, moist, f.g. sand w/ n.p. fines,	
3							TD = 2.5' bgs	
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB10-1
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	W. Sowlich	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							Surface - 3" - AC.	
2							3" - 2.5' - Silty Sand, d. brown, moist, f-g. sand w/ m.p. fines.	
3								
4							TD = 2.5' bgs	
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB10-2
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12/28/16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	Becky Steiner	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							@ Surface asphalt @ 0.5 Sandy silt, dark brown slightly moist Refusal just below ~0.5' bgs TD = ~0.5' bgs	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB11 Area
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12/28/16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	Becky Steever	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							@ Surface asphalt @ 0.5 Sandy silt, d brown @ 1.5 Same as 0.5 @ 2.5 Sandy silt w/ clay TD = 2.5' bgs	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB12 Area
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12/28/16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	-	Grout Type/Quantity	—
Logged By	Becky Steever	Depth to Water	—
Remarks	Same soil type/depths as EB13-2		

DEPTH (ft. BGL)	RECOVERY	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							@ surface asphalt @ 0.5 silty sand, dark brown, moist @ 1.5 silt sand, light brown @ 2.5 silty sand same as 1.5 TD = 2.5' bgs	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603373.004	Boring Number	FBC Area
Project Name	[illegible]	Date Drilled	12/28/15
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	–
Drilling Method	[illegible]	Screen Type/Slot	–
Sampling Method	[illegible]	Gravel Pack Type	–
Ground Elevation	–	Grout Type/Quantity	–
Logged By	BES	Depth to Water	–
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1							[illegible]
2							@ 0.5 [illegible]
3							[illegible]
4							
5							@ 1.5 [illegible]
6							
7							@ 2.5 [illegible]
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	EB15 Area
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12/28/16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	Becky Steeves	Depth to Water	—
Remarks	Same soil type/depths as EB13-2		

DEPTH (ft. BGL)	RECOVERY	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							@ surface asphalt @ 0.5 silty sand, d. brown, moist @ 1.5 silty sand, light brown @ 2.5 silty sand same as 1.5 TD = 2.5' bgs	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

A Leighton Group Company

BORING LOG

PROJECT NUMBER	103378.006	BORING/WELL NUMBER	EB16-1
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Scollick	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 2.5" AC.
								C 0.5'-2.5' - Same as EB3-1.
								TD = 2.5' bgs.
5								
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB16-2
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Scowen	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 4.5" AC.
								@ 0.5' - Silty Sand, grayish black, moist, f-m. g-sandy / n.p. fines
5								@ 1.5-2.5' - Clay, grayish black, moist, s.p. fines.
								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

31

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB16-3
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Sconiers	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 4" AC.
								@0.5' - Sandy Clay, grayish black, moist, s.p. fines w/ f.g. sand
5								@1.5'-2.5' - P.G. Sand, gray, moist, f.m.g. sand.
								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB20-1 and EB20-2
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Swonics	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
0								Surface – 3" AC.
								0.5'–2.5'– Gravelly Sand, brown, moist, F-m. g sand w/ s.a. gravel to 1.5"
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC_AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB20-3
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Scoviers	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
0								Surface - 1.5" A.C.
								@0.5' - Silty Sand, d. brown, moist, f-m.g., sandy/n.p. fines
								@1.5'-2.5' - grades into Clay, d. brown, moist, s.p. fines
5								TD = 2.5' bgs
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB20-1
PROJECT NAME	—	DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Scowcroft	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface – 5" AC.
								0.5' – Silty Sand, d. brown, moist, f-m-g sand w/ n.p. fines.
								1.5'-2.5' – Clayey Sand, d. brown, moist, f-m-g sand w/ s.p. fines
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	403378.006	BORING/WELL NUMBER	EB20-5 and EB20-6
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Sconiers	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - Topsoil.
								0.5'-2.5' - Clay to Clayey Sand; d. brown, moist, sp. fines and F.-m. gr. sand w/ sp. fines
5								TD = 2.5' bgs
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB20-7
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	–
DRILLING METHOD	HA	SCREEN TYPE/SLOT	–
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	–
GROUND ELEVATION	–	GROUT TYPE/QUANTITY	–
TOP OF CASING	–	DEPTH TO WATER	–
LOGGED BY	W. Suomies	GROUND WATER ELEVATION	–
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface – 4.5" Concrete
								@ 0.5'-2.5'- Silty, Sandy clay, brown, moist, s.p. fines w/ n.p. fines and f.-m.-g. sand.
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB20-8
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	–
DRILLING METHOD	HA	SCREEN TYPE/SLOT	–
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	–
GROUND ELEVATION	–	GROUT TYPE/QUANTITY	–
TOP OF CASING	–	DEPTH TO WATER	–
LOGGED BY	W. Scoville	GROUND WATER ELEVATION	–
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface – 7.5" concrete
								@ 0.5'-1.5'- Silty Sand, brown, moist, F.m.g. sand w/m.p.fines,
								@ 2.5'- Clay, brown, moist, s.p.fines
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB22-1
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	–
DRILLING METHOD	HA	SCREEN TYPE/SLOT	–
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	–
GROUND ELEVATION	–	GROUT TYPE/QUANTITY	–
TOP OF CASING	–	DEPTH TO WATER	–
LOGGED BY	W. Siemers	GROUND WATER ELEVATION	–
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
0								Surface – 2.5" AC
								CO.5'-2.5'- Clay, d. grayish brown, moist, s.p. fines
								TD = 2.5' bgs
5								
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB22-2
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W Swonger	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 2.5"-4" - AC.
								@0.5'-2.5' - Sandy Clay, d. grayish brown, moist, s.p. f-m.g. sand.
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB23-1
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING		DEPTH TO WATER	-
LOGGED BY	W. Suomico	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
0								Surface - Topsoil
								@0.5'-2.5'- Clay, brown, moist, s.p. fines.
								TD = 2.5' bgs.
5								
10								
15								
20								
25								
30								
35								

GE_SBL_FNC.AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB23-2
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	–
DRILLING METHOD	HA	SCREEN TYPE/SLOT	–
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	–
GROUND ELEVATION	–	GROUT TYPE/QUANTITY	–
TOP OF CASING	–	DEPTH TO WATER	–
LOGGED BY	W. Scionicis	GROUND WATER ELEVATION	–
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 3" AC CO.5'-2.5'- P.G. Sand w/ Silt, brown, moist, f-m.g. sand w/ n.p. fines
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603778.006	BORING/WELL NUMBER	EB23-3
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Swanick	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 3" AC.
								0.5' - 2.5' - Silty Sand, d. grayish brown, moist, f-m.g. sand w/ n.p. fines.
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	ETB24-1
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Sarv	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Services	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 2.5" AC
								0.5'-2.5' - P. Gr. Sand, gray, dry-moist, f-m.g. sand.
								TD = 2.5' bgs.
5								
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603318.006	BORING/WELL NUMBER	EB24-2 and EB24-6 and -3
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Scoville	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface – 3" AC.
								@ 0.5' – 2.5' – Sandy Clay, brown to dark brown, moist, s.p. fines w/ f. gr. sand
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	403378.006	BORING/WELL NUMBER	EB24-4
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	–
DRILLING METHOD	H/A	SCREEN TYPE/SLOT	–
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	–
GROUND ELEVATION	–	GROUT TYPE/QUANTITY	–
TOP OF CASING	–	DEPTH TO WATER	–
LOGGED BY	W. Scanlon	GROUND WATER ELEVATION	–
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface – 3" AC.
								C 0.5' – P.G. Sand, brown, moist, F-m.g. sand
								C 1.5'-2.5' – Clayey Sand, brown, moist, m.g. sand w/ s.p. fines
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	EB24-5
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Sconiers	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 2" AC
								@0.5'-1.25' - P.G. Sand, gray, dry-moist.
								Refusal @ 1.25' (cobble? base?)
5								
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

PROJECT NUMBER	603378.001	BORING/WELL NUMBER	EB25-1
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Sloniker	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 3.5" AC.
								0.5'-2.5' - Clay, dark grayish green, moist, s.p. fines, slight chemical odor (non-TPH).
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	403378.006	BORING/WELL NUMBER	EB25-2
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Stomich	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 3" AC.
								@ 0.5' P.Gr. Sand, gray, moist, f-g. sand
5								Refusal @ 1' (unknown obstruction)
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603578.006	BORING/WELL NUMBER	EB25-3
PROJECT NAME		DATE DRILLED	12-29-16
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Scanlon	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 2"
								@ 0.5' - 2.5' - Sandy Clay, d. gray/ish brown, moist, s.p. fines w/ f. m.g. sand.
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

50

PROJECT NUMBER	402778.006	BORING/WELL NUMBER	FB1-1
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Scorcis	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 8" concrete.
								@0.5' - P. G. sand, brown, moist, f-m. gr. sand
5								@1.5'-2.5' - Clay, d. brown w/mottling (grayish black), moist, s.p. fines, slight s/c odor, dark brown @2.5'
								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GOT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	FB1-2 through FB1-6
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Stonicks	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 6.5"-8.5" Concrete
								0.5'-2.5'- Sandy Clay, d. grayish brown, moist, c.p. Fines w/F-m.g. Sand, slight HC odor?
5								TD = 2.5' bgs
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	FB1-7
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	–
DRILLING METHOD	HA	SCREEN TYPE/SLOT	–
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	–
GROUND ELEVATION	–	GROUT TYPE/QUANTITY	–
TOP OF CASING	–	DEPTH TO WATER	–
LOGGED BY	W. Summers	GROUND WATER ELEVATION	–
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
0								Surface - 6.5" concrete.
								@ 0.5' - Sandy clay, gray/rich brown, moist, s.p. fines w/ f.-m.-g. sand
5								Refusal @ 1' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	FB2-1
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	—
DRILLING METHOD	HA	SCREEN TYPE/SLOT	—
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	—
GROUND ELEVATION	—	GROUT TYPE/QUANTITY	—
TOP OF CASING	—	DEPTH TO WATER	—
LOGGED BY	W. Sconiers	GROUND WATER ELEVATION	—
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
0								Surface - 2.5" AC
								@ 0.5'-1.5' - Clayey Sand, d. reddish brown, moist, f-m.g. sand w/ s.p. fines
5								@ 2.5' - Clay, light brown, brown, moist, s.p. fines
								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603378.006	BORING/WELL NUMBER	FB2-2 through FB2-4
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jars	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Stevens	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 2.5"-3.5" AC.
								@ 0.5'-2.5' - Clayey Sand, dark reddish brown, moist, F-m.g. sand w/s.p. fines.
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	FB4-1 through FB4-4
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	-
Drilling Method	HA	Screen Type/Slot	-
Sampling Method	Jars	Gravel Pack Type	-
Ground Elevation	-	Grout Type/Quantity	-
Logged By	W. Stonich	Depth to Water	-
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							Surface - AC (2-3")	
2							@ 0.5' - Poorly graded Sand, l. brown, moist, f.g. sand.	
3							@ 1.5-2.5' - Silty Sand, d. brown, moist.	
4								
5							TD = 2.5' bgs.	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	FBS-1 + FBS-2
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12/28/16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	Becky Steuer	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							@ surface asphalt @ 0.5 Sandy silt, dk. brown, moist @ 1.5 Same as 0.5 @ 2.5 Same as 0.5 TD = 2.5' bgs	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	FB9-1 through FB9-4
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12-29-96
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	Jars	Gravel Pack Type	—
Ground Elevation	—	Grout Type/Quantity	—
Logged By	W. Scowden	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							Surface - 2-3" AC.	
2							@ 0.5'-2.5' - Sandy Clay, dark brown, moist, some brick pieces.	
3							TD = 2.5' bgs	
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	[illegible]	Boring Number	FB10 Area
Project Name	[illegible]	Date Drilled	12/28/16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	–
Drilling Method	HA	Screen Type/Slot	–
Sampling Method	HA	Gravel Pack Type	–
Ground Elevation	–	Grout Type/Quantity	–
Logged By	[illegible]	Depth to Water	–
Remarks	FB 10-3 Stepped out 3 ft South (Pipe) Stepped out 3 ft East (Pipe)		

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1							@ [illegible]
2							@ 0.5 [illegible] SAND gray-brown, [illegible]
3							loose, no clay, some staining
4							
5							@ 1.5 SAND light brown, moist, loose
6							Fine - [illegible] sand no s/o
7							
8							
9							@ 2.5 same w/ lases of clay
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							FB10-3 - stepped out twice
21							[illegible]
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							

~~1-0.5 [illegible]~~	~~2-0.5 0850~~	~~3-0.5 0822~~	~~4-0.5 [illegible]~~
~~-1.5 0913~~	~~1.5 [illegible]~~	~~1.5 0824~~	~~1.5 0813~~
~~-2.5 0915~~	~~2.5 [illegible]~~	~~2.5 0825~~	~~2.5 0925~~

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	60337B.006	Boring Number	FB11
Project Name	LAUSD - Burroughs M.S.	Date Drilled	12/28/16
Location	600 S. McCadden Place, Los Angeles	Casing Type/Diameter	–
Drilling Method	HA	Screen Type/Slot	–
Sampling Method	SPS	Gravel Pack Type	–
Ground Elevation	–	Grout Type/Quantity	–
Logged By	Becky Steaker	Depth to Water	–
Remarks	FB11-4 moved 2.0 ft NW (pipe) FB11-3 moved 2.0 ft SE (pipe)		

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1							@ surface asphalt
2							@ 0.5 SAND/CLAY [illegible], moist, plastic,
3							c.g. sand w/ trace gravel no s/o
4							
5							@ 1.5 Same as 0.5
6							
7							
8							@ 2.5 CLAY clay, moist, plastic
9							trace c.g. sand no s/o
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							

1-0.5	11:45	2-0.5	1116	3-0.5	1147	4-0.5	1117
1.5	1150	1.5	1115	1.5	1152	1.5	1122
2.5	1155	2.5	1120	2.5	1157	2.5	1125

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	[illegible]	Boring Number	FBJ2-1
Project Name	[illegible]	Date Drilled	12/28/16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	—
Drilling Method	HSA	Screen Type/Slot	—
Sampling Method	Hand Sand	Gravel Pack Type	—
Ground Elevation	-	Grout Type/Quantity	—
Logged By	Becky Strosser	Depth to Water	—
Remarks			

DEPTH (ft BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1							@ Surface asphalt
2							@ 0.5 SILTY SAND, light brown, dry, loose, no silt, trace gravel
3							
4							
5							@ 1.5 SILTY SAND same as 0.5
6							
7							@ 2.5 SILTY SAND, same as 0.5, trace clay
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							

FBJ2-1-0.5 : 1049
1.5 1053
2.5 1055

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378.006	Boring ID	FB13-1
Project Name	LAUSD - Burroughs Middle School	Date Drilled	12/28/16
Location	600 S McCadden Place, Los Angeles	Casing Type/Diameter	–
Drilling Method	HA	Screen Type/Slot	–
Sampling Method	JWS	Gravel Pack Type	–
Ground Elevation	–	Grout Type/Quantity	–
Logged By	Becky Stever	Depth to Water	–
Remarks			

DEPTH (ft. BGL)	RECOVERY	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	WELL DIAGRAM
1							@ Surface AC @ 0.5 silty sand, light brown, dry, loose @ 1.5 silty sand, same as 0.5 @ 2.5 silty sand, some clay TD = 2.5' bgs	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	603378 [illegible]	Boring Number	FB14 Area (1)
Project Name	[illegible]	Date Drilled	12/28/14
Location	600 S McCadden Place, LA	Casing Type/Diameter	~~[illegible]~~
Drilling Method	HA	Screen Type/Slot	N/A
Sampling Method	~~HA~~ JARS	Gravel Pack Type	N/A
Ground Elevation	–	Grout Type/Quantity	N/A
Logged By	Becky Steever	Depth to Water	N/A
Remarks	Start @ 0935		

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1			-0.5				@ Surface asphalt
2			-1.5				@ 0.5 SILTY SAND - light brown, slightly moist
3			-2.5				loose, trace gravel + clay, no sp
4							
5							@ 1.5 SILTY SAND - dark brown, same @ 0.5
6							
7							
8							@ 2.5 SILTY SAND, same @ 1.5
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							- Found pieces of [illegible] in FB14-4
36							- FB 14-2 cobbles
37							
38							
39							

1-0.5	1030	2-0.5	1000	3-0.5	0950	4-0.5	0952	5-0.5	1010	6-0.5	1032
1.5	1036	1.5	1010	1.5	0953	1.5	0954	1.5	1015	1.5	1035
2.5	1040	2.5	1020	2.5	0956	2.5	0956	2.5	1020	2.5	1038

A Leighton Group Company

BORING LOG

PROJECT NUMBER	603718.006	BORING/WELL NUMBER	FB15-1 through FB15-4
PROJECT NAME		DATE DRILLED	1-3-17
LOCATION		CASING TYPE/DIAMETER	-
DRILLING METHOD	HA	SCREEN TYPE/SLOT	-
SAMPLING METHOD	Jar	GRAVEL PACK TYPE	-
GROUND ELEVATION	-	GROUT TYPE/QUANTITY	-
TOP OF CASING	-	DEPTH TO WATER	-
LOGGED BY	W. Suomi	GROUND WATER ELEVATION	-
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 2.5" - 3" AC.
								0.5' - 2.5' - P.G. Sand w/ Silt and Clay, brown, moist, f-m-g. sand w/ n.p. and s.p. fines.
5								TD = 2.5' bgs.
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	LO 3378 006	Boring Number	FB16 Area
Project Name		Date Drilled	12/28/16
Location		Casing Type/Diameter	—
Drilling Method	HA	Screen Type/Slot	—
Sampling Method	~~HA~~ Sacs	Gravel Pack Type	—
Ground Elevation		Grout Type/Quantity	—
Logged By	Becky Steever	Depth to Water	—
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							

0802
0805
0808

0745
0750
0754

A Leighton Group Company

BORING LOG

PROJECT NUMBER		BORING/WELL NUMBER	EB13-2-N10
PROJECT NAME		DATE DRILLED	4-11-17
LOCATION		CASING TYPE/DIAMETER	
DRILLING METHOD		SCREEN TYPE/SLOT	
SAMPLING METHOD		GRAVEL PACK TYPE	
GROUND ELEVATION		GROUT TYPE/QUANTITY	
TOP OF CASING		DEPTH TO WATER	
LOGGED BY		GROUND WATER ELEVATION	
REMARKS	t-N5, -W5, -S10, EB13-1-B5, -W5		

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface - 4" AC over Sandy Clay, d. grayish brown, moist, s.p. fines w/ f-m.g. sand to TD
								TD = 2.5'
5								
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER		BORING/WELL NUMBER	EB13-1-W10
PROJECT NAME		DATE DRILLED	4-11-17
LOCATION		CASING TYPE/DIAMETER	
DRILLING METHOD		SCREEN TYPE/SLOT	
SAMPLING METHOD		GRAVEL PACK TYPE	
GROUND ELEVATION		GROUT TYPE/QUANTITY	
TOP OF CASING		DEPTH TO WATER	
LOGGED BY		GROUND WATER ELEVATION	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 4" AC over Sandy Clay, d.grayish brown, moist, sp.fines w/f-m.g. sand, brick in 0.5' sample
								TD = 2.5'
5								
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS

BORING/WELL NUMBER EB15-1-S5, EB12-1-S10, -S5, -NS, -N
DATE DRILLED 4-10-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface – 5" AC over Sandy Clay, d. brown, moist, s.p. fines w/f.-m.g sand, contains asphalt (broken, 2")
								TD = 2.5' to 4'

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number		Boring Number	FB14-1-W10
Project Name		Date Drilled	4-12-17
Location		Casing Type/Diameter	
Drilling Method		Screen Type/Slot	
Sampling Method		Gravel Pack Type	
Ground Elevation		Grout Type/Quantity	
Logged By		Depth to Water	
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1							@Surface - 4" AC over Silty Sand, brown, moist, f-m-g. sand w/ n.p. fines to 2.5'
2							
3							
4							
5							
6							TD = 2.5'
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							

A Leighton Group Company

BORING LOG

PROJECT NUMBER		BORING/WELL NUMBER	FB14-1-N10-, N5
PROJECT NAME		DATE DRILLED	4-12-17
LOCATION		CASING TYPE/DIAMETER	
DRILLING METHOD		SCREEN TYPE/SLOT	
SAMPLING METHOD		GRAVEL PACK TYPE	
GROUND ELEVATION		GROUT TYPE/QUANTITY	
TOP OF CASING		DEPTH TO WATER	
LOGGED BY		GROUND WATER ELEVATION	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
0								@Surface - 4" AC over Sandy Clay, moist, d. brown, s. p. fine w/ f-m-g. sand, brick fragments in 0-5' sample, CL to 2.5'
5								TD = 2.5'
10								
15								
20								
25								
30								
35								

GE_SBL_FNC_AB_GWGN01.GPJ_LAEWNN01.GDT 4/1/05

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number		Boring Number	FB14-1-W5, -E5, -E8.5
Project Name		Date Drilled	4-12-17
Location		Casing Type/Diameter	
Drilling Method		Screen Type/Slot	
Sampling Method		Gravel Pack Type	
Ground Elevation		Grout Type/Quantity	
Logged By		Depth to Water	
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1							@ Surface - 4" AC over Silty Sand, brown, moist, f-m.g. sand w/ n.p. fines to 1.5'
2							
3							
4							
5							@ 1.5' - Sandy Clay, d. brown, moist, s.p. fines w/ f-m.g. sand
6							
7							
8							
9							@ 2.5' - same as @ 0.5'
10							
11							TD = 2.5'
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number		Boring Number	FB16-1-E10f-ES
Project Name		Date Drilled	4-12-17
Location		Casing Type/Diameter	
Drilling Method		Screen Type/Slot	
Sampling Method		Gravel Pack Type	
Ground Elevation		Grout Type/Quantity	
Logged By		Depth to Water	
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	BLOW COUNTS	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1							@Surface-4" AC over Sandy Clay, d.brown-black, moist, s.p. fines w/f-m.g. sand, contains tar sands in intervals/inclusions to 2.5', mod HC odor
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							

TD=2.5'

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS

BORING/WELL NUMBER FB16-1-W10, -W5, -S5, -S10, -N10, -N5
DATE DRILLED 4-12-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@ Surface - 4" AC over Sandy Silty brown/d. brown (mottling) moist, s.p. fines w/ fine sand to 2.5'
								TD = 2.5'

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS

BORING/WELL NUMBER EB13-2-W10, -S5
DATE DRILLED 4-11-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@ Surface - 3" AC over Silty Sand, l. brown, moist, f-m.g. sand w/ n.p. fines
								@ 1.5' - Sandy Clay, d. brown, moist, s.p. fines w/ f-m.g. sand
5								TD = 2.5'
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER		BORING/WELL NUMBER	EBH-1-W10, EBH-2-S10
PROJECT NAME		DATE DRILLED	4-10-17
LOCATION		CASING TYPE/DIAMETER	
DRILLING METHOD		SCREEN TYPE/SLOT	
SAMPLING METHOD		GRAVEL PACK TYPE	
GROUND ELEVATION		GROUT TYPE/QUANTITY	
TOP OF CASING		DEPTH TO WATER	
LOGGED BY		GROUND WATER ELEVATION	
REMARKS	+ EBH-1-S10		

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface-4" AC over Silty Sand, brown, moist, f-m.g. sand w/n.p. fines
								@1.5'- Sandy Clay, d. brown, moist, s.p fines w/f.g. sand
5								TD = 2.5'
10								
15								
20								
25								
30								
35								

GE_SBL_FNC_AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS

BORING/WELL NUMBER EB11-1-SS, -WS
DATE DRILLED 4-10-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@ Surface - 4" AC over Sandy Clay, d. brown, moist, 5-m.p. fines w/ f-m.g. sand
								TD = 2.5'

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS EB10-2-W5,

BORING/WELL NUMBER EB11-2-N10, -N5, -E5, -S5
DATE DRILLED 4-10-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								Surface - 5" AC over Sandy Clays, d. grayish brown, moist, s.p. fines w/f-m-g. sand, no odor - to 2.5'
								TD = 2.5'
5								
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

EB9-1-E9, S5, S10, W5

PROJECT NUMBER		BORING/WELL NUMBER	
PROJECT NAME		DATE DRILLED	4-11-17
LOCATION		CASING TYPE/DIAMETER	
DRILLING METHOD		SCREEN TYPE/SLOT	
SAMPLING METHOD		GRAVEL PACK TYPE	
GROUND ELEVATION		GROUT TYPE/QUANTITY	
TOP OF CASING		DEPTH TO WATER	
LOGGED BY		GROUND WATER ELEVATION	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
0								@Surface - 4" AC over P.G. Sand, brown-l. brown, moist, f-m-g-sand to 1.5'
5								@1.5-TD = Sandy Clay, d. grayish brown, moist, s.p. fm c w/ f-m-g. sand.
								TD = 2.5'
10								
15								
20								
25								
30								
35								

GE_SBL_FNC_AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS

BORING/WELL NUMBER EB20-6-N5, -N10, -S5
DATE DRILLED 4-12-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface - Topsoil + geofabric over Silty Sand, d. brown, moist, f-m.g. sand w/ m.p. fines
								@1.5 - brown
5								TD = 2.5'
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER		BORING/WELL NUMBER	EB9-7-W6
PROJECT NAME		DATE DRILLED	4-1-17
LOCATION		CASING TYPE/DIAMETER	
DRILLING METHOD		SCREEN TYPE/SLOT	
SAMPLING METHOD		GRAVEL PACK TYPE	
GROUND ELEVATION		GROUT TYPE/QUANTITY	
TOP OF CASING		DEPTH TO WATER	
LOGGED BY		GROUND WATER ELEVATION	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface - 6" AC over Sandy Clay, gray-green, moist, sp. fines w/ f-m-g. sand, moderate fill-like odor, to TD
								TD = 2.5'
5								
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER		BORING/WELL NUMBER	(4-117 EBS-4-N5, -S7.5, -N10, EBS-3-E5, -W5, -N10
PROJECT NAME		DATE DRILLED	
LOCATION		CASING TYPE/DIAMETER	
DRILLING METHOD		SCREEN TYPE/SLOT	
SAMPLING METHOD		GRAVEL PACK TYPE	
GROUND ELEVATION		GROUT TYPE/QUANTITY	
TOP OF CASING		DEPTH TO WATER	
LOGGED BY		GROUND WATER ELEVATION	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface - 5" AC over Silty Sand, ~~& brown~~ grayish brown, moist, f-m.g. sand w/ n.p. fines to 1.5'
5								@1.5' - Sandy Clay, grayish brown, moist, s.p. fines w/ f-m.g. sand to 2.5' (TD)
								TD = 2.5'
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER		BORING/WELL NUMBER	E139-1-E9, -E5
PROJECT NAME		DATE DRILLED	4-11-17
LOCATION		CASING TYPE/DIAMETER	
DRILLING METHOD		SCREEN TYPE/SLOT	
SAMPLING METHOD		GRAVEL PACK TYPE	
GROUND ELEVATION		GROUT TYPE/QUANTITY	
TOP OF CASING		DEPTH TO WATER	
LOGGED BY		GROUND WATER ELEVATION	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@ Surface - 4" AC over P.G. Sand, l brown-tan, moist, f.g. sand to 2.5' (TD).
								TD=2.5'
5								
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS

BORING/WELL NUMBER EB20-6-W5, W8
DATE DRILLED 4-12-16
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface - Topsoil + geofabric over Silty Sand, brown, moist, f-m-g sand w/ n.p. fines to 2.5'
								@2.5' - Sandy Clay, d. brown, moist, s.p fines w/ f-g sand, contains roots
								TD = 2.5'

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS +-E5, -W5, -S5, -S10 (3-5"AC)

BORING/WELL NUMBER EB23-2-N5, -N8, -W10 (5"AC)
DATE DRILLED 4-11-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface- Topsoil (in planter) over Silty Sand, brown, moist, f-m.g. sand w/n.p. fines
								@1.5-TD = Sandy Clay, d. brown, moist, s.p. fines w/f-m.g. sand
5								TD = 2.5'
10								
15								
20								
25								
30								
35								

GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS

BORING/WELL NUMBER EB10-2-WS, -SS, -S10
DATE DRILLED 4-10-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface - 3" AC over Silty Sand, d. brown, moist, f-m.g. sand and n.p. fines
								@2.5' - Sandy Clay, d. brown, moist, s.p. fines w/ f-m.g. sand
5								TD=2.5'
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS +EB9-6-N10, -N5, -E5, -S5, -S10

BORING/WELL NUMBER EB9-1-S5, -S10
DATE DRILLED 4-10-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface - 4" AC over clayey Sand, d. brown, moist, f-m-g sand w/s.p. fines, no odor
								TD=2.5'
5								EB9-6s:
								: N10 - CL@3', Refused.
								: S5 - CL@3'+4'
								: E5 - CL@3'+4'
10								: N5 - CL@3', SM w/brick@4'
								: S10 - SM@3', Refused.
								: E10 - CL@3'+4'
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS + FB9-1-NS

BORING/WELL NUMBER FB9-4-NS, WS
DATE DRILLED 4-10-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface - 4" AC over Sandy Clay, moist, d. brown, s.p. fines w/ f-m.g. sand to 2.5' - no odor
								@2.5' - P.G. Sand, tan, dry-moist, f-m.g. sand, no odor
5								TD = 2.5'
10								
15								
20								
25								
30								
35								

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER		BORING/WELL NUMBER	FB9-4-W10
PROJECT NAME		DATE DRILLED	4-10-17
LOCATION		CASING TYPE/DIAMETER	
DRILLING METHOD		SCREEN TYPE/SLOT	
SAMPLING METHOD		GRAVEL PACK TYPE	
GROUND ELEVATION		GROUT TYPE/QUANTITY	
TOP OF CASING		DEPTH TO WATER	
LOGGED BY		GROUND WATER ELEVATION	
REMARKS	FB9-1-W5		

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface - 4" AC over Sandy Clay, d. brown, moist, s.p. fines w/ f-m-g. sand and trace gravel to 2.5'
								@2.5' - Clay w/ sand, d. brown, moist, s.p. fines w/ f-m-g sand in pockets/inclusions, heavy brick content
								TD=2.5'

GE_SBL_FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

A Leighton Group Company

BORING LOG

PROJECT NUMBER
PROJECT NAME
LOCATION
DRILLING METHOD
SAMPLING METHOD
GROUND ELEVATION
TOP OF CASING
LOGGED BY
REMARKS

BORING/WELL NUMBER FBQ-1-W10
DATE DRILLED 4-10-17
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface - 4" AC over Sandy Clay, d. grayish brown, moist, s.p. fines w/ fine g. sand, high brick content, no odor
5								@1.5' - becomes brown
								TD = 2.5'
10								
15								
20								
25								
30								
35								

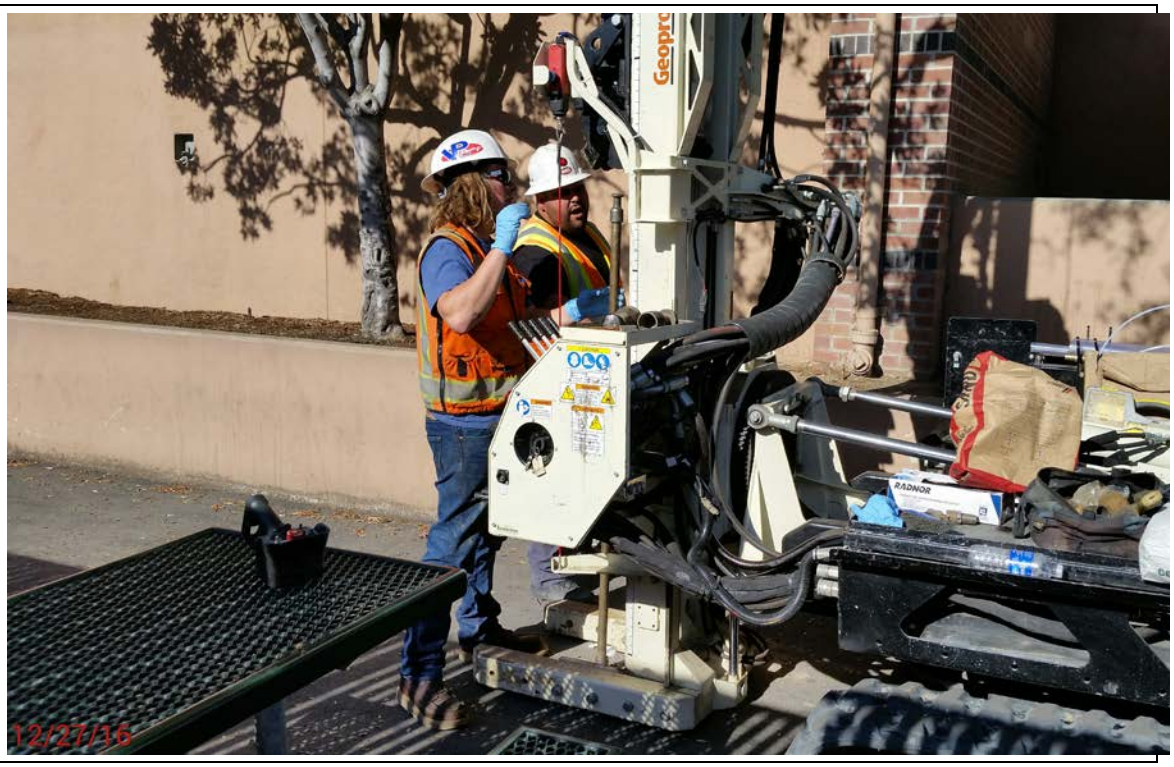
GE_SBL FNC AB GWGN01.GPJ LAEWNN01.GDT 4/1/05

APPENDIX C

PHOTOGRAPHIC LOG

Leighton Consulting, Inc.	**PHOTOGRAPHIC LOG** 12/23/2016-7/17/2017	
Client Name: **Los Angeles Unified School District**	**Site Location: Burroughs Middle School,** **600 South McCadden Place, Los Angeles, California**	**Project No.** **603378-006 & 11640.001**

Photo No. 1	
View Direction of Photo: Northeast **Date of Photo:** 12/27/2016	
Description: Geophysical survey in playground area near the borehole location for a methane probe (M-13).	

Photo No. 2	
View Direction of Photo: Northwest **Date of Photo:** 12/27/2016	
Description: Typical direct push drilling to advance boreholes and install methane probes (M-3D area)	

Leighton Consulting, Inc.	**PHOTOGRAPHIC LOG** 12/23/2016-7/17/2017	
Client Name: **Los Angeles Unified School District**	**Site Location: Burroughs Middle School,** **600 South McCadden Place, Los Angeles, California**	**Project No.** **603378-006 & 11640.001**

Photo No. 1	
View Direction of Photo: South **Date of Photo:** 4/11/2017	
Description: Typical core removal prior to hand-augering and sampling soil (EB23-2 area).	

Photo No. 2	
View Direction of Photo: Southwest **Date of Photo:** 7/17/2017	
Description: Former building 16 area.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC LOG** 12/23/2016-7/17/2017	
Client Name: **Los Angeles Unified School District**	**Site Location: Burroughs Middle School, 600 South McCadden Place, Los Angeles, California**	**Project No.** **603378-006 & 11640.001**

Photo No. 1 **View Direction of Photo:** Southwest **Date of Photo:** 7/17/2017 **Description:** Former building 14 area.	

Photo No. 2 **View Direction of Photo:** Northeast **Date of Photo:** 7/17/2017 **Description:** Existing Building 13 area within fenced enclosure.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC LOG** 12/23/2016-7/17/2017	
Client Name: **Los Angeles Unified School District**	**Site Location: Burroughs Middle School, 600 South McCadden Place, Los Angeles, California**	**Project No.** **603378-006 & 11640.001**

Photo No. 1	
View Direction of Photo: North **Date of Photo:** 7/17/2017	
Description: EB9-7 area near former incinerator.	

Photo No. 2	
View Direction of Photo: South **Date of Photo:** 7/17/2017	
Description: Drum containing IDW temporarily stored near EB10-2 boring.	

APPENDIX D

LABORATORY ANALYTICAL REPORTS

DECEMBER 2016 THROUGH JANUARY 2017
LABORATORY REPORTS

ADVANCED TECHNOLOGY LABORATORIES

January 05, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1604882
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on December 23, 2016 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	01/05/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
M-3-10.0	1604882-02	Soil	12/23/16 13:25	12/23/16 16:50
M-3-12.5	1604882-03	Soil	12/23/16 13:30	12/23/16 16:50

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Client Sample ID M-3-10.0

Lab ID: 1604882-02

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C8-C10	ND	10	10	10	B7A0006	12/31/2016	01/04/17 22:55	
C10-C18	**32**	10	10	10	B7A0006	12/31/2016	01/04/17 22:55	
C18-C28	**230**	10	10	10	B7A0006	12/31/2016	01/04/17 22:55	
C28-C36	**410**	10	10	10	B7A0006	12/31/2016	01/04/17 22:55	
C36-C40	**250**	10	10	10	B7A0006	12/31/2016	01/04/17 22:55	
C8-C40 Total	**930**	10	10	10	B7A0006	12/31/2016	01/04/17 22:55	
Surrogate: p-Terphenyl	*0%*		*18 - 130*		B7A0006	12/31/2016	*01/04/17 22:55*	S4

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,1,1-Trichloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,1,2-Trichloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,1-Dichloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,1-Dichloroethene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,1-Dichloropropene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,2,3-Trichloropropane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,2,3-Trichlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,2,4-Trichlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,2,4-Trimethylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,2-Dibromo-3-chloropropane	ND	10	1	B6L1067	12/29/2016	12/29/16 19:01	
1,2-Dibromoethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,2-Dichlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,2-Dichloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,2-Dichloropropane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,3,5-Trimethylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,3-Dichlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,3-Dichloropropane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
1,4-Dichlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
2,2-Dichloropropane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
2-Chlorotoluene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
4-Chlorotoluene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
4-Isopropyltoluene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Benzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Client Sample ID M-3-10.0

Lab ID: 1604882-02

Volatile Organic Compounds by EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Bromochloromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Bromodichloromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Bromoform	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Bromomethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Carbon disulfide	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Carbon tetrachloride	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Chlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Chloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Chloroform	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Chloromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
cis-1,2-Dichloroethene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
cis-1,3-Dichloropropene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Di-isopropyl ether	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Dibromochloromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Dibromomethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Dichlorodifluoromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Ethyl Acetate	ND	50	1	B6L1067	12/29/2016	12/29/16 19:01	
Ethyl Ether	ND	50	1	B6L1067	12/29/2016	12/29/16 19:01	
Ethyl tert-butyl ether	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Ethylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Freon-113	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Hexachlorobutadiene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Isopropylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
m,p-Xylene	ND	10	1	B6L1067	12/29/2016	12/29/16 19:01	
Methylene chloride	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
MTBE	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
n-Butylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
n-Propylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Naphthalene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
o-Xylene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
sec-Butylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Styrene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
tert-Amyl methyl ether	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
tert-Butanol	ND	100	1	B6L1067	12/29/2016	12/29/16 19:01	
tert-Butylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Tetrachloroethene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Client Sample ID M-3-10.0

Lab ID: 1604882-02

Volatile Organic Compounds by EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
trans-1,2-Dichloroethene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
trans-1,3-Dichloropropene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Trichloroethene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Trichlorofluoromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Vinyl acetate	ND	50	1	B6L1067	12/29/2016	12/29/16 19:01	
Vinyl chloride	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:01	
Surrogate: 1,2-Dichloroethane-d4	*93.2 %*	*12 - 186*		B6L1067	12/29/2016	*12/29/16 19:01*	
Surrogate: 4-Bromofluorobenzene	*105 %*	*23 - 162*		B6L1067	12/29/2016	*12/29/16 19:01*	
Surrogate: Dibromofluoromethane	*94.8 %*	*23 - 179*		B6L1067	12/29/2016	*12/29/16 19:01*	
Surrogate: Toluene-d8	*104 %*	*26 - 164*		B6L1067	12/29/2016	*12/29/16 19:01*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Client Sample ID M-3-12.5

Lab ID: 1604882-03

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C8-C10	ND	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 21:48	
C10-C18	**1.4**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 21:48	
C18-C28	**3.0**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 21:48	
C28-C36	**3.1**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 21:48	
C36-C40	**2.3**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 21:48	
C8-C40 Total	**9.8**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 21:48	
Surrogate: p-Terphenyl	*54.1 %*		*18 - 130*		B7A0006	12/31/2016	*01/04/17 21:48*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,1,1-Trichloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,1,2-Trichloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,1-Dichloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,1-Dichloroethene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,1-Dichloropropene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,2,3-Trichloropropane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,2,3-Trichlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,2,4-Trichlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,2,4-Trimethylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,2-Dibromo-3-chloropropane	ND	10	1	B6L1067	12/29/2016	12/29/16 19:39	
1,2-Dibromoethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,2-Dichlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,2-Dichloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,2-Dichloropropane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,3,5-Trimethylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,3-Dichlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,3-Dichloropropane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
1,4-Dichlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
2,2-Dichloropropane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
2-Chlorotoluene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
4-Chlorotoluene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
4-Isopropyltoluene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Benzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Client Sample ID M-3-12.5

Lab ID: 1604882-03

Volatile Organic Compounds by EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Bromochloromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Bromodichloromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Bromoform	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Bromomethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Carbon disulfide	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Carbon tetrachloride	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Chlorobenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Chloroethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Chloroform	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Chloromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
cis-1,2-Dichloroethene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
cis-1,3-Dichloropropene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Di-isopropyl ether	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Dibromochloromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Dibromomethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Dichlorodifluoromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Ethyl Acetate	ND	50	1	B6L1067	12/29/2016	12/29/16 19:39	
Ethyl Ether	ND	50	1	B6L1067	12/29/2016	12/29/16 19:39	
Ethyl tert-butyl ether	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Ethylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Freon-113	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Hexachlorobutadiene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Isopropylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
m,p-Xylene	ND	10	1	B6L1067	12/29/2016	12/29/16 19:39	
Methylene chloride	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
MTBE	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
n-Butylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
n-Propylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Naphthalene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
o-Xylene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
sec-Butylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Styrene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
tert-Amyl methyl ether	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
tert-Butanol	ND	100	1	B6L1067	12/29/2016	12/29/16 19:39	
tert-Butylbenzene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Tetrachloroethene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Client Sample ID M-3-12.5

Lab ID: 1604882-03

Volatile Organic Compounds by EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
trans-1,2-Dichloroethene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
trans-1,3-Dichloropropene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Trichloroethene	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Trichlorofluoromethane	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Vinyl acetate	ND	50	1	B6L1067	12/29/2016	12/29/16 19:39	
Vinyl chloride	ND	5.0	1	B6L1067	12/29/2016	12/29/16 19:39	
Surrogate: 1,2-Dichloroethane-d4	*89.8 %*	*12 - 186*		B6L1067	12/29/2016	*12/29/16 19:39*	
Surrogate: 4-Bromofluorobenzene	*105 %*	*23 - 162*		B6L1067	12/29/2016	*12/29/16 19:39*	
Surrogate: Dibromofluoromethane	*92.4 %*	*23 - 179*		B6L1067	12/29/2016	*12/29/16 19:39*	
Surrogate: Toluene-d8	*105 %*	*26 - 164*		B6L1067	12/29/2016	*12/29/16 19:39*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

QUALITY CONTROL SECTION

Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0006 - GCSEMI_DRO_LL_S									
Blank (B7A0006-BLK1)					Prepared: 12/31/2016 Analyzed: 1/4/2017				
C8-C10	ND	1.0			NR				
C10-C18	ND	1.0			NR				
C18-C28	ND	1.0			NR				
C28-C36	ND	1.0			NR				
C36-C40	ND	1.0			NR				
C8-C40 Total	ND	1.0			NR				
Surrogate: p-Terphenyl	*2.291*		*2.66667*		*85.9*	*18 - 130*			
LCS (B7A0006-BS1)					Prepared: 12/31/2016 Analyzed: 1/4/2017				
DRO	26.3717	1.0	33.3333		79.1	34 - 120			
Surrogate: p-Terphenyl	*2.483*		*2.66667*		*93.1*	*18 - 130*			
Duplicate (B7A0006-DUP1)		**Source: 1604898-AD**			Prepared: 12/31/2016 Analyzed: 1/4/2017				
DRO	3.91800	1.0		3.80700	NR		2.87	20	
Surrogate: p-Terphenyl	*1.828*		*2.66667*		*68.5*	*18 - 130*			
Duplicate (B7A0006-DUP2)		**Source: 1604882-03**			Prepared: 12/31/2016 Analyzed: 1/4/2017				
DRO	7.27000	1.0		4.59800	NR		45.0	20	R
Surrogate: p-Terphenyl	*2.242*		*2.66667*		*84.1*	*18 - 130*			
Matrix Spike (B7A0006-MS1)		**Source: 1604882-03**			Prepared: 12/31/2016 Analyzed: 1/4/2017				
DRO	24.7073	1.0	33.3333	4.59800	60.3	12 - 132			
Surrogate: p-Terphenyl	*1.787*		*2.66667*		*67.0*	*18 - 130*			
Matrix Spike Dup (B7A0006-MSD1)		**Source: 1604882-03**			Prepared: 12/31/2016 Analyzed: 1/4/2017				
DRO	24.5153	1.0	33.3333	4.59800	59.8	12 - 132	0.780	20	
Surrogate: p-Terphenyl	*2.113*		*2.66667*		*79.2*	*18 - 130*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6L1067 - MSVOA_S									
Blank (B6L1067-BLK1)				Prepared: 12/29/2016 Analyzed: 12/29/2016					
1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	10			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromochloromethane	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon disulfide	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Di-isopropyl ether	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6L1067 - MSVOA_S (continued)									
Blank (B6L1067-BLK1) - Continued					Prepared: 12/29/2016 Analyzed: 12/29/2016				
Dichlorodifluoromethane	ND	5.0			NR				
Ethyl Acetate	ND	50			NR				
Ethyl Ether	ND	50			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Freon-113	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
MTBE	ND	5.0			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl acetate	ND	50			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*50.31*		*50.0000*		*101*	*12 - 186*			
Surrogate: 4-Bromofluorobenzene	*52.44*		*50.0000*		*105*	*23 - 162*			
Surrogate: Dibromofluoromethane	*47.89*		*50.0000*		*95.8*	*23 - 179*			
Surrogate: Toluene-d8	*52.20*		*50.0000*		*104*	*26 - 164*			
LCS (B6L1067-BS1)					Prepared: 12/29/2016 Analyzed: 12/29/2016				
1,1,1,2-Tetrachloroethane	51.3100	5.0	50.0000		103	78 - 119			
1,1,1-Trichloroethane	53.1100	5.0	50.0000		106	75 - 123			
1,1,2,2-Tetrachloroethane	46.0800	5.0	50.0000		92.2	65 - 117			
1,1,2-Trichloroethane	48.0400	5.0	50.0000		96.1	79 - 108			
1,1-Dichloroethane	52.4900	5.0	50.0000		105	69 - 120			
1,1-Dichloroethene	42.6900	5.0	50.0000		85.4	59 - 126			
1,1-Dichloropropene	50.5200	5.0	50.0000		101	76 - 121			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS-LAUSD, 603378.006
Report To : Julie Harriman
Reported : 01/05/2017

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6L1067 - MSVOA_S (continued)									
LCS (B6L1067-BS1) - Continued				Prepared: 12/29/2016 Analyzed: 12/29/2016					
1,2,3-Trichloropropane	43.4300	5.0	50.0000		86.9	66 - 118			
1,2,3-Trichlorobenzene	55.1000	5.0	50.0000		110	75 - 116			
1,2,4-Trichlorobenzene	58.8300	5.0	50.0000		118	79 - 121			
1,2,4-Trimethylbenzene	56.9600	5.0	50.0000		114	80 - 118			
1,2-Dibromo-3-chloropropane	50.9300	10	50.0000		102	65 - 122			
1,2-Dibromoethane	49.6700	5.0	50.0000		99.3	77 - 115			
1,2-Dichlorobenzene	51.8600	5.0	50.0000		104	81 - 115			
1,2-Dichloroethane	49.9200	5.0	50.0000		99.8	70 - 122			
1,2-Dichloropropane	49.1000	5.0	50.0000		98.2	77 - 110			
1,3,5-Trimethylbenzene	53.8400	5.0	50.0000		108	79 - 119			
1,3-Dichlorobenzene	49.3200	5.0	50.0000		98.6	81 - 116			
1,3-Dichloropropane	48.6900	5.0	50.0000		97.4	79 - 113			
1,4-Dichlorobenzene	53.3900	5.0	50.0000		107	80 - 117			
2,2-Dichloropropane	54.5300	5.0	50.0000		109	70 - 129			
2-Chlorotoluene	50.0800	5.0	50.0000		100	76 - 119			
4-Chlorotoluene	51.9900	5.0	50.0000		104	79 - 119			
4-Isopropyltoluene	57.4400	5.0	50.0000		115	80 - 122			
Benzene	98.4600	5.0	100.000		98.5	79 - 111			
Bromobenzene	44.4200	5.0	50.0000		88.8	77 - 114			
Bromochloromethane	47.0100	5.0	50.0000		94.0	69 - 117			
Bromodichloromethane	51.2000	5.0	50.0000		102	79 - 114			
Bromoform	50.4100	5.0	50.0000		101	72 - 122			
Bromomethane	103.800	5.0	50.0000		208	47 - 176			L5
Carbon disulfide	50.9400	5.0	50.0000		102	50 - 133			
Carbon tetrachloride	57.0900	5.0	50.0000		114	68 - 143			
Chlorobenzene	48.8100	5.0	50.0000		97.6	81 - 113			
Chloroethane	63.5600	5.0	50.0000		127	47 - 148			
Chloroform	49.2600	5.0	50.0000		98.5	77 - 116			
Chloromethane	45.9100	5.0	50.0000		91.8	39 - 141			
cis-1,2-Dichloroethene	49.9000	5.0	50.0000		99.8	68 - 120			
cis-1,3-Dichloropropene	53.9000	5.0	50.0000		108	74 - 113			
Di-isopropyl ether	52.0800	5.0	50.0000		104	62 - 124			
Dibromochloromethane	49.0100	5.0	50.0000		98.0	78 - 114			
Dibromomethane	47.7500	5.0	50.0000		95.5	74 - 112			
Dichlorodifluoromethane	58.3900	5.0	50.0000		117	49 - 138			
Ethyl Acetate	558.200	50	500.000		112	63 - 131			
Ethyl Ether	663.550	50	500.000		133	56 - 123			L5
Ethyl tert-butyl ether	61.3800	5.0	50.0000		123	68 - 121			L5
Ethylbenzene	93.6900	5.0	100.000		93.7	82 - 112			
Freon-113	46.2300	5.0	50.0000		92.5	65 - 133			
Hexachlorobutadiene	49.4000	5.0	50.0000		98.8	76 - 131			
Isopropylbenzene	54.2700	5.0	50.0000		109	77 - 122			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6L1067 - MSVOA_S (continued)									
LCS (B6L1067-BS1) - Continued					Prepared: 12/29/2016 Analyzed: 12/29/2016				
m,p-Xylene	100.180	10	100.000		100	80 - 116			
Methylene chloride	43.0000	5.0	50.0000		86.0	67 - 144			
MTBE	52.2900	5.0	50.0000		105	62 - 120			
n-Butylbenzene	60.2200	5.0	50.0000		120	78 - 134			
n-Propylbenzene	50.7600	5.0	50.0000		102	77 - 125			
Naphthalene	60.3900	5.0	50.0000		121	66 - 125			
o-Xylene	96.2700	5.0	100.000		96.3	80 - 113			
sec-Butylbenzene	55.5100	5.0	50.0000		111	79 - 124			
Styrene	52.6300	5.0	50.0000		105	82 - 117			
tert-Amyl methyl ether	53.3100	5.0	50.0000		107	62 - 118			
tert-Butanol	245.230	100	250.000		98.1	35 - 127			
tert-Butylbenzene	53.3700	5.0	50.0000		107	78 - 121			
Tetrachloroethene	46.8100	5.0	50.0000		93.6	75 - 124			
Toluene	99.7900	5.0	100.000		99.8	79 - 115			
trans-1,2-Dichloroethene	48.0800	5.0	50.0000		96.2	65 - 127			
trans-1,3-Dichloropropene	49.8800	5.0	50.0000		99.8	73 - 115			
Trichloroethene	49.2200	5.0	50.0000		98.4	77 - 119			
Trichlorofluoromethane	53.8400	5.0	50.0000		108	57 - 134			
Vinyl acetate	578.370	50	500.000		116	62 - 147			
Vinyl chloride	51.1600	5.0	50.0000		102	53 - 133			
Surrogate: 1,2-Dichloroethane-d4	*54.24*		*50.0000*		*108*	*12 - 186*			
Surrogate: 4-Bromofluorobenzene	*52.24*		*50.0000*		*104*	*23 - 162*			
Surrogate: Dibromofluoromethane	*49.30*		*50.0000*		*98.6*	*23 - 179*			
Surrogate: Toluene-d8	*52.49*		*50.0000*		*105*	*26 - 164*			
Duplicate (B6L1067-DUP1)			**Source: 1604882-02**		Prepared: 12/29/2016 Analyzed: 12/29/2016				
1,1,1,2-Tetrachloroethane	ND	5.0		ND	NR			20	
1,1,1-Trichloroethane	ND	5.0		ND	NR			20	
1,1,2,2-Tetrachloroethane	ND	5.0		ND	NR			20	
1,1,2-Trichloroethane	ND	5.0		ND	NR			20	
1,1-Dichloroethane	ND	5.0		ND	NR			20	
1,1-Dichloroethene	ND	5.0		ND	NR			20	
1,1-Dichloropropene	ND	5.0		ND	NR			20	
1,2,3-Trichloropropane	ND	5.0		ND	NR			20	
1,2,3-Trichlorobenzene	ND	5.0		ND	NR			20	
1,2,4-Trichlorobenzene	ND	5.0		ND	NR			20	
1,2,4-Trimethylbenzene	ND	5.0		ND	NR			20	
1,2-Dibromo-3-chloropropane	ND	10		ND	NR			20	
1,2-Dibromoethane	ND	5.0		ND	NR			20	
1,2-Dichlorobenzene	ND	5.0		ND	NR			20	
1,2-Dichloroethane	ND	5.0		ND	NR			20	

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6L1067 - MSVOA_S (continued)									
Duplicate (B6L1067-DUP1) - Continued		**Source: 1604882-02**		Prepared: 12/29/2016 Analyzed: 12/29/2016					
1,2-Dichloropropane	ND	5.0		ND	NR			20	
1,3,5-Trimethylbenzene	ND	5.0		ND	NR			20	
1,3-Dichlorobenzene	ND	5.0		ND	NR			20	
1,3-Dichloropropane	ND	5.0		ND	NR			20	
1,4-Dichlorobenzene	ND	5.0		ND	NR			20	
2,2-Dichloropropane	ND	5.0		ND	NR			20	
2-Chlorotoluene	ND	5.0		ND	NR			20	
4-Chlorotoluene	ND	5.0		ND	NR			20	
4-Isopropyltoluene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Bromobenzene	ND	5.0		ND	NR			20	
Bromochloromethane	ND	5.0		ND	NR			20	
Bromodichloromethane	ND	5.0		ND	NR			20	
Bromoform	ND	5.0		ND	NR			20	
Bromomethane	ND	5.0		ND	NR			20	
Carbon disulfide	ND	5.0		ND	NR			20	
Carbon tetrachloride	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
Chloroethane	ND	5.0		ND	NR			20	
Chloroform	ND	5.0		ND	NR			20	
Chloromethane	ND	5.0		ND	NR			20	
cis-1,2-Dichloroethene	ND	5.0		ND	NR			20	
cis-1,3-Dichloropropene	ND	5.0		ND	NR			20	
Di-isopropyl ether	ND	5.0		ND	NR			20	
Dibromochloromethane	ND	5.0		ND	NR			20	
Dibromomethane	ND	5.0		ND	NR			20	
Dichlorodifluoromethane	ND	5.0		ND	NR			20	
Ethyl Acetate	ND	50		ND	NR			20	
Ethyl Ether	ND	50		ND	NR			20	
Ethyl tert-butyl ether	ND	5.0		ND	NR			20	
Ethylbenzene	ND	5.0		ND	NR			20	
Freon-113	ND	5.0		ND	NR			20	
Hexachlorobutadiene	ND	5.0		ND	NR			20	
Isopropylbenzene	ND	5.0		ND	NR			20	
m,p-Xylene	ND	10		ND	NR			20	
Methylene chloride	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
n-Butylbenzene	ND	5.0		ND	NR			20	
n-Propylbenzene	ND	5.0		ND	NR			20	
Naphthalene	ND	5.0		ND	NR			20	
o-Xylene	ND	5.0		ND	NR			20	
sec-Butylbenzene	ND	5.0		ND	NR			20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6L1067 - MSVOA_S (continued)									
Duplicate (B6L1067-DUP1) - Continued		**Source: 1604882-02**		Prepared: 12/29/2016 Analyzed: 12/29/2016					
Styrene	ND	5.0		ND	NR			20	
tert-Amyl methyl ether	ND	5.0		ND	NR			20	
tert-Butanol	ND	100		ND	NR			20	
tert-Butylbenzene	ND	5.0		ND	NR			20	
Tetrachloroethene	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
trans-1,2-Dichloroethene	ND	5.0		ND	NR			20	
trans-1,3-Dichloropropene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
Trichlorofluoromethane	ND	5.0		ND	NR			20	
Vinyl acetate	ND	50		ND	NR			20	
Vinyl chloride	ND	5.0		ND	NR			20	
Surrogate: 1,2-Dichloroethane-d4	*46.47*		*50.0000*		*92.9*	*12 - 186*			
Surrogate: 4-Bromofluorobenzene	*54.31*		*50.0000*		*109*	*23 - 162*			
Surrogate: Dibromofluoromethane	*48.31*		*50.0000*		*96.6*	*23 - 179*			
Surrogate: Toluene-d8	*52.58*		*50.0000*		*105*	*26 - 164*			
Matrix Spike (B6L1067-MS1)		**Source: 1604882-02**		Prepared: 12/29/2016 Analyzed: 12/29/2016					
1,1,1,2-Tetrachloroethane	42.6400	5.0	50.0000	ND	85.3	45 - 124			
1,1,1-Trichloroethane	52.3100	5.0	50.0000	ND	105	53 - 125			
1,1,2,2-Tetrachloroethane	38.4100	5.0	50.0000	ND	76.8	42 - 117			
1,1,2-Trichloroethane	40.1800	5.0	50.0000	ND	80.4	48 - 120			
1,1-Dichloroethane	52.4800	5.0	50.0000	ND	105	54 - 116			
1,1-Dichloroethene	54.3400	5.0	50.0000	ND	109	47 - 123			
1,1-Dichloropropene	48.1000	5.0	50.0000	ND	96.2	48 - 126			
1,2,3-Trichloropropane	35.7000	5.0	50.0000	ND	71.4	46 - 118			
1,2,3-Trichlorobenzene	20.2500	5.0	50.0000	ND	40.5	1 - 132			
1,2,4-Trichlorobenzene	25.4100	5.0	50.0000	ND	50.8	2 - 138			
1,2,4-Trimethylbenzene	37.6600	5.0	50.0000	ND	75.3	32 - 129			
1,2-Dibromo-3-chloropropane	36.9700	10	50.0000	ND	73.9	34 - 130			
1,2-Dibromoethane	43.7300	5.0	50.0000	ND	87.5	45 - 125			
1,2-Dichlorobenzene	29.7500	5.0	50.0000	ND	59.5	25 - 130			
1,2-Dichloroethane	46.7900	5.0	50.0000	ND	93.6	51 - 119			
1,2-Dichloropropane	44.9100	5.0	50.0000	ND	89.8	54 - 113			
1,3,5-Trimethylbenzene	36.1200	5.0	50.0000	ND	72.2	34 - 128			
1,3-Dichlorobenzene	30.3900	5.0	50.0000	ND	60.8	26 - 130			
1,3-Dichloropropane	42.7000	5.0	50.0000	ND	85.4	53 - 117			
1,4-Dichlorobenzene	31.2400	5.0	50.0000	ND	62.5	26 - 130			
2,2-Dichloropropane	55.3400	5.0	50.0000	ND	111	52 - 128			
2-Chlorotoluene	34.1200	5.0	50.0000	ND	68.2	34 - 126			
4-Chlorotoluene	34.3800	5.0	50.0000	ND	68.8	32 - 128			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6L1067 - MSVOA_S (continued)									
Matrix Spike (B6L1067-MS1) - Continued		**Source: 1604882-02**		Prepared: 12/29/2016 Analyzed: 12/29/2016					
4-Isopropyltoluene	32.1100	5.0	50.0000	ND	64.2	28 - 133			
Benzene	93.4600	5.0	100.000	ND	93.5	55 - 113			
Bromobenzene	31.8000	5.0	50.0000	ND	63.6	36 - 122			
Bromochloromethane	42.3100	5.0	50.0000	ND	84.6	50 - 118			
Bromodichloromethane	45.1200	5.0	50.0000	ND	90.2	51 - 117			
Bromoform	40.5100	5.0	50.0000	ND	81.0	39 - 130			
Bromomethane	107.280	5.0	50.0000	ND	215	38 - 151			M1
Carbon disulfide	54.2000	5.0	50.0000	ND	108	38 - 126			
Carbon tetrachloride	54.1900	5.0	50.0000	ND	108	43 - 141			
Chlorobenzene	38.5500	5.0	50.0000	ND	77.1	42 - 122			
Chloroethane	70.8900	5.0	50.0000	ND	142	42 - 129			M1
Chloroform	46.5700	5.0	50.0000	ND	93.1	56 - 117			
Chloromethane	50.4200	5.0	50.0000	ND	101	35 - 127			
cis-1,2-Dichloroethene	47.3700	5.0	50.0000	ND	94.7	50 - 118			
cis-1,3-Dichloropropene	47.0500	5.0	50.0000	ND	94.1	45 - 118			
Di-isopropyl ether	48.4900	5.0	50.0000	ND	97.0	51 - 119			
Dibromochloromethane	41.7300	5.0	50.0000	ND	83.5	47 - 120			
Dibromomethane	41.8400	5.0	50.0000	ND	83.7	48 - 118			
Dichlorodifluoromethane	68.1200	5.0	50.0000	ND	136	43 - 126			M1
Ethyl Acetate	498.910	50	500.000	ND	99.8	22 - 145			
Ethyl Ether	606.800	50	500.000	ND	121	49 - 114			M1
Ethyl tert-butyl ether	56.2300	5.0	50.0000	ND	112	54 - 120			
Ethylbenzene	75.8900	5.0	100.000	ND	75.9	42 - 123			
Freon-113	51.3100	5.0	50.0000	ND	103	45 - 132			
Hexachlorobutadiene	19.2300	5.0	50.0000	ND	38.5	4 - 135			
Isopropylbenzene	39.5400	5.0	50.0000	ND	79.1	40 - 127			
m,p-Xylene	78.9100	10	100.000	ND	78.9	39 - 127			
Methylene chloride	41.7600	5.0	50.0000	ND	83.5	51 - 140			
MTBE	47.1400	5.0	50.0000	ND	94.3	52 - 120			
n-Butylbenzene	31.0900	5.0	50.0000	ND	62.2	19 - 141			
n-Propylbenzene	34.4700	5.0	50.0000	ND	68.9	34 - 131			
Naphthalene	30.9700	5.0	50.0000	ND	61.9	11 - 136			
o-Xylene	76.2500	5.0	100.000	ND	76.2	40 - 124			
sec-Butylbenzene	32.3000	5.0	50.0000	ND	64.6	29 - 132			
Styrene	40.6300	5.0	50.0000	ND	81.3	36 - 130			
tert-Amyl methyl ether	47.7800	5.0	50.0000	ND	95.6	49 - 119			
tert-Butanol	235.460	100	250.000	ND	94.2	29 - 138			
tert-Butylbenzene	34.2000	5.0	50.0000	ND	68.4	34 - 129			
Tetrachloroethene	36.6800	5.0	50.0000	ND	73.4	37 - 132			
Toluene	88.0300	5.0	100.000	ND	88.0	48 - 122			
trans-1,2-Dichloroethene	48.7500	5.0	50.0000	ND	97.5	51 - 123			
trans-1,3-Dichloropropene	42.0400	5.0	50.0000	ND	84.1	38 - 125			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS-LAUSD, 603378.006
Report To : Julie Harriman
Reported : 01/05/2017

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6L1067 - MSVOA_S (continued)									
Matrix Spike (B6L1067-MS1) - Continued		**Source: 1604882-02**		Prepared: 12/29/2016 Analyzed: 12/29/2016					
Trichloroethene	45.0600	5.0	50.0000	ND	90.1	41 - 136			
Trichlorofluoromethane	58.0100	5.0	50.0000	ND	116	44 - 126			
Vinyl acetate	526.140	50	500.000	ND	105	0 - 154			
Vinyl chloride	58.7700	5.0	50.0000	ND	118	47 - 122			
Surrogate: 1,2-Dichloroethane-d4	*55.91*		*50.0000*		*112*	*12 - 186*			
Surrogate: 4-Bromofluorobenzene	*53.96*		*50.0000*		*108*	*23 - 162*			
Surrogate: Dibromofluoromethane	*51.57*		*50.0000*		*103*	*23 - 179*			
Surrogate: Toluene-d8	*53.36*		*50.0000*		*107*	*26 - 164*			
Matrix Spike Dup (B6L1067-MSD1)		**Source: 1604882-02**		Prepared: 12/29/2016 Analyzed: 12/29/2016					
1,1,1,2-Tetrachloroethane	30.2500	5.0	50.0000	ND	60.5	45 - 124	34.0	20	R
1,1,1-Trichloroethane	39.3900	5.0	50.0000	ND	78.8	53 - 125	28.2	20	R
1,1,2,2-Tetrachloroethane	31.5200	5.0	50.0000	ND	63.0	42 - 117	19.7	20	
1,1,2-Trichloroethane	36.0900	5.0	50.0000	ND	72.2	48 - 120	10.7	20	
1,1-Dichloroethane	44.6800	5.0	50.0000	ND	89.4	54 - 116	16.1	20	
1,1-Dichloroethene	35.6300	5.0	50.0000	ND	71.3	47 - 123	41.6	20	R
1,1-Dichloropropene	33.8900	5.0	50.0000	ND	67.8	48 - 126	34.7	20	R
1,2,3-Trichloropropane	29.5200	5.0	50.0000	ND	59.0	46 - 118	19.0	20	
1,2,3-Trichlorobenzene	5.14000	5.0	50.0000	ND	10.3	1 - 132	119	20	R
1,2,4-Trichlorobenzene	8.41000	5.0	50.0000	ND	16.8	2 - 138	101	20	R
1,2,4-Trimethylbenzene	18.4400	5.0	50.0000	ND	36.9	32 - 129	68.5	20	R
1,2-Dibromo-3-chloropropane	26.6500	10	50.0000	ND	53.3	34 - 130	32.4	20	R
1,2-Dibromoethane	36.2400	5.0	50.0000	ND	72.5	45 - 125	18.7	20	
1,2-Dichlorobenzene	12.2600	5.0	50.0000	ND	24.5	25 - 130	83.3	20	M1, R
1,2-Dichloroethane	42.8500	5.0	50.0000	ND	85.7	51 - 119	8.79	20	
1,2-Dichloropropane	38.0200	5.0	50.0000	ND	76.0	54 - 113	16.6	20	
1,3,5-Trimethylbenzene	17.6100	5.0	50.0000	ND	35.2	34 - 128	68.9	20	R
1,3-Dichlorobenzene	15.0700	5.0	50.0000	ND	30.1	26 - 130	67.4	20	R
1,3-Dichloropropane	35.9600	5.0	50.0000	ND	71.9	53 - 117	17.1	20	
1,4-Dichlorobenzene	14.1100	5.0	50.0000	ND	28.2	26 - 130	75.5	20	R
2,2-Dichloropropane	44.3500	5.0	50.0000	ND	88.7	52 - 128	22.0	20	R
2-Chlorotoluene	18.0900	5.0	50.0000	ND	36.2	34 - 126	61.4	20	R
4-Chlorotoluene	18.4800	5.0	50.0000	ND	37.0	32 - 128	60.2	20	R
4-Isopropyltoluene	9.30000	5.0	50.0000	ND	18.6	28 - 133	110	20	M1, R
Benzene	76.2300	5.0	100.000	ND	76.2	55 - 113	20.3	20	R
Bromobenzene	20.1800	5.0	50.0000	ND	40.4	36 - 122	44.7	20	R
Bromochloromethane	38.2400	5.0	50.0000	ND	76.5	50 - 118	10.1	20	
Bromodichloromethane	37.8700	5.0	50.0000	ND	75.7	51 - 117	17.5	20	
Bromoform	31.4300	5.0	50.0000	ND	62.9	39 - 130	25.2	20	R
Bromomethane	94.1300	5.0	50.0000	ND	188	38 - 151	13.1	20	M1
Carbon disulfide	38.7200	5.0	50.0000	ND	77.4	38 - 126	33.3	20	R

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS-LAUSD, 603378.006
Report To : Julie Harriman
Reported : 01/05/2017

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6L1067 - MSVOA_S (continued)									
Matrix Spike Dup (B6L1067-MSD1) - Continued		**Source: 1604882-02**		Prepared: 12/29/2016 Analyzed: 12/29/2016					
Carbon tetrachloride	37.9500	5.0	50.0000	ND	75.9	43 - 141	35.3	20	R
Chlorobenzene	25.7800	5.0	50.0000	ND	51.6	42 - 122	39.7	20	R
Chloroethane	62.8200	5.0	50.0000	ND	126	42 - 129	12.1	20	
Chloroform	39.2500	5.0	50.0000	ND	78.5	56 - 117	17.1	20	
Chloromethane	44.1100	5.0	50.0000	ND	88.2	35 - 127	13.4	20	
cis-1,2-Dichloroethene	39.9200	5.0	50.0000	ND	79.8	50 - 118	17.1	20	
cis-1,3-Dichloropropene	41.1400	5.0	50.0000	ND	82.3	45 - 118	13.4	20	
Di-isopropyl ether	44.5600	5.0	50.0000	ND	89.1	51 - 119	8.45	20	
Dibromochloromethane	33.0600	5.0	50.0000	ND	66.1	47 - 120	23.2	20	R
Dibromomethane	37.6900	5.0	50.0000	ND	75.4	48 - 118	10.4	20	
Dichlorodifluoromethane	55.7600	5.0	50.0000	ND	112	43 - 126	20.0	20	
Ethyl Acetate	487.330	50	500.000	ND	97.5	22 - 145	2.35	20	
Ethyl Ether	576.900	50	500.000	ND	115	49 - 114	5.05	20	M1
Ethyl tert-butyl ether	52.8200	5.0	50.0000	ND	106	54 - 120	6.25	20	
Ethylbenzene	46.1100	5.0	100.000	ND	46.1	42 - 123	48.8	20	R
Freon-113	27.9800	5.0	50.0000	ND	56.0	45 - 132	58.8	20	R
Hexachlorobutadiene	5.41000	5.0	50.0000	ND	10.8	4 - 135	112	20	R
Isopropylbenzene	20.3400	5.0	50.0000	ND	40.7	40 - 127	64.1	20	R
m,p-Xylene	46.7700	10	100.000	ND	46.8	39 - 127	51.1	20	R
Methylene chloride	36.6900	5.0	50.0000	ND	73.4	51 - 140	12.9	20	
MTBE	45.4500	5.0	50.0000	ND	90.9	52 - 120	3.65	20	
n-Butylbenzene	6.75000	5.0	50.0000	ND	13.5	19 - 141	129	20	M1, R
n-Propylbenzene	16.7600	5.0	50.0000	ND	33.5	34 - 131	69.1	20	M1, R
Naphthalene	14.0500	5.0	50.0000	ND	28.1	11 - 136	75.2	20	R
o-Xylene	47.0900	5.0	100.000	ND	47.1	40 - 124	47.3	20	R
sec-Butylbenzene	10.3800	5.0	50.0000	ND	20.8	29 - 132	103	20	M1, R
Styrene	25.3400	5.0	50.0000	ND	50.7	36 - 130	46.4	20	R
tert-Amyl methyl ether	44.2800	5.0	50.0000	ND	88.6	49 - 119	7.60	20	
tert-Butanol	242.420	100	250.000	ND	97.0	29 - 138	2.91	20	
tert-Butylbenzene	14.2000	5.0	50.0000	ND	28.4	34 - 129	82.6	20	M1, R
Tetrachloroethene	20.6100	5.0	50.0000	ND	41.2	37 - 132	56.1	20	R
Toluene	63.9300	5.0	100.000	ND	63.9	48 - 122	31.7	20	R
trans-1,2-Dichloroethene	40.9300	5.0	50.0000	ND	81.9	51 - 123	17.4	20	
trans-1,3-Dichloropropene	35.0800	5.0	50.0000	ND	70.2	38 - 125	18.0	20	
Trichloroethene	32.0300	5.0	50.0000	ND	64.1	41 - 136	33.8	20	R
Trichlorofluoromethane	45.0800	5.0	50.0000	ND	90.2	44 - 126	25.1	20	R
Vinyl acetate	446.510	50	500.000	ND	89.3	0 - 154	16.4	20	
Vinyl chloride	52.2500	5.0	50.0000	ND	104	47 - 122	11.7	20	
Surrogate: 1,2-Dichloroethane-d4	*55.40*		*50.0000*		*111*	*12 - 186*			
Surrogate: 4-Bromofluorobenzene	*51.78*		*50.0000*		*104*	*23 - 162*			
Surrogate: Dibromofluoromethane	*49.93*		*50.0000*		*99.9*	*23 - 179*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6L1067 - MSVOA_S (continued)									
Matrix Spike Dup (B6L1067-MSD1) - Continued			**Source: 1604882-02**		Prepared: 12/29/2016 Analyzed: 12/29/2016				
Surrogate: Toluene-d8	*51.31*		*50.0000*		*103*	*26 - 164*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Notes and Definitions

S4	Surrogate was diluted out.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L5	Laboratory Control Sample high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☑	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	—	
☐ Other: _____	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc (LCI)
Address: 17781 Cowan
City: Irvine State: CA Zip: 92868
Tel: (949) 253-9836 Fax: (949) 250-1114

SEND REPORT TO:
Attn: Julie Harriman Email: jharriman@leightongroup.com
Company: LCI
Address: Same as Above
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounting/Accounts Payable Email: accpayable@leightongroup.com
Company: LCI
Address: Same as Above.
City: State: Zip:

PROJECT SAMPLES

Project Name: Burroughs MS - LAUSD
Project No.: 603378.0006
Sampler: RAL
Quote No:
PO #: 603378.0006
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	TPH-CC							HOLD	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	QA/QC	REMARKS
1		M-3-6.0	12/23/16	1320																X	X					5	1	1	2		
2		M-3-10.0		1325									X																		
3		M-3-12.5		1330									X																		
4		M-16-5.0		1410																X											
5		M-16-12.0		1415																X											
6		M-16-14.5	↓	1420																X	↓					↓	↓	↓	↓		
7																															
8																															
9																															
10																															

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TAT

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Robert Lovdahl — Submitter Print Name
Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Robert Lovdahl	12/23/16	1650	FedEx	12/23/16	1650
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, December 23, 2016 5:25 PM
To: Carmen Aguila
Subject: Fwd: BMS COC
Attachments: BMS COC 12.23.16.pdf

For this COC. Add VOCS for the 2 samples.
Thanks,
Julie

Sent from my Verizon 4G LTE smartphone

-------- Original message --------
From: Robert Lovdahl <rLovdahl@leightongroup.com>
Date: 12/23/16 5:24 PM (GMT-08:00)
To: Julie Harriman <jharriman@leightongroup.com>
Subject: BMS COC

Robert Lovdahl, PG

Project Geologist - Leighton

Cell – (949) 307-0527

Office – (949) 681-4282

ADVANCED TECHNOLOGY LABORATORIES

January 09, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1604898
Client Reference : LAUSD-Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on December 28, 2016 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB10-1-0.5	1604898-01	Soil	12/28/16 9:10	12/28/16 17:00
FB10-1-1.5	1604898-02	Soil	12/28/16 9:13	12/28/16 17:00
FB10-1-2.5	1604898-03	Soil	12/28/16 9:15	12/28/16 17:00
FB10-2-0.5	1604898-04	Soil	12/28/16 8:50	12/28/16 17:00
FB10-2-1.5	1604898-05	Soil	12/28/16 8:55	12/28/16 17:00
FB10-2-2.5	1604898-06	Soil	12/28/16 9:00	12/28/16 17:00
FB10-3-0.5	1604898-07	Soil	12/28/16 8:22	12/28/16 17:00
FB10-3-1.5	1604898-08	Soil	12/28/16 8:24	12/28/16 17:00
FB10-3-2.5	1604898-09	Soil	12/28/16 8:25	12/28/16 17:00
FB10-4-0.5	1604898-10	Soil	12/28/16 8:15	12/28/16 17:00
FB10-4-1.5	1604898-11	Soil	12/28/16 8:18	12/28/16 17:00
FB10-4-2.5	1604898-12	Soil	12/28/16 9:25	12/28/16 17:00
FB16-1-0.5	1604898-13	Soil	12/28/16 7:45	12/28/16 17:00
FB16-1-1.5	1604898-14	Soil	12/28/16 7:50	12/28/16 17:00
FB16-1-2.5	1604898-15	Soil	12/28/16 7:54	12/28/16 17:00
FB16-2-0.5	1604898-16	Soil	12/28/16 7:51	12/28/16 17:00
FB16-2-1.5	1604898-17	Soil	12/28/16 7:54	12/28/16 17:00
FB16-2-2.5	1604898-18	Soil	12/28/16 7:56	12/28/16 17:00
FB16-3-0.5	1604898-19	Soil	12/28/16 8:02	12/28/16 17:00
FB16-3-1.5	1604898-20	Soil	12/28/16 8:05	12/28/16 17:00
FB16-3-2.5	1604898-21	Soil	12/28/16 8:08	12/28/16 17:00
FB16-4-0.5	1604898-22	Soil	12/28/16 7:45	12/28/16 17:00
FB16-4-1.5	1604898-23	Soil	12/28/16 7:50	12/28/16 17:00
FB16-4-2.5	1604898-24	Soil	12/28/16 7:54	12/28/16 17:00
FB11-1-0.5	1604898-25	Soil	12/28/16 11:45	12/28/16 17:00
FB11-1-1.5	1604898-26	Soil	12/28/16 11:50	12/28/16 17:00
FB11-1-2.5	1604898-27	Soil	12/28/16 11:55	12/28/16 17:00
FB11-2-0.5	1604898-28	Soil	12/28/16 11:10	12/28/16 17:00
FB11-2-1.5	1604898-29	Soil	12/28/16 11:15	12/28/16 17:00
FB11-2-2.5	1604898-30	Soil	12/28/16 11:20	12/28/16 17:00
FB11-3-0.5	1604898-31	Soil	12/28/16 11:47	12/28/16 17:00
FB11-3-1.5	1604898-32	Soil	12/28/16 11:52	12/28/16 17:00
FB11-3-2.5	1604898-33	Soil	12/28/16 11:57	12/28/16 17:00
FB11-4-0.5	1604898-34	Soil	12/28/16 11:17	12/28/16 17:00
FB11-4-1.5	1604898-35	Soil	12/28/16 11:22	12/28/16 17:00
FB11-4-2.5	1604898-36	Soil	12/28/16 11:25	12/28/16 17:00
FB12-1-0.5	1604898-37	Soil	12/28/16 10:49	12/28/16 17:00

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

FB12-1-1.5	1604898-38	Soil	12/28/16 10:53	12/28/16 17:00
FB12-1-2.5	1604898-39	Soil	12/28/16 10:55	12/28/16 17:00
FB13-1-0.5	1604898-40	Soil	12/28/16 10:50	12/28/16 17:00
FB13-1-1.5	1604898-41	Soil	12/28/16 10:54	12/28/16 17:00
FB13-1-2.5	1604898-42	Soil	12/28/16 10:56	12/28/16 17:00
FB14-1-0.5	1604898-43	Soil	12/28/16 10:30	12/28/16 17:00
FB14-1-1.5	1604898-44	Soil	12/28/16 10:36	12/28/16 17:00
FB14-1-2.5	1604898-45	Soil	12/28/16 10:40	12/28/16 17:00
FB14-2-0.5	1604898-46	Soil	12/28/16 10:00	12/28/16 17:00
FB14-2-1.5	1604898-47	Soil	12/28/16 10:10	12/28/16 17:00
FB14-2-2.5	1604898-48	Soil	12/28/16 10:20	12/28/16 17:00
FB14-3-0.5	1604898-49	Soil	12/28/16 9:50	12/28/16 17:00
FB14-3-1.5	1604898-50	Soil	12/28/16 9:53	12/28/16 17:00
FB14-3-2.5	1604898-51	Soil	12/28/16 9:55	12/28/16 17:00
FB14-4-0.5	1604898-52	Soil	12/28/16 9:52	12/28/16 17:00
FB14-4-1.5	1604898-53	Soil	12/28/16 9:54	12/28/16 17:00
FB14-4-2.5	1604898-54	Soil	12/28/16 9:56	12/28/16 17:00
FB14-5-0.5	1604898-55	Soil	12/28/16 10:10	12/28/16 17:00
FB14-5-1.5	1604898-56	Soil	12/28/16 10:15	12/28/16 17:00
FB14-5-2.5	1604898-57	Soil	12/28/16 10:20	12/28/16 17:00
FB14-6-0.5	1604898-58	Soil	12/28/16 10:32	12/28/16 17:00
FB14-6-1.5	1604898-59	Soil	12/28/16 10:35	12/28/16 17:00
FB14-6-2.5	1604898-60	Soil	12/28/16 10:38	12/28/16 17:00
EB11-1-0.5	1604898-61	Soil	12/28/16 14:15	12/28/16 17:00
EB11-1-1.5	1604898-62	Soil	12/28/16 14:20	12/28/16 17:00
EB11-2-0.5	1604898-64	Soil	12/28/16 14:12	12/28/16 17:00
EB11-2-1.5	1604898-65	Soil	12/28/16 14:18	12/28/16 17:00
EB12-1-0.5	1604898-67	Soil	12/28/16 14:00	12/28/16 17:00
EB12-1-1.5	1604898-68	Soil	12/28/16 14:05	12/28/16 17:00
EB12-2-0.5	1604898-70	Soil	12/28/16 14:02	12/28/16 17:00
EB12-2-1.5	1604898-71	Soil	12/28/16 14:07	12/28/16 17:00
EB9-1-0.5	1604898-73	Soil	12/28/16 13:07	12/28/16 17:00
EB9-1-1.5	1604898-74	Soil	12/28/16 13:12	12/28/16 17:00
EB9-5-0.5	1604898-76	Soil	12/28/16 14:05	12/28/16 17:00
EB9-5-1.5	1604898-77	Soil	12/28/16 14:10	12/28/16 17:00
EB9-7-0.5	1604898-79	Soil	12/28/16 13:05	12/28/16 17:00
EB9-7-1.5	1604898-80	Soil	12/28/16 13:10	12/28/16 17:00
EB9-7-2.5	1604898-81	Soil	12/28/16 13:15	12/28/16 17:00
EB10-2-0.5	1604898-82	Soil	12/28/16 14:25	12/28/16 17:00
FB5-1-0.5	1604898-83	Soil	12/28/16 14:35	12/28/16 17:00
FB5-1-1.5	1604898-84	Soil	12/28/16 14:40	12/28/16 17:00

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

FB5-1-2.5	1604898-85	Soil	12/28/16 14:47	12/28/16 17:00
FB5-2-0.5	1604898-86	Soil	12/28/16 14:32	12/28/16 17:00
FB5-2-1.5	1604898-87	Soil	12/28/16 14:37	12/28/16 17:00
FB5-2-2.5	1604898-88	Soil	12/28/16 14:40	12/28/16 17:00
EB13-1-0.5	1604898-89	Soil	12/28/16 13:25	12/28/16 17:00
EB13-1-1.5	1604898-90	Soil	12/28/16 13:30	12/28/16 17:00
EB13-2-0.5	1604898-92	Soil	12/28/16 13:26	12/28/16 17:00
EB13-2-1.5	1604898-93	Soil	12/28/16 13:31	12/28/16 17:00
EB15-1-0.5	1604898-95	Soil	12/28/16 13:40	12/28/16 17:00
EB15-1-1.5	1604898-96	Soil	12/28/16 13:45	12/28/16 17:00
EB15-2-0.5	1604898-98	Soil	12/28/16 13:50	12/28/16 17:00
EB15-2-1.5	1604898-99	Soil	12/28/16 13:55	12/28/16 17:00
EB1-1-1.0'	1604898-AB	Soil	12/28/16 15:30	12/28/16 17:00
EB1-1-5.0'	1604898-AC	Soil	12/28/16 15:40	12/28/16 17:00
EB1-1-10.0'	1604898-AD	Soil	12/28/16 16:03	12/28/16 17:00
EQB122816	1604898-AE	Water	12/28/16 15:30	12/28/16 17:00

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-1-0.5
Lab ID: 1604898-01

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:38	
Lead	**17**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:38	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 09:41	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 09:41	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 09:41	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 09:41	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 09:41	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 09:41	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 09:41	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 09:41	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 09:41	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 09:41	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 09:41	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 09:41	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 09:41	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 09:41	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 09:41	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 09:41	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 09:41	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 09:41	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 09:41	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 09:41	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 09:41	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 09:41	
Surrogate: Decachlorobiphenyl	*45.0 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 09:41*	
Surrogate: Tetrachloro-m-xylene	*45.7 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 09:41*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-1-0.5

Lab ID: 1604898-01

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:37	
Aroclor 1221	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:37	
Aroclor 1232	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:37	
Aroclor 1242	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:37	
Aroclor 1248	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:37	
Aroclor 1254	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:37	
Aroclor 1260	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:37	
Aroclor 1262	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:37	
Aroclor 1268	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:37	
Surrogate: Decachlorobiphenyl	*67.6 %*		*26 - 137*		B7A0091	01/04/2017	*01/05/17 09:37*	
Surrogate: Tetrachloro-m-xylene	*93.7 %*		*28 - 102*		B7A0091	01/04/2017	*01/05/17 09:37*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-1-1.5

Lab ID: 1604898-02

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:43	
Lead	**8.8**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:43	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 09:51	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 09:51	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 09:51	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 09:51	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 09:51	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 09:51	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 09:51	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 09:51	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 09:51	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 09:51	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 09:51	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 09:51	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 09:51	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 09:51	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 09:51	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 09:51	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 09:51	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 09:51	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 09:51	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 09:51	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 09:51	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 09:51	
Surrogate: Decachlorobiphenyl	*34.0 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 09:51*	
Surrogate: Tetrachloro-m-xylene	*33.8 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 09:51*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-1-2.5
Lab ID: 1604898-03

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:44	
Lead	**8.0**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:44	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 10:01	D1
4,4´-DDE	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 10:01	D1
4,4´-DDT	ND	20	1.3	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Aldrin	ND	10	2.7	10	B7A0091	01/04/2017	01/05/17 10:01	D1
alpha-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 10:01	D1
alpha-Chlordane	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 10:01	D1
beta-BHC	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Chlordane	ND	85	9.0	10	B7A0091	01/04/2017	01/05/17 10:01	D1
delta-BHC	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Dieldrin	ND	20	2.5	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Endosulfan I	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Endosulfan II	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Endrin	ND	20	2.3	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Endrin aldehyde	ND	20	2.8	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Endrin ketone	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 10:01	D1
gamma-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 10:01	D1
gamma-Chlordane	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Heptachlor	ND	10	1.9	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Methoxychlor	ND	50	1.8	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Toxaphene	ND	500	82	10	B7A0091	01/04/2017	01/05/17 10:01	D1
Surrogate: Decachlorobiphenyl	*46.7 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 10:01*	
Surrogate: Tetrachloro-m-xylene	*29.9 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 10:01*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-2-0.5

Lab ID: 1604898-04

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:45	
Lead	**6.8**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:45	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 10:12	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:12	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 10:12	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 10:12	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:12	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:12	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:12	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 10:12	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:12	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 10:12	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:12	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 10:12	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:12	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:12	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 10:12	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:12	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:12	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:12	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 10:12	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:12	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 10:12	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 10:12	
Surrogate: Decachlorobiphenyl	*38.0 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 10:12*	
Surrogate: Tetrachloro-m-xylene	*43.1 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 10:12*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-2-1.5
Lab ID: 1604898-05

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.7**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:46	
Lead	**3.8**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:46	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 10:22	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:22	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 10:22	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 10:22	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:22	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:22	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:22	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 10:22	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:22	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 10:22	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:22	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 10:22	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:22	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:22	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 10:22	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:22	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:22	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:22	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 10:22	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:22	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 10:22	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 10:22	
Surrogate: Decachlorobiphenyl	*36.4 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 10:22*	
Surrogate: Tetrachloro-m-xylene	*42.1 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 10:22*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-2-2.5
Lab ID: 1604898-06

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:50	
Lead	**4.3**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:50	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 10:33	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:33	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 10:33	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 10:33	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:33	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:33	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:33	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 10:33	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:33	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 10:33	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:33	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 10:33	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:33	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:33	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 10:33	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:33	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:33	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:33	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 10:33	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:33	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 10:33	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 10:33	
Surrogate: Decachlorobiphenyl	*41.9 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 10:33*	
Surrogate: Tetrachloro-m-xylene	*45.9 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 10:33*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-3-0.5

Lab ID: 1604898-07

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:51	
Lead	**9.1**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:51	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 10:43	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:43	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 10:43	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 10:43	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:43	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:43	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:43	
Chlordane	**2.3**	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 10:43	J
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:43	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 10:43	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:43	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 10:43	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:43	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:43	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 10:43	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:43	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:43	
gamma-Chlordane [2C]	**0.24**	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:43	J
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 10:43	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:43	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 10:43	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 10:43	
Surrogate: Decachlorobiphenyl	*23.0 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 10:43*	S2
Surrogate: Tetrachloro-m-xylene	*27.8 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 10:43*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-3-1.5

Lab ID: 1604898-08

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:52	
Lead	**4.3**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:52	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 10:54	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:54	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 10:54	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 10:54	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:54	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:54	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:54	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 10:54	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:54	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 10:54	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:54	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 10:54	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 10:54	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:54	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 10:54	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:54	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:54	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 10:54	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 10:54	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 10:54	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 10:54	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 10:54	
Surrogate: Decachlorobiphenyl	*43.8 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 10:54*	
Surrogate: Tetrachloro-m-xylene	*46.7 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 10:54*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-3-2.5
Lab ID: 1604898-09

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:53	
Lead	**15**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:53	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 11:04	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:04	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 11:04	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 11:04	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:04	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:04	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:04	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 11:04	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:04	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 11:04	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:04	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 11:04	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:04	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:04	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 11:04	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:04	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:04	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:04	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 11:04	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:04	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 11:04	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 11:04	
Surrogate: Decachlorobiphenyl	*36.9 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 11:04*	
Surrogate: Tetrachloro-m-xylene	*44.7 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 11:04*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-4-0.5
Lab ID: 1604898-10

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:54	
Lead	**28**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:54	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 11:15	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:15	
4,4´-DDT	**0.23**	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 11:15	J
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 11:15	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:15	
alpha-Chlordane	**0.24**	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:15	J
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:15	
Chlordane	**2.7**	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 11:15	J
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:15	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 11:15	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:15	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 11:15	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:15	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:15	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 11:15	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:15	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:15	
gamma-Chlordane [2C]	**0.27**	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:15	J
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 11:15	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:15	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 11:15	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 11:15	
Surrogate: Decachlorobiphenyl	*15.8 %*	*27 - 123*			B7A0091	01/04/2017	*01/05/17 11:15*	S2
Surrogate: Tetrachloro-m-xylene	*19.2 %*	*26 - 108*			B7A0091	01/04/2017	*01/05/17 11:15*	S2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-4-1.5

Lab ID: 1604898-11

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.1**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:56	
Lead	**3.8**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:56	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 11:25	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:25	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 11:25	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 11:25	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:25	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:25	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:25	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 11:25	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:25	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 11:25	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:25	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 11:25	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:25	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:25	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 11:25	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:25	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:25	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:25	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 11:25	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:25	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 11:25	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 11:25	
Surrogate: Decachlorobiphenyl	*40.8 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 11:25*	
Surrogate: Tetrachloro-m-xylene	*35.0 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 11:25*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB10-4-2.5

Lab ID: 1604898-12

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.4**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:57	
Lead	**3.0**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:57	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 11:35	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:35	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 11:35	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 11:35	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:35	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:35	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:35	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 11:35	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:35	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 11:35	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:35	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 11:35	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 11:35	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:35	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 11:35	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:35	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:35	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 11:35	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 11:35	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 11:35	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 11:35	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 11:35	
Surrogate: Decachlorobiphenyl	*54.9 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 11:35*	
Surrogate: Tetrachloro-m-xylene	*66.6 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 11:35*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-1-0.5
Lab ID: 1604898-13

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:58	
Lead	**10**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:58	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 11:46	D1
4,4´-DDE	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 11:46	D1
4,4´-DDT	ND	20	1.3	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Aldrin	ND	10	2.7	10	B7A0091	01/04/2017	01/05/17 11:46	D1
alpha-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 11:46	D1
alpha-Chlordane	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 11:46	D1
beta-BHC	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Chlordane	ND	85	9.0	10	B7A0091	01/04/2017	01/05/17 11:46	D1
delta-BHC	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Dieldrin	ND	20	2.5	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Endosulfan I	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Endosulfan II	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Endrin	ND	20	2.3	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Endrin aldehyde	ND	20	2.8	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Endrin ketone	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 11:46	D1
gamma-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 11:46	D1
gamma-Chlordane	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Heptachlor	ND	10	1.9	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Methoxychlor	ND	50	1.8	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Toxaphene	ND	500	82	10	B7A0091	01/04/2017	01/05/17 11:46	D1
Surrogate: Decachlorobiphenyl	*46.5 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 11:46*	
Surrogate: Tetrachloro-m-xylene	*38.5 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 11:46*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-1-1.5
Lab ID: 1604898-14

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:59	
Lead	**170**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:59	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 11:56	D1
4,4´-DDE	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 11:56	D1
4,4´-DDT	ND	20	1.3	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Aldrin	ND	10	2.7	10	B7A0091	01/04/2017	01/05/17 11:56	D1
alpha-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 11:56	D1
alpha-Chlordane	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 11:56	D1
beta-BHC	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Chlordane	ND	85	9.0	10	B7A0091	01/04/2017	01/05/17 11:56	D1
delta-BHC	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Dieldrin	ND	20	2.5	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Endosulfan I	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Endosulfan II	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Endrin	ND	20	2.3	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Endrin aldehyde	ND	20	2.8	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Endrin ketone	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 11:56	D1
gamma-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 11:56	D1
gamma-Chlordane	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Heptachlor	ND	10	1.9	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Methoxychlor	ND	50	1.8	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Toxaphene	ND	500	82	10	B7A0091	01/04/2017	01/05/17 11:56	D1
Surrogate: Decachlorobiphenyl	*41.7 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 11:56*	
Surrogate: Tetrachloro-m-xylene	*39.5 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 11:56*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-1-2.5

Lab ID: 1604898-15

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 10:00	
Lead	**7.5**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 10:00	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 12:07	D1
4,4´-DDE	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 12:07	D1
4,4´-DDT	ND	20	1.3	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Aldrin	ND	10	2.7	10	B7A0091	01/04/2017	01/05/17 12:07	D1
alpha-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:07	D1
alpha-Chlordane	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:07	D1
beta-BHC	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Chlordane	ND	85	9.0	10	B7A0091	01/04/2017	01/05/17 12:07	D1
delta-BHC	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Dieldrin	ND	20	2.5	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Endosulfan I	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Endosulfan II	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Endrin	ND	20	2.3	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Endrin aldehyde	ND	20	2.8	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Endrin ketone	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 12:07	D1
gamma-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:07	D1
gamma-Chlordane	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Heptachlor	ND	10	1.9	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Methoxychlor	ND	50	1.8	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Toxaphene	ND	500	82	10	B7A0091	01/04/2017	01/05/17 12:07	D1
Surrogate: Decachlorobiphenyl	*44.5 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 12:07*	
Surrogate: Tetrachloro-m-xylene	*50.3 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 12:07*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-2-0.5

Lab ID: 1604898-16

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.4**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 10:04	
Lead	**5.3**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 10:04	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 12:17	D1
4,4´-DDE	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 12:17	D1
4,4´-DDT	ND	20	1.3	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Aldrin	ND	10	2.7	10	B7A0091	01/04/2017	01/05/17 12:17	D1
alpha-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:17	D1
alpha-Chlordane	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:17	D1
beta-BHC	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Chlordane	ND	85	9.0	10	B7A0091	01/04/2017	01/05/17 12:17	D1
delta-BHC	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Dieldrin	ND	20	2.5	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Endosulfan I	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Endosulfan II	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Endrin	ND	20	2.3	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Endrin aldehyde	ND	20	2.8	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Endrin ketone	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 12:17	D1
gamma-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:17	D1
gamma-Chlordane	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Heptachlor	ND	10	1.9	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Methoxychlor	ND	50	1.8	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Toxaphene	ND	500	82	10	B7A0091	01/04/2017	01/05/17 12:17	D1
Surrogate: Decachlorobiphenyl	*37.4 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 12:17*	
Surrogate: Tetrachloro-m-xylene	*45.8 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 12:17*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-2-1.5

Lab ID: 1604898-17

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 10:05	
Lead	**6.8**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 10:05	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 12:28	
4,4´-DDE	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 12:28	
4,4´-DDT	ND	20	1.3	10	B7A0091	01/04/2017	01/05/17 12:28	
Aldrin	ND	10	2.7	10	B7A0091	01/04/2017	01/05/17 12:28	
alpha-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:28	
alpha-Chlordane	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:28	
beta-BHC	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 12:28	
Chlordane	ND	85	9.0	10	B7A0091	01/04/2017	01/05/17 12:28	
delta-BHC	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:28	
Dieldrin	ND	20	2.5	10	B7A0091	01/04/2017	01/05/17 12:28	
Endosulfan I	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:28	
Endosulfan II	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 12:28	
Endosulfan sulfate	ND	20	2.1	10	B7A0091	01/04/2017	01/05/17 12:28	
Endrin	ND	20	2.3	10	B7A0091	01/04/2017	01/05/17 12:28	
Endrin aldehyde	ND	20	2.8	10	B7A0091	01/04/2017	01/05/17 12:28	
Endrin ketone	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 12:28	
gamma-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:28	
gamma-Chlordane	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 12:28	
Heptachlor	ND	10	1.9	10	B7A0091	01/04/2017	01/05/17 12:28	
Heptachlor epoxide	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:28	
Methoxychlor	ND	50	1.8	10	B7A0091	01/04/2017	01/05/17 12:28	
Toxaphene	ND	500	82	10	B7A0091	01/04/2017	01/05/17 12:28	
Surrogate: Decachlorobiphenyl	*35.1 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 12:28*	
Surrogate: Tetrachloro-m-xylene	*47.2 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 12:28*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-2-1.5

Lab ID: 1604898-17

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:56	
Aroclor 1221	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:56	
Aroclor 1232	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:56	
Aroclor 1242	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:56	
Aroclor 1248	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:56	
Aroclor 1254	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:56	
Aroclor 1260	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:56	
Aroclor 1262	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:56	
Aroclor 1268	ND	16	1.5	1	B7A0091	01/04/2017	01/05/17 09:56	
Surrogate: Decachlorobiphenyl	*40.5 %*	*26 - 137*			B7A0091	01/04/2017	*01/05/17 09:56*	
Surrogate: Tetrachloro-m-xylene	*73.1 %*	*28 - 102*			B7A0091	01/04/2017	*01/05/17 09:56*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-2-2.5
Lab ID: 1604898-18

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 10:06	
Lead	**3.2**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 10:06	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 12:38	D1
4,4´-DDE	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 12:38	D1
4,4´-DDT	ND	20	1.3	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Aldrin	ND	10	2.7	10	B7A0091	01/04/2017	01/05/17 12:38	D1
alpha-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:38	D1
alpha-Chlordane	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:38	D1
beta-BHC	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Chlordane	ND	85	9.0	10	B7A0091	01/04/2017	01/05/17 12:38	D1
delta-BHC	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Dieldrin	ND	20	2.5	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Endosulfan I	ND	10	2.1	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Endosulfan II	ND	20	2.2	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Endrin	ND	20	2.3	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Endrin aldehyde	ND	20	2.8	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Endrin ketone	ND	20	2.0	10	B7A0091	01/04/2017	01/05/17 12:38	D1
gamma-BHC	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:38	D1
gamma-Chlordane	ND	10	2.3	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Heptachlor	ND	10	1.9	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Methoxychlor	ND	50	1.8	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Toxaphene	ND	500	82	10	B7A0091	01/04/2017	01/05/17 12:38	D1
Surrogate: Decachlorobiphenyl	*37.2 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 12:38*	
Surrogate: Tetrachloro-m-xylene	*50.5 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 12:38*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-3-0.5

Lab ID: 1604898-19

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 11:16	
Lead	**12**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 11:16	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 12:49	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 12:49	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 12:49	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 12:49	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 12:49	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 12:49	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 12:49	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 12:49	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 12:49	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 12:49	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 12:49	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 12:49	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 12:49	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 12:49	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 12:49	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 12:49	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 12:49	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 12:49	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 12:49	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 12:49	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 12:49	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 12:49	
Surrogate: Decachlorobiphenyl	*23.1 %*	*27 - 123*			B7A0091	01/04/2017	*01/05/17 12:49*	S2
Surrogate: Tetrachloro-m-xylene	*29.5 %*	*26 - 108*			B7A0091	01/04/2017	*01/05/17 12:49*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-3-1.5

Lab ID: 1604898-20

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:11	
Lead	**6.7**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:11	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 12:59	
4,4´-DDE	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 12:59	
4,4´-DDT	ND	2.0	0.13	1	B7A0091	01/04/2017	01/05/17 12:59	
Aldrin	ND	1.0	0.27	1	B7A0091	01/04/2017	01/05/17 12:59	
alpha-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 12:59	
alpha-Chlordane	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 12:59	
beta-BHC	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 12:59	
Chlordane	ND	8.5	0.90	1	B7A0091	01/04/2017	01/05/17 12:59	
delta-BHC	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 12:59	
Dieldrin	ND	2.0	0.25	1	B7A0091	01/04/2017	01/05/17 12:59	
Endosulfan I	ND	1.0	0.21	1	B7A0091	01/04/2017	01/05/17 12:59	
Endosulfan II	ND	2.0	0.22	1	B7A0091	01/04/2017	01/05/17 12:59	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0091	01/04/2017	01/05/17 12:59	
Endrin	ND	2.0	0.23	1	B7A0091	01/04/2017	01/05/17 12:59	
Endrin aldehyde	ND	2.0	0.28	1	B7A0091	01/04/2017	01/05/17 12:59	
Endrin ketone	ND	2.0	0.20	1	B7A0091	01/04/2017	01/05/17 12:59	
gamma-BHC	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 12:59	
gamma-Chlordane	ND	1.0	0.23	1	B7A0091	01/04/2017	01/05/17 12:59	
Heptachlor	ND	1.0	0.19	1	B7A0091	01/04/2017	01/05/17 12:59	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0091	01/04/2017	01/05/17 12:59	
Methoxychlor	ND	5.0	0.18	1	B7A0091	01/04/2017	01/05/17 12:59	
Toxaphene	ND	50	8.2	1	B7A0091	01/04/2017	01/05/17 12:59	
Surrogate: Decachlorobiphenyl	*30.1 %*		*27 - 123*		B7A0091	01/04/2017	*01/05/17 12:59*	
Surrogate: Tetrachloro-m-xylene	*31.6 %*		*26 - 108*		B7A0091	01/04/2017	*01/05/17 12:59*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-3-2.5
Lab ID: 1604898-21

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.1**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:18	
Lead	**4.3**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:18	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	10	1.1	5	B7A0120	01/05/2017	01/05/17 17:56	D1
4,4´-DDE	ND	10	0.98	5	B7A0120	01/05/2017	01/05/17 17:56	D1
4,4´-DDT	ND	10	0.67	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Aldrin	ND	5.0	1.3	5	B7A0120	01/05/2017	01/05/17 17:56	D1
alpha-BHC	ND	5.0	0.99	5	B7A0120	01/05/2017	01/05/17 17:56	D1
alpha-Chlordane	ND	5.0	1.1	5	B7A0120	01/05/2017	01/05/17 17:56	D1
beta-BHC	ND	5.0	1.1	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Chlordane	ND	42	4.5	5	B7A0120	01/05/2017	01/05/17 17:56	D1
delta-BHC	ND	5.0	1.0	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Dieldrin	ND	10	1.2	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Endosulfan I	ND	5.0	1.1	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Endosulfan II	ND	10	1.1	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Endosulfan sulfate	ND	10	1.1	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Endrin	ND	10	1.1	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Endrin aldehyde	ND	10	1.4	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Endrin ketone	ND	10	1.0	5	B7A0120	01/05/2017	01/05/17 17:56	D1
gamma-BHC	ND	5.0	1.0	5	B7A0120	01/05/2017	01/05/17 17:56	D1
gamma-Chlordane	ND	5.0	1.1	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Heptachlor	ND	5.0	0.95	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Heptachlor epoxide	ND	5.0	1.0	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Methoxychlor	ND	25	0.89	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Toxaphene	ND	250	41	5	B7A0120	01/05/2017	01/05/17 17:56	D1
Surrogate: Decachlorobiphenyl	*29.1 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 17:56*	
Surrogate: Tetrachloro-m-xylene	*12.4 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 17:56*	S2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-4-0.5
Lab ID: 1604898-22

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:19	
Lead	**33**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:19	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 15:30	
4,4´-DDE [2C]	**0.23**	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 15:30	J
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/06/17 15:30	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/06/17 15:30	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 15:30	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 15:30	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 15:30	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/06/17 15:30	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 15:30	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/06/17 15:30	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 15:30	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 15:30	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/06/17 15:30	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/06/17 15:30	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/06/17 15:30	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 15:30	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 15:30	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 15:30	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/06/17 15:30	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 15:30	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/06/17 15:30	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/06/17 15:30	
Surrogate: Decachlorobiphenyl	*12.3 %*		*27 - 123*		B7A0120	01/05/2017	*01/06/17 15:30*	S2
Surrogate: Tetrachloro-m-xylene	*11.0 %*		*26 - 108*		B7A0120	01/05/2017	*01/06/17 15:30*	S2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-4-1.5
Lab ID: 1604898-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:20	
Lead	**11**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:20	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0120	01/05/2017	01/06/17 15:40	D1
4,4´-DDE	ND	20	2.0	10	B7A0120	01/05/2017	01/06/17 15:40	D1
4,4´-DDT	ND	20	1.3	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Aldrin	ND	10	2.7	10	B7A0120	01/05/2017	01/06/17 15:40	D1
alpha-BHC	ND	10	2.0	10	B7A0120	01/05/2017	01/06/17 15:40	D1
alpha-Chlordane	ND	10	2.1	10	B7A0120	01/05/2017	01/06/17 15:40	D1
beta-BHC	ND	10	2.3	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Chlordane	ND	85	9.0	10	B7A0120	01/05/2017	01/06/17 15:40	D1
delta-BHC	ND	10	2.1	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Dieldrin	ND	20	2.5	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Endosulfan I	ND	10	2.1	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Endosulfan II	ND	20	2.2	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Endrin	ND	20	2.3	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Endrin aldehyde	ND	20	2.8	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Endrin ketone	ND	20	2.0	10	B7A0120	01/05/2017	01/06/17 15:40	D1
gamma-BHC	ND	10	2.0	10	B7A0120	01/05/2017	01/06/17 15:40	D1
gamma-Chlordane	ND	10	2.3	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Heptachlor	ND	10	1.9	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Methoxychlor	ND	50	1.8	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Toxaphene	ND	500	82	10	B7A0120	01/05/2017	01/06/17 15:40	D1
Surrogate: Decachlorobiphenyl	*43.9 %*		*27 - 123*		B7A0120	01/05/2017	*01/06/17 15:40*	
Surrogate: Tetrachloro-m-xylene	*23.2 %*		*26 - 108*		B7A0120	01/05/2017	*01/06/17 15:40*	S2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB16-4-2.5
Lab ID: 1604898-24

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:21	
Lead	**11**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:21	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 15:51	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 15:51	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/06/17 15:51	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/06/17 15:51	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 15:51	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 15:51	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 15:51	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/06/17 15:51	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 15:51	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/06/17 15:51	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 15:51	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 15:51	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/06/17 15:51	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/06/17 15:51	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/06/17 15:51	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 15:51	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 15:51	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 15:51	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/06/17 15:51	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 15:51	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/06/17 15:51	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/06/17 15:51	
Surrogate: Decachlorobiphenyl	*0%*		*27 - 123*		B7A0120	01/05/2017	*01/06/17 15:51*	S2
Surrogate: Tetrachloro-m-xylene	*2.71 %*		*26 - 108*		B7A0120	01/05/2017	*01/06/17 15:51*	S2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-1-0.5

Lab ID: 1604898-25

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:22	
Lead	**23**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:22	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 16:01	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:01	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/06/17 16:01	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/06/17 16:01	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:01	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:01	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:01	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/06/17 16:01	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:01	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/06/17 16:01	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:01	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 16:01	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:01	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:01	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/06/17 16:01	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:01	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:01	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:01	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/06/17 16:01	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:01	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/06/17 16:01	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/06/17 16:01	
Surrogate: Decachlorobiphenyl	*30.6 %*		*27 - 123*		B7A0120	01/05/2017	*01/06/17 16:01*	
Surrogate: Tetrachloro-m-xylene	*38.3 %*		*26 - 108*		B7A0120	01/05/2017	*01/06/17 16:01*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-1-1.5

Lab ID: 1604898-26

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:23	
Lead	**11**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:23	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 18:48	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 18:48	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 18:48	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 18:48	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 18:48	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 18:48	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 18:48	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 18:48	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 18:48	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 18:48	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 18:48	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 18:48	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 18:48	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 18:48	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 18:48	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 18:48	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 18:48	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 18:48	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 18:48	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 18:48	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 18:48	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 18:48	
Surrogate: Decachlorobiphenyl	*37.1 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 18:48*	
Surrogate: Tetrachloro-m-xylene	*45.4 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 18:48*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-1-2.5

Lab ID: 1604898-27

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:25	
Lead	**4.8**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:25	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 16:11	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:11	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/06/17 16:11	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/06/17 16:11	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:11	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:11	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:11	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/06/17 16:11	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:11	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/06/17 16:11	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:11	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 16:11	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:11	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:11	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/06/17 16:11	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:11	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:11	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:11	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/06/17 16:11	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:11	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/06/17 16:11	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/06/17 16:11	
Surrogate: Decachlorobiphenyl	*35.9 %*		*27 - 123*		B7A0120	01/05/2017	*01/06/17 16:11*	
Surrogate: Tetrachloro-m-xylene	*45.3 %*		*26 - 108*		B7A0120	01/05/2017	*01/06/17 16:11*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-2-0.5

Lab ID: 1604898-28

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:26	
Lead	**28**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:26	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 16:22	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:22	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/06/17 16:22	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/06/17 16:22	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:22	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:22	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:22	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/06/17 16:22	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:22	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/06/17 16:22	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:22	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 16:22	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:22	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:22	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/06/17 16:22	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:22	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:22	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:22	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/06/17 16:22	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:22	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/06/17 16:22	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/06/17 16:22	
Surrogate: Decachlorobiphenyl	*30.9 %*		*27 - 123*		B7A0120	01/05/2017	*01/06/17 16:22*	
Surrogate: Tetrachloro-m-xylene	*43.0 %*		*26 - 108*		B7A0120	01/05/2017	*01/06/17 16:22*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-2-0.5

Lab ID: 1604898-28

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:04	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:04	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:04	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:04	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:04	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:04	
Aroclor 1260	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:04	
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:04	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:04	
Surrogate: Decachlorobiphenyl	*68.7 %*		*26 - 137*		B7A0122	01/05/2017	*01/05/17 14:04*	
Surrogate: Tetrachloro-m-xylene	*92.5 %*		*28 - 102*		B7A0122	01/05/2017	*01/05/17 14:04*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-2-1.5

Lab ID: 1604898-29

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.4**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:27	
Lead	**6.2**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:27	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 19:20	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:20	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 19:20	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 19:20	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:20	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:20	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:20	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 19:20	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:20	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 19:20	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:20	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 19:20	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:20	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:20	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 19:20	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:20	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:20	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:20	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 19:20	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:20	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 19:20	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 19:20	
Surrogate: Decachlorobiphenyl	*37.1 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 19:20*	
Surrogate: Tetrachloro-m-xylene	*47.3 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 19:20*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-2-2.5

Lab ID: 1604898-30

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.4**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:28	
Lead	**3.5**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:28	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 19:30	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:30	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 19:30	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 19:30	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:30	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:30	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:30	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 19:30	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:30	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 19:30	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:30	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 19:30	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:30	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:30	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 19:30	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:30	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:30	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:30	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 19:30	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:30	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 19:30	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 19:30	
Surrogate: Decachlorobiphenyl	*36.2 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 19:30*	
Surrogate: Tetrachloro-m-xylene	*45.0 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 19:30*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-3-0.5

Lab ID: 1604898-31

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.7**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:32	
Lead	**23**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:32	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 19:41	
4,4´-DDE [2C]	**0.20**	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:41	J
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 19:41	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 19:41	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:41	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:41	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:41	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 19:41	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:41	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 19:41	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:41	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 19:41	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:41	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:41	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 19:41	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:41	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:41	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:41	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 19:41	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:41	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 19:41	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 19:41	
Surrogate: Decachlorobiphenyl	*35.9 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 19:41*	
Surrogate: Tetrachloro-m-xylene	*44.6 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 19:41*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-3-1.5

Lab ID: 1604898-32

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.4**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:33	
Lead	**17**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:33	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 19:51	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:51	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 19:51	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 19:51	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:51	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:51	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:51	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 19:51	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:51	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 19:51	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:51	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 19:51	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 19:51	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:51	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 19:51	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:51	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:51	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 19:51	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 19:51	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 19:51	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 19:51	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 19:51	
Surrogate: Decachlorobiphenyl	*37.2 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 19:51*	
Surrogate: Tetrachloro-m-xylene	*46.7 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 19:51*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-3-2.5

Lab ID: 1604898-33

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.4**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:34	
Lead	**4.5**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:34	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 20:01	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:01	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 20:01	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 20:01	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:01	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:01	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:01	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 20:01	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:01	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 20:01	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:01	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 20:01	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:01	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:01	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 20:01	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:01	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:01	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:01	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 20:01	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:01	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 20:01	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 20:01	
Surrogate: Decachlorobiphenyl	*51.3 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 20:01*	
Surrogate: Tetrachloro-m-xylene	*72.0 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 20:01*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-4-0.5
Lab ID: 1604898-34

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:35	
Lead	**18**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:35	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 20:12	
4,4´-DDE	**0.97**	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:12	J
4,4´-DDT [2C]	**0.98**	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 20:12	J
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 20:12	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:12	
alpha-Chlordane	**0.46**	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:12	J
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:12	
Chlordane	**5.3**	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 20:12	J
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:12	
Dieldrin	**0.67**	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 20:12	J
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:12	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 20:12	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:12	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:12	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 20:12	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:12	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:12	
gamma-Chlordane [2C]	**0.47**	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:12	J
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 20:12	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:12	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 20:12	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 20:12	
Surrogate: Decachlorobiphenyl	*17.4 %*	*27 - 123*			B7A0120	01/05/2017	*01/05/17 20:12*	S2
Surrogate: Tetrachloro-m-xylene	*20.3 %*	*26 - 108*			B7A0120	01/05/2017	*01/05/17 20:12*	S2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-4-1.5

Lab ID: 1604898-35

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:36	
Lead	**9.6**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:36	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 16:32	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:32	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/06/17 16:32	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/06/17 16:32	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:32	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:32	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:32	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/06/17 16:32	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:32	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/06/17 16:32	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:32	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 16:32	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:32	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:32	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/06/17 16:32	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:32	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:32	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:32	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/06/17 16:32	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:32	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/06/17 16:32	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/06/17 16:32	
Surrogate: Decachlorobiphenyl	*34.8 %*		*27 - 123*		B7A0120	01/05/2017	*01/06/17 16:32*	
Surrogate: Tetrachloro-m-xylene	*45.5 %*		*26 - 108*		B7A0120	01/05/2017	*01/06/17 16:32*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB11-4-2.5

Lab ID: 1604898-36

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:37	
Lead	**12**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:37	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 16:43	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:43	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/06/17 16:43	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/06/17 16:43	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:43	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:43	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:43	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/06/17 16:43	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:43	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/06/17 16:43	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:43	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/06/17 16:43	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/06/17 16:43	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:43	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/06/17 16:43	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:43	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:43	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/06/17 16:43	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/06/17 16:43	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/06/17 16:43	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/06/17 16:43	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/06/17 16:43	
Surrogate: Decachlorobiphenyl	*34.1 %*		*27 - 123*		B7A0120	01/05/2017	*01/06/17 16:43*	
Surrogate: Tetrachloro-m-xylene	*45.9 %*		*26 - 108*		B7A0120	01/05/2017	*01/06/17 16:43*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB12-1-0.5
Lab ID: 1604898-37

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:38	
Lead	**7.3**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:38	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 20:43	
4,4´-DDE	**0.40**	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:43	J
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 20:43	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 20:43	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:43	
alpha-Chlordane	**9.8**	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:43	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:43	
Chlordane	**77**	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 20:43	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:43	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 20:43	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:43	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 20:43	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:43	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:43	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 20:43	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:43	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:43	
gamma-Chlordane	**6.7**	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:43	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 20:43	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:43	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 20:43	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 20:43	
Surrogate: Decachlorobiphenyl	*34.6 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 20:43*	
Surrogate: Tetrachloro-m-xylene	*41.8 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 20:43*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB12-1-0.5

Lab ID: 1604898-37

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:23	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:23	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:23	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:23	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:23	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:23	
Aroclor 1260	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:23	
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:23	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:23	
Surrogate: Decachlorobiphenyl	*74.3 %*	*26 - 137*			B7A0122	01/05/2017	*01/05/17 14:23*	
Surrogate: Tetrachloro-m-xylene	*94.2 %*	*28 - 102*			B7A0122	01/05/2017	*01/05/17 14:23*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB12-1-1.5
Lab ID: 1604898-38

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.5**	1.0	0.70	1	B7A0114	01/05/2017	01/06/17 10:39	
Lead	**14**	1.0	0.11	1	B7A0114	01/05/2017	01/06/17 10:39	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 20:54	
4,4´-DDE [2C]	**1.5**	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:54	J
4,4´-DDT	**0.24**	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 20:54	J
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 20:54	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:54	
alpha-Chlordane	**14**	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:54	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:54	
Chlordane	**120**	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 20:54	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:54	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 20:54	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:54	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 20:54	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 20:54	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:54	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 20:54	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:54	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:54	
gamma-Chlordane	**12**	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 20:54	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 20:54	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 20:54	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 20:54	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 20:54	
Surrogate: Decachlorobiphenyl	*35.6 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 20:54*	
Surrogate: Tetrachloro-m-xylene	*43.0 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 20:54*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB12-1-2.5
Lab ID: 1604898-39

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**6.7**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:22	
Lead	**25**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:22	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 21:04	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 21:04	
4,4´-DDT	ND	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 21:04	
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 21:04	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 21:04	
alpha-Chlordane	**18**	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 21:04	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 21:04	
Chlordane	**150**	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 21:04	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 21:04	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 21:04	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 21:04	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 21:04	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 21:04	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 21:04	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 21:04	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 21:04	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 21:04	
gamma-Chlordane	**17**	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 21:04	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 21:04	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 21:04	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 21:04	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 21:04	
Surrogate: Decachlorobiphenyl	*37.5 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 21:04*	
Surrogate: Tetrachloro-m-xylene	*42.0 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 21:04*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB13-1-0.5
Lab ID: 1604898-40

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:26	
Lead	**27**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:26	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 21:14	
4,4´-DDE	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 21:14	
4,4´-DDT	**0.24**	2.0	0.13	1	B7A0120	01/05/2017	01/05/17 21:14	J
Aldrin	ND	1.0	0.27	1	B7A0120	01/05/2017	01/05/17 21:14	
alpha-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 21:14	
alpha-Chlordane	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 21:14	
beta-BHC	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 21:14	
Chlordane	ND	8.5	0.90	1	B7A0120	01/05/2017	01/05/17 21:14	
delta-BHC	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 21:14	
Dieldrin	ND	2.0	0.25	1	B7A0120	01/05/2017	01/05/17 21:14	
Endosulfan I	ND	1.0	0.21	1	B7A0120	01/05/2017	01/05/17 21:14	
Endosulfan II	ND	2.0	0.22	1	B7A0120	01/05/2017	01/05/17 21:14	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0120	01/05/2017	01/05/17 21:14	
Endrin	ND	2.0	0.23	1	B7A0120	01/05/2017	01/05/17 21:14	
Endrin aldehyde	ND	2.0	0.28	1	B7A0120	01/05/2017	01/05/17 21:14	
Endrin ketone	ND	2.0	0.20	1	B7A0120	01/05/2017	01/05/17 21:14	
gamma-BHC	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 21:14	
gamma-Chlordane	ND	1.0	0.23	1	B7A0120	01/05/2017	01/05/17 21:14	
Heptachlor	ND	1.0	0.19	1	B7A0120	01/05/2017	01/05/17 21:14	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0120	01/05/2017	01/05/17 21:14	
Methoxychlor	ND	5.0	0.18	1	B7A0120	01/05/2017	01/05/17 21:14	
Toxaphene	ND	50	8.2	1	B7A0120	01/05/2017	01/05/17 21:14	
Surrogate: Decachlorobiphenyl	*37.4 %*		*27 - 123*		B7A0120	01/05/2017	*01/05/17 21:14*	
Surrogate: Tetrachloro-m-xylene	*44.8 %*		*26 - 108*		B7A0120	01/05/2017	*01/05/17 21:14*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB13-1-1.5
Lab ID: 1604898-41

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:28	
Lead	**4.5**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:28	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 09:42	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 09:42	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 09:42	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 09:42	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 09:42	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 09:42	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 09:42	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 09:42	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 09:42	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 09:42	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 09:42	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 09:42	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 09:42	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 09:42	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 09:42	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 09:42	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 09:42	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 09:42	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 09:42	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 09:42	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 09:42	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 09:42	
Surrogate: Decachlorobiphenyl	*71.6 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 09:42*	
Surrogate: Tetrachloro-m-xylene	*68.1 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 09:42*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB13-1-1.5

Lab ID: 1604898-41

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:42	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:42	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:42	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:42	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:42	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:42	
Aroclor 1260	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:42	
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:42	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 14:42	
Surrogate: Decachlorobiphenyl	*80.3 %*	*26 - 137*			B7A0122	01/05/2017	*01/05/17 14:42*	
Surrogate: Tetrachloro-m-xylene	*108 %*	*28 - 102*			B7A0122	01/05/2017	*01/05/17 14:42*	S1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB13-1-2.5
Lab ID: 1604898-42

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:29	
Lead	**3.6**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:29	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 09:53	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 09:53	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 09:53	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 09:53	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 09:53	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 09:53	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 09:53	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 09:53	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 09:53	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 09:53	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 09:53	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 09:53	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 09:53	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 09:53	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 09:53	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 09:53	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 09:53	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 09:53	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 09:53	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 09:53	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 09:53	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 09:53	
Surrogate: Decachlorobiphenyl	*93.5 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 09:53*	
Surrogate: Tetrachloro-m-xylene	*97.6 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 09:53*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-1-0.5
Lab ID: 1604898-43

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.4**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:30	
Lead	**29**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:30	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:03	
4,4´-DDE [2C]	**0.67**	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:03	J
4,4´-DDT	**1.7**	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 10:03	J
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 10:03	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:03	
alpha-Chlordane [2C]	**0.40**	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:03	J
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:03	
Chlordane [2C]	**4.2**	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 10:03	J
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:03	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 10:03	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:03	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:03	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:03	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:03	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 10:03	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:03	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:03	
gamma-Chlordane [2C]	**0.47**	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:03	J
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 10:03	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:03	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 10:03	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 10:03	
Surrogate: Decachlorobiphenyl	*56.1 %*	*27 - 123*			B7A0128	01/05/2017	*01/06/17 10:03*	
Surrogate: Tetrachloro-m-xylene	*49.6 %*	*26 - 108*			B7A0128	01/05/2017	*01/06/17 10:03*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-1-1.5
Lab ID: 1604898-44

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:33	
Lead	**9.6**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:33	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:14	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:14	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 10:14	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 10:14	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:14	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:14	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:14	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 10:14	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:14	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 10:14	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:14	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:14	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:14	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:14	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 10:14	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:14	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:14	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:14	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 10:14	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:14	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 10:14	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 10:14	
Surrogate: Decachlorobiphenyl	*63.6 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 10:14*	
Surrogate: Tetrachloro-m-xylene	*57.6 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 10:14*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-1-2.5
Lab ID: 1604898-45

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:35	
Lead	**9.0**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:35	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:25	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:25	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 10:25	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 10:25	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:25	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:25	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:25	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 10:25	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:25	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 10:25	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:25	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:25	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:25	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:25	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 10:25	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:25	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:25	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:25	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 10:25	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:25	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 10:25	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 10:25	
Surrogate: Decachlorobiphenyl	*72.0 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 10:25*	
Surrogate: Tetrachloro-m-xylene	*63.6 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 10:25*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-2-0.5
Lab ID: 1604898-46

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:36	
Lead	**25**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:36	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:35	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:35	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 10:35	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 10:35	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:35	
alpha-Chlordane [2C]	**0.25**	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:35	J
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:35	
Chlordane [2C]	**2.8**	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 10:35	J
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:35	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 10:35	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:35	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:35	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:35	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:35	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 10:35	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:35	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:35	
gamma-Chlordane [2C]	**0.29**	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:35	J
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 10:35	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:35	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 10:35	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 10:35	
Surrogate: Decachlorobiphenyl	*56.0 %*	*27 - 123*			B7A0128	01/05/2017	*01/06/17 10:35*	
Surrogate: Tetrachloro-m-xylene	*42.1 %*	*26 - 108*			B7A0128	01/05/2017	*01/06/17 10:35*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-2-1.5

Lab ID: 1604898-47

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:37	
Lead	**19**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:37	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:46	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:46	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 10:46	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 10:46	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:46	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:46	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:46	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 10:46	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:46	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 10:46	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:46	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:46	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:46	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:46	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 10:46	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:46	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:46	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:46	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 10:46	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:46	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 10:46	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 10:46	
Surrogate: Decachlorobiphenyl	*50.8 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 10:46*	
Surrogate: Tetrachloro-m-xylene	*42.6 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 10:46*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-2-2.5
Lab ID: 1604898-48

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.1**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:38	
Lead	**11**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:38	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:57	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:57	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 10:57	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 10:57	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:57	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:57	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:57	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 10:57	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:57	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 10:57	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:57	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 10:57	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 10:57	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:57	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 10:57	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:57	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:57	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 10:57	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 10:57	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 10:57	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 10:57	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 10:57	
Surrogate: Decachlorobiphenyl	*59.0 %*	*27 - 123*			B7A0128	01/05/2017	*01/06/17 10:57*	
Surrogate: Tetrachloro-m-xylene	*47.7 %*	*26 - 108*			B7A0128	01/05/2017	*01/06/17 10:57*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-3-0.5

Lab ID: 1604898-49

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.9**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:39	
Lead	**16**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:39	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD [2C]	**4.6**	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 11:07	
4,4´-DDE [2C]	**10**	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:07	
4,4´-DDT [2C]	**9.3**	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 11:07	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 11:07	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:07	
alpha-Chlordane [2C]	**0.67**	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:07	J
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:07	
Chlordane [2C]	**6.3**	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 11:07	J
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:07	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 11:07	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:07	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 11:07	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:07	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:07	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 11:07	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:07	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:07	
gamma-Chlordane	**0.42**	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:07	J
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 11:07	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:07	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 11:07	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 11:07	
Surrogate: Decachlorobiphenyl	*39.2 %*	*27 - 123*			B7A0128	01/05/2017	*01/06/17 11:07*	
Surrogate: Tetrachloro-m-xylene	*26.4 %*	*26 - 108*			B7A0128	01/05/2017	*01/06/17 11:07*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-3-1.5
Lab ID: 1604898-50

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:40	
Lead	**28**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:40	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	10	1.1	5	B7A0128	01/05/2017	01/06/17 11:18	D1
4,4´-DDE	ND	10	0.98	5	B7A0128	01/05/2017	01/06/17 11:18	D1
4,4´-DDT	ND	10	0.67	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Aldrin	ND	5.0	1.3	5	B7A0128	01/05/2017	01/06/17 11:18	D1
alpha-BHC	ND	5.0	0.99	5	B7A0128	01/05/2017	01/06/17 11:18	D1
alpha-Chlordane	ND	5.0	1.1	5	B7A0128	01/05/2017	01/06/17 11:18	D1
beta-BHC	ND	5.0	1.1	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Chlordane	ND	42	4.5	5	B7A0128	01/05/2017	01/06/17 11:18	D1
delta-BHC	ND	5.0	1.0	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Dieldrin	ND	10	1.2	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Endosulfan I	ND	5.0	1.1	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Endosulfan II	ND	10	1.1	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Endosulfan sulfate	ND	10	1.1	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Endrin	ND	10	1.1	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Endrin aldehyde	ND	10	1.4	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Endrin ketone	ND	10	1.0	5	B7A0128	01/05/2017	01/06/17 11:18	D1
gamma-BHC	ND	5.0	1.0	5	B7A0128	01/05/2017	01/06/17 11:18	D1
gamma-Chlordane	ND	5.0	1.1	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Heptachlor	ND	5.0	0.95	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Heptachlor epoxide	ND	5.0	1.0	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Methoxychlor	ND	25	0.89	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Toxaphene	ND	250	41	5	B7A0128	01/05/2017	01/06/17 11:18	D1
Surrogate: Decachlorobiphenyl	*76.6 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 11:18*	
Surrogate: Tetrachloro-m-xylene	*31.2 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 11:18*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-3-2.5
Lab ID: 1604898-51

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:41	
Lead	**3.3**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:41	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 11:29	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:29	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 11:29	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 11:29	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:29	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:29	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:29	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 11:29	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:29	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 11:29	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:29	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 11:29	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:29	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:29	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 11:29	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:29	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:29	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:29	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 11:29	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:29	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 11:29	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 11:29	
Surrogate: Decachlorobiphenyl	*60.8 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 11:29*	
Surrogate: Tetrachloro-m-xylene	*52.3 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 11:29*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-4-0.5
Lab ID: 1604898-52

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:42	
Lead	**46**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:42	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**21**	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 11:39	
4,4´-DDE [2C]	**50**	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:39	
4,4´-DDT	**25**	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 11:39	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 11:39	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:39	
alpha-Chlordane [2C]	**3.6**	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:39	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:39	
Chlordane [2C]	**38**	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 11:39	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:39	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 11:39	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:39	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 11:39	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:39	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:39	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 11:39	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:39	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:39	
gamma-Chlordane [2C]	**4.8**	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:39	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 11:39	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:39	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 11:39	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 11:39	
Surrogate: Decachlorobiphenyl	*46.5 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 11:39*	
Surrogate: Tetrachloro-m-xylene	*31.5 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 11:39*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-4-1.5
Lab ID: 1604898-53

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:44	
Lead	**140**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:44	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 11:50	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:50	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 11:50	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 11:50	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:50	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:50	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:50	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 11:50	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:50	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 11:50	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:50	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 11:50	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 11:50	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:50	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 11:50	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:50	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:50	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 11:50	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 11:50	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 11:50	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 11:50	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 11:50	
Surrogate: Decachlorobiphenyl	*43.0 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 11:50*	
Surrogate: Tetrachloro-m-xylene	*31.8 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 11:50*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-4-2.5
Lab ID: 1604898-54

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:47	
Lead	**47**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:47	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:01	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:01	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 12:01	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 12:01	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:01	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:01	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:01	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 12:01	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:01	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 12:01	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:01	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:01	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:01	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:01	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 12:01	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:01	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:01	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:01	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 12:01	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:01	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 12:01	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 12:01	
Surrogate: Decachlorobiphenyl	*50.7 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 12:01*	
Surrogate: Tetrachloro-m-xylene	*30.6 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 12:01*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-5-0.5
Lab ID: 1604898-55

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:48	
Lead	**20**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:48	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:11	
4,4´-DDE	**0.88**	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:11	J
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 12:11	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 12:11	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:11	
alpha-Chlordane	**0.41**	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:11	J
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:11	
Chlordane [2C]	**2.9**	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 12:11	J
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:11	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 12:11	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:11	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:11	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:11	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:11	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 12:11	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:11	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:11	
gamma-Chlordane [2C]	**0.39**	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:11	J
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 12:11	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:11	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 12:11	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 12:11	
Surrogate: Decachlorobiphenyl	*39.2 %*	*27 - 123*			B7A0128	01/05/2017	*01/06/17 12:11*	
Surrogate: Tetrachloro-m-xylene	*23.0 %*	*26 - 108*			B7A0128	01/05/2017	*01/06/17 12:11*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-5-1.5

Lab ID: 1604898-56

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:50	
Lead	**15**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:50	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:22	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:22	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 12:22	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 12:22	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:22	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:22	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:22	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 12:22	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:22	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 12:22	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:22	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:22	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:22	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:22	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 12:22	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:22	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:22	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:22	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 12:22	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:22	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 12:22	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 12:22	
Surrogate: Decachlorobiphenyl	*71.0 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 12:22*	
Surrogate: Tetrachloro-m-xylene	*53.1 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 12:22*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-5-2.5

Lab ID: 1604898-57

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0115	01/05/2017	01/06/17 11:51	
Lead	**12**	1.0	0.11	1	B7A0115	01/05/2017	01/06/17 11:51	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:33	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:33	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 12:33	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 12:33	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:33	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:33	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:33	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 12:33	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:33	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 12:33	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:33	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:33	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:33	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:33	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 12:33	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:33	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:33	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:33	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 12:33	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:33	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 12:33	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 12:33	
Surrogate: Decachlorobiphenyl	*45.2 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 12:33*	
Surrogate: Tetrachloro-m-xylene	*38.7 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 12:33*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-6-0.5
Lab ID: 1604898-58

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.2**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 11:54	
Lead	**37**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 11:54	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:43	
4,4´-DDE	**0.63**	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:43	J
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 12:43	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 12:43	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:43	
alpha-Chlordane [2C]	**0.24**	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:43	J
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:43	
Chlordane [2C]	**2.7**	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 12:43	J
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:43	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 12:43	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:43	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:43	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:43	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:43	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 12:43	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:43	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:43	
gamma-Chlordane [2C]	**0.29**	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:43	J
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 12:43	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:43	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 12:43	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 12:43	
Surrogate: Decachlorobiphenyl	*50.0 %*	*27 - 123*			B7A0128	01/05/2017	*01/06/17 12:43*	
Surrogate: Tetrachloro-m-xylene	*38.9 %*	*26 - 108*			B7A0128	01/05/2017	*01/06/17 12:43*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-6-0.5

Lab ID: 1604898-58

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 15:01	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 15:01	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 15:01	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 15:01	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 15:01	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 15:01	
Aroclor 1260	**6.8**	16	1.5	1	B7A0122	01/05/2017	01/05/17 15:01	J
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 15:01	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/05/17 15:01	
Surrogate: Decachlorobiphenyl	*48.7 %*	*26 - 137*			B7A0122	01/05/2017	*01/05/17 15:01*	
Surrogate: Tetrachloro-m-xylene	*69.9 %*	*28 - 102*			B7A0122	01/05/2017	*01/05/17 15:01*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-6-1.5

Lab ID: 1604898-59

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:01	
Lead	**6.8**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:01	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:54	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:54	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 12:54	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 12:54	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:54	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:54	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:54	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 12:54	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:54	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 12:54	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:54	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 12:54	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 12:54	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:54	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 12:54	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:54	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:54	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 12:54	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 12:54	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 12:54	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 12:54	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 12:54	
Surrogate: Decachlorobiphenyl	*66.4 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 12:54*	
Surrogate: Tetrachloro-m-xylene	*60.2 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 12:54*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB14-6-2.5

Lab ID: 1604898-60

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:02	
Lead	**6.3**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:02	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 13:05	
4,4´-DDE	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 13:05	
4,4´-DDT	ND	2.0	0.13	1	B7A0128	01/05/2017	01/06/17 13:05	
Aldrin	ND	1.0	0.27	1	B7A0128	01/05/2017	01/06/17 13:05	
alpha-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 13:05	
alpha-Chlordane	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 13:05	
beta-BHC	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 13:05	
Chlordane	ND	8.5	0.90	1	B7A0128	01/05/2017	01/06/17 13:05	
delta-BHC	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 13:05	
Dieldrin	ND	2.0	0.25	1	B7A0128	01/05/2017	01/06/17 13:05	
Endosulfan I	ND	1.0	0.21	1	B7A0128	01/05/2017	01/06/17 13:05	
Endosulfan II	ND	2.0	0.22	1	B7A0128	01/05/2017	01/06/17 13:05	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0128	01/05/2017	01/06/17 13:05	
Endrin	ND	2.0	0.23	1	B7A0128	01/05/2017	01/06/17 13:05	
Endrin aldehyde	ND	2.0	0.28	1	B7A0128	01/05/2017	01/06/17 13:05	
Endrin ketone	ND	2.0	0.20	1	B7A0128	01/05/2017	01/06/17 13:05	
gamma-BHC	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 13:05	
gamma-Chlordane	ND	1.0	0.23	1	B7A0128	01/05/2017	01/06/17 13:05	
Heptachlor	ND	1.0	0.19	1	B7A0128	01/05/2017	01/06/17 13:05	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0128	01/05/2017	01/06/17 13:05	
Methoxychlor	ND	5.0	0.18	1	B7A0128	01/05/2017	01/06/17 13:05	
Toxaphene	ND	50	8.2	1	B7A0128	01/05/2017	01/06/17 13:05	
Surrogate: Decachlorobiphenyl	*57.3 %*		*27 - 123*		B7A0128	01/05/2017	*01/06/17 13:05*	
Surrogate: Tetrachloro-m-xylene	*56.2 %*		*26 - 108*		B7A0128	01/05/2017	*01/06/17 13:05*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB11-1-0.5

Lab ID: 1604898-61

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.6**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:03	
Lead	**84**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:03	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 16:47	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 16:47	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 16:47	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 16:47	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 16:47	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 16:47	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 16:47	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 16:47	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 16:47	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 16:47	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 16:47	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 16:47	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 16:47	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 16:47	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 16:47	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 16:47	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 16:47	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 16:47	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 16:47	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 16:47	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 16:47	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 16:47	
Surrogate: Decachlorobiphenyl	*51.3 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 16:47*	
Surrogate: Tetrachloro-m-xylene	*47.3 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 16:47*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB11-1-0.5

Lab ID: 1604898-61

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:06	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:06	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:06	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:06	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:06	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:06	
Aroclor 1260	**6.1**	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:06	J
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:06	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:06	
Surrogate: Decachlorobiphenyl	*76.9 %*	*26 - 137*			B7A0122	01/05/2017	*01/06/17 12:06*	
Surrogate: Tetrachloro-m-xylene	*74.9 %*	*28 - 102*			B7A0122	01/05/2017	*01/06/17 12:06*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB11-1-1.5

Lab ID: 1604898-62

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.7**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:04	
Lead	**65**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:04	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 16:58	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 16:58	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 16:58	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 16:58	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 16:58	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 16:58	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 16:58	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 16:58	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 16:58	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 16:58	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 16:58	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 16:58	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 16:58	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 16:58	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 16:58	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 16:58	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 16:58	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 16:58	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 16:58	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 16:58	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 16:58	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 16:58	
Surrogate: Decachlorobiphenyl	*52.0 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 16:58*	
Surrogate: Tetrachloro-m-xylene	*49.3 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 16:58*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB11-2-0.5
Lab ID: 1604898-64

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**6.8**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:05	
Lead	**90**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:05	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 17:08	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:08	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 17:08	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 17:08	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:08	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:08	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:08	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 17:08	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:08	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 17:08	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:08	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 17:08	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:08	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:08	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 17:08	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:08	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:08	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:08	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 17:08	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:08	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 17:08	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 17:08	
Surrogate: Decachlorobiphenyl	*50.3 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 17:08*	
Surrogate: Tetrachloro-m-xylene	*49.2 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 17:08*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB11-2-1.5

Lab ID: 1604898-65

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:06	
Lead	**46**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:06	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 17:19	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:19	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 17:19	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 17:19	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:19	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:19	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:19	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 17:19	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:19	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 17:19	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:19	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 17:19	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:19	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:19	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 17:19	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:19	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:19	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:19	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 17:19	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:19	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 17:19	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 17:19	
Surrogate: Decachlorobiphenyl	*54.1 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 17:19*	
Surrogate: Tetrachloro-m-xylene	*52.9 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 17:19*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB12-1-0.5
Lab ID: 1604898-67

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**55**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:08	
Lead	**74**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:08	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 17:30	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:30	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 17:30	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 17:30	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:30	
alpha-Chlordane [2C]	**0.44**	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:30	J
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:30	
Chlordane [2C]	**3.7**	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 17:30	J
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:30	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 17:30	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:30	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 17:30	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:30	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:30	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 17:30	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:30	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:30	
gamma-Chlordane [2C]	**0.38**	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:30	J
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 17:30	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:30	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 17:30	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 17:30	
Surrogate: Decachlorobiphenyl	*45.1 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 17:30*	
Surrogate: Tetrachloro-m-xylene	*35.6 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 17:30*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB12-1-1.5
Lab ID: 1604898-68

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**40**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:09	
Lead	**28**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:09	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 17:40	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:40	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 17:40	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 17:40	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:40	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:40	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:40	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 17:40	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:40	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 17:40	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:40	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 17:40	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:40	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:40	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 17:40	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:40	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:40	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:40	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 17:40	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:40	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 17:40	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 17:40	
Surrogate: Decachlorobiphenyl	*59.9 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 17:40*	
Surrogate: Tetrachloro-m-xylene	*42.9 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 17:40*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB12-2-0.5
Lab ID: 1604898-70

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:10	
Lead	**33**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:10	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 17:51	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:51	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 17:51	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 17:51	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:51	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:51	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:51	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 17:51	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:51	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 17:51	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:51	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 17:51	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 17:51	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:51	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 17:51	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:51	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:51	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 17:51	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 17:51	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 17:51	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 17:51	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 17:51	
Surrogate: Decachlorobiphenyl	*68.4 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 17:51*	
Surrogate: Tetrachloro-m-xylene	*54.3 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 17:51*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB12-2-1.5
Lab ID: 1604898-71

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.4**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:11	
Lead	**5.9**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:11	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:02	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:02	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 18:02	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 18:02	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:02	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:02	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:02	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 18:02	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:02	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 18:02	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:02	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:02	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:02	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:02	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 18:02	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:02	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:02	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:02	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 18:02	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:02	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 18:02	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 18:02	
Surrogate: Decachlorobiphenyl	*43.9 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 18:02*	
Surrogate: Tetrachloro-m-xylene	*30.2 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 18:02*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-1-0.5
Lab ID: 1604898-73

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.8**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:15	
Lead	**150**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:15	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:12	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:12	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 18:12	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 18:12	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:12	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:12	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:12	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 18:12	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:12	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 18:12	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:12	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:12	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:12	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:12	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 18:12	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:12	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:12	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:12	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 18:12	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:12	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 18:12	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 18:12	
Surrogate: Decachlorobiphenyl	*42.7 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 18:12*	
Surrogate: Tetrachloro-m-xylene	*30.6 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 18:12*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-1-1.5
Lab ID: 1604898-74

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:16	
Lead	**18**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:16	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:23	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:23	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 18:23	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 18:23	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:23	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:23	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:23	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 18:23	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:23	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 18:23	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:23	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:23	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:23	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:23	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 18:23	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:23	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:23	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:23	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 18:23	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:23	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 18:23	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 18:23	
Surrogate: Decachlorobiphenyl	*56.6 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 18:23*	
Surrogate: Tetrachloro-m-xylene	*44.5 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 18:23*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-1-1.5

Lab ID: 1604898-74

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:25	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:25	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:25	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:25	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:25	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:25	
Aroclor 1260	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:25	
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:25	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:25	
Surrogate: Decachlorobiphenyl	*69.4 %*	*26 - 137*			B7A0122	01/05/2017	*01/06/17 12:25*	
Surrogate: Tetrachloro-m-xylene	*78.9 %*	*28 - 102*			B7A0122	01/05/2017	*01/06/17 12:25*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-5-0.5
Lab ID: 1604898-76

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.2**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:17	
Lead	**69**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:17	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:34	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:34	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 18:34	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 18:34	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:34	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:34	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:34	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 18:34	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:34	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 18:34	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:34	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:34	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:34	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:34	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 18:34	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:34	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:34	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:34	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 18:34	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:34	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 18:34	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 18:34	
Surrogate: Decachlorobiphenyl	*51.4 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 18:34*	
Surrogate: Tetrachloro-m-xylene	*40.6 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 18:34*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-5-1.5
Lab ID: 1604898-77

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.8**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:18	
Lead	**53**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:18	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:44	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:44	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 18:44	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 18:44	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:44	
alpha-Chlordane [2C]	**0.37**	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:44	J
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:44	
Chlordane [2C]	**3.6**	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 18:44	J
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:44	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 18:44	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:44	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:44	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:44	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:44	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 18:44	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:44	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:44	
gamma-Chlordane	**0.31**	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:44	J
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 18:44	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:44	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 18:44	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 18:44	
Surrogate: Decachlorobiphenyl	*56.0 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 18:44*	
Surrogate: Tetrachloro-m-xylene	*44.3 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 18:44*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-7-0.5

Lab ID: 1604898-79

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	**1.5**	2.0	0.32	1	B7A0123	01/05/2017	01/06/17 13:21	J
Arsenic	**2.3**	1.0	0.70	1	B7A0123	01/05/2017	01/06/17 13:21	
Barium	**130**	1.0	0.10	1	B7A0123	01/05/2017	01/06/17 13:21	
Beryllium	**0.30**	1.0	0.04	1	B7A0123	01/05/2017	01/06/17 13:21	J
Cadmium	ND	1.0	0.09	1	B7A0123	01/05/2017	01/06/17 13:21	
Chromium	**14**	1.0	0.12	1	B7A0123	01/05/2017	01/06/17 13:21	
Cobalt	**8.0**	1.0	0.10	1	B7A0123	01/05/2017	01/06/17 13:21	
Copper	**2800**	20	1.1	10	B7A0123	01/05/2017	01/06/17 15:13	
Lead	**250**	1.0	0.11	1	B7A0123	01/05/2017	01/06/17 13:21	
Molybdenum	ND	1.0	0.13	1	B7A0123	01/05/2017	01/06/17 13:21	
Nickel	**13**	1.0	0.10	1	B7A0123	01/05/2017	01/06/17 13:21	
Selenium	ND	1.0	0.88	1	B7A0123	01/05/2017	01/06/17 13:21	
Silver	**0.08**	1.0	0.04	1	B7A0123	01/05/2017	01/06/17 13:21	J
Thallium	ND	1.0	0.42	1	B7A0123	01/05/2017	01/06/17 13:21	
Vanadium	**26**	1.0	0.19	1	B7A0123	01/05/2017	01/06/17 13:21	
Zinc	**150**	1.0	0.18	1	B7A0123	01/05/2017	01/06/17 13:21	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.04**	0.10	0.02	1	B7A0119	01/05/2017	01/06/17 07:58	J

Polychlorinated Biphenyls by EPA 8082

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:22	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:22	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:22	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:22	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:22	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:22	
Aroclor 1260	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:22	
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:22	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:22	
Surrogate: Decachlorobiphenyl	*78.6 %*	*26 - 137*			B7A0122	01/05/2017	*01/06/17 13:22*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-7-0.5
Lab ID: 1604898-79

Polychlorinated Biphenyls by EPA 8082

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Tetrachloro-m-xylene	*88.4 %*	*28 - 102*		B7A0122	01/05/2017	*01/06/17 13:22*	

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: LT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	12	3.0	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1
Acenaphthene	ND	12	1.1	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1
Acenaphthylene	ND	12	1.9	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1
Anthracene	ND	12	1.4	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1
Benzo(a)anthracene	ND	12	1.6	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1
Benzo(a)pyrene	**2.0**	12	1.6	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1, J
Benzo(b)fluoranthene	**2.2**	12	1.6	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1, J
Benzo(g,h,i)perylene	**3.3**	12	1.3	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1, J
Benzo(k)fluoranthene	ND	12	1.1	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1
Chrysene	**2.0**	12	1.5	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1, J
Dibenz(a,h)anthracene	ND	12	0.96	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1
Fluoranthene	**1.9**	12	1.4	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1, J
Fluorene	ND	12	1.3	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1
Indeno(1,2,3-cd)pyrene	**1.6**	12	1.2	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1, J
Naphthalene	ND	12	1.5	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1
Phenanthrene	ND	12	1.1	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1
Pyrene	**2.3**	12	1.4	2.5	B7A0160	01/06/2017	01/06/17 15:15	D1, J
Surrogate: 1,2-Dichlorobenzene-d4	*74.2 %*	*23 - 104*		B7A0160	01/06/2017	*01/06/17 15:15*	
Surrogate: 2-Fluorobiphenyl	*85.1 %*	*29 - 116*		B7A0160	01/06/2017	*01/06/17 15:15*	
Surrogate: Nitrobenzene-d5	*78.1 %*	*14 - 120*		B7A0160	01/06/2017	*01/06/17 15:15*	
Surrogate: 4-Terphenyl-d14	*94.2 %*	*16 - 142*		B7A0160	01/06/2017	*01/06/17 15:15*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-7-1.5

Lab ID: 1604898-80

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.32	1	B7A0123	01/05/2017	01/06/17 13:25	
Arsenic	**2.1**	1.0	0.70	1	B7A0123	01/05/2017	01/06/17 13:25	
Barium	**180**	1.0	0.10	1	B7A0123	01/05/2017	01/06/17 13:25	
Beryllium	**0.31**	1.0	0.04	1	B7A0123	01/05/2017	01/06/17 13:25	J
Cadmium	ND	1.0	0.09	1	B7A0123	01/05/2017	01/06/17 13:25	
Chromium	**19**	1.0	0.12	1	B7A0123	01/05/2017	01/06/17 13:25	
Cobalt	**8.3**	1.0	0.10	1	B7A0123	01/05/2017	01/06/17 13:25	
Copper	**260**	2.0	0.11	1	B7A0123	01/05/2017	01/06/17 13:25	
Lead	**130**	1.0	0.11	1	B7A0123	01/05/2017	01/06/17 13:25	
Molybdenum	ND	1.0	0.13	1	B7A0123	01/05/2017	01/06/17 13:25	
Nickel	**17**	1.0	0.10	1	B7A0123	01/05/2017	01/06/17 13:25	
Selenium	ND	1.0	0.88	1	B7A0123	01/05/2017	01/06/17 13:25	
Silver	ND	1.0	0.04	1	B7A0123	01/05/2017	01/06/17 13:25	
Thallium	ND	1.0	0.42	1	B7A0123	01/05/2017	01/06/17 13:25	
Vanadium	**31**	1.0	0.19	1	B7A0123	01/05/2017	01/06/17 13:25	
Zinc	**170**	1.0	0.18	1	B7A0123	01/05/2017	01/06/17 13:25	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.12**	0.10	0.02	1	B7A0119	01/05/2017	01/06/17 08:08	

Polychlorinated Biphenyls by EPA 8082

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:44	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:44	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:44	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:44	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:44	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:44	
Aroclor 1260	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:44	
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:44	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 12:44	
Surrogate: Decachlorobiphenyl	*66.4 %*	*26 - 137*			B7A0122	01/05/2017	*01/06/17 12:44*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-7-1.5
Lab ID: 1604898-80

Polychlorinated Biphenyls by EPA 8082

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Tetrachloro-m-xylene	*73.6 %*	*28 - 102*		B7A0122	01/05/2017	*01/06/17 12:44*	

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: LT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	100	24	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Acenaphthene	ND	100	8.6	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Acenaphthylene	ND	100	15	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Anthracene	ND	100	11	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Benzo(a)anthracene	ND	100	13	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Benzo(a)pyrene	ND	100	13	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Benzo(b)fluoranthene	ND	100	13	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Benzo(g,h,i)perylene	**22**	100	10	20	B7A0160	01/06/2017	01/06/17 15:42	D1, J
Benzo(k)fluoranthene	ND	100	9.0	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Chrysene	**15**	100	12	20	B7A0160	01/06/2017	01/06/17 15:42	D1, J
Dibenz(a,h)anthracene	ND	100	7.7	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Fluoranthene	ND	100	11	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Fluorene	ND	100	10	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Indeno(1,2,3-cd)pyrene	ND	100	9.4	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Naphthalene	ND	100	12	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Phenanthrene	ND	100	9.1	20	B7A0160	01/06/2017	01/06/17 15:42	D1
Pyrene	**12**	100	11	20	B7A0160	01/06/2017	01/06/17 15:42	D1, J
Surrogate: 1,2-Dichlorobenzene-d4	*77.6 %*	*23 - 104*			B7A0160	01/06/2017	*01/06/17 15:42*	
Surrogate: 2-Fluorobiphenyl	*84.7 %*	*29 - 116*			B7A0160	01/06/2017	*01/06/17 15:42*	
Surrogate: Nitrobenzene-d5	*84.2 %*	*14 - 120*			B7A0160	01/06/2017	*01/06/17 15:42*	
Surrogate: 4-Terphenyl-d14	*98.8 %*	*16 - 142*			B7A0160	01/06/2017	*01/06/17 15:42*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-7-2.5

Lab ID: 1604898-81

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.32	1	B7A0123	01/05/2017	01/06/17 13:27	
Arsenic	**1.5**	1.0	0.70	1	B7A0123	01/05/2017	01/06/17 13:27	
Barium	**88**	1.0	0.10	1	B7A0123	01/05/2017	01/06/17 13:27	
Beryllium	**0.31**	1.0	0.04	1	B7A0123	01/05/2017	01/06/17 13:27	J
Cadmium	ND	1.0	0.09	1	B7A0123	01/05/2017	01/06/17 13:27	
Chromium	**20**	1.0	0.12	1	B7A0123	01/05/2017	01/06/17 13:27	
Cobalt	**9.0**	1.0	0.10	1	B7A0123	01/05/2017	01/06/17 13:27	
Copper	**25**	2.0	0.11	1	B7A0123	01/05/2017	01/06/17 13:27	
Lead	**11**	1.0	0.11	1	B7A0123	01/05/2017	01/06/17 13:27	
Molybdenum	ND	1.0	0.13	1	B7A0123	01/05/2017	01/06/17 13:27	
Nickel	**18**	1.0	0.10	1	B7A0123	01/05/2017	01/06/17 13:27	
Selenium	ND	1.0	0.88	1	B7A0123	01/05/2017	01/06/17 13:27	
Silver	ND	1.0	0.04	1	B7A0123	01/05/2017	01/06/17 13:27	
Thallium	ND	1.0	0.42	1	B7A0123	01/05/2017	01/06/17 13:27	
Vanadium	**31**	1.0	0.19	1	B7A0123	01/05/2017	01/06/17 13:27	
Zinc	**38**	1.0	0.18	1	B7A0123	01/05/2017	01/06/17 13:27	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.04**	0.10	0.02	1	B7A0119	01/05/2017	01/06/17 08:10	J

Polychlorinated Biphenyls by EPA 8082

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:40	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:40	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:40	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:40	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:40	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:40	
Aroclor 1260	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:40	
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:40	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:40	
Surrogate: Decachlorobiphenyl	*70.0 %*	*26 - 137*			B7A0122	01/05/2017	*01/06/17 13:40*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB9-7-2.5
Lab ID: 1604898-81

Polychlorinated Biphenyls by EPA 8082

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Tetrachloro-m-xylene	*82.4 %*	*28 - 102*		B7A0122	01/05/2017	*01/06/17 13:40*	

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: LT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	100	24	20	B7A0160	01/06/2017	01/06/17 16:09	D1
Acenaphthene	ND	100	8.6	20	B7A0160	01/06/2017	01/06/17 16:09	D1
Acenaphthylene	ND	100	15	20	B7A0160	01/06/2017	01/06/17 16:09	D1
Anthracene	ND	100	11	20	B7A0160	01/06/2017	01/06/17 16:09	D1
Benzo(a)anthracene	ND	100	13	20	B7A0160	01/06/2017	01/06/17 16:09	D1
Benzo(a)pyrene	**15**	100	13	20	B7A0160	01/06/2017	01/06/17 16:09	D1, J
Benzo(b)fluoranthene	**14**	100	13	20	B7A0160	01/06/2017	01/06/17 16:09	D1, J
Benzo(g,h,i)perylene	**26**	100	10	20	B7A0160	01/06/2017	01/06/17 16:09	D1, J
Benzo(k)fluoranthene	ND	100	9.0	20	B7A0160	01/06/2017	01/06/17 16:09	D1
Chrysene	**25**	100	12	20	B7A0160	01/06/2017	01/06/17 16:09	D1, J
Dibenz(a,h)anthracene	ND	100	7.7	20	B7A0160	01/06/2017	01/06/17 16:09	D1
Fluoranthene	**16**	100	11	20	B7A0160	01/06/2017	01/06/17 16:09	D1, J
Fluorene	ND	100	10	20	B7A0160	01/06/2017	01/06/17 16:09	D1
Indeno(1,2,3-cd)pyrene	**9.8**	100	9.4	20	B7A0160	01/06/2017	01/06/17 16:09	D1, J
Naphthalene	ND	100	12	20	B7A0160	01/06/2017	01/06/17 16:09	D1
Phenanthrene	ND	100	9.1	20	B7A0160	01/06/2017	01/06/17 16:09	D1
Pyrene	**23**	100	11	20	B7A0160	01/06/2017	01/06/17 16:09	D1, J
Surrogate: 1,2-Dichlorobenzene-d4	*71.7 %*	*23 - 104*			B7A0160	01/06/2017	*01/06/17 16:09*	
Surrogate: 2-Fluorobiphenyl	*80.6 %*	*29 - 116*			B7A0160	01/06/2017	*01/06/17 16:09*	
Surrogate: Nitrobenzene-d5	*94.4 %*	*14 - 120*			B7A0160	01/06/2017	*01/06/17 16:09*	
Surrogate: 4-Terphenyl-d14	*92.9 %*	*16 - 142*			B7A0160	01/06/2017	*01/06/17 16:09*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB10-2-0.5
Lab ID: 1604898-82

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**12**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:19	
Lead	**220**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:19	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD [2C]	**0.28**	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:06	J
4,4´-DDE	**3.1**	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:06	
4,4´-DDT	**1.1**	2.0	0.13	1	B7A0143	01/05/2017	01/06/17 14:06	J
Aldrin	ND	1.0	0.27	1	B7A0143	01/05/2017	01/06/17 14:06	
alpha-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:06	
alpha-Chlordane	**0.95**	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:06	J
beta-BHC	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:06	
Chlordane	**10**	8.5	0.90	1	B7A0143	01/05/2017	01/06/17 14:06	
delta-BHC	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:06	
Dieldrin	**0.33**	2.0	0.25	1	B7A0143	01/05/2017	01/06/17 14:06	J
Endosulfan I	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:06	
Endosulfan II	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:06	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:06	
Endrin	ND	2.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:06	
Endrin aldehyde	ND	2.0	0.28	1	B7A0143	01/05/2017	01/06/17 14:06	
Endrin ketone	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:06	
gamma-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:06	
gamma-Chlordane	**1.4**	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:06	
Heptachlor	ND	1.0	0.19	1	B7A0143	01/05/2017	01/06/17 14:06	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:06	
Methoxychlor	ND	5.0	0.18	1	B7A0143	01/05/2017	01/06/17 14:06	
Toxaphene	ND	50	8.2	1	B7A0143	01/05/2017	01/06/17 14:06	
Surrogate: Decachlorobiphenyl	*40.1 %*	*27 - 123*			B7A0143	01/05/2017	*01/06/17 14:06*	
Surrogate: Tetrachloro-m-xylene	*42.3 %*	*26 - 108*			B7A0143	01/05/2017	*01/06/17 14:06*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB5-1-0.5
Lab ID: 1604898-83

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.0**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:20	
Lead	**53**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:20	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.28**	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:55	J
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:55	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 18:55	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 18:55	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:55	
alpha-Chlordane	**0.37**	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:55	J
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:55	
Chlordane [2C]	**4.1**	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 18:55	J
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:55	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 18:55	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:55	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 18:55	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 18:55	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:55	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 18:55	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:55	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:55	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 18:55	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 18:55	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 18:55	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 18:55	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 18:55	
Surrogate: Decachlorobiphenyl	*107 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 18:55*	
Surrogate: Tetrachloro-m-xylene	*90.2 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 18:55*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB5-1-1.5
Lab ID: 1604898-84

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:21	
Lead	**65**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:21	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:05	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:05	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 19:05	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 19:05	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:05	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:05	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:05	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 19:05	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:05	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 19:05	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:05	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:05	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:05	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:05	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 19:05	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:05	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:05	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:05	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 19:05	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:05	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 19:05	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 19:05	
Surrogate: Decachlorobiphenyl	*63.9 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 19:05*	
Surrogate: Tetrachloro-m-xylene	*53.8 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 19:05*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB5-1-2.5

Lab ID: 1604898-85

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0116	01/05/2017	01/06/17 12:22	
Lead	**8.4**	1.0	0.11	1	B7A0116	01/05/2017	01/06/17 12:22	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:16	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:16	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 19:16	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 19:16	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:16	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:16	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:16	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 19:16	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:16	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 19:16	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:16	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:16	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:16	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:16	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 19:16	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:16	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:16	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:16	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 19:16	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:16	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 19:16	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 19:16	
Surrogate: Decachlorobiphenyl	*51.6 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 19:16*	
Surrogate: Tetrachloro-m-xylene	*46.9 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 19:16*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB5-2-0.5
Lab ID: 1604898-86

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:29	
Lead	**47**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:29	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:27	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:27	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 19:27	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 19:27	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:27	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:27	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:27	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 19:27	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:27	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 19:27	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:27	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:27	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:27	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:27	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 19:27	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:27	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:27	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:27	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 19:27	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:27	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 19:27	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 19:27	
Surrogate: Decachlorobiphenyl	*66.7 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 19:27*	
Surrogate: Tetrachloro-m-xylene	*51.0 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 19:27*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB5-2-1.5

Lab ID: 1604898-87

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.5**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:32	
Lead	**63**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:32	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:37	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:37	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 19:37	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 19:37	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:37	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:37	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:37	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 19:37	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:37	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 19:37	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:37	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:37	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:37	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:37	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 19:37	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:37	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:37	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:37	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 19:37	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:37	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 19:37	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 19:37	
Surrogate: Decachlorobiphenyl	*53.5 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 19:37*	
Surrogate: Tetrachloro-m-xylene	*49.7 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 19:37*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID FB5-2-2.5

Lab ID: 1604898-88

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:34	
Lead	**9.7**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:34	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:48	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:48	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 19:48	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 19:48	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:48	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:48	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:48	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 19:48	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:48	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 19:48	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:48	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:48	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:48	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:48	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 19:48	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:48	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:48	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:48	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 19:48	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:48	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 19:48	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 19:48	
Surrogate: Decachlorobiphenyl	*62.7 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 19:48*	
Surrogate: Tetrachloro-m-xylene	*55.1 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 19:48*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB13-1-0.5

Lab ID: 1604898-89

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.6**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:35	
Lead	**600**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:35	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:59	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:59	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 19:59	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 19:59	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:59	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:59	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:59	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 19:59	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:59	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 19:59	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:59	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 19:59	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 19:59	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:59	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 19:59	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:59	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:59	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 19:59	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 19:59	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 19:59	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 19:59	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 19:59	
Surrogate: Decachlorobiphenyl	*64.0 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 19:59*	
Surrogate: Tetrachloro-m-xylene	*58.5 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 19:59*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB13-1-1.5
Lab ID: 1604898-90

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:36	
Lead	**6.5**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:36	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 20:09	
4,4´-DDE	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 20:09	
4,4´-DDT	ND	2.0	0.13	1	B7A0142	01/05/2017	01/06/17 20:09	
Aldrin	ND	1.0	0.27	1	B7A0142	01/05/2017	01/06/17 20:09	
alpha-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 20:09	
alpha-Chlordane	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 20:09	
beta-BHC	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 20:09	
Chlordane	ND	8.5	0.90	1	B7A0142	01/05/2017	01/06/17 20:09	
delta-BHC	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 20:09	
Dieldrin	ND	2.0	0.25	1	B7A0142	01/05/2017	01/06/17 20:09	
Endosulfan I	ND	1.0	0.21	1	B7A0142	01/05/2017	01/06/17 20:09	
Endosulfan II	ND	2.0	0.22	1	B7A0142	01/05/2017	01/06/17 20:09	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0142	01/05/2017	01/06/17 20:09	
Endrin	ND	2.0	0.23	1	B7A0142	01/05/2017	01/06/17 20:09	
Endrin aldehyde	ND	2.0	0.28	1	B7A0142	01/05/2017	01/06/17 20:09	
Endrin ketone	ND	2.0	0.20	1	B7A0142	01/05/2017	01/06/17 20:09	
gamma-BHC	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 20:09	
gamma-Chlordane	ND	1.0	0.23	1	B7A0142	01/05/2017	01/06/17 20:09	
Heptachlor	ND	1.0	0.19	1	B7A0142	01/05/2017	01/06/17 20:09	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0142	01/05/2017	01/06/17 20:09	
Methoxychlor	ND	5.0	0.18	1	B7A0142	01/05/2017	01/06/17 20:09	
Toxaphene	ND	50	8.2	1	B7A0142	01/05/2017	01/06/17 20:09	
Surrogate: Decachlorobiphenyl	*65.3 %*		*27 - 123*		B7A0142	01/05/2017	*01/06/17 20:09*	
Surrogate: Tetrachloro-m-xylene	*58.5 %*		*26 - 108*		B7A0142	01/05/2017	*01/06/17 20:09*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB13-1-1.5

Lab ID: 1604898-90

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:59	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:59	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:59	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:59	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:59	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:59	
Aroclor 1260	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:59	
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:59	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:59	
Surrogate: Decachlorobiphenyl	*94.3 %*	*26 - 137*			B7A0122	01/05/2017	*01/06/17 13:59*	
Surrogate: Tetrachloro-m-xylene	*98.3 %*	*28 - 102*			B7A0122	01/05/2017	*01/06/17 13:59*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB13-2-0.5
Lab ID: 1604898-92

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**12**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:40	
Lead	**520**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:40	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:16	
4,4´-DDE	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:16	
4,4´-DDT	ND	2.0	0.13	1	B7A0143	01/05/2017	01/06/17 14:16	
Aldrin	ND	1.0	0.27	1	B7A0143	01/05/2017	01/06/17 14:16	
alpha-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:16	
alpha-Chlordane	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:16	
beta-BHC	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:16	
Chlordane	ND	8.5	0.90	1	B7A0143	01/05/2017	01/06/17 14:16	
delta-BHC	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:16	
Dieldrin	ND	2.0	0.25	1	B7A0143	01/05/2017	01/06/17 14:16	
Endosulfan I	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:16	
Endosulfan II	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:16	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:16	
Endrin	ND	2.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:16	
Endrin aldehyde	ND	2.0	0.28	1	B7A0143	01/05/2017	01/06/17 14:16	
Endrin ketone	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:16	
gamma-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:16	
gamma-Chlordane	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:16	
Heptachlor	ND	1.0	0.19	1	B7A0143	01/05/2017	01/06/17 14:16	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:16	
Methoxychlor	ND	5.0	0.18	1	B7A0143	01/05/2017	01/06/17 14:16	
Toxaphene	ND	50	8.2	1	B7A0143	01/05/2017	01/06/17 14:16	
Surrogate: Decachlorobiphenyl	*44.5 %*		*27 - 123*		B7A0143	01/05/2017	*01/06/17 14:16*	
Surrogate: Tetrachloro-m-xylene	*51.7 %*		*26 - 108*		B7A0143	01/05/2017	*01/06/17 14:16*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB13-2-0.5

Lab ID: 1604898-92

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:03	
Aroclor 1221	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:03	
Aroclor 1232	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:03	
Aroclor 1242	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:03	
Aroclor 1248	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:03	
Aroclor 1254	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:03	
Aroclor 1260	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:03	
Aroclor 1262	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:03	
Aroclor 1268	ND	16	1.5	1	B7A0122	01/05/2017	01/06/17 13:03	
Surrogate: Decachlorobiphenyl	*65.6 %*	*26 - 137*			B7A0122	01/05/2017	*01/06/17 13:03*	
Surrogate: Tetrachloro-m-xylene	*73.0 %*	*28 - 102*			B7A0122	01/05/2017	*01/06/17 13:03*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB13-2-1.5
Lab ID: 1604898-93

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:41	
Lead	**6.9**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:41	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:27	
4,4´-DDE	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:27	
4,4´-DDT	ND	2.0	0.13	1	B7A0143	01/05/2017	01/06/17 14:27	
Aldrin	ND	1.0	0.27	1	B7A0143	01/05/2017	01/06/17 14:27	
alpha-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:27	
alpha-Chlordane	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:27	
beta-BHC	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:27	
Chlordane	ND	8.5	0.90	1	B7A0143	01/05/2017	01/06/17 14:27	
delta-BHC	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:27	
Dieldrin	ND	2.0	0.25	1	B7A0143	01/05/2017	01/06/17 14:27	
Endosulfan I	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:27	
Endosulfan II	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:27	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:27	
Endrin	ND	2.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:27	
Endrin aldehyde	ND	2.0	0.28	1	B7A0143	01/05/2017	01/06/17 14:27	
Endrin ketone	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:27	
gamma-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:27	
gamma-Chlordane	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:27	
Heptachlor	ND	1.0	0.19	1	B7A0143	01/05/2017	01/06/17 14:27	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:27	
Methoxychlor	ND	5.0	0.18	1	B7A0143	01/05/2017	01/06/17 14:27	
Toxaphene	ND	50	8.2	1	B7A0143	01/05/2017	01/06/17 14:27	
Surrogate: Decachlorobiphenyl	*36.5 %*		*27 - 123*		B7A0143	01/05/2017	*01/06/17 14:27*	
Surrogate: Tetrachloro-m-xylene	*31.7 %*		*26 - 108*		B7A0143	01/05/2017	*01/06/17 14:27*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB15-1-0.5
Lab ID: 1604898-95

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**51**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:42	
Lead	**46**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:42	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:37	
4,4´-DDE	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:37	
4,4´-DDT [2C]	**0.20**	2.0	0.13	1	B7A0143	01/05/2017	01/06/17 14:37	J
Aldrin	ND	1.0	0.27	1	B7A0143	01/05/2017	01/06/17 14:37	
alpha-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:37	
alpha-Chlordane	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:37	
beta-BHC	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:37	
Chlordane	ND	8.5	0.90	1	B7A0143	01/05/2017	01/06/17 14:37	
delta-BHC	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:37	
Dieldrin	ND	2.0	0.25	1	B7A0143	01/05/2017	01/06/17 14:37	
Endosulfan I	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:37	
Endosulfan II	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:37	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:37	
Endrin	ND	2.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:37	
Endrin aldehyde	ND	2.0	0.28	1	B7A0143	01/05/2017	01/06/17 14:37	
Endrin ketone	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:37	
gamma-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:37	
gamma-Chlordane	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:37	
Heptachlor	ND	1.0	0.19	1	B7A0143	01/05/2017	01/06/17 14:37	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:37	
Methoxychlor	ND	5.0	0.18	1	B7A0143	01/05/2017	01/06/17 14:37	
Toxaphene	ND	50	8.2	1	B7A0143	01/05/2017	01/06/17 14:37	
Surrogate: Decachlorobiphenyl	*42.2 %*		*27 - 123*		B7A0143	01/05/2017	*01/06/17 14:37*	
Surrogate: Tetrachloro-m-xylene	*52.4 %*		*26 - 108*		B7A0143	01/05/2017	*01/06/17 14:37*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB15-1-1.5
Lab ID: 1604898-96

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**21**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:43	
Lead	**9.0**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:43	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:48	
4,4´-DDE	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:48	
4,4´-DDT	ND	2.0	0.13	1	B7A0143	01/05/2017	01/06/17 14:48	
Aldrin	ND	1.0	0.27	1	B7A0143	01/05/2017	01/06/17 14:48	
alpha-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:48	
alpha-Chlordane	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:48	
beta-BHC	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:48	
Chlordane	ND	8.5	0.90	1	B7A0143	01/05/2017	01/06/17 14:48	
delta-BHC	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:48	
Dieldrin	ND	2.0	0.25	1	B7A0143	01/05/2017	01/06/17 14:48	
Endosulfan I	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:48	
Endosulfan II	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:48	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:48	
Endrin	ND	2.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:48	
Endrin aldehyde	ND	2.0	0.28	1	B7A0143	01/05/2017	01/06/17 14:48	
Endrin ketone	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:48	
gamma-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:48	
gamma-Chlordane	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:48	
Heptachlor	ND	1.0	0.19	1	B7A0143	01/05/2017	01/06/17 14:48	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:48	
Methoxychlor	ND	5.0	0.18	1	B7A0143	01/05/2017	01/06/17 14:48	
Toxaphene	ND	50	8.2	1	B7A0143	01/05/2017	01/06/17 14:48	
Surrogate: Decachlorobiphenyl	*39.4 %*		*27 - 123*		B7A0143	01/05/2017	*01/06/17 14:48*	
Surrogate: Tetrachloro-m-xylene	*51.5 %*		*26 - 108*		B7A0143	01/05/2017	*01/06/17 14:48*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB15-2-0.5
Lab ID: 1604898-98

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.0**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:44	
Lead	**24**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:44	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:58	
4,4´-DDE	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:58	
4,4´-DDT	ND	2.0	0.13	1	B7A0143	01/05/2017	01/06/17 14:58	
Aldrin	ND	1.0	0.27	1	B7A0143	01/05/2017	01/06/17 14:58	
alpha-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:58	
alpha-Chlordane	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:58	
beta-BHC	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:58	
Chlordane	ND	8.5	0.90	1	B7A0143	01/05/2017	01/06/17 14:58	
delta-BHC	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:58	
Dieldrin	ND	2.0	0.25	1	B7A0143	01/05/2017	01/06/17 14:58	
Endosulfan I	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:58	
Endosulfan II	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 14:58	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0143	01/05/2017	01/06/17 14:58	
Endrin	ND	2.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:58	
Endrin aldehyde	ND	2.0	0.28	1	B7A0143	01/05/2017	01/06/17 14:58	
Endrin ketone	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:58	
gamma-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:58	
gamma-Chlordane	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 14:58	
Heptachlor	ND	1.0	0.19	1	B7A0143	01/05/2017	01/06/17 14:58	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 14:58	
Methoxychlor	ND	5.0	0.18	1	B7A0143	01/05/2017	01/06/17 14:58	
Toxaphene	ND	50	8.2	1	B7A0143	01/05/2017	01/06/17 14:58	
Surrogate: Decachlorobiphenyl	*35.7 %*		*27 - 123*		B7A0143	01/05/2017	*01/06/17 14:58*	
Surrogate: Tetrachloro-m-xylene	*49.0 %*		*26 - 108*		B7A0143	01/05/2017	*01/06/17 14:58*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB15-2-1.5

Lab ID: 1604898-99

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.5**	1.0	0.70	1	B7A0117	01/05/2017	01/06/17 12:45	
Lead	**12**	1.0	0.11	1	B7A0117	01/05/2017	01/06/17 12:45	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 15:09	
4,4´-DDE	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 15:09	
4,4´-DDT	ND	2.0	0.13	1	B7A0143	01/05/2017	01/06/17 15:09	
Aldrin	ND	1.0	0.27	1	B7A0143	01/05/2017	01/06/17 15:09	
alpha-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 15:09	
alpha-Chlordane	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 15:09	
beta-BHC	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 15:09	
Chlordane	ND	8.5	0.90	1	B7A0143	01/05/2017	01/06/17 15:09	
delta-BHC	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 15:09	
Dieldrin	ND	2.0	0.25	1	B7A0143	01/05/2017	01/06/17 15:09	
Endosulfan I	ND	1.0	0.21	1	B7A0143	01/05/2017	01/06/17 15:09	
Endosulfan II	ND	2.0	0.22	1	B7A0143	01/05/2017	01/06/17 15:09	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0143	01/05/2017	01/06/17 15:09	
Endrin	ND	2.0	0.23	1	B7A0143	01/05/2017	01/06/17 15:09	
Endrin aldehyde	ND	2.0	0.28	1	B7A0143	01/05/2017	01/06/17 15:09	
Endrin ketone	ND	2.0	0.20	1	B7A0143	01/05/2017	01/06/17 15:09	
gamma-BHC	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 15:09	
gamma-Chlordane	ND	1.0	0.23	1	B7A0143	01/05/2017	01/06/17 15:09	
Heptachlor	ND	1.0	0.19	1	B7A0143	01/05/2017	01/06/17 15:09	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0143	01/05/2017	01/06/17 15:09	
Methoxychlor	ND	5.0	0.18	1	B7A0143	01/05/2017	01/06/17 15:09	
Toxaphene	ND	50	8.2	1	B7A0143	01/05/2017	01/06/17 15:09	
Surrogate: Decachlorobiphenyl	*20.3 %*		*27 - 123*		B7A0143	01/05/2017	*01/06/17 15:09*	S2
Surrogate: Tetrachloro-m-xylene	*32.8 %*		*26 - 108*		B7A0143	01/05/2017	*01/06/17 15:09*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB1-1-1.0'

Lab ID: 1604898-AB

Hydrocarbon Chain Distribution by EPA 8015B (Modified) **Analyst: CR**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C8-C10	ND	10	10	10	B7A0006	12/31/2016	01/04/17 22:38	
C10-C18	ND	10	10	10	B7A0006	12/31/2016	01/04/17 22:38	
C18-C28	**39**	10	10	10	B7A0006	12/31/2016	01/04/17 22:38	
C28-C36	**130**	10	10	10	B7A0006	12/31/2016	01/04/17 22:38	
C36-C40	**120**	10	10	10	B7A0006	12/31/2016	01/04/17 22:38	
C8-C40 Total	**290**	10	10	10	B7A0006	12/31/2016	01/04/17 22:38	
Surrogate: p-Terphenyl	*0%*	*18 - 130*			B7A0006	12/31/2016	*01/04/17 22:38*	S4

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB1-1-5.0'

Lab ID: 1604898-AC

Hydrocarbon Chain Distribution by EPA 8015B (Modified) **Analyst: CR**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C8-C10	ND	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:21	
C10-C18	**1.3**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:21	
C18-C28	**4.5**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:21	
C28-C36	**11**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:21	
C36-C40	**8.7**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:21	
C8-C40 Total	**26**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:21	
Surrogate: p-Terphenyl	*68.1 %*		*18 - 130*		B7A0006	12/31/2016	*01/04/17 22:21*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EB1-1-10.0'

Lab ID: 1604898-AD

Hydrocarbon Chain Distribution by EPA 8015B (Modified) **Analyst: CR**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C8-C10	ND	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:05	
C10-C18	**1.4**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:05	
C18-C28	**2.3**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:05	
C28-C36	**1.8**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:05	
C36-C40	**1.2**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:05	
C8-C40 Total	**6.8**	1.0	1.0	1	B7A0006	12/31/2016	01/04/17 22:05	
Surrogate: p-Terphenyl	*64.8 %*		*18 - 130*		B7A0006	12/31/2016	*01/04/17 22:05*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EQB122816

Lab ID: 1604898-AE

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.010	0.0021	1	B7A0163	01/06/2017	01/09/17 09:26	
Arsenic	ND	0.010	0.0067	1	B7A0163	01/06/2017	01/09/17 09:26	
Barium	**0.0026**	0.0030	0.0008	1	B7A0163	01/06/2017	01/09/17 09:26	J
Beryllium	**0.0012**	0.0030	0.0004	1	B7A0163	01/06/2017	01/09/17 09:26	J
Cadmium	**0.0012**	0.0030	0.0002	1	B7A0163	01/06/2017	01/09/17 09:26	J
Chromium	**0.0019**	0.0030	0.0016	1	B7A0163	01/06/2017	01/09/17 09:26	J
Cobalt	**0.0014**	0.0030	0.0007	1	B7A0163	01/06/2017	01/09/17 09:26	J
Copper	**0.0034**	0.0090	0.0023	1	B7A0163	01/06/2017	01/09/17 09:26	J
Lead	**0.0034**	0.0050	0.0028	1	B7A0163	01/06/2017	01/09/17 09:26	J
Molybdenum	**0.0010**	0.0050	0.0007	1	B7A0163	01/06/2017	01/09/17 09:26	J
Nickel	ND	0.0050	0.0024	1	B7A0163	01/06/2017	01/09/17 09:26	
Selenium	ND	0.010	0.0034	1	B7A0163	01/06/2017	01/09/17 09:26	
Silver	**0.0008**	0.0030	0.0006	1	B7A0163	01/06/2017	01/09/17 09:26	J
Thallium	**0.0040**	0.015	0.0026	1	B7A0163	01/06/2017	01/09/17 09:26	J
Vanadium	**0.0019**	0.0030	0.0011	1	B7A0163	01/06/2017	01/09/17 09:26	J
Zinc	**0.0060**	0.025	0.0021	1	B7A0163	01/06/2017	01/09/17 09:26	J

Mercury by AA (Cold Vapor) EPA 7470A

Analyst: SB

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.20	0.13	1	B7A0170	01/06/2017	01/06/17 16:07	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
4,4´-DDE	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
4,4´-DDT	ND	0.05	0.004	1	B7A0037	01/03/2017	01/03/17 16:40	
Aldrin	ND	0.02	0.004	1	B7A0037	01/03/2017	01/03/17 16:40	
alpha-BHC	ND	0.02	0.004	1	B7A0037	01/03/2017	01/03/17 16:40	
alpha-Chlordane	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
beta-BHC	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
Chlordane	ND	0.25	0.03	1	B7A0037	01/03/2017	01/03/17 16:40	
delta-BHC	ND	0.02	0.004	1	B7A0037	01/03/2017	01/03/17 16:40	
Dieldrin	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Client Sample ID EQB122816
Lab ID: 1604898-AE

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Endosulfan I	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
Endosulfan II	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
Endosulfan sulfate	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
Endrin	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
Endrin aldehyde	ND	0.05	0.006	1	B7A0037	01/03/2017	01/03/17 16:40	
Endrin ketone	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
gamma-BHC	ND	0.02	0.004	1	B7A0037	01/03/2017	01/03/17 16:40	
gamma-Chlordane	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
Heptachlor	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
Heptachlor epoxide	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 16:40	
Methoxychlor	ND	0.25	0.004	1	B7A0037	01/03/2017	01/03/17 16:40	
Toxaphene	ND	2.5	0.23	1	B7A0037	01/03/2017	01/03/17 16:40	
Surrogate: Decachlorobiphenyl	*21.0 %*		*7 - 127*		B7A0037	01/03/2017	*01/03/17 16:40*	
Surrogate: Tetrachloro-m-xylene	*21.3 %*		*14 - 122*		B7A0037	01/03/2017	*01/03/17 16:40*	

Polychlorinated Biphenyls by EPA 8082

Analyst: RL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	0.50	0.06	1	B7A0037	01/03/2017	01/03/17 23:45	
Aroclor 1221	ND	1.0	0.06	1	B7A0037	01/03/2017	01/03/17 23:45	
Aroclor 1232	ND	0.50	0.06	1	B7A0037	01/03/2017	01/03/17 23:45	
Aroclor 1242	ND	0.50	0.06	1	B7A0037	01/03/2017	01/03/17 23:45	
Aroclor 1248	ND	0.50	0.06	1	B7A0037	01/03/2017	01/03/17 23:45	
Aroclor 1254	ND	0.50	0.06	1	B7A0037	01/03/2017	01/03/17 23:45	
Aroclor 1260	ND	0.50	0.06	1	B7A0037	01/03/2017	01/03/17 23:45	
Aroclor 1262	ND	0.50	0.06	1	B7A0037	01/03/2017	01/03/17 23:45	
Aroclor 1268	ND	0.50	0.06	1	B7A0037	01/03/2017	01/03/17 23:45	
Surrogate: Decachlorobiphenyl	*32.1 %*		*7 - 127*		B7A0037	01/03/2017	*01/03/17 23:45*	
Surrogate: Tetrachloro-m-xylene	*30.3 %*		*14 - 122*		B7A0037	01/03/2017	*01/03/17 23:45*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0113 - EPA 3050B_S									
Blank (B7A0113-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0113-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	46.0135	1.0	50.0000		92.0	80 - 120			
Lead	47.5791	1.0	50.0000		95.2	80 - 120			
Duplicate (B7A0113-DUP1)		**Source: 1604898-01**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	2.00522	1.0		1.69899	NR		16.5	20	
Lead	6.56596	1.0		16.6474	NR		86.9	20	R
Matrix Spike (B7A0113-MS1)		**Source: 1604898-01**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	105.374	1.0	125.000	1.69899	82.9	59 - 103			
Lead	123.036	1.0	125.000	16.6474	85.1	34 - 129			
Matrix Spike Dup (B7A0113-MSD1)		**Source: 1604898-01**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	90.6519	1.0	125.000	1.69899	71.2	59 - 103	15.0	20	
Lead	102.365	1.0	125.000	16.6474	68.6	34 - 129	18.3	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0114 - EPA 3050B_S									
Blank (B7A0114-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0114-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	44.6483	1.0	50.0000		89.3	80 - 120			
Lead	46.2692	1.0	50.0000		92.5	80 - 120			
Duplicate (B7A0114-DUP1)		**Source: 1604898-20**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	1.85557	1.0		1.79616	NR		3.25	20	
Lead	10.8657	1.0		6.72316	NR		47.1	20	R
Matrix Spike (B7A0114-MS1)		**Source: 1604898-20**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	99.1494	1.0	125.000	1.79616	77.9	59 - 103			
Lead	106.388	1.0	125.000	6.72316	79.7	34 - 129			
Matrix Spike Dup (B7A0114-MSD1)		**Source: 1604898-20**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	100.096	1.0	125.000	1.79616	78.6	59 - 103	0.950	20	
Lead	116.880	1.0	125.000	6.72316	88.1	34 - 129	9.40	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0115 - EPA 3050B_S									
Blank (B7A0115-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0115-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	44.6327	1.0	50.0000		89.3	80 - 120			
Lead	45.7246	1.0	50.0000		91.4	80 - 120			
Duplicate (B7A0115-DUP1)		**Source: 1604898-39**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	7.29574	1.0		6.71409	NR		8.30	20	
Lead	36.1407	1.0		24.5774	NR		38.1	20	R
Matrix Spike (B7A0115-MS1)		**Source: 1604898-39**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	93.2590	1.0	125.000	6.71409	69.2	59 - 103			
Lead	106.197	1.0	125.000	24.5774	65.3	34 - 129			
Matrix Spike Dup (B7A0115-MSD1)		**Source: 1604898-39**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	91.6198	1.0	125.000	6.71409	67.9	59 - 103	1.77	20	
Lead	103.246	1.0	125.000	24.5774	62.9	34 - 129	2.82	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0116 - EPA 3050B_S									
Blank (B7A0116-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0116-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	45.4814	1.0	50.0000		91.0	80 - 120			
Lead	46.5640	1.0	50.0000		93.1	80 - 120			
Duplicate (B7A0116-DUP1)		**Source: 1604898-58**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	3.67371	1.0		4.19857	NR		13.3	20	
Lead	23.7618	1.0		37.4035	NR		44.6	20	R
Matrix Spike (B7A0116-MS1)		**Source: 1604898-58**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	104.822	1.0	125.000	4.19857	80.5	59 - 103			
Lead	121.747	1.0	125.000	37.4035	67.5	34 - 129			
Matrix Spike Dup (B7A0116-MSD1)		**Source: 1604898-58**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	100.382	1.0	125.000	4.19857	76.9	59 - 103	4.33	20	
Lead	119.915	1.0	125.000	37.4035	66.0	34 - 129	1.52	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0117 - EPA 3050B_S									
Blank (B7A0117-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0117-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	47.4365	1.0	50.0000		94.9	80 - 120			
Lead	48.6346	1.0	50.0000		97.3	80 - 120			
Duplicate (B7A0117-DUP1)		**Source: 1604898-86**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	2.96987	1.0		2.63180	NR		12.1	20	
Lead	56.1066	1.0		46.9436	NR		17.8	20	
Matrix Spike (B7A0117-MS1)		**Source: 1604898-86**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	94.8628	1.0	125.000	2.63180	73.8	59 - 103			
Lead	136.445	1.0	125.000	46.9436	71.6	34 - 129			
Matrix Spike Dup (B7A0117-MSD1)		**Source: 1604898-86**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	101.893	1.0	125.000	2.63180	79.4	59 - 103	7.15	20	
Lead	153.653	1.0	125.000	46.9436	85.4	34 - 129	11.9	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0123 - EPA 3050B_S									
Blank (B7A0123-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				
LCS (B7A0123-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Antimony	47.5600	2.0	50.0000		95.1	80 - 120			
Arsenic	46.4033	1.0	50.0000		92.8	80 - 120			
Barium	49.8898	1.0	50.0000		99.8	80 - 120			
Beryllium	47.7046	1.0	50.0000		95.4	80 - 120			
Cadmium	47.3256	1.0	50.0000		94.7	80 - 120			
Chromium	50.1876	1.0	50.0000		100	80 - 120			
Cobalt	50.1285	1.0	50.0000		100	80 - 120			
Copper	50.2058	2.0	50.0000		100	80 - 120			
Lead	47.6765	1.0	50.0000		95.4	80 - 120			
Molybdenum	48.7765	1.0	50.0000		97.6	80 - 120			
Nickel	48.4584	1.0	50.0000		96.9	80 - 120			
Selenium	43.9646	1.0	50.0000		87.9	80 - 120			
Silver	47.3540	1.0	50.0000		94.7	80 - 120			
Thallium	46.7178	1.0	50.0000		93.4	80 - 120			
Vanadium	51.7352	1.0	50.0000		103	80 - 120			
Zinc	46.3722	1.0	50.0000		92.7	80 - 120			
Duplicate (B7A0123-DUP1)			**Source: 1604898-79**	Prepared: 1/5/2017 Analyzed: 1/6/2017					
Antimony	ND	2.0		1.45209	NR			20	
Arsenic	2.17197	1.0		2.33295	NR		7.15	20	
Barium	129.673	1.0		128.526	NR		0.888	20	
Beryllium	0.309333	1.0		0.297248	NR		3.98	20	J
Cadmium	ND	1.0		ND	NR			20	
Chromium	13.7955	1.0		13.8404	NR		0.325	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0123 - EPA 3050B_S (continued)									
Duplicate (B7A0123-DUP1) - Continued		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Cobalt	8.26077	1.0		7.97670	NR		3.50	20	
Lead	122.162	1.0		245.100	NR		66.9	20	R
Molybdenum	ND	1.0		ND	NR			20	
Nickel	13.6912	1.0		13.4252	NR		1.96	20	
Selenium	ND	1.0		ND	NR			20	
Silver	ND	1.0		0.078191	NR			20	
Thallium	ND	1.0		ND	NR			20	
Vanadium	26.1188	1.0		25.9975	NR		0.466	20	
Zinc	165.354	1.0		151.158	NR		8.97	20	
Duplicate (B7A0123-DUP2)		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Antimony	ND	10		ND	NR			20	
Copper	4686.75	10		4987.02	NR		6.21	20	
Matrix Spike (B7A0123-MS1)		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Antimony	90.2532	2.0	125.000	1.45209	71.0	34 - 103			
Arsenic	97.4804	1.0	125.000	2.33295	76.1	59 - 103			
Barium	231.454	1.0	125.000	128.526	82.3	30 - 134			
Beryllium	97.0308	1.0	125.000	0.297248	77.4	62 - 105			
Cadmium	93.6666	1.0	125.000	ND	74.9	53 - 102			
Chromium	120.564	1.0	125.000	13.8404	85.4	51 - 111			
Cobalt	99.5542	1.0	125.000	7.97670	73.3	55 - 105			
Lead	157.632	1.0	125.000	245.100	-70.0	34 - 129			M1
Molybdenum	93.9434	1.0	125.000	ND	75.2	57 - 105			
Nickel	111.456	1.0	125.000	13.4252	78.4	49 - 109			
Selenium	89.1810	1.0	125.000	ND	71.3	57 - 99			
Silver	106.148	1.0	125.000	0.078191	84.9	64 - 105			
Thallium	89.5473	1.0	125.000	ND	71.6	46 - 105			
Vanadium	136.897	1.0	125.000	25.9975	88.7	60 - 109			
Zinc	230.714	1.0	250.000	151.158	31.8	29 - 122			
Matrix Spike (B7A0123-MS2)		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Copper	2306.11	10	125.000	4987.02	-2140	53 - 126			M1
Matrix Spike Dup (B7A0123-MSD1)		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Antimony	83.8592	2.0	125.000	1.45209	65.9	34 - 103	7.34	20	
Arsenic	92.1766	1.0	125.000	2.33295	71.9	59 - 103	5.59	20	
Barium	216.978	1.0	125.000	128.526	70.8	30 - 134	6.46	20	
Beryllium	93.6104	1.0	125.000	0.297248	74.7	62 - 105	3.59	20	
Cadmium	85.5222	1.0	125.000	ND	68.4	53 - 102	9.09	20	
Chromium	110.086	1.0	125.000	13.8404	77.0	51 - 111	9.09	20	
Cobalt	98.3516	1.0	125.000	7.97670	72.3	55 - 105	1.22	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0123 - EPA 3050B_S (continued)									
Matrix Spike Dup (B7A0123-MSD1) - Continued		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Lead	135.644	1.0	125.000	245.100	-87.6	34 - 129	15.0	20	M1
Molybdenum	92.9165	1.0	125.000	ND	74.3	57 - 105	1.10	20	
Nickel	103.048	1.0	125.000	13.4252	71.7	49 - 109	7.84	20	
Selenium	84.3855	1.0	125.000	ND	67.5	57 - 99	5.53	20	
Silver	96.3492	1.0	125.000	0.078191	77.0	64 - 105	9.68	20	
Thallium	82.6868	1.0	125.000	ND	66.1	46 - 105	7.97	20	
Vanadium	125.998	1.0	125.000	25.9975	80.0	60 - 109	8.29	20	
Zinc	194.449	1.0	250.000	151.158	17.3	29 - 122	17.1	20	M1
Matrix Spike Dup (B7A0123-MSD2)		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Copper	1436.78	10	125.000	4987.02	-2840	53 - 126	46.5	20	M1, R

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0163 - EPA 3010A_W									
Blank (B7A0163-BLK1)				Prepared: 1/6/2017 Analyzed: 1/6/2017					
Antimony	0.003663	0.010			NR				J
Arsenic	ND	0.010			NR				
Barium	ND	0.0030			NR				
Beryllium	ND	0.0030			NR				
Cadmium	ND	0.0030			NR				
Chromium	ND	0.0030			NR				
Cobalt	ND	0.0030			NR				
Copper	ND	0.0090			NR				
Lead	ND	0.0050			NR				
Molybdenum	ND	0.0050			NR				
Nickel	ND	0.0050			NR				
Selenium	ND	0.010			NR				
Silver	ND	0.0030			NR				
Thallium	ND	0.015			NR				
Vanadium	ND	0.0030			NR				
Zinc	0.005045	0.025			NR				J
LCS (B7A0163-BS1)				Prepared: 1/6/2017 Analyzed: 1/6/2017					
Antimony	0.956715	0.010	1.00000		95.7	80 - 120			
Arsenic	0.928320	0.010	1.00000		92.8	80 - 120			
Barium	1.00144	0.0030	1.00000		100	80 - 120			
Beryllium	0.984959	0.0030	1.00000		98.5	80 - 120			
Cadmium	0.957475	0.0030	1.00000		95.7	80 - 120			
Chromium	0.998930	0.0030	1.00000		99.9	80 - 120			
Cobalt	0.978897	0.0030	1.00000		97.9	80 - 120			
Copper	1.00978	0.0090	1.00000		101	80 - 120			
Lead	0.985200	0.0050	1.00000		98.5	80 - 120			
Molybdenum	0.978032	0.0050	1.00000		97.8	80 - 120			
Nickel	0.957771	0.0050	1.00000		95.8	80 - 120			
Selenium	0.901388	0.010	1.00000		90.1	80 - 120			
Silver	0.999111	0.0030	1.00000		99.9	80 - 120			
Thallium	0.964404	0.015	1.00000		96.4	80 - 120			
Vanadium	1.01355	0.0030	1.00000		101	80 - 120			
Zinc	0.922090	0.025	1.00000		92.2	80 - 120			
LCS Dup (B7A0163-BSD1)				Prepared: 1/6/2017 Analyzed: 1/6/2017					
Antimony	0.987423	0.010	1.00000		98.7	80 - 120	3.16	20	
Arsenic	0.962332	0.010	1.00000		96.2	80 - 120	3.60	20	
Barium	1.04844	0.0030	1.00000		105	80 - 120	4.59	20	
Beryllium	1.01800	0.0030	1.00000		102	80 - 120	3.30	20	
Cadmium	0.990213	0.0030	1.00000		99.0	80 - 120	3.36	20	
Chromium	1.03660	0.0030	1.00000		104	80 - 120	3.70	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0163 - EPA 3010A_W (continued)									
LCS Dup (B7A0163-BSD1) - Continued				Prepared: 1/6/2017 Analyzed: 1/6/2017					
Cobalt	1.01629	0.0030	1.00000		102	80 - 120	3.75	20	
Copper	1.04962	0.0090	1.00000		105	80 - 120	3.87	20	
Lead	1.00868	0.0050	1.00000		101	80 - 120	2.36	20	
Molybdenum	1.01000	0.0050	1.00000		101	80 - 120	3.22	20	
Nickel	0.994488	0.0050	1.00000		99.4	80 - 120	3.76	20	
Selenium	0.921235	0.010	1.00000		92.1	80 - 120	2.18	20	
Silver	1.02659	0.0030	1.00000		103	80 - 120	2.71	20	
Thallium	0.987300	0.015	1.00000		98.7	80 - 120	2.35	20	
Vanadium	1.04759	0.0030	1.00000		105	80 - 120	3.30	20	
Zinc	0.964719	0.025	1.00000		96.5	80 - 120	4.52	20	
Duplicate (B7A0163-DUP1)		**Source: 1604898-AE**		Prepared: 1/6/2017 Analyzed: 1/6/2017					
Antimony	0.002741	0.010		ND	NR			20	J
Arsenic	ND	0.010		ND	NR			20	
Barium	0.003108	0.0030		0.002557	NR		19.4	20	
Beryllium	0.001771	0.0030		0.001183	NR		39.8	20	R, J
Cadmium	1.5234E-3	0.0030		0.001168	NR		26.4	20	R, J
Chromium	0.002510	0.0030		0.001914	NR		26.9	20	R, J
Cobalt	0.001489	0.0030		0.001434	NR		3.76	20	J
Copper	ND	0.0090		0.003371	NR			20	
Lead	ND	0.0050		0.003396	NR			20	
Molybdenum	0.001755	0.0050		0.001039	NR		51.2	20	R, J
Nickel	0.002922	0.0050		ND	NR			20	J
Selenium	0.004711	0.010		ND	NR			20	J
Silver	0.001476	0.0030		0.000768	NR		63.2	20	R, J
Thallium	ND	0.015		0.004027	NR			20	
Vanadium	ND	0.0030		0.001892	NR			20	
Zinc	0.008156	0.025		0.005993	NR		30.6	20	R, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Mercury by AA (Cold Vapor) EPA 7470A - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0170 - EPA 245.1/7470_W									
Blank (B7A0170-BLK1)				Prepared: 1/6/2017 Analyzed: 1/6/2017					
Mercury	ND	0.20			NR				
LCS (B7A0170-BS1)				Prepared: 1/6/2017 Analyzed: 1/6/2017					
Mercury	10.7788	0.20	10.0000		108	80 - 120			
LCS Dup (B7A0170-BSD1)				Prepared: 1/6/2017 Analyzed: 1/6/2017					
Mercury	10.7966	0.20	10.0000		108	80 - 120	0.165	20	
Duplicate (B7A0170-DUP1)		**Source: 1604898-AE**		Prepared: 1/6/2017 Analyzed: 1/6/2017					
Mercury	ND	0.20		ND	NR			20	
Post Spike (B7A0170-PS1)		**Source: 1604898-AE**		Prepared: 1/6/2017 Analyzed: 1/6/2017					
Mercury	10.6127		10.0000	-0.003611	106	85 - 115			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0119 - EPA 7471_S									
Blank (B7A0119-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Mercury	ND	0.10			NR				
LCS (B7A0119-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Mercury	0.816633	0.10	0.833333		98.0	80 - 120			
Duplicate (B7A0119-DUP1)		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Mercury	0.033886	0.10		0.039532	NR		15.4	20	J
Matrix Spike (B7A0119-MS1)		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Mercury	0.880354	0.10	0.833333	0.039532	101	70 - 130			
Matrix Spike Dup (B7A0119-MSD1)		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Mercury	0.883707	0.10	0.833333	0.039532	101	70 - 130	0.380	20	
Post Spike (B7A0119-PS1)		**Source: 1604898-79**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Mercury	0.006029		5.00000E-3	0.000474	111	85 - 115			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0006 - GCSEMI_DRO_LL_S									
Blank (B7A0006-BLK1)					Prepared: 12/31/2016 Analyzed: 1/4/2017				
C8-C10	ND	1.0			NR				
C10-C18	ND	1.0			NR				
C18-C28	ND	1.0			NR				
C28-C36	ND	1.0			NR				
C36-C40	ND	1.0			NR				
C8-C40 Total	ND	1.0			NR				
Surrogate: p-Terphenyl	*2.291*		*2.66667*		*85.9*	*18 - 130*			
LCS (B7A0006-BS1)					Prepared: 12/31/2016 Analyzed: 1/4/2017				
DRO	26.3717	1.0	33.3333		79.1	34 - 120			
Surrogate: p-Terphenyl	*2.483*		*2.66667*		*93.1*	*18 - 130*			
Duplicate (B7A0006-DUP1)		**Source: 1604898-AD**			Prepared: 12/31/2016 Analyzed: 1/4/2017				
DRO	3.91800	1.0		3.80700	NR		2.87	20	
Surrogate: p-Terphenyl	*1.828*		*2.66667*		*68.5*	*18 - 130*			
Duplicate (B7A0006-DUP2)		**Source: 1604882-03**			Prepared: 12/31/2016 Analyzed: 1/4/2017				
DRO	7.27000	1.0		4.59800	NR		45.0	20	R
Surrogate: p-Terphenyl	*2.242*		*2.66667*		*84.1*	*18 - 130*			
Matrix Spike (B7A0006-MS1)		**Source: 1604882-03**			Prepared: 12/31/2016 Analyzed: 1/4/2017				
DRO	24.7073	1.0	33.3333	4.59800	60.3	12 - 132			
Surrogate: p-Terphenyl	*1.787*		*2.66667*		*67.0*	*18 - 130*			
Matrix Spike Dup (B7A0006-MSD1)		**Source: 1604882-03**			Prepared: 12/31/2016 Analyzed: 1/4/2017				
DRO	24.5153	1.0	33.3333	4.59800	59.8	12 - 132	0.780	20	
Surrogate: p-Terphenyl	*2.113*		*2.66667*		*79.2*	*18 - 130*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0037 - GCSEMI_PCB/PEST_W									
Blank (B7A0037-BLK1)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
4,4´-DDD	ND	0.05			NR				
4,4´-DDD [2C]	ND	0.05			NR				
4,4´-DDE	ND	0.05			NR				
4,4´-DDE [2C]	ND	0.05			NR				
4,4´-DDT	ND	0.05			NR				
4,4´-DDT [2C]	ND	0.05			NR				
Aldrin	ND	0.02			NR				
Aldrin [2C]	ND	0.02			NR				
alpha-BHC	ND	0.02			NR				
alpha-BHC [2C]	ND	0.02			NR				
alpha-Chlordane	ND	0.02			NR				
alpha-Chlordane [2C]	ND	0.02			NR				
beta-BHC	ND	0.02			NR				
beta-BHC [2C]	ND	0.02			NR				
Chlordane	ND	0.25			NR				
Chlordane [2C]	ND	0.25			NR				
delta-BHC	ND	0.02			NR				
delta-BHC [2C]	ND	0.02			NR				
Dieldrin	ND	0.05			NR				
Dieldrin [2C]	ND	0.05			NR				
Endosulfan I	ND	0.02			NR				
Endosulfan I [2C]	ND	0.02			NR				
Endosulfan II	ND	0.05			NR				
Endosulfan II [2C]	ND	0.05			NR				
Endosulfan sulfate	ND	0.05			NR				
Endosulfan Sulfate [2C]	ND	0.05			NR				
Endrin	ND	0.05			NR				
Endrin [2C]	ND	0.05			NR				
Endrin aldehyde	ND	0.05			NR				
Endrin aldehyde [2C]	ND	0.05			NR				
Endrin ketone	ND	0.05			NR				
Endrin ketone [2C]	ND	0.05			NR				
gamma-BHC	ND	0.02			NR				
gamma-BHC [2C]	ND	0.02			NR				
gamma-Chlordane	ND	0.02			NR				
gamma-Chlordane [2C]	ND	0.02			NR				
Heptachlor	ND	0.02			NR				
Heptachlor [2C]	ND	0.02			NR				
Heptachlor epoxide	ND	0.02			NR				
Heptachlor epoxide [2C]	ND	0.02			NR				
Methoxychlor	ND	0.25			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0037 - GCSEMI_PCB/PEST_W (continued)									
Blank (B7A0037-BLK1) - Continued				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Methoxychlor [2C]	ND	0.25			NR				
Toxaphene	ND	2.5			NR				
Toxaphene [2C]	ND	2.5			NR				
Surrogate: Decachlorobiphenyl	*0.2658*		*0.500000*		*53.2*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.2876*		*0.500000*		*57.5*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.2945*		*0.500000*		*58.9*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.2956*		*0.500000*		*59.1*	*14 - 122*			
LCS (B7A0037-BS1)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
4,4´-DDD	0.363180	0.05	0.500000		72.6	59 - 109			
4,4´-DDD [2C]	0.360310	0.05	0.500000		72.1	59 - 109			
4,4´-DDE	0.279925	0.05	0.500000		56.0	63 - 101			L2
4,4´-DDE [2C]	0.279715	0.05	0.500000		55.9	63 - 101			L2
4,4´-DDT	0.254690	0.05	0.500000		50.9	36 - 96			
4,4´-DDT [2C]	0.259245	0.05	0.500000		51.8	36 - 96			
Aldrin	0.287915	0.02	0.500000		57.6	64 - 96			L2
Aldrin [2C]	0.285170	0.02	0.500000		57.0	64 - 96			L2
alpha-BHC	0.347050	0.02	0.500000		69.4	63 - 92			
alpha-BHC [2C]	0.351840	0.02	0.500000		70.4	63 - 92			
alpha-Chlordane	0.313465	0.02	0.500000		62.7	63 - 101			L2
alpha-Chlordane [2C]	0.305240	0.02	0.500000		61.0	63 - 101			L2
beta-BHC	0.354215	0.02	0.500000		70.8	58 - 95			
beta-BHC [2C]	0.355230	0.02	0.500000		71.0	58 - 95			
delta-BHC	0.299150	0.02	0.500000		59.8	37 - 107			
delta-BHC [2C]	0.305860	0.02	0.500000		61.2	37 - 107			
Dieldrin	0.349840	0.05	0.500000		70.0	62 - 102			
Dieldrin [2C]	0.337915	0.05	0.500000		67.6	62 - 102			
Endosulfan I	0.336470	0.02	0.500000		67.3	61 - 97			
Endosulfan I [2C]	0.319660	0.02	0.500000		63.9	61 - 97			
Endosulfan II	0.352055	0.05	0.500000		70.4	61 - 103			
Endosulfan II [2C]	0.339880	0.05	0.500000		68.0	61 - 103			
Endosulfan sulfate	0.339570	0.05	0.500000		67.9	60 - 112			
Endosulfan Sulfate [2C]	0.339125	0.05	0.500000		67.8	60 - 112			
Endrin	0.366235	0.05	0.500000		73.2	62 - 103			
Endrin [2C]	0.354760	0.05	0.500000		71.0	62 - 103			
Endrin aldehyde	0.350885	0.05	0.500000		70.2	64 - 116			
Endrin aldehyde [2C]	0.322485	0.05	0.500000		64.5	64 - 116			
Endrin ketone	0.354465	0.05	0.500000		70.9	56 - 113			
Endrin ketone [2C]	0.373545	0.05	0.500000		74.7	56 - 113			
gamma-BHC	0.367685	0.02	0.500000		73.5	64 - 95			
gamma-BHC [2C]	0.365640	0.02	0.500000		73.1	64 - 95			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0037 - GCSEMI_PCB/PEST_W (continued)									
LCS (B7A0037-BS1) - Continued				Prepared: 1/3/2017 Analyzed: 1/3/2017					
gamma-Chlordane	0.303435	0.02	0.500000		60.7	64 - 99			L2
gamma-Chlordane [2C]	0.299285	0.02	0.500000		59.9	64 - 99			L2
Heptachlor	0.306535	0.02	0.500000		61.3	64 - 93			L2
Heptachlor [2C]	0.300800	0.02	0.500000		60.2	64 - 93			L2
Heptachlor epoxide	0.331790	0.02	0.500000		66.4	65 - 98			
Heptachlor epoxide [2C]	0.324435	0.02	0.500000		64.9	65 - 98			L2
Methoxychlor	0.288520	0.25	0.500000		57.7	0 - 141			
Methoxychlor [2C]	0.302515	0.25	0.500000		60.5	0 - 141			
Surrogate: Decachlorobiphenyl	*0.2465*		*0.500000*		*49.3*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.2668*		*0.500000*		*53.4*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.3115*		*0.500000*		*62.3*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3277*		*0.500000*		*65.5*	*14 - 122*			
LCS Dup (B7A0037-BSD1)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
4,4´-DDD	0.399375	0.05	0.500000		79.9	59 - 109	9.49	20	
4,4´-DDD [2C]	0.403410	0.05	0.500000		80.7	59 - 109	11.3	20	
4,4´-DDE	0.317680	0.05	0.500000		63.5	63 - 101	12.6	20	
4,4´-DDE [2C]	0.315940	0.05	0.500000		63.2	63 - 101	12.2	20	
4,4´-DDT	0.268815	0.05	0.500000		53.8	36 - 96	5.40	20	
4,4´-DDT [2C]	0.267385	0.05	0.500000		53.5	36 - 96	3.09	20	
Aldrin	0.321890	0.02	0.500000		64.4	64 - 96	11.1	20	
Aldrin [2C]	0.320935	0.02	0.500000		64.2	64 - 96	11.8	20	
alpha-BHC	0.363535	0.02	0.500000		72.7	63 - 92	4.64	20	
alpha-BHC [2C]	0.368980	0.02	0.500000		73.8	63 - 92	4.76	20	
alpha-Chlordane	0.341235	0.02	0.500000		68.2	63 - 101	8.48	20	
alpha-Chlordane [2C]	0.335460	0.02	0.500000		67.1	63 - 101	9.43	20	
beta-BHC	0.370150	0.02	0.500000		74.0	58 - 95	4.40	20	
beta-BHC [2C]	0.372655	0.02	0.500000		74.5	58 - 95	4.79	20	
delta-BHC	0.313370	0.02	0.500000		62.7	37 - 107	4.64	20	
delta-BHC [2C]	0.320555	0.02	0.500000		64.1	37 - 107	4.69	20	
Dieldrin	0.371515	0.05	0.500000		74.3	62 - 102	6.01	20	
Dieldrin [2C]	0.361385	0.05	0.500000		72.3	62 - 102	6.71	20	
Endosulfan I	0.355665	0.02	0.500000		71.1	61 - 97	5.55	20	
Endosulfan I [2C]	0.344145	0.02	0.500000		68.8	61 - 97	7.38	20	
Endosulfan II	0.365630	0.05	0.500000		73.1	61 - 103	3.78	20	
Endosulfan II [2C]	0.356080	0.05	0.500000		71.2	61 - 103	4.66	20	
Endosulfan sulfate	0.357610	0.05	0.500000		71.5	60 - 112	5.18	20	
Endosulfan Sulfate [2C]	0.353790	0.05	0.500000		70.8	60 - 112	4.23	20	
Endrin	0.379125	0.05	0.500000		75.8	62 - 103	3.46	20	
Endrin [2C]	0.375285	0.05	0.500000		75.1	62 - 103	5.62	20	
Endrin aldehyde	0.374390	0.05	0.500000		74.9	64 - 116	6.48	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0037 - GCSEMI_PCB/PEST_W (continued)									
LCS Dup (B7A0037-BSD1) - Continued				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Endrin aldehyde [2C]	0.355655	0.05	0.500000		71.1	64 - 116	9.78	20	
Endrin ketone	0.378335	0.05	0.500000		75.7	56 - 113	6.51	20	
Endrin ketone [2C]	0.382420	0.05	0.500000		76.5	56 - 113	2.35	20	
gamma-BHC	0.386310	0.02	0.500000		77.3	64 - 95	4.94	20	
gamma-BHC [2C]	0.384415	0.02	0.500000		76.9	64 - 95	5.01	20	
gamma-Chlordane	0.331655	0.02	0.500000		66.3	64 - 99	8.89	20	
gamma-Chlordane [2C]	0.330240	0.02	0.500000		66.0	64 - 99	9.83	20	
Heptachlor	0.330190	0.02	0.500000		66.0	64 - 93	7.43	20	
Heptachlor [2C]	0.325510	0.02	0.500000		65.1	64 - 93	7.89	20	
Heptachlor epoxide	0.352610	0.02	0.500000		70.5	65 - 98	6.08	20	
Heptachlor epoxide [2C]	0.345600	0.02	0.500000		69.1	65 - 98	6.32	20	
Methoxychlor	0.292580	0.25	0.500000		58.5	0 - 141	1.40	20	
Methoxychlor [2C]	0.304260	0.25	0.500000		60.9	0 - 141	0.575	20	
Surrogate: Decachlorobiphenyl	*0.2805*		*0.500000*		*56.1*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.3145*		*0.500000*		*62.9*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.3161*		*0.500000*		*63.2*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3376*		*0.500000*		*67.5*	*14 - 122*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0091 - GCSEMI_PCB/PEST_S									
Blank (B7A0091-BLK1)				Prepared: 1/4/2017 Analyzed: 1/5/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0091 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0091-BLK1) - Continued					Prepared: 1/4/2017 Analyzed: 1/5/2017				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*10.83*		*16.6667*		*65.0*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*11.00*		*16.6667*		*66.0*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*11.36*		*16.6667*		*68.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.58*		*16.6667*		*69.5*	*26 - 108*			
LCS (B7A0091-BS1)					Prepared: 1/4/2017 Analyzed: 1/5/2017				
4,4´-DDD	13.4210	2.0	16.6667		80.5	53 - 125			
4,4´-DDD [2C]	13.4800	2.0	16.6667		80.9	53 - 125			
4,4´-DDE	12.9390	2.0	16.6667		77.6	54 - 113			
4,4´-DDE [2C]	12.8242	2.0	16.6667		76.9	54 - 113			
4,4´-DDT	14.6257	2.0	16.6667		87.8	25 - 127			
4,4´-DDT [2C]	13.6898	2.0	16.6667		82.1	25 - 127			
Aldrin	12.6750	1.0	16.6667		76.0	59 - 107			
Aldrin [2C]	12.4140	1.0	16.6667		74.5	59 - 107			
alpha-BHC	12.2088	1.0	16.6667		73.3	59 - 104			
alpha-BHC [2C]	12.1145	1.0	16.6667		72.7	59 - 104			
alpha-Chlordane	12.9707	1.0	16.6667		77.8	54 - 110			
alpha-Chlordane [2C]	12.5200	1.0	16.6667		75.1	54 - 110			
beta-BHC	12.2423	1.0	16.6667		73.5	57 - 103			
beta-BHC [2C]	12.0647	1.0	16.6667		72.4	57 - 103			
delta-BHC	9.64583	1.0	16.6667		57.9	16 - 120			
delta-BHC [2C]	9.62217	1.0	16.6667		57.7	16 - 120			
Dieldrin	13.5920	2.0	16.6667		81.6	61 - 109			
Dieldrin [2C]	12.9787	2.0	16.6667		77.9	61 - 109			
Endosulfan I	12.9032	1.0	16.6667		77.4	60 - 106			
Endosulfan I [2C]	12.2547	1.0	16.6667		73.5	60 - 106			
Endosulfan II	12.8397	2.0	16.6667		77.0	59 - 108			
Endosulfan II [2C]	12.4313	2.0	16.6667		74.6	59 - 108			
Endosulfan sulfate	11.9318	2.0	16.6667		71.6	54 - 110			
Endosulfan Sulfate [2C]	11.4298	2.0	16.6667		68.6	54 - 110			
Endrin	14.3170	2.0	16.6667		85.9	63 - 112			
Endrin [2C]	13.8930	2.0	16.6667		83.4	63 - 112			
Endrin aldehyde	13.0938	2.0	16.6667		78.6	64 - 119			
Endrin aldehyde [2C]	12.5973	2.0	16.6667		75.6	64 - 119			
Endrin ketone	12.0700	2.0	16.6667		72.4	54 - 115			
Endrin ketone [2C]	11.4790	2.0	16.6667		68.9	54 - 115			
gamma-BHC	12.8507	1.0	16.6667		77.1	60 - 107			
gamma-BHC [2C]	12.6325	1.0	16.6667		75.8	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0091 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0091-BS1) - Continued				Prepared: 1/4/2017 Analyzed: 1/5/2017					
gamma-Chlordane	12.6602	1.0	16.6667		76.0	57 - 106			
gamma-Chlordane [2C]	12.3807	1.0	16.6667		74.3	57 - 106			
Heptachlor	12.7678	1.0	16.6667		76.6	54 - 114			
Heptachlor [2C]	12.8133	1.0	16.6667		76.9	54 - 114			
Heptachlor epoxide	12.6465	1.0	16.6667		75.9	61 - 106			
Heptachlor epoxide [2C]	12.2762	1.0	16.6667		73.7	61 - 106			
Methoxychlor	14.2070	5.0	16.6667		85.2	18 - 138			
Methoxychlor [2C]	13.7158	5.0	16.6667		82.3	18 - 138			
Surrogate: Decachlorobiphenyl	*11.70*		*16.6667*		*70.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*11.78*		*16.6667*		*70.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*12.17*		*16.6667*		*73.0*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.98*		*16.6667*		*77.9*	*26 - 108*			
Duplicate (B7A0091-DUP1)			**Source: 1604898-12**	Prepared: 1/4/2017 Analyzed: 1/5/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0091 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0091-DUP1) - Continued		**Source: 1604898-12**		Prepared: 1/4/2017 Analyzed: 1/5/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*11.91*		*16.6667*		*71.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*12.49*		*16.6667*		*74.9*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*11.30*		*16.6667*		*67.8*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.89*		*16.6667*		*71.3*	*26 - 108*			
Matrix Spike (B7A0091-MS1)		**Source: 1604898-12**		Prepared: 1/4/2017 Analyzed: 1/5/2017					
4,4´-DDD	7.27833	2.0	16.6667	ND	43.7	25 - 141			
4,4´-DDD [2C]	7.60950	2.0	16.6667	ND	45.7	25 - 141			
4,4´-DDE	9.58250	2.0	16.6667	ND	57.5	22 - 141			
4,4´-DDE [2C]	9.84250	2.0	16.6667	ND	59.1	22 - 141			
4,4´-DDT	9.94267	2.0	16.6667	ND	59.7	15 - 136			
4,4´-DDT [2C]	10.0100	2.0	16.6667	ND	60.1	15 - 136			
Aldrin	9.35800	1.0	16.6667	ND	56.1	33 - 118			
Aldrin [2C]	9.62017	1.0	16.6667	ND	57.7	33 - 118			
alpha-BHC	7.46100	1.0	16.6667	ND	44.8	30 - 116			
alpha-BHC [2C]	7.76700	1.0	16.6667	ND	46.6	30 - 116			
alpha-Chlordane	8.18817	1.0	16.6667	ND	49.1	30 - 123			
alpha-Chlordane [2C]	8.30267	1.0	16.6667	ND	49.8	30 - 123			
beta-BHC	4.05717	1.0	16.6667	ND	24.3	24 - 121			
beta-BHC [2C]	4.18267	1.0	16.6667	ND	25.1	24 - 121			
delta-BHC	1.05733	1.0	16.6667	ND	6.34	7 - 120			M2
delta-BHC [2C]	1.06150	1.0	16.6667	ND	6.37	7 - 120			M2
Dieldrin	3.10600	2.0	16.6667	ND	18.6	25 - 136			M2
Dieldrin [2C]	3.13233	2.0	16.6667	ND	18.8	25 - 136			M2
Endosulfan I	4.49667	1.0	16.6667	ND	27.0	18 - 134			
Endosulfan I [2C]	4.45633	1.0	16.6667	ND	26.7	18 - 134			
Endosulfan II	0.375333	2.0	16.6667	ND	2.25	28 - 128			M2, J
Endosulfan II [2C]	0.332167	2.0	16.6667	ND	1.99	28 - 128			M2, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0091 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0091-MS1) - Continued		**Source: 1604898-12**		Prepared: 1/4/2017 Analyzed: 1/5/2017					
Endosulfan sulfate	ND	2.0	16.6667	ND	NR	5 - 145			M2
Endosulfan Sulfate [2C]	ND	2.0	16.6667	ND	NR	5 - 145			M2
Endrin	3.62883	2.0	16.6667	ND	21.8	26 - 142			M2
Endrin [2C]	3.70867	2.0	16.6667	ND	22.3	26 - 142			M2
Endrin aldehyde	0.299333	2.0	16.6667	ND	1.80	8 - 146			M2, J
Endrin aldehyde [2C]	ND	2.0	16.6667	ND	NR	8 - 146			M2
Endrin ketone	0.377833	2.0	16.6667	ND	2.27	16 - 139			M2, J
Endrin ketone [2C]	0.356167	2.0	16.6667	ND	2.14	16 - 139			M2, J
gamma-BHC	6.83517	1.0	16.6667	ND	41.0	30 - 122			
gamma-BHC [2C]	7.00167	1.0	16.6667	ND	42.0	30 - 122			
gamma-Chlordane	8.85483	1.0	16.6667	ND	53.1	18 - 132			
gamma-Chlordane [2C]	7.35283	1.0	16.6667	ND	44.1	18 - 132			
Heptachlor	9.62450	1.0	16.6667	ND	57.7	34 - 122			
Heptachlor [2C]	9.86600	1.0	16.6667	ND	59.2	34 - 122			
Heptachlor epoxide	4.80383	1.0	16.6667	ND	28.8	21 - 135			
Heptachlor epoxide [2C]	4.84617	1.0	16.6667	ND	29.1	21 - 135			
Methoxychlor	1.17000	5.0	16.6667	ND	7.02	8 - 162			M2, J
Methoxychlor [2C]	1.20933	5.0	16.6667	ND	7.26	8 - 162			M2, J
Surrogate: Decachlorobiphenyl	*9.333*		*16.6667*		*56.0*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*9.948*		*16.6667*		*59.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*8.960*		*16.6667*		*53.8*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*10.52*		*16.6667*		*63.1*	*26 - 108*			
Matrix Spike Dup (B7A0091-MSD1)		**Source: 1604898-12**		Prepared: 1/4/2017 Analyzed: 1/5/2017					
4,4´-DDD	6.91000	2.0	16.6667	ND	41.5	25 - 141	5.19	20	
4,4´-DDD [2C]	7.21083	2.0	16.6667	ND	43.3	25 - 141	5.38	20	
4,4´-DDE	8.86500	2.0	16.6667	ND	53.2	22 - 141	7.78	20	
4,4´-DDE [2C]	9.13783	2.0	16.6667	ND	54.8	22 - 141	7.43	20	
4,4´-DDT	9.18800	2.0	16.6667	ND	55.1	15 - 136	7.89	20	
4,4´-DDT [2C]	9.36850	2.0	16.6667	ND	56.2	15 - 136	6.62	20	
Aldrin	8.66217	1.0	16.6667	ND	52.0	33 - 118	7.72	20	
Aldrin [2C]	8.97267	1.0	16.6667	ND	53.8	33 - 118	6.97	20	
alpha-BHC	6.65767	1.0	16.6667	ND	39.9	30 - 116	11.4	20	
alpha-BHC [2C]	7.01650	1.0	16.6667	ND	42.1	30 - 116	10.2	20	
alpha-Chlordane	7.56950	1.0	16.6667	ND	45.4	30 - 123	7.85	20	
alpha-Chlordane [2C]	7.70683	1.0	16.6667	ND	46.2	30 - 123	7.44	20	
beta-BHC	4.06650	1.0	16.6667	ND	24.4	24 - 121	0.230	20	
beta-BHC [2C]	4.31417	1.0	16.6667	ND	25.9	24 - 121	3.10	20	
delta-BHC	1.46667	1.0	16.6667	ND	8.80	7 - 120	32.4	20	R3
delta-BHC [2C]	1.54350	1.0	16.6667	ND	9.26	7 - 120	37.0	20	R3
Dieldrin	3.71017	2.0	16.6667	ND	22.3	25 - 136	17.7	20	M2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0091 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0091-MSD1) - Continued		**Source: 1604898-12**		Prepared: 1/4/2017 Analyzed: 1/5/2017					
Dieldrin [2C]	3.77733	2.0	16.6667	ND	22.7	25 - 136	18.7	20	M2
Endosulfan I	4.73717	1.0	16.6667	ND	28.4	18 - 134	5.21	20	
Endosulfan I [2C]	4.72400	1.0	16.6667	ND	28.3	18 - 134	5.83	20	
Endosulfan II	0.839500	2.0	16.6667	ND	5.04	28 - 128	76.4	20	M2, R3, J
Endosulfan II [2C]	0.793833	2.0	16.6667	ND	4.76	28 - 128	82.0	20	M2, R3, J
Endosulfan sulfate	0.536167	2.0	16.6667	ND	3.22	5 - 145		20	M2, J
Endosulfan Sulfate [2C]	0.541333	2.0	16.6667	ND	3.25	5 - 145		20	M2, J
Endrin	4.26950	2.0	16.6667	ND	25.6	26 - 142	16.2	20	M2
Endrin [2C]	4.32867	2.0	16.6667	ND	26.0	26 - 142	15.4	20	M2
Endrin aldehyde	0.675333	2.0	16.6667	ND	4.05	8 - 146	77.2	20	M2, R3, J
Endrin aldehyde [2C]	0.693500	2.0	16.6667	ND	4.16	8 - 146		20	M2, J
Endrin ketone	0.795333	2.0	16.6667	ND	4.77	16 - 139	71.2	20	M2, R3, J
Endrin ketone [2C]	0.818667	2.0	16.6667	ND	4.91	16 - 139	78.7	20	M2, R3, J
gamma-BHC	6.22083	1.0	16.6667	ND	37.3	30 - 122	9.41	20	
gamma-BHC [2C]	6.47183	1.0	16.6667	ND	38.8	30 - 122	7.86	20	
gamma-Chlordane	8.27067	1.0	16.6667	ND	49.6	18 - 132	6.82	20	
gamma-Chlordane [2C]	6.96667	1.0	16.6667	ND	41.8	18 - 132	5.39	20	
Heptachlor	8.89967	1.0	16.6667	ND	53.4	34 - 122	7.83	20	
Heptachlor [2C]	9.17067	1.0	16.6667	ND	55.0	34 - 122	7.31	20	
Heptachlor epoxide	4.89833	1.0	16.6667	ND	29.4	21 - 135	1.95	20	
Heptachlor epoxide [2C]	4.95933	1.0	16.6667	ND	29.8	21 - 135	2.31	20	
Methoxychlor	2.03117	5.0	16.6667	ND	12.2	8 - 162	53.8	20	R3, J
Methoxychlor [2C]	2.22333	5.0	16.6667	ND	13.3	8 - 162	59.1	20	R3, J
Surrogate: Decachlorobiphenyl	*8.944*		*16.6667*		*53.7*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*9.718*		*16.6667*		*58.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*8.290*		*16.6667*		*49.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*9.786*		*16.6667*		*58.7*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0120 - GCSEMI_PCB/PEST_S									
Blank (B7A0120-BLK1)				Prepared: 1/5/2017 Analyzed: 1/5/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0120 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0120-BLK1) - Continued					Prepared: 1/5/2017 Analyzed: 1/5/2017				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*12.38*		*16.6667*		*74.3*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*13.19*		*16.6667*		*79.2*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.12*		*16.6667*		*78.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.86*		*16.6667*		*83.1*	*26 - 108*			
LCS (B7A0120-BS1)					Prepared: 1/5/2017 Analyzed: 1/5/2017				
4,4´-DDD	13.5865	2.0	16.6667		81.5	53 - 125			
4,4´-DDD [2C]	13.1988	2.0	16.6667		79.2	53 - 125			
4,4´-DDE	13.0840	2.0	16.6667		78.5	54 - 113			
4,4´-DDE [2C]	12.7903	2.0	16.6667		76.7	54 - 113			
4,4´-DDT	15.2358	2.0	16.6667		91.4	25 - 127			
4,4´-DDT [2C]	12.4132	2.0	16.6667		74.5	25 - 127			
Aldrin	12.7150	1.0	16.6667		76.3	59 - 107			
Aldrin [2C]	12.6110	1.0	16.6667		75.7	59 - 107			
alpha-BHC	12.4080	1.0	16.6667		74.4	59 - 104			
alpha-BHC [2C]	12.3898	1.0	16.6667		74.3	59 - 104			
alpha-Chlordane	12.9743	1.0	16.6667		77.8	54 - 110			
alpha-Chlordane [2C]	12.6183	1.0	16.6667		75.7	54 - 110			
beta-BHC	12.3782	1.0	16.6667		74.3	57 - 103			
beta-BHC [2C]	12.3595	1.0	16.6667		74.2	57 - 103			
delta-BHC	10.1740	1.0	16.6667		61.0	16 - 120			
delta-BHC [2C]	10.1647	1.0	16.6667		61.0	16 - 120			
Dieldrin	13.6605	2.0	16.6667		82.0	61 - 109			
Dieldrin [2C]	13.1567	2.0	16.6667		78.9	61 - 109			
Endosulfan I	13.0685	1.0	16.6667		78.4	60 - 106			
Endosulfan I [2C]	12.5105	1.0	16.6667		75.1	60 - 106			
Endosulfan II	13.1345	2.0	16.6667		78.8	59 - 108			
Endosulfan II [2C]	12.6057	2.0	16.6667		75.6	59 - 108			
Endosulfan sulfate	12.9473	2.0	16.6667		77.7	54 - 110			
Endosulfan Sulfate [2C]	12.6928	2.0	16.6667		76.2	54 - 110			
Endrin	14.5017	2.0	16.6667		87.0	63 - 112			
Endrin [2C]	14.1297	2.0	16.6667		84.8	63 - 112			
Endrin aldehyde	13.5113	2.0	16.6667		81.1	64 - 119			
Endrin aldehyde [2C]	13.0348	2.0	16.6667		78.2	64 - 119			
Endrin ketone	13.6490	2.0	16.6667		81.9	54 - 115			
Endrin ketone [2C]	12.7333	2.0	16.6667		76.4	54 - 115			
gamma-BHC	13.0608	1.0	16.6667		78.4	60 - 107			
gamma-BHC [2C]	12.7682	1.0	16.6667		76.6	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0120 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0120-BS1) - Continued				Prepared: 1/5/2017 Analyzed: 1/5/2017					
gamma-Chlordane	12.6917	1.0	16.6667		76.2	57 - 106			
gamma-Chlordane [2C]	12.4738	1.0	16.6667		74.8	57 - 106			
Heptachlor	13.4537	1.0	16.6667		80.7	54 - 114			
Heptachlor [2C]	12.7785	1.0	16.6667		76.7	54 - 114			
Heptachlor epoxide	12.7845	1.0	16.6667		76.7	61 - 106			
Heptachlor epoxide [2C]	12.4838	1.0	16.6667		74.9	61 - 106			
Methoxychlor	14.3917	5.0	16.6667		86.4	18 - 138			
Methoxychlor [2C]	12.1485	5.0	16.6667		72.9	18 - 138			
Surrogate: Decachlorobiphenyl	*11.77*		*16.6667*		*70.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*12.24*		*16.6667*		*73.4*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*12.22*		*16.6667*		*73.3*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.05*		*16.6667*		*78.3*	*26 - 108*			
Duplicate (B7A0120-DUP1)			**Source: 1604898-33**	Prepared: 1/5/2017 Analyzed: 1/5/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0120 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0120-DUP1) - Continued		**Source: 1604898-33**		Prepared: 1/5/2017 Analyzed: 1/5/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*10.30*		*16.6667*		*61.8*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*11.01*		*16.6667*		*66.0*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*11.39*		*16.6667*		*68.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.56*		*16.6667*		*69.4*	*26 - 108*			
Matrix Spike (B7A0120-MS1)		**Source: 1604898-40**		Prepared: 1/5/2017 Analyzed: 1/5/2017					
4,4´-DDD	4.29900	2.0	16.6667	ND	25.8	25 - 141			
4,4´-DDD [2C]	4.34200	2.0	16.6667	ND	26.1	25 - 141			
4,4´-DDE	5.35417	2.0	16.6667	ND	32.1	22 - 141			
4,4´-DDE [2C]	5.21450	2.0	16.6667	ND	31.3	22 - 141			
4,4´-DDT	6.42817	2.0	16.6667	0.240000	37.1	15 - 136			
4,4´-DDT [2C]	5.64767	2.0	16.6667	0.175000	32.8	15 - 136			
Aldrin	5.44850	1.0	16.6667	ND	32.7	33 - 118			M2
Aldrin [2C]	5.38550	1.0	16.6667	ND	32.3	33 - 118			M2
alpha-BHC	4.59700	1.0	16.6667	ND	27.6	30 - 116			M2
alpha-BHC [2C]	4.97467	1.0	16.6667	ND	29.8	30 - 116			M2
alpha-Chlordane	4.80417	1.0	16.6667	ND	28.8	30 - 123			M2
alpha-Chlordane [2C]	4.80800	1.0	16.6667	ND	28.8	30 - 123			M2
beta-BHC	3.18933	1.0	16.6667	ND	19.1	24 - 121			M2
beta-BHC [2C]	3.19100	1.0	16.6667	ND	19.1	24 - 121			M2
delta-BHC	1.85933	1.0	16.6667	ND	11.2	7 - 120			
delta-BHC [2C]	1.92167	1.0	16.6667	ND	11.5	7 - 120			
Dieldrin	3.41400	2.0	16.6667	ND	20.5	25 - 136			M2
Dieldrin [2C]	3.26700	2.0	16.6667	ND	19.6	25 - 136			M2
Endosulfan I	3.79867	1.0	16.6667	ND	22.8	18 - 134			
Endosulfan I [2C]	3.60567	1.0	16.6667	ND	21.6	18 - 134			
Endosulfan II	1.55167	2.0	16.6667	ND	9.31	28 - 128			M2, J
Endosulfan II [2C]	1.51350	2.0	16.6667	ND	9.08	28 - 128			M2, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0120 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0120-MS1) - Continued		**Source: 1604898-40**		Prepared: 1/5/2017 Analyzed: 1/5/2017					
Endosulfan sulfate	1.35567	2.0	16.6667	ND	8.13	5 - 145			J
Endosulfan Sulfate [2C]	1.22667	2.0	16.6667	ND	7.36	5 - 145			J
Endrin	3.68283	2.0	16.6667	ND	22.1	26 - 142			M2
Endrin [2C]	3.66183	2.0	16.6667	ND	22.0	26 - 142			M2
Endrin aldehyde	1.26500	2.0	16.6667	ND	7.59	8 - 146			M2, J
Endrin aldehyde [2C]	1.35383	2.0	16.6667	ND	8.12	8 - 146			J
Endrin ketone	1.42050	2.0	16.6667	ND	8.52	16 - 139			M2, J
Endrin ketone [2C]	1.45433	2.0	16.6667	ND	8.73	16 - 139			M2, J
gamma-BHC	4.45817	1.0	16.6667	ND	26.7	30 - 122			M2
gamma-BHC [2C]	4.39983	1.0	16.6667	ND	26.4	30 - 122			M2
gamma-Chlordane	4.51283	1.0	16.6667	ND	27.1	18 - 132			
gamma-Chlordane [2C]	4.42633	1.0	16.6667	ND	26.6	18 - 132			
Heptachlor	5.79450	1.0	16.6667	ND	34.8	34 - 122			
Heptachlor [2C]	5.67217	1.0	16.6667	ND	34.0	34 - 122			
Heptachlor epoxide	3.86383	1.0	16.6667	ND	23.2	21 - 135			
Heptachlor epoxide [2C]	3.79367	1.0	16.6667	ND	22.8	21 - 135			
Methoxychlor	2.98867	5.0	16.6667	ND	17.9	8 - 162			J
Methoxychlor [2C]	2.69200	5.0	16.6667	ND	16.2	8 - 162			J
Surrogate: Decachlorobiphenyl	*4.940*		*16.6667*		*29.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*5.470*		*16.6667*		*32.8*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*5.358*		*16.6667*		*32.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*6.653*		*16.6667*		*39.9*	*26 - 108*			
Matrix Spike Dup (B7A0120-MSD1)		**Source: 1604898-40**		Prepared: 1/5/2017 Analyzed: 1/5/2017					
4,4´-DDD	4.76867	2.0	16.6667	ND	28.6	25 - 141	10.4	20	
4,4´-DDD [2C]	4.56183	2.0	16.6667	ND	27.4	25 - 141	4.94	20	
4,4´-DDE	5.60767	2.0	16.6667	ND	33.6	22 - 141	4.63	20	
4,4´-DDE [2C]	5.19483	2.0	16.6667	ND	31.2	22 - 141	0.378	20	
4,4´-DDT	6.56767	2.0	16.6667	0.240000	38.0	15 - 136	2.15	20	
4,4´-DDT [2C]	5.61167	2.0	16.6667	0.175000	32.6	15 - 136	0.639	20	
Aldrin	5.84267	1.0	16.6667	ND	35.1	33 - 118	6.98	20	
Aldrin [2C]	5.52950	1.0	16.6667	ND	33.2	33 - 118	2.64	20	
alpha-BHC	5.45700	1.0	16.6667	ND	32.7	30 - 116	17.1	20	
alpha-BHC [2C]	5.63617	1.0	16.6667	ND	33.8	30 - 116	12.5	20	
alpha-Chlordane	5.20567	1.0	16.6667	ND	31.2	30 - 123	8.02	20	
alpha-Chlordane [2C]	4.86883	1.0	16.6667	ND	29.2	30 - 123	1.26	20	M2
beta-BHC	3.79883	1.0	16.6667	ND	22.8	24 - 121	17.4	20	M2
beta-BHC [2C]	3.65150	1.0	16.6667	ND	21.9	24 - 121	13.5	20	M2
delta-BHC	2.15233	1.0	16.6667	ND	12.9	7 - 120	14.6	20	
delta-BHC [2C]	2.15567	1.0	16.6667	ND	12.9	7 - 120	11.5	20	
Dieldrin	3.84667	2.0	16.6667	ND	23.1	25 - 136	11.9	20	M2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0120 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0120-MSD1) - Continued		**Source: 1604898-40**		Prepared: 1/5/2017 Analyzed: 1/5/2017					
Dieldrin [2C]	3.58733	2.0	16.6667	ND	21.5	25 - 136	9.35	20	M2
Endosulfan I	4.37050	1.0	16.6667	ND	26.2	18 - 134	14.0	20	
Endosulfan I [2C]	3.90883	1.0	16.6667	ND	23.5	18 - 134	8.07	20	
Endosulfan II	1.60917	2.0	16.6667	ND	9.66	28 - 128	3.64	20	M2, J
Endosulfan II [2C]	1.42300	2.0	16.6667	ND	8.54	28 - 128	6.16	20	M2, J
Endosulfan sulfate	1.38417	2.0	16.6667	ND	8.30	5 - 145	2.08	20	J
Endosulfan Sulfate [2C]	1.20150	2.0	16.6667	ND	7.21	5 - 145	2.07	20	J
Endrin	4.19617	2.0	16.6667	ND	25.2	26 - 142	13.0	20	M2
Endrin [2C]	3.99800	2.0	16.6667	ND	24.0	26 - 142	8.78	20	M2
Endrin aldehyde	1.16950	2.0	16.6667	ND	7.02	8 - 146	7.85	20	M2, J
Endrin aldehyde [2C]	1.28600	2.0	16.6667	ND	7.72	8 - 146	5.14	20	M2, J
Endrin ketone	1.47233	2.0	16.6667	ND	8.83	16 - 139	3.58	20	M2, J
Endrin ketone [2C]	1.50650	2.0	16.6667	ND	9.04	16 - 139	3.52	20	M2, J
gamma-BHC	5.31400	1.0	16.6667	ND	31.9	30 - 122	17.5	20	
gamma-BHC [2C]	5.06567	1.0	16.6667	ND	30.4	30 - 122	14.1	20	
gamma-Chlordane	4.97583	1.0	16.6667	ND	29.9	18 - 132	9.76	20	
gamma-Chlordane [2C]	4.64817	1.0	16.6667	ND	27.9	18 - 132	4.89	20	
Heptachlor	6.30117	1.0	16.6667	ND	37.8	34 - 122	8.38	20	
Heptachlor [2C]	6.00767	1.0	16.6667	ND	36.0	34 - 122	5.74	20	
Heptachlor epoxide	4.53433	1.0	16.6667	ND	27.2	21 - 135	16.0	20	
Heptachlor epoxide [2C]	4.18717	1.0	16.6667	ND	25.1	21 - 135	9.86	20	
Methoxychlor	3.28633	5.0	16.6667	ND	19.7	8 - 162	9.49	20	J
Methoxychlor [2C]	2.90950	5.0	16.6667	ND	17.5	8 - 162	7.77	20	J
Surrogate: Decachlorobiphenyl	*5.367*		*16.6667*		*32.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*5.741*		*16.6667*		*34.4*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*5.884*		*16.6667*		*35.3*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*7.033*		*16.6667*		*42.2*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0128 - GCSEMI_PCB/PEST_S									
Blank (B7A0128-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0128 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0128-BLK1) - Continued				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*16.56*		*16.6667*		*99.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*24.20*		*16.6667*		*145*	*27 - 123*			S1
Surrogate: Tetrachloro-m-xylene	*17.25*		*16.6667*		*103*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*19.77*		*16.6667*		*119*	*26 - 108*			S1
LCS (B7A0128-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	15.5142	2.0	16.6667		93.1	53 - 125			
4,4´-DDD [2C]	15.7168	2.0	16.6667		94.3	53 - 125			
4,4´-DDE	15.5083	2.0	16.6667		93.0	54 - 113			
4,4´-DDE [2C]	16.0010	2.0	16.6667		96.0	54 - 113			
4,4´-DDT	15.0345	2.0	16.6667		90.2	25 - 127			
4,4´-DDT [2C]	15.1172	2.0	16.6667		90.7	25 - 127			
Aldrin	15.5327	1.0	16.6667		93.2	59 - 107			
Aldrin [2C]	14.8977	1.0	16.6667		89.4	59 - 107			
alpha-BHC	15.4072	1.0	16.6667		92.4	59 - 104			
alpha-BHC [2C]	15.8973	1.0	16.6667		95.4	59 - 104			
alpha-Chlordane	15.3682	1.0	16.6667		92.2	54 - 110			
alpha-Chlordane [2C]	16.1270	1.0	16.6667		96.8	54 - 110			
beta-BHC	15.5383	1.0	16.6667		93.2	57 - 103			
beta-BHC [2C]	15.4085	1.0	16.6667		92.5	57 - 103			
delta-BHC	12.4327	1.0	16.6667		74.6	16 - 120			
delta-BHC [2C]	12.3190	1.0	16.6667		73.9	16 - 120			
Dieldrin	15.5627	2.0	16.6667		93.4	61 - 109			
Dieldrin [2C]	16.2987	2.0	16.6667		97.8	61 - 109			
Endosulfan I	15.1412	1.0	16.6667		90.8	60 - 106			
Endosulfan I [2C]	15.8323	1.0	16.6667		95.0	60 - 106			
Endosulfan II	14.6868	2.0	16.6667		88.1	59 - 108			
Endosulfan II [2C]	14.9575	2.0	16.6667		89.7	59 - 108			
Endosulfan sulfate	14.1693	2.0	16.6667		85.0	54 - 110			
Endosulfan Sulfate [2C]	14.1410	2.0	16.6667		84.8	54 - 110			
Endrin	15.5423	2.0	16.6667		93.3	63 - 112			
Endrin [2C]	16.2285	2.0	16.6667		97.4	63 - 112			
Endrin aldehyde	15.8445	2.0	16.6667		95.1	64 - 119			
Endrin aldehyde [2C]	14.7718	2.0	16.6667		88.6	64 - 119			
Endrin ketone	15.6060	2.0	16.6667		93.6	54 - 115			
Endrin ketone [2C]	16.5720	2.0	16.6667		99.4	54 - 115			
gamma-BHC	15.9753	1.0	16.6667		95.9	60 - 107			
gamma-BHC [2C]	16.0053	1.0	16.6667		96.0	60 - 107			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0128 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0128-BS1) - Continued				Prepared: 1/5/2017 Analyzed: 1/6/2017					
gamma-Chlordane	15.1727	1.0	16.6667		91.0	57 - 106			
gamma-Chlordane [2C]	15.1527	1.0	16.6667		90.9	57 - 106			
Heptachlor	15.9263	1.0	16.6667		95.6	54 - 114			
Heptachlor [2C]	16.1642	1.0	16.6667		97.0	54 - 114			
Heptachlor epoxide	15.4173	1.0	16.6667		92.5	61 - 106			
Heptachlor epoxide [2C]	15.5943	1.0	16.6667		93.6	61 - 106			
Methoxychlor	15.0878	5.0	16.6667		90.5	18 - 138			
Methoxychlor [2C]	14.3118	5.0	16.6667		85.9	18 - 138			
Surrogate: Decachlorobiphenyl	*15.80*		*16.6667*		*94.8*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.67*		*16.6667*		*100*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*17.39*		*16.6667*		*104*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.44*		*16.6667*		*98.6*	*26 - 108*			
Duplicate (B7A0128-DUP1)			**Source: 1604898-42**	Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0128 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0128-DUP1) - Continued		**Source: 1604898-42**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*16.04*		*16.6667*		*96.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*17.38*		*16.6667*		*104*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*16.65*		*16.6667*		*99.9*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.30*		*16.6667*		*97.8*	*26 - 108*			
Matrix Spike (B7A0128-MS1)		**Source: 1604898-59**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	8.11883	2.0	16.6667	ND	48.7	25 - 141			
4,4´-DDD [2C]	7.58017	2.0	16.6667	ND	45.5	25 - 141			
4,4´-DDE	10.1420	2.0	16.6667	ND	60.9	22 - 141			
4,4´-DDE [2C]	10.1937	2.0	16.6667	ND	61.2	22 - 141			
4,4´-DDT	9.42150	2.0	16.6667	ND	56.5	15 - 136			
4,4´-DDT [2C]	8.97283	2.0	16.6667	ND	53.8	15 - 136			
Aldrin	10.4053	1.0	16.6667	ND	62.4	33 - 118			
Aldrin [2C]	9.83967	1.0	16.6667	ND	59.0	33 - 118			
alpha-BHC	8.89417	1.0	16.6667	ND	53.4	30 - 116			
alpha-BHC [2C]	9.47383	1.0	16.6667	ND	56.8	30 - 116			
alpha-Chlordane	8.99800	1.0	16.6667	ND	54.0	30 - 123			
alpha-Chlordane [2C]	9.18633	1.0	16.6667	ND	55.1	30 - 123			
beta-BHC	4.59317	1.0	16.6667	ND	27.6	24 - 121			
beta-BHC [2C]	5.07317	1.0	16.6667	ND	30.4	24 - 121			
delta-BHC	1.64550	1.0	16.6667	ND	9.87	7 - 120			
delta-BHC [2C]	1.48450	1.0	16.6667	ND	8.91	7 - 120			
Dieldrin	3.96067	2.0	16.6667	ND	23.8	25 - 136			M2
Dieldrin [2C]	3.70283	2.0	16.6667	ND	22.2	25 - 136			M2
Endosulfan I	5.39767	1.0	16.6667	ND	32.4	18 - 134			
Endosulfan I [2C]	5.36283	1.0	16.6667	ND	32.2	18 - 134			
Endosulfan II	0.759667	2.0	16.6667	ND	4.56	28 - 128			M2, J
Endosulfan II [2C]	0.721833	2.0	16.6667	ND	4.33	28 - 128			M2, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0128 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0128-MS1) - Continued		**Source: 1604898-59**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Endosulfan sulfate	0.520167	2.0	16.6667	ND	3.12	5 - 145			M2, J
Endosulfan Sulfate [2C]	0.397333	2.0	16.6667	ND	2.38	5 - 145			M2, J
Endrin	4.32800	2.0	16.6667	ND	26.0	26 - 142			M2
Endrin [2C]	4.07200	2.0	16.6667	ND	24.4	26 - 142			M2
Endrin aldehyde	0.503833	2.0	16.6667	ND	3.02	8 - 146			M2, J
Endrin aldehyde [2C]	1.59750	2.0	16.6667	ND	9.58	8 - 146			J
Endrin ketone	0.818167	2.0	16.6667	ND	4.91	16 - 139			M2, J
Endrin ketone [2C]	0.634833	2.0	16.6667	ND	3.81	16 - 139			M2, J
gamma-BHC	7.96650	1.0	16.6667	ND	47.8	30 - 122			
gamma-BHC [2C]	8.19717	1.0	16.6667	ND	49.2	30 - 122			
gamma-Chlordane	8.11800	1.0	16.6667	ND	48.7	18 - 132			
gamma-Chlordane [2C]	7.97167	1.0	16.6667	ND	47.8	18 - 132			
Heptachlor	10.6585	1.0	16.6667	ND	64.0	34 - 122			
Heptachlor [2C]	10.4287	1.0	16.6667	ND	62.6	34 - 122			
Heptachlor epoxide	5.89517	1.0	16.6667	ND	35.4	21 - 135			
Heptachlor epoxide [2C]	5.63833	1.0	16.6667	ND	33.8	21 - 135			
Methoxychlor	2.09283	5.0	16.6667	ND	12.6	8 - 162			J
Methoxychlor [2C]	1.46917	5.0	16.6667	ND	8.82	8 - 162			J
Surrogate: Decachlorobiphenyl	*10.55*		*16.6667*		*63.3*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*11.16*		*16.6667*		*66.9*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*11.27*		*16.6667*		*67.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*10.54*		*16.6667*		*63.2*	*26 - 108*			
Matrix Spike Dup (B7A0128-MSD1)		**Source: 1604898-59**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	6.71567	2.0	16.6667	ND	40.3	25 - 141	18.9	20	
4,4´-DDD [2C]	6.81533	2.0	16.6667	ND	40.9	25 - 141	10.6	20	
4,4´-DDE	8.85300	2.0	16.6667	ND	53.1	22 - 141	13.6	20	
4,4´-DDE [2C]	9.68250	2.0	16.6667	ND	58.1	22 - 141	5.14	20	
4,4´-DDT	7.86617	2.0	16.6667	ND	47.2	15 - 136	18.0	20	
4,4´-DDT [2C]	8.16733	2.0	16.6667	ND	49.0	15 - 136	9.40	20	
Aldrin	9.19133	1.0	16.6667	ND	55.1	33 - 118	12.4	20	
Aldrin [2C]	9.48200	1.0	16.6667	ND	56.9	33 - 118	3.70	20	
alpha-BHC	7.18483	1.0	16.6667	ND	43.1	30 - 116	21.3	20	R3
alpha-BHC [2C]	7.78933	1.0	16.6667	ND	46.7	30 - 116	19.5	20	
alpha-Chlordane	7.53450	1.0	16.6667	ND	45.2	30 - 123	17.7	20	
alpha-Chlordane [2C]	8.38383	1.0	16.6667	ND	50.3	30 - 123	9.13	20	
beta-BHC	3.53450	1.0	16.6667	ND	21.2	24 - 121	26.1	20	M2, R3
beta-BHC [2C]	3.73083	1.0	16.6667	ND	22.4	24 - 121	30.5	20	R3, M2
delta-BHC	1.27750	1.0	16.6667	ND	7.66	7 - 120	25.2	20	R3
delta-BHC [2C]	1.20117	1.0	16.6667	ND	7.21	7 - 120	21.1	20	R3
Dieldrin	3.13233	2.0	16.6667	ND	18.8	25 - 136	23.4	20	M2, R3

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0128 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0128-MSD1) - Continued		**Source: 1604898-59**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Dieldrin [2C]	3.17867	2.0	16.6667	ND	19.1	25 - 136	15.2	20	M2
Endosulfan I	4.21033	1.0	16.6667	ND	25.3	18 - 134	24.7	20	R3
Endosulfan I [2C]	4.53833	1.0	16.6667	ND	27.2	18 - 134	16.7	20	
Endosulfan II	0.623167	2.0	16.6667	ND	3.74	28 - 128	19.7	20	M2, J
Endosulfan II [2C]	0.718500	2.0	16.6667	ND	4.31	28 - 128	0.463	20	M2, J
Endosulfan sulfate	0.432833	2.0	16.6667	ND	2.60	5 - 145	18.3	20	M2, J
Endosulfan Sulfate [2C]	0.345333	2.0	16.6667	ND	2.07	5 - 145	14.0	20	M2, J
Endrin	3.38400	2.0	16.6667	ND	20.3	26 - 142	24.5	20	M2, R3
Endrin [2C]	3.46117	2.0	16.6667	ND	20.8	26 - 142	16.2	20	M2
Endrin aldehyde	ND	2.0	16.6667	ND	NR	8 - 146		20	M2
Endrin aldehyde [2C]	1.65933	2.0	16.6667	ND	9.96	8 - 146	3.80	20	J
Endrin ketone	0.669167	2.0	16.6667	ND	4.01	16 - 139	20.0	20	M2, R3, J
Endrin ketone [2C]	0.585000	2.0	16.6667	ND	3.51	16 - 139	8.17	20	M2, J
gamma-BHC	6.30733	1.0	16.6667	ND	37.8	30 - 122	23.2	20	R3
gamma-BHC [2C]	6.70767	1.0	16.6667	ND	40.2	30 - 122	20.0	20	
gamma-Chlordane	6.70250	1.0	16.6667	ND	40.2	18 - 132	19.1	20	
gamma-Chlordane [2C]	7.13250	1.0	16.6667	ND	42.8	18 - 132	11.1	20	
Heptachlor	9.35267	1.0	16.6667	ND	56.1	34 - 122	13.1	20	
Heptachlor [2C]	9.90017	1.0	16.6667	ND	59.4	34 - 122	5.20	20	
Heptachlor epoxide	4.57150	1.0	16.6667	ND	27.4	21 - 135	25.3	20	R3
Heptachlor epoxide [2C]	4.71500	1.0	16.6667	ND	28.3	21 - 135	17.8	20	
Methoxychlor	1.71450	5.0	16.6667	ND	10.3	8 - 162	19.9	20	J
Methoxychlor [2C]	1.25467	5.0	16.6667	ND	7.53	8 - 162	15.7	20	M2, J
Surrogate: Decachlorobiphenyl	*10.19*		*16.6667*		*61.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*11.63*		*16.6667*		*69.8*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*10.09*		*16.6667*		*60.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*10.67*		*16.6667*		*64.0*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0142 - GCSEMI_PCB/PEST_S									
Blank (B7A0142-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0142 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0142-BLK1) - Continued				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*15.19*		*16.6667*		*91.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.81*		*16.6667*		*94.8*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*16.54*		*16.6667*		*99.2*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.57*		*16.6667*		*99.4*	*26 - 108*			
LCS (B7A0142-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	16.2652	2.0	16.6667		97.6	53 - 125			
4,4´-DDD [2C]	17.2095	2.0	16.6667		103	53 - 125			
4,4´-DDE	15.2712	2.0	16.6667		91.6	54 - 113			
4,4´-DDE [2C]	16.6753	2.0	16.6667		100	54 - 113			
4,4´-DDT	11.7675	2.0	16.6667		70.6	25 - 127			
4,4´-DDT [2C]	12.0845	2.0	16.6667		72.5	25 - 127			
Aldrin	15.2670	1.0	16.6667		91.6	59 - 107			
Aldrin [2C]	16.0862	1.0	16.6667		96.5	59 - 107			
alpha-BHC	15.2360	1.0	16.6667		91.4	59 - 104			
alpha-BHC [2C]	16.4003	1.0	16.6667		98.4	59 - 104			
alpha-Chlordane	15.1122	1.0	16.6667		90.7	54 - 110			
alpha-Chlordane [2C]	16.7948	1.0	16.6667		101	54 - 110			
beta-BHC	15.3562	1.0	16.6667		92.1	57 - 103			
beta-BHC [2C]	16.2468	1.0	16.6667		97.5	57 - 103			
delta-BHC	12.2470	1.0	16.6667		73.5	16 - 120			
delta-BHC [2C]	12.6552	1.0	16.6667		75.9	16 - 120			
Dieldrin	15.4692	2.0	16.6667		92.8	61 - 109			
Dieldrin [2C]	16.9347	2.0	16.6667		102	61 - 109			
Endosulfan I	14.9702	1.0	16.6667		89.8	60 - 106			
Endosulfan I [2C]	16.6318	1.0	16.6667		99.8	60 - 106			
Endosulfan II	14.7397	2.0	16.6667		88.4	59 - 108			
Endosulfan II [2C]	15.7970	2.0	16.6667		94.8	59 - 108			
Endosulfan sulfate	13.4197	2.0	16.6667		80.5	54 - 110			
Endosulfan Sulfate [2C]	14.3567	2.0	16.6667		86.1	54 - 110			
Endrin	15.7200	2.0	16.6667		94.3	63 - 112			
Endrin [2C]	17.4700	2.0	16.6667		105	63 - 112			
Endrin aldehyde	15.2340	2.0	16.6667		91.4	64 - 119			
Endrin aldehyde [2C]	14.6938	2.0	16.6667		88.2	64 - 119			
Endrin ketone	14.0395	2.0	16.6667		84.2	54 - 115			
Endrin ketone [2C]	14.6630	2.0	16.6667		88.0	54 - 115			
gamma-BHC	15.7408	1.0	16.6667		94.4	60 - 107			
gamma-BHC [2C]	16.7505	1.0	16.6667		101	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0142 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0142-BS1) - Continued				Prepared: 1/5/2017 Analyzed: 1/6/2017					
gamma-Chlordane	14.8832	1.0	16.6667		89.3	57 - 106			
gamma-Chlordane [2C]	15.8227	1.0	16.6667		94.9	57 - 106			
Heptachlor	15.2265	1.0	16.6667		91.4	54 - 114			
Heptachlor [2C]	16.8828	1.0	16.6667		101	54 - 114			
Heptachlor epoxide	15.1910	1.0	16.6667		91.1	61 - 106			
Heptachlor epoxide [2C]	16.2467	1.0	16.6667		97.5	61 - 106			
Methoxychlor	12.4257	5.0	16.6667		74.6	18 - 138			
Methoxychlor [2C]	13.5830	5.0	16.6667		81.5	18 - 138			
Surrogate: Decachlorobiphenyl	*15.10*		*16.6667*		*90.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.07*		*16.6667*		*96.4*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*16.50*		*16.6667*		*99.0*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.97*		*16.6667*		*95.8*	*26 - 108*			
Duplicate (B7A0142-DUP1)			**Source: 1604898-90**	Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0142 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0142-DUP1) - Continued		**Source: 1604898-90**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*14.86*		*16.6667*		*89.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.09*		*16.6667*		*96.5*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.93*		*16.6667*		*89.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.69*		*16.6667*		*88.1*	*26 - 108*			
Matrix Spike (B7A0142-MS1)		**Source: 1604898-61**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	5.34800	2.0	16.6667	ND	32.1	25 - 141			
4,4´-DDD [2C]	4.91883	2.0	16.6667	ND	29.5	25 - 141			
4,4´-DDE	7.54800	2.0	16.6667	ND	45.3	22 - 141			
4,4´-DDE [2C]	7.44717	2.0	16.6667	ND	44.7	22 - 141			
4,4´-DDT	5.06117	2.0	16.6667	ND	30.4	15 - 136			
4,4´-DDT [2C]	4.91850	2.0	16.6667	ND	29.5	15 - 136			
Aldrin	7.59817	1.0	16.6667	ND	45.6	33 - 118			
Aldrin [2C]	7.16017	1.0	16.6667	ND	43.0	33 - 118			
alpha-BHC	5.24583	1.0	16.6667	ND	31.5	30 - 116			
alpha-BHC [2C]	5.23867	1.0	16.6667	ND	31.4	30 - 116			
alpha-Chlordane	5.76800	1.0	16.6667	ND	34.6	30 - 123			
alpha-Chlordane [2C]	5.65933	1.0	16.6667	ND	34.0	30 - 123			
beta-BHC	2.38050	1.0	16.6667	ND	14.3	24 - 121			M2
beta-BHC [2C]	2.44117	1.0	16.6667	ND	14.6	24 - 121			M2
delta-BHC	0.560333	1.0	16.6667	ND	3.36	7 - 120			M2, J
delta-BHC [2C]	0.374833	1.0	16.6667	ND	2.25	7 - 120			M2, J
Dieldrin	1.82083	2.0	16.6667	ND	10.9	25 - 136			M2, J
Dieldrin [2C]	1.49717	2.0	16.6667	ND	8.98	25 - 136			M2, J
Endosulfan I	2.69017	1.0	16.6667	ND	16.1	18 - 134			M2
Endosulfan I [2C]	2.38083	1.0	16.6667	ND	14.3	18 - 134			M2
Endosulfan II	0.256333	2.0	16.6667	ND	1.54	28 - 128			M2, J
Endosulfan II [2C]	0.370333	2.0	16.6667	ND	2.22	28 - 128			M2, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0142 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0142-MS1) - Continued		**Source: 1604898-61**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Endosulfan sulfate	ND	2.0	16.6667	ND	NR	5 - 145			M2
Endosulfan Sulfate [2C]	ND	2.0	16.6667	ND	NR	5 - 145			M2
Endrin	1.96617	2.0	16.6667	ND	11.8	26 - 142			M2, J
Endrin [2C]	1.56200	2.0	16.6667	ND	9.37	26 - 142			M2, J
Endrin aldehyde	0.298833	2.0	16.6667	ND	1.79	8 - 146			M2, J
Endrin aldehyde [2C]	1.79500	2.0	16.6667	ND	10.8	8 - 146			J
Endrin ketone	0.234333	2.0	16.6667	ND	1.41	16 - 139			M2, J
Endrin ketone [2C]	ND	2.0	16.6667	ND	NR	16 - 139			M2
gamma-BHC	4.34533	1.0	16.6667	ND	26.1	30 - 122			M2
gamma-BHC [2C]	4.19033	1.0	16.6667	ND	25.1	30 - 122			M2
gamma-Chlordane	4.92183	1.0	16.6667	ND	29.5	18 - 132			
gamma-Chlordane [2C]	9.68600	1.0	16.6667	ND	58.1	18 - 132			
Heptachlor	7.34067	1.0	16.6667	ND	44.0	34 - 122			
Heptachlor [2C]	7.17833	1.0	16.6667	ND	43.1	34 - 122			
Heptachlor epoxide	2.93033	1.0	16.6667	ND	17.6	21 - 135			M2
Heptachlor epoxide [2C]	2.65950	1.0	16.6667	ND	16.0	21 - 135			M2
Methoxychlor	0.611333	5.0	16.6667	ND	3.67	8 - 162			M2, J
Methoxychlor [2C]	8.92250	5.0	16.6667	ND	53.5	8 - 162			
Surrogate: Decachlorobiphenyl	*8.474*		*16.6667*		*50.8*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*8.244*		*16.6667*		*49.5*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*7.754*		*16.6667*		*46.5*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*7.234*		*16.6667*		*43.4*	*26 - 108*			
Matrix Spike Dup (B7A0142-MSD1)		**Source: 1604898-61**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	8.45700	2.0	16.6667	ND	50.7	25 - 141	45.0	20	R3
4,4´-DDD [2C]	7.96700	2.0	16.6667	ND	47.8	25 - 141	47.3	20	R3
4,4´-DDE	9.17383	2.0	16.6667	ND	55.0	22 - 141	19.4	20	
4,4´-DDE [2C]	9.13517	2.0	16.6667	ND	54.8	22 - 141	20.4	20	R3
4,4´-DDT	7.19000	2.0	16.6667	ND	43.1	15 - 136	34.8	20	R3
4,4´-DDT [2C]	7.11767	2.0	16.6667	ND	42.7	15 - 136	36.5	20	R3
Aldrin	9.01917	1.0	16.6667	ND	54.1	33 - 118	17.1	20	
Aldrin [2C]	8.97700	1.0	16.6667	ND	53.9	33 - 118	22.5	20	R3
alpha-BHC	8.02583	1.0	16.6667	ND	48.2	30 - 116	41.9	20	R3
alpha-BHC [2C]	8.37767	1.0	16.6667	ND	50.3	30 - 116	46.1	20	R3
alpha-Chlordane	8.31267	1.0	16.6667	ND	49.9	30 - 123	36.1	20	R3
alpha-Chlordane [2C]	8.26467	1.0	16.6667	ND	49.6	30 - 123	37.4	20	R3
beta-BHC	5.17183	1.0	16.6667	ND	31.0	24 - 121	73.9	20	R3
beta-BHC [2C]	5.92100	1.0	16.6667	ND	35.5	24 - 121	83.2	20	R3
delta-BHC	1.68050	1.0	16.6667	ND	10.1	7 - 120	100	20	R3
delta-BHC [2C]	1.62083	1.0	16.6667	ND	9.72	7 - 120	125	20	R3
Dieldrin	4.19117	2.0	16.6667	ND	25.1	25 - 136	78.9	20	R3

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0142 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0142-MSD1) - Continued		**Source: 1604898-61**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Dieldrin [2C]	3.72800	2.0	16.6667	ND	22.4	25 - 136	85.4	20	M2, R3
Endosulfan I	5.49250	1.0	16.6667	ND	33.0	18 - 134	68.5	20	R3
Endosulfan I [2C]	5.14850	1.0	16.6667	ND	30.9	18 - 134	73.5	20	R3
Endosulfan II	0.794000	2.0	16.6667	ND	4.76	28 - 128	102	20	M2, R3, J
Endosulfan II [2C]	0.925167	2.0	16.6667	ND	5.55	28 - 128	85.7	20	M2, R3, J
Endosulfan sulfate	0.488333	2.0	16.6667	ND	2.93	5 - 145		20	M2, J
Endosulfan Sulfate [2C]	0.461833	2.0	16.6667	ND	2.77	5 - 145		20	M2, J
Endrin	4.53750	2.0	16.6667	ND	27.2	26 - 142	79.1	20	R3
Endrin [2C]	4.23233	2.0	16.6667	ND	25.4	26 - 142	92.2	20	M2, R3
Endrin aldehyde	0.863667	2.0	16.6667	ND	5.18	8 - 146	97.2	20	M2, R3, J
Endrin aldehyde [2C]	2.21767	2.0	16.6667	ND	13.3	8 - 146	21.1	20	R3
Endrin ketone	0.757000	2.0	16.6667	ND	4.54	16 - 139	105	20	M2, R3, J
Endrin ketone [2C]	0.449833	2.0	16.6667	ND	2.70	16 - 139		20	M2, J
gamma-BHC	7.53650	1.0	16.6667	ND	45.2	30 - 122	53.7	20	R3
gamma-BHC [2C]	7.58800	1.0	16.6667	ND	45.5	30 - 122	57.7	20	R3
gamma-Chlordane	7.68017	1.0	16.6667	ND	46.1	18 - 132	43.8	20	R3
gamma-Chlordane [2C]	13.8263	1.0	16.6667	ND	83.0	18 - 132	35.2	20	R3
Heptachlor	8.99650	1.0	16.6667	ND	54.0	34 - 122	20.3	20	R3
Heptachlor [2C]	9.27683	1.0	16.6667	ND	55.7	34 - 122	25.5	20	R3
Heptachlor epoxide	5.86050	1.0	16.6667	ND	35.2	21 - 135	66.7	20	R3
Heptachlor epoxide [2C]	5.48083	1.0	16.6667	ND	32.9	21 - 135	69.3	20	R3
Methoxychlor	1.61450	5.0	16.6667	ND	9.69	8 - 162	90.1	20	R3, J
Methoxychlor [2C]	0.648667	5.0	16.6667	ND	3.89	8 - 162	173	20	M2, R3, J
Surrogate: Decachlorobiphenyl	*9.346*		*16.6667*		*56.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*9.686*		*16.6667*		*58.1*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*8.963*		*16.6667*		*53.8*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*8.344*		*16.6667*		*50.1*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0143 - GCSEMI_PCB/PEST_S									
Blank (B7A0143-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0143 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0143-BLK1) - Continued				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*14.86*		*16.6667*		*89.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*18.66*		*16.6667*		*112*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*16.03*		*16.6667*		*96.2*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.05*		*16.6667*		*96.3*	*26 - 108*			
LCS (B7A0143-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	16.9495	2.0	16.6667		102	53 - 125			
4,4´-DDD [2C]	16.8382	2.0	16.6667		101	53 - 125			
4,4´-DDE	15.9095	2.0	16.6667		95.5	54 - 113			
4,4´-DDE [2C]	15.7870	2.0	16.6667		94.7	54 - 113			
4,4´-DDT	18.8085	2.0	16.6667		113	25 - 127			
4,4´-DDT [2C]	17.1180	2.0	16.6667		103	25 - 127			
Aldrin	15.6827	1.0	16.6667		94.1	59 - 107			
Aldrin [2C]	15.4943	1.0	16.6667		93.0	59 - 107			
alpha-BHC	15.3708	1.0	16.6667		92.2	59 - 104			
alpha-BHC [2C]	15.4617	1.0	16.6667		92.8	59 - 104			
alpha-Chlordane	16.0257	1.0	16.6667		96.2	54 - 110			
alpha-Chlordane [2C]	15.6720	1.0	16.6667		94.0	54 - 110			
beta-BHC	15.2690	1.0	16.6667		91.6	57 - 103			
beta-BHC [2C]	15.1742	1.0	16.6667		91.0	57 - 103			
delta-BHC	12.5173	1.0	16.6667		75.1	16 - 120			
delta-BHC [2C]	12.5330	1.0	16.6667		75.2	16 - 120			
Dieldrin	16.8242	2.0	16.6667		101	61 - 109			
Dieldrin [2C]	16.1595	2.0	16.6667		97.0	61 - 109			
Endosulfan I	16.0195	1.0	16.6667		96.1	60 - 106			
Endosulfan I [2C]	15.2707	1.0	16.6667		91.6	60 - 106			
Endosulfan II	16.0440	2.0	16.6667		96.3	59 - 108			
Endosulfan II [2C]	15.4802	2.0	16.6667		92.9	59 - 108			
Endosulfan sulfate	15.7337	2.0	16.6667		94.4	54 - 110			
Endosulfan Sulfate [2C]	15.2665	2.0	16.6667		91.6	54 - 110			
Endrin	17.5340	2.0	16.6667		105	63 - 112			
Endrin [2C]	17.0565	2.0	16.6667		102	63 - 112			
Endrin aldehyde	16.6717	2.0	16.6667		100	64 - 119			
Endrin aldehyde [2C]	15.9758	2.0	16.6667		95.9	64 - 119			
Endrin ketone	16.9303	2.0	16.6667		102	54 - 115			
Endrin ketone [2C]	16.1698	2.0	16.6667		97.0	54 - 115			
gamma-BHC	16.1540	1.0	16.6667		96.9	60 - 107			
gamma-BHC [2C]	15.9575	1.0	16.6667		95.7	60 - 107			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0143 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0143-BS1) - Continued				Prepared: 1/5/2017 Analyzed: 1/6/2017					
gamma-Chlordane	15.7305	1.0	16.6667		94.4	57 - 106			
gamma-Chlordane [2C]	15.5207	1.0	16.6667		93.1	57 - 106			
Heptachlor	15.8178	1.0	16.6667		94.9	54 - 114			
Heptachlor [2C]	15.9947	1.0	16.6667		96.0	54 - 114			
Heptachlor epoxide	15.6405	1.0	16.6667		93.8	61 - 106			
Heptachlor epoxide [2C]	15.2772	1.0	16.6667		91.7	61 - 106			
Methoxychlor	18.0632	5.0	16.6667		108	18 - 138			
Methoxychlor [2C]	17.0420	5.0	16.6667		102	18 - 138			
Surrogate: Decachlorobiphenyl	*13.08*		*16.6667*		*78.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.13*		*16.6667*		*84.8*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.10*		*16.6667*		*90.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.04*		*16.6667*		*96.2*	*26 - 108*			
Duplicate (B7A0143-DUP1)			**Source: 1604898-82**	Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	0.236000	2.0		0.282167	NR		17.8	20	J
4,4´-DDE	3.54050	2.0		3.10817	NR		13.0	20	
4,4´-DDE [2C]	3.22400	2.0		2.77733	NR		14.9	20	
4,4´-DDT	1.15400	2.0		1.05550	NR		8.92	20	J
4,4´-DDT [2C]	1.26200	2.0		0.797000	NR		45.2	20	R3, J
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	1.11183	1.0		0.947667	NR		15.9	20	
alpha-Chlordane [2C]	1.93900	1.0		1.60483	NR		18.9	20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	0.394667	2.0		0.326167	NR		19.0	20	J
Dieldrin [2C]	0.326000	2.0		0.262833	NR		21.5	20	R3, J
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0143 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0143-DUP1) - Continued		**Source: 1604898-82**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	1.64350	1.0		1.37867	NR		17.5	20	
gamma-Chlordane [2C]	1.42017	1.0		1.02883	NR		32.0	20	R3
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*7.442*		*16.6667*		*44.7*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*7.306*		*16.6667*		*43.8*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*7.172*		*16.6667*		*43.0*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*6.806*		*16.6667*		*40.8*	*26 - 108*			
Matrix Spike (B7A0143-MS1)		**Source: 1604898-82**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	5.32633	2.0	16.6667	ND	32.0	25 - 141			
4,4´-DDD [2C]	5.40617	2.0	16.6667	0.282167	30.7	25 - 141			
4,4´-DDE	10.0758	2.0	16.6667	3.10817	41.8	22 - 141			
4,4´-DDE [2C]	9.40417	2.0	16.6667	2.77733	39.8	22 - 141			
4,4´-DDT	8.61850	2.0	16.6667	1.05550	45.4	15 - 136			
4,4´-DDT [2C]	7.48100	2.0	16.6667	0.797000	40.1	15 - 136			
Aldrin	7.06317	1.0	16.6667	ND	42.4	33 - 118			
Aldrin [2C]	6.75983	1.0	16.6667	ND	40.6	33 - 118			
alpha-BHC	5.77267	1.0	16.6667	ND	34.6	30 - 116			
alpha-BHC [2C]	5.94283	1.0	16.6667	ND	35.7	30 - 116			
alpha-Chlordane	6.99750	1.0	16.6667	0.947667	36.3	30 - 123			
alpha-Chlordane [2C]	7.53983	1.0	16.6667	1.60483	35.6	30 - 123			
beta-BHC	4.04200	1.0	16.6667	ND	24.3	24 - 121			
beta-BHC [2C]	3.96333	1.0	16.6667	ND	23.8	24 - 121			M2
delta-BHC	2.88417	1.0	16.6667	ND	17.3	7 - 120			
delta-BHC [2C]	2.86717	1.0	16.6667	ND	17.2	7 - 120			
Dieldrin	4.74633	2.0	16.6667	0.326167	26.5	25 - 136			
Dieldrin [2C]	4.31250	2.0	16.6667	0.262833	24.3	25 - 136			M2
Endosulfan I	4.78017	1.0	16.6667	ND	28.7	18 - 134			
Endosulfan I [2C]	4.23000	1.0	16.6667	ND	25.4	18 - 134			
Endosulfan II	2.56583	2.0	16.6667	ND	15.4	28 - 128			M2
Endosulfan II [2C]	2.39767	2.0	16.6667	ND	14.4	28 - 128			M2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0143 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0143-MS1) - Continued		**Source: 1604898-82**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Endosulfan sulfate	2.37250	2.0	16.6667	ND	14.2	5 - 145			
Endosulfan Sulfate [2C]	2.07367	2.0	16.6667	ND	12.4	5 - 145			
Endrin	4.72333	2.0	16.6667	ND	28.3	26 - 142			
Endrin [2C]	4.60200	2.0	16.6667	ND	27.6	26 - 142			
Endrin aldehyde	2.32100	2.0	16.6667	ND	13.9	8 - 146			
Endrin aldehyde [2C]	2.07600	2.0	16.6667	ND	12.5	8 - 146			
Endrin ketone	2.31050	2.0	16.6667	ND	13.9	16 - 139			M2
Endrin ketone [2C]	2.17900	2.0	16.6667	ND	13.1	16 - 139			M2
gamma-BHC	5.35900	1.0	16.6667	ND	32.2	30 - 122			
gamma-BHC [2C]	5.12783	1.0	16.6667	ND	30.8	30 - 122			
gamma-Chlordane	7.57800	1.0	16.6667	1.37867	37.2	18 - 132			
gamma-Chlordane [2C]	6.48433	1.0	16.6667	1.02883	32.7	18 - 132			
Heptachlor	7.45167	1.0	16.6667	ND	44.7	34 - 122			
Heptachlor [2C]	7.26117	1.0	16.6667	ND	43.6	34 - 122			
Heptachlor epoxide	5.08717	1.0	16.6667	ND	30.5	21 - 135			
Heptachlor epoxide [2C]	5.33317	1.0	16.6667	ND	32.0	21 - 135			
Methoxychlor	4.23117	5.0	16.6667	ND	25.4	8 - 162			J
Methoxychlor [2C]	4.09217	5.0	16.6667	ND	24.6	8 - 162			J
Surrogate: Decachlorobiphenyl	*7.245*		*16.6667*		*43.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*7.170*		*16.6667*		*43.0*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*7.950*		*16.6667*		*47.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*8.126*		*16.6667*		*48.8*	*26 - 108*			
Matrix Spike Dup (B7A0143-MSD1)		**Source: 1604898-82**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
4,4´-DDD	7.63117	2.0	16.6667	ND	45.8	25 - 141	35.6	20	R3
4,4´-DDD [2C]	7.55533	2.0	16.6667	0.282167	43.6	25 - 141	33.2	20	R3
4,4´-DDE	13.2862	2.0	16.6667	3.10817	61.1	22 - 141	27.5	20	R3
4,4´-DDE [2C]	12.0502	2.0	16.6667	2.77733	55.6	22 - 141	24.7	20	R3
4,4´-DDT	10.5582	2.0	16.6667	1.05550	57.0	15 - 136	20.2	20	R3
4,4´-DDT [2C]	9.66233	2.0	16.6667	0.797000	53.2	15 - 136	25.4	20	R3
Aldrin	9.44100	1.0	16.6667	ND	56.6	33 - 118	28.8	20	R3
Aldrin [2C]	8.82533	1.0	16.6667	ND	53.0	33 - 118	26.5	20	R3
alpha-BHC	8.74433	1.0	16.6667	ND	52.5	30 - 116	40.9	20	R3
alpha-BHC [2C]	8.57967	1.0	16.6667	ND	51.5	30 - 116	36.3	20	R3
alpha-Chlordane	9.37917	1.0	16.6667	0.947667	50.6	30 - 123	29.1	20	R3
alpha-Chlordane [2C]	9.69200	1.0	16.6667	1.60483	48.5	30 - 123	25.0	20	R3
beta-BHC	5.43017	1.0	16.6667	ND	32.6	24 - 121	29.3	20	R3
beta-BHC [2C]	5.17683	1.0	16.6667	ND	31.1	24 - 121	26.6	20	R3
delta-BHC	3.48750	1.0	16.6667	ND	20.9	7 - 120	18.9	20	
delta-BHC [2C]	3.38917	1.0	16.6667	ND	20.3	7 - 120	16.7	20	
Dieldrin	5.82817	2.0	16.6667	0.326167	33.0	25 - 136	20.5	20	R3

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/09/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0143 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0143-MSD1) - Continued		**Source: 1604898-82**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Dieldrin [2C]	5.24150	2.0	16.6667	0.262833	29.9	25 - 136	19.4	20	
Endosulfan I	6.08150	1.0	16.6667	ND	36.5	18 - 134	24.0	20	R3
Endosulfan I [2C]	5.25583	1.0	16.6667	ND	31.5	18 - 134	21.6	20	R3
Endosulfan II	2.59483	2.0	16.6667	ND	15.6	28 - 128	1.12	20	M2
Endosulfan II [2C]	2.47200	2.0	16.6667	ND	14.8	28 - 128	3.05	20	M2
Endosulfan sulfate	2.72533	2.0	16.6667	ND	16.4	5 - 145	13.8	20	
Endosulfan Sulfate [2C]	2.17983	2.0	16.6667	ND	13.1	5 - 145	4.99	20	
Endrin	5.84850	2.0	16.6667	ND	35.1	26 - 142	21.3	20	R3
Endrin [2C]	5.77917	2.0	16.6667	ND	34.7	26 - 142	22.7	20	R3
Endrin aldehyde	2.49217	2.0	16.6667	ND	15.0	8 - 146	7.11	20	
Endrin aldehyde [2C]	1.88183	2.0	16.6667	ND	11.3	8 - 146	9.81	20	J
Endrin ketone	2.49950	2.0	16.6667	ND	15.0	16 - 139	7.86	20	M2
Endrin ketone [2C]	2.15750	2.0	16.6667	ND	12.9	16 - 139	0.992	20	M2
gamma-BHC	8.07017	1.0	16.6667	ND	48.4	30 - 122	40.4	20	R3
gamma-BHC [2C]	7.52767	1.0	16.6667	ND	45.2	30 - 122	37.9	20	R3
gamma-Chlordane	10.0135	1.0	16.6667	1.37867	51.8	18 - 132	27.7	20	R3
gamma-Chlordane [2C]	8.52633	1.0	16.6667	1.02883	45.0	18 - 132	27.2	20	R3
Heptachlor	10.0892	1.0	16.6667	ND	60.5	34 - 122	30.1	20	R3
Heptachlor [2C]	9.59700	1.0	16.6667	ND	57.6	34 - 122	27.7	20	R3
Heptachlor epoxide	6.78517	1.0	16.6667	ND	40.7	21 - 135	28.6	20	R3
Heptachlor epoxide [2C]	6.83800	1.0	16.6667	ND	41.0	21 - 135	24.7	20	R3
Methoxychlor	4.21750	5.0	16.6667	ND	25.3	8 - 162	0.324	20	J
Methoxychlor [2C]	4.31283	5.0	16.6667	ND	25.9	8 - 162	5.25	20	J
Surrogate: Decachlorobiphenyl	*10.07*		*16.6667*		*60.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*11.01*		*16.6667*		*66.1*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*10.20*		*16.6667*		*61.2*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*9.856*		*16.6667*		*59.1*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0037 - GCSEMI_PCB/PEST_W									
Blank (B7A0037-BLK2)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Aroclor 1016	ND	0.50			NR				
Aroclor 1221	ND	1.0			NR				
Aroclor 1232	ND	0.50			NR				
Aroclor 1242	ND	0.50			NR				
Aroclor 1248	ND	0.50			NR				
Aroclor 1254	ND	0.50			NR				
Aroclor 1260	ND	0.50			NR				
Aroclor 1262	ND	0.50			NR				
Aroclor 1268	ND	0.50			NR				
Surrogate: Decachlorobiphenyl	*0.4055*		*0.500000*		*81.1*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.4350*		*0.500000*		*87.0*	*14 - 122*			
LCS (B7A0037-BS2)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Aroclor 1016	2.59988	0.50	5.00000		52.0	68 - 96			L2
Aroclor 1260	2.23614	0.50	5.00000		44.7	64 - 106			L2
Surrogate: Decachlorobiphenyl	*0.2967*		*0.500000*		*59.3*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.2939*		*0.500000*		*58.8*	*14 - 122*			
LCS Dup (B7A0037-BSD2)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Aroclor 1016	2.15640	0.50	5.00000		43.1	68 - 96	18.6	20	L2
Aroclor 1260	1.58421	0.50	5.00000		31.7	64 - 106	34.1	20	L2
Surrogate: Decachlorobiphenyl	*0.1683*		*0.500000*		*33.7*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.2670*		*0.500000*		*53.4*	*14 - 122*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0091 - GCSEMI_PCB/PEST_S									
Blank (B7A0091-BLK2)				Prepared: 1/4/2017 Analyzed: 1/5/2017					
Aroclor 1016	ND	16			NR				
Aroclor 1221	ND	16			NR				
Aroclor 1232	ND	16			NR				
Aroclor 1242	ND	16			NR				
Aroclor 1248	ND	16			NR				
Aroclor 1254	ND	16			NR				
Aroclor 1260	ND	16			NR				
Aroclor 1262	ND	16			NR				
Aroclor 1268	ND	16			NR				
Surrogate: Decachlorobiphenyl	*17.12*		*16.6667*		*103*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*18.93*		*16.6667*		*114*	*28 - 102*			S1
LCS (B7A0091-BS2)				Prepared: 1/4/2017 Analyzed: 1/5/2017					
Aroclor 1016	163.565	16	166.667		98.1	70 - 107			
Aroclor 1260	184.905	16	166.667		111	69 - 120			
Surrogate: Decachlorobiphenyl	*16.95*		*16.6667*		*102*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*18.18*		*16.6667*		*109*	*28 - 102*			S12
Duplicate (B7A0091-DUP2)		**Source: 1604898-01**		Prepared: 1/4/2017 Analyzed: 1/5/2017					
Aroclor 1016	ND	16		ND	NR			20	
Aroclor 1260	ND	16		ND	NR			20	
Surrogate: Decachlorobiphenyl	*10.64*		*16.6667*		*63.8*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*13.18*		*16.6667*		*79.1*	*28 - 102*			
Matrix Spike (B7A0091-MS2)		**Source: 1604898-17**		Prepared: 1/4/2017 Analyzed: 1/5/2017					
Aroclor 1016	115.887	16	166.667	ND	69.5	34 - 120			
Aroclor 1260	106.705	16	166.667	ND	64.0	39 - 128			
Surrogate: Decachlorobiphenyl	*7.888*		*16.6667*		*47.3*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.67*		*16.6667*		*76.0*	*28 - 102*			
Matrix Spike Dup (B7A0091-MSD2)		**Source: 1604898-17**		Prepared: 1/4/2017 Analyzed: 1/5/2017					
Aroclor 1016	108.314	16	166.667	ND	65.0	34 - 120	6.76	20	
Aroclor 1260	99.1127	16	166.667	ND	59.5	39 - 128	7.38	20	
Surrogate: Decachlorobiphenyl	*6.750*		*16.6667*		*40.5*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.36*		*16.6667*		*74.2*	*28 - 102*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0122 - GCSEMI_PCB/PEST_S									
Blank (B7A0122-BLK1)				Prepared: 1/5/2017 Analyzed: 1/5/2017					
Aroclor 1016	ND	16			NR				
Aroclor 1221	ND	16			NR				
Aroclor 1232	ND	16			NR				
Aroclor 1242	ND	16			NR				
Aroclor 1248	ND	16			NR				
Aroclor 1254	ND	16			NR				
Aroclor 1260	ND	16			NR				
Aroclor 1262	ND	16			NR				
Aroclor 1268	ND	16			NR				
Surrogate: Decachlorobiphenyl	*12.84*		*16.6667*		*77.0*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*18.70*		*16.6667*		*112*	*28 - 102*			S1
LCS (B7A0122-BS1)				Prepared: 1/5/2017 Analyzed: 1/5/2017					
Aroclor 1016	166.604	16	166.667		100	70 - 107			
Aroclor 1260	173.603	16	166.667		104	69 - 120			
Surrogate: Decachlorobiphenyl	*13.46*		*16.6667*		*80.8*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*18.47*		*16.6667*		*111*	*28 - 102*			S12
Duplicate (B7A0122-DUP1)		**Source: 1604898-37**		Prepared: 1/5/2017 Analyzed: 1/5/2017					
Aroclor 1016	ND	16		ND	NR			20	
Aroclor 1260	ND	16		ND	NR			20	
Surrogate: Decachlorobiphenyl	*12.26*		*16.6667*		*73.6*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*15.82*		*16.6667*		*94.9*	*28 - 102*			
Matrix Spike (B7A0122-MS1)		**Source: 1604898-37**		Prepared: 1/5/2017 Analyzed: 1/5/2017					
Aroclor 1016	169.413	16	166.667	ND	102	34 - 120			
Aroclor 1260	183.839	16	166.667	ND	110	39 - 128			
Surrogate: Decachlorobiphenyl	*12.34*		*16.6667*		*74.0*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*15.88*		*16.6667*		*95.3*	*28 - 102*			
Matrix Spike Dup (B7A0122-MSD1)		**Source: 1604898-37**		Prepared: 1/5/2017 Analyzed: 1/5/2017					
Aroclor 1016	165.315	16	166.667	ND	99.2	34 - 120	2.45	20	
Aroclor 1260	180.302	16	166.667	ND	108	39 - 128	1.94	20	
Surrogate: Decachlorobiphenyl	*12.41*		*16.6667*		*74.5*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*15.49*		*16.6667*		*92.9*	*28 - 102*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0160 - MSSEMI_S									
Blank (B7A0160-BLK1)				Prepared: 1/6/2017 Analyzed: 1/6/2017					
2-Methylnaphthalene	ND	5.0			NR				
Acenaphthene	ND	5.0			NR				
Acenaphthylene	ND	5.0			NR				
Anthracene	ND	5.0			NR				
Benzo(a)anthracene	ND	5.0			NR				
Benzo(a)pyrene	ND	5.0			NR				
Benzo(b)fluoranthene	ND	5.0			NR				
Benzo(g,h,i)perylene	ND	5.0			NR				
Benzo(k)fluoranthene	ND	5.0			NR				
Chrysene	ND	5.0			NR				
Dibenz(a,h)anthracene	ND	5.0			NR				
Fluoranthene	ND	5.0			NR				
Fluorene	ND	5.0			NR				
Indeno(1,2,3-cd)pyrene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
Phenanthrene	ND	5.0			NR				
Pyrene	ND	5.0			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*22.69*		*33.3333*		*68.1*	*23 - 104*			
Surrogate: 2-Fluorobiphenyl	*23.79*		*33.3333*		*71.4*	*29 - 116*			
Surrogate: Nitrobenzene-d5	*23.21*		*33.3333*		*69.6*	*14 - 120*			
Surrogate: 4-Terphenyl-d14	*34.44*		*33.3333*		*103*	*16 - 142*			
LCS (B7A0160-BS1)				Prepared: 1/6/2017 Analyzed: 1/6/2017					
2-Methylnaphthalene	27.6300	5.0	33.3333		82.9	40 - 118			
Acenaphthene	21.9367	5.0	33.3333		65.8	43 - 99			
Acenaphthylene	21.3953	5.0	33.3333		64.2	32 - 113			
Anthracene	25.6643	5.0	33.3333		77.0	52 - 94			
Benzo(a)anthracene	26.3467	5.0	33.3333		79.0	42 - 115			
Benzo(a)pyrene	38.0057	5.0	33.3333		114	34 - 109			L4
Benzo(b)fluoranthene	31.0597	5.0	33.3333		93.2	42 - 116			
Benzo(g,h,i)perylene	34.1457	5.0	33.3333		102	32 - 118			
Benzo(k)fluoranthene	32.4990	5.0	33.3333		97.5	41 - 111			
Chrysene	31.1110	5.0	33.3333		93.3	50 - 108			
Dibenz(a,h)anthracene	33.3817	5.0	33.3333		100	34 - 119			
Fluoranthene	26.7190	5.0	33.3333		80.2	52 - 109			
Fluorene	21.4023	5.0	33.3333		64.2	41 - 104			
Indeno(1,2,3-cd)pyrene	33.8383	5.0	33.3333		102	36 - 126			
Naphthalene	22.6497	5.0	33.3333		67.9	37 - 101			
Phenanthrene	27.5060	5.0	33.3333		82.5	50 - 106			
Pyrene	27.1673	5.0	33.3333		81.5	49 - 110			
Surrogate: 1,2-Dichlorobenzene-d4	*21.08*		*33.3333*		*63.2*	*23 - 104*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0160 - MSSEMI_S (continued)									
LCS (B7A0160-BS1) - Continued				Prepared: 1/6/2017 Analyzed: 1/6/2017					
Surrogate: 2-Fluorobiphenyl	*22.54*		*33.3333*		*67.6*	*29 - 116*			
Surrogate: Nitrobenzene-d5	*21.81*		*33.3333*		*65.4*	*14 - 120*			
Surrogate: 4-Terphenyl-d14	*29.82*		*33.3333*		*89.5*	*16 - 142*			
Duplicate (B7A0160-DUP1)		**Source: 1604898-79**		Prepared: 1/6/2017 Analyzed: 1/6/2017					
2-Methylnaphthalene	ND	100		ND	NR			20	
Acenaphthene	ND	100		ND	NR			20	
Acenaphthylene	ND	100		ND	NR			20	
Anthracene	ND	100		ND	NR			20	
Benzo(a)anthracene	ND	100		ND	NR			20	
Benzo(a)pyrene	ND	100		ND	NR			20	
Benzo(b)fluoranthene	ND	100		ND	NR			20	
Benzo(g,h,i)perylene	12.3933	100		ND	NR		115	20	R, J
Benzo(k)fluoranthene	ND	100		ND	NR			20	
Chrysene	17.4133	100		ND	NR		159	20	R, J
Dibenz(a,h)anthracene	ND	100		ND	NR			20	
Fluoranthene	ND	100		ND	NR			20	
Fluorene	ND	100		ND	NR			20	
Indeno(1,2,3-cd)pyrene	ND	100		ND	NR			20	
Naphthalene	ND	100		ND	NR			20	
Phenanthrene	ND	100		ND	NR			20	
Pyrene	ND	100		ND	NR			20	
Surrogate: 1,2-Dichlorobenzene-d4	*26.01*		*33.3333*		*78.0*	*23 - 104*			
Surrogate: 2-Fluorobiphenyl	*26.68*		*33.3333*		*80.0*	*29 - 116*			
Surrogate: Nitrobenzene-d5	*24.55*		*33.3333*		*73.7*	*14 - 120*			
Surrogate: 4-Terphenyl-d14	*34.39*		*33.3333*		*103*	*16 - 142*			
Matrix Spike (B7A0160-MS1)		**Source: 1604898-81**		Prepared: 1/6/2017 Analyzed: 1/6/2017					
2-Methylnaphthalene	32.9933	100	33.3333	ND	99.0	27 - 140			J
Acenaphthene	26.8533	100	33.3333	ND	80.6	42 - 107			J
Acenaphthylene	27.0733	100	33.3333	ND	81.2	35 - 116			J
Anthracene	25.3533	100	33.3333	ND	76.1	24 - 140			J
Benzo(a)anthracene	32.8333	100	33.3333	ND	98.5	22 - 139			J
Benzo(a)pyrene	33.6533	100	33.3333	14.5333	57.4	0 - 152			J
Benzo(b)fluoranthene	35.4600	100	33.3333	13.7067	65.3	13 - 135			J
Benzo(g,h,i)perylene	47.4733	100	33.3333	25.7200	65.3	0 - 157			J
Benzo(k)fluoranthene	31.8200	100	33.3333	ND	95.5	17 - 127			J
Chrysene	42.3333	100	33.3333	25.3067	51.1	25 - 128			J
Dibenz(a,h)anthracene	32.5267	100	33.3333	ND	97.6	2 - 143			J
Fluoranthene	39.6333	100	33.3333	15.7400	71.7	46 - 116			J
Fluorene	24.9667	100	33.3333	ND	74.9	40 - 116			J
Indeno(1,2,3-cd)pyrene	35.8467	100	33.3333	9.82000	78.1	0 - 159			J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0160 - MSSEMI_S (continued)									
Matrix Spike (B7A0160-MS1) - Continued		**Source: 1604898-81**		Prepared: 1/6/2017 Analyzed: 1/6/2017					
Naphthalene	28.5800	100	33.3333	ND	85.7	0 - 153			J
Phenanthrene	32.0400	100	33.3333	ND	96.1	21 - 144			J
Pyrene	42.6067	100	33.3333	22.5267	60.2	34 - 122			J
Surrogate: 1,2-Dichlorobenzene-d4	*24.96*		*33.3333*		*74.9*	*23 - 104*			
Surrogate: 2-Fluorobiphenyl	*27.33*		*33.3333*		*82.0*	*29 - 116*			
Surrogate: Nitrobenzene-d5	*26.07*		*33.3333*		*78.2*	*14 - 120*			
Surrogate: 4-Terphenyl-d14	*30.86*		*33.3333*		*92.6*	*16 - 142*			
Matrix Spike Dup (B7A0160-MSD1)		**Source: 1604898-81**		Prepared: 1/6/2017 Analyzed: 1/6/2017					
2-Methylnaphthalene	34.2933	100	33.3333	ND	103	27 - 140	3.86	20	J
Acenaphthene	26.6400	100	33.3333	ND	79.9	42 - 107	0.798	20	J
Acenaphthylene	26.4867	100	33.3333	ND	79.5	35 - 116	2.19	20	J
Anthracene	26.4733	100	33.3333	ND	79.4	24 - 140	4.32	20	J
Benzo(a)anthracene	35.0733	100	33.3333	ND	105	22 - 139	6.60	20	J
Benzo(a)pyrene	37.1533	100	33.3333	14.5333	67.9	0 - 152	9.89	20	J
Benzo(b)fluoranthene	37.7533	100	33.3333	13.7067	72.1	13 - 135	6.26	20	J
Benzo(g,h,i)perylene	44.0400	100	33.3333	25.7200	55.0	0 - 157	7.50	20	J
Benzo(k)fluoranthene	31.8733	100	33.3333	ND	95.6	17 - 127	0.167	20	J
Chrysene	56.1800	100	33.3333	25.3067	92.6	25 - 128	28.1	20	R, J
Dibenz(a,h)anthracene	31.8000	100	33.3333	ND	95.4	2 - 143	2.26	20	J
Fluoranthene	36.2533	100	33.3333	15.7400	61.5	46 - 116	8.91	20	J
Fluorene	24.3133	100	33.3333	ND	72.9	40 - 116	2.65	20	J
Indeno(1,2,3-cd)pyrene	34.5000	100	33.3333	9.82000	74.0	0 - 159	3.83	20	J
Naphthalene	28.3867	100	33.3333	ND	85.2	0 - 153	0.679	20	J
Phenanthrene	31.8200	100	33.3333	ND	95.5	21 - 144	0.689	20	J
Pyrene	46.6533	100	33.3333	22.5267	72.4	34 - 122	9.07	20	J
Surrogate: 1,2-Dichlorobenzene-d4	*24.95*		*33.3333*		*74.8*	*23 - 104*			
Surrogate: 2-Fluorobiphenyl	*26.95*		*33.3333*		*80.8*	*29 - 116*			
Surrogate: Nitrobenzene-d5	*23.26*		*33.3333*		*69.8*	*14 - 120*			
Surrogate: 4-Terphenyl-d14	*31.23*		*33.3333*		*93.7*	*16 - 142*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/09/2017

Notes and Definitions

S4	Surrogate was diluted out.
S2	Surrogate recovery was below laboratory acceptance limit. Reextraction and/or reanalysisconfirms low recovery caused by matrix effects.
S12	Surrogate recovery outside in-house established limit but within method default criteria.
S1	Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample.
R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
L2	Laboratory control sample outside of acceptance limits. Reextraction and/or reanalysis is not possible due to limited amount of sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting Inc
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel: 949-572-8129 Fax:

SEND REPORT TO:
Attn: Julie Harriman Email: JHarriman@leightongroup.com
Company: Leighton Consulting Inc
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: AcctPayable@leightongroup.com
Company: Same as above
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD - Burroughs MS
Project No.: 603378.006
Sampler: BES
Quote No:
PO #: 603378.006
Special Instructions/Comments: J Flag Needed

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1	1604898 -1	FB10-1-0.5	12/28/16	0910
2	-2	FB10-1-1.5		0913
3	-3	FB10-1-2.5		0915
4	-4	FB10-2-0.5		0850
5	-5	FB10-2-1.5		0855
6	-6	FB10-2-2.5		0900
7	-7	FB10-3-0.5		0822
8	-8	FB10-3-1.5		0824
9	-9	FB10-3-2.5		0825
10	-10	FB10-4-0.5		0815

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Arsenic; VOA

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

TAT: 5

Container: # 1 5 1; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NaAsO2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

REMARKS

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Steiner — Submitter Print Name
Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1	Becky Steiner	12/28/16	1440			
2		12/28/16	1800		12/28/16	1700
3					12/28/16	1830

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel:
Fax:

SEND REPORT TO:
Attn: Leighton Consulting - Julie Harriman Email: JHarriman@leightongroup.com
Company: same as above
Address:
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: Accountsable@leightongroup.com
Company: Same as above
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD - Burroughs MS
Project No.: 603378.002
Sampler: BKS
Quote No:
PO #: 603378.002
Special Instructions/Comments: J FLAG NEEDED

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Arsenic; Lead

Encircle Sample Matrix: (SOIL) SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

Container: TAT; # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	REMARKS
1	1604997 - 11	FB 10 - 4 - 1.5	12/28/16	0818	
2	-12	FB 10 - 4 - 2.5		0925	
3	-13	FB 6 - 1 - 0.5		0745	
4	-14	FB 6 - 1 - 1.5		0750	
5	-15	FB 6 - 1 - 2.5		0754	
6	-16	FB 6 - 2 - 0.5		0751	
7	-17	FB 6 - 2 - 1.5		0754	
8	-18	FB 6 - 2 - 2.5		0752	
9	-19	FB 6 - 3 - 0.5		0802	
10	-20	FB 6 - 3 - 1.5		0805	

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Stear — Submitter Print Name — Signature

Relinquished by: (Signature and Printed Name) Becky Stear	Date: 12/28/16	Time: 1700	Received by: (Signature and Printed Name)	Date: 12/29/16	Time: 0900
Relinquished by: (Signature and Printed Name)	Date: 12/28/16	Time:	Received by: (Signature and Printed Name)	Date: 12/28/16	Time: 1835
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc — Address: 17781 Cowan — Tel: 949-572-8125
City: Irvine — State: CA — Zip: 92614 — Fax:

SEND REPORT TO:
Attn: Julie Harriman — Email: JHarriman@leightongroup.com
Company: same as above
Address:
City: — State: — Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable — Email: AcctPayable@leightongroup.com
Company: same as above
Address:
City: — State: — Zip:

PROJECT SAMPLES

Project Name: LAUSD - Burroughs MS
Project No.: 603378.006
Sampler: BGS
Quote No:
PO #: 603378.006
Special Instructions/Comments: 5 FLAG NAPER

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1	1C04895-21	FB16-3-2.5		0808
2	-22	FB16-4-0.5		0745
3	-23	FB16-4-1.5		0750
4	-24	FB16-4-2.5		0754
5	-25	FB11-1-0.5		1145
6	-26	FB11-1-1.5		1150
7	-27	FB11-1-2.5		1155
8	-28	FB11-2-0.5		1110
9	-29	FB11-2-1.5		1115
10	-30	FB11-2-2.5		1120

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Arsenic; VOA

Encircle Sample Matrix: (SOIL) SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

TAT: 5 | Container: # 1 | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister: 5 | Material: 1=Glass; 2=Plastic; 3=Metal: 1

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

REMARKS

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Steeves — Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Becky Steeves	12/28/16	1645/1700		12/28/16	1700
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	12/28/16	1830		12/28/16	1830
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel: 949-572-8129 Fax:

SEND REPORT TO:
Attn: Jubie Harriman Email: JHarriman@leightongroup.com
Company: Same as above
Address:
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: AcctPayable@leightongroup.com
Company: Same as above
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Burroughs MS
Project No.: 603378.006
Sampler: BS
Quote No:
PO #: 603378.006
Special Instructions/Comments: 5 FLAG Arsenic

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Arsenic; Lead

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

TAT

Container: # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7= Canister; Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	8081	8082	Arsenic	Lead	SOIL	TAT	#	Type	Material	REMARKS
1	1604898-31	FB11-3-0.5	12/28/16	1147	X		X	X	X	5	1	G	J	
2	-32	FB11-3-1.5		1152										
3	-33	FB11-3-2.5		1157										
4	-34	FB11-4-0.5		1117										
5	-35	FB11-4-1.5		1122										
6	-36	FB11-4-2.5		1125										
7	-37	FB12-1-0.5		1049		X								
8	-38	FB12-1-1.5		1053										
9	-39	FB12-1-2.5		1055										
10	-40	FB13-1-0.5		1050										

TERMS & CONDITIONS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Shaw — Submitter Print Name — Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1	Becky Shaw	12/28/16	1445/1700		12/28/16	1700
2		12/28/16	1830		12/28/16	1830
3		Date:	Time:		Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc
Address: 17781 Cowan #
City: Irvine State: CA Zip: 92614
Tel: 949-572-8125 Fax:

SEND REPORT TO:
Attn: Jude Harriman Email: JHarriman@leightongroup.com
Company: Same as above
Address:
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: AcctPayable@leightongroup.com
Company: Same as above
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name: Lasso - Burroughs MS
Project No.: 603378.004
Sampler: BES
Quote No:
PO #: 603378.004
Special Instructions/Comments: J Flag needed

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1	1004898-41	FB13-1-1.5	12/28/16	1054
2	-42	FB13-1-2.5		1056
3	-43	FB14-1-0.5		1030
4	-44	FB14-1-1.5		1026
5	-45	FB14-1-2.5		1040
6	-46	FB14-2-0.5		1000
7	-47	FB14-2-1.5		1010
8	-48	FB14-2-2.5		1020
9	-49	FB14-3-0.5		0950
10	-50	FB14-3-1.5		0953

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides) X; 8082(PCBs) X; 6010 / 7000(Title 22 Metals); TO-15; Arsenic X; Lead X

Encircle Sample Matrix: SOLV SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

TAT: 5

Container: # 1; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister: S; Material: 1=Glass; 2=Plastic; 3=Metal: S

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3: 1

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

REMARKS

SAMPLE RECEIPT

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Skaar — Submitter Print Name
Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Becky Skaar	12/28/16	1645/1700		12/28/16	1700
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	12/28/16	1830		12/28/16	1830
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc	Address: 17781 Cowan		Tel: 949-572-8129
SEND REPORT TO:	City: Irvine	State: CA Zip: 92614	Fax:
Attn: Justin Harriman	Email: JHarriman@leightongroup.com		
Company: Same as above			
Address:			
City:	State:	Zip:	

SEND INVOICE TO:	☐ same as SEND REPORT TO
Attn: Accounts Payable	Email: AcctPayable@leightongroup.com
Company:	
Address:	
City:	State: Zip:

PROJECT SAMPLES

Project Name: LAUSD - Burroughs MS	Quote No:	Special Instructions/Comments: J Flag Needed
Project No.: 603378.004	PO #: 603378.004	
Sampler: BS		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Pb Lead	TAT	#	Type	Material	REMARKS
1	1604898-51	FB14-3-2.5	12/28/16	0955					X				X	5	1	5	1	
2	-52	FB14-4-0.5		0952														
3	-53	FB14-4-1.5 BS		0954														
4	-54	FB14-4-2.5 BS		0956														
5	-55	FB14-5-0.5		1010														
6	-56	FB14-5-1.5		1015														
7	-57	FB14-5-2.5		1020														
8	-58	FB14-6-0.5		1032						X								
9	-59	FB14-6-1.5		1035														
10	-60	FB14-6-2.5		1038														

Encircle or Write Requested Analysis

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NAASO3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Skeen — Submitter Print Name

Signature

Relinquished by: (Signature and Printed Name) Becky Skeen	Date: 12/28/16	Time: 1700	Received by: (Signature and Printed Name) FedEx	Date: 12/28/16	Time: 1900
Relinquished by: (Signature and Printed Name) FedEx	Date: 12/28/16	Time: 1830	Received by: (Signature and Printed Name) Fedex	Date: 12/29/16	Time: 1830
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 7 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc
Address: 17781 Cowan
Tel: 949-572-8121
City: Irvine State: CA Zip: 92614 Fax:

SEND REPORT TO:
Attn: BS LAOSD Julie Harriman
Email: JHarriman@leightongroup.com
Company: Same as above
Address:
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable
Email: AcctPayable@leightongroup.com
Company: Same as above
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name: LAOSD - Burroughs MS
Project No.: 603378.002
Sampler: DES
Quote No:
PO #: 603378.006
Special Instructions/Comments: No lead analysis for EB11-1-2.5, EB11-2-2.5, EB12-1-2.5 JPlay Notified

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Arsenic 1000

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

Container: TAT; # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	Soil	TAT	#	Type	Material	REMARKS
1	1604959-01	EB11-1-0.5	12/28/16	1415	X	5	1	5	1	
2	-02	EB11-1-1.5		1420						
3	-03	EB11-1-2.5		1426						BAS
4	-04	EB11-2-0.5		1412						
5	-05	EB11-2-1.5		1418						
6	-06	EB11-2-2.5		1423						BAS
7	-07	EB12-1-0.5		1400						
8	-08	EB12-1-1.5		1405						
9	-09	EB12-1-2.5		1410						BAS
10	-10	EB12-2-0.5	↓	1402	↓	↓	↓	↓	↓	

SAMPLE RECEIPT

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Stevens — Submitter Print Name
Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Becky Stevens	12/28/16	1700		12/28/16	1700
	12/28/16	1880		12/28/16	1830

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 8 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc
Address: 17781 Cowan
Tel: 949-572-8129
City: Irvine State: CA Zip: 92614 Fax:

SEND REPORT TO:
Attn: Leighton Cons Julie Harriman Email:
Company:
Address:
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts PAYABLE Email:
Company:
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name: LA550 - Burroughs MS
Project No.: 603378.002
Sampler: BES
Quote No:
PO #:
Special Instructions/Comments: JFlag Needed

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1	1604898-71	EB12-2-1.5	12/28/14	1407
2	-72	EB12-2-2.5		1412
3	-73	EB9-1-0.5		1307
4	-74	EB9-1-1.5		1312
5	-75	EB9-1-2.5		1317
6	-76	EB9-5-0.5		1405
7	-77	EB9-5-1.5		1410
8	-78	EB9-5-2.5		1415
9	-79	EB9-7-0.5		1305
10	-80	EB9-7-1.5		1310

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; LC&A; Airsize

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
5	1	5	1		
↓	↓	↓	↓		

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Shaw — Submitter Print Name — Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Becky Shaw	12/28/14	1700	Matt McCoe/ATL	12/29/14	1700
Matt McCoe/ATL	12/28/14	1830	[illegible]	12/29/14	1830

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 9 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc	Address: 17781 Cowan		Tel: 949-572-8129
	City: Irvine	State: CA Zip: 92614	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: John Harriman Email: JHarriman@leightongroup.com	Attn: Email:
Company:	Company:
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
LA650 - Burroughs MS		J Flag needed
Project No.: 603778.006	PO #: 603778.006	
Sampler: BES		

| ITEM | Lab No. | Sample Description: Sample ID / Location | Date | Time | 8260 / 624 (Volatiles) | 8015(GRO) | 8015(DRO) | 8270(Semi-volatiles) | 8081(Organochlorine Pesticides) | 8082(PCBs) | 6010 / 7000(Title 22 Metals) | TO-15 | Lead | Arsenic | | | | |

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 10 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel:
Fax:

SEND REPORT TO:
Attn: Jute Harriman Email: JHarriman@leightongroup.com
Company:
Address:
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:
Company:
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name: LAWD - Burroughs MS
Project No.: 603373.006
Sampler: BES
Quote No:
PO #: 603373.006
Special Instructions/Comments: 5 FLAG NCGOU

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	1600	Arsenic
1	1612498 -91	EB13-1-2.5	12/28/16	1336					X					X
2	-92	EB13-2-0.5		1326					XX					XX
3	-93	EB13-2-1.5		1331					X					X
4	-94	EB13-2-2.5		1335					X					X
5	-95	EB15-1-0.5		1340					X					X
6	-96	EB15-1-1.5		1345					X					X
7	-97	EB15-1-2.5		1350					X					X
8	-98	EB15-2-0.5		1353										X
9	-99	EB15-2-1.5		1355					X					X
10	-AA	EB15-2-2.5		1400					X					X

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

TAT: 5

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

REMARKS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Shaver — Signature

Submitter Print Name

Relinquished by: (Signature and Printed Name) Becky Shaver	Date: 12/28/16	Time: 1700	Received by: (Signature and Printed Name)	Date: 12/28/16	Time: 1700
Relinquished by: (Signature and Printed Name)	Date: 12/28/16	Time: 1830	Received by: (Signature and Printed Name)	Date: 12/28/16	Time: 1830
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc. Address: 17781 Cowan Tel: 949-753-9836
City: Irvine State: CA Zip: 92614 Fax: 949-250-1114

SEND REPORT TO:
Attn: Julie Harriman Email: Jharriman@leightongroup.com
Company:
Address: SAme AS Above
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Acct. Payable Email:
Company:
Address: SAme AS Above
City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD - Burroughs MS
Project No.: 603378.006
Sampler: KCH/BS
Quote No:
PO #:
Special Instructions/Comments: J Flag Needed

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8083(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	TPH - C6 - C44	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	QA/QC	REMARKS
1	1604494-AB	EB1-1-1.0'	12-28-16	1530									X	X						1	5			
2	-AC	EB1-1-5.0'	↓	1546									X	X						1	5			
3	-AD	EB1-1-10.0'	↓	1603									X	X						1	1			
4																								
5	-AE	EQB122816	12-28-16	1530	X	X	X				X					X			1	8				
6																								
7																								
8																								
9																								
10																								

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Stewart — Submitter Print Name
Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Becky Stewart	12/28/16	1700	[illegible]	12/28/16	1710
[illegible]	12/28/16	1830	[illegible]	12/28/16	1830
[illegible]	Date:	Time:	[illegible]	Date:	Time:

Page 177 of 184

Carmen Aguila

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, December 30, 2016 3:25 PM
To: Carmen Aguila
Cc: customer.relations@atlglobal.com; Rachelle Arada; Becky Steever
Subject: RE: Burroughs MS-LAUSD, 603378.006
Attachments: correct COC p10 of 11.pdf

Importance: High

Carmen,

We compared the information to our boring logs and have the following solution:

- The jar labeled "EB15-1-0.5 @1353" corresponds to the sample on the COC labeled as "EB15-1-2.5" and the time on the jar is correct. See attached corrected sheet.
- The jar labeled "EB15-2-0.5@1350" is correct. See attached corrected time on the COC.

Thank you,
Julie

From: Carmen Aguila [mailto:Carmen@atlglobal.com]
Sent: Friday, December 30, 2016 1:42 PM
To: Julie Harriman
Cc: customer.relations@atlglobal.com; Rachelle Arada
Subject: RE: Burroughs MS-LAUSD, 603378.006

Okay. Thanks.

I don't know if this will help. Attached is a photo of the samples in question.

Thank you,
Carmen

From: Julie Harriman [mailto:jharriman@leightongroup.com]
Sent: Friday, December 30, 2016 1:37 PM
To: Carmen Aguila
Cc: customer.relations@atlglobal.com; Rachelle Arada
Subject: RE: Burroughs MS-LAUSD, 603378.006

I'm looking into it, but may not have an explanation until end of day.

Thank you,
Julie

From: Carmen Aguila [mailto:Carmen@atlglobal.com]
Sent: Friday, December 30, 2016 10:24 AM
To: Julie Harriman
Cc: customer.relations@atlglobal.com; Rachelle Arada
Subject: Burroughs MS-LAUSD, 603378.006

Hi Julie,

For the samples received 12/28, we do not have a sample labeled EB15-1-2.5 @1350, but we have an extra sample labeled EB15-1-0.5 @1353.

Also, for sample EB15-2-0.5 @1353, the time indicated on the jar is 1350.

Please advise. Attached is a copy of the CoC received.

Thank you,

Carmen Aguila
Sample Control

Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 245
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 10 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATL LOG No. 20170715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ USPS	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP. deg C		
☐ Other	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting Inc — Address: 17781 Cowan — Tel:
City: Irvine — State: CA — Zip: 92614 — Fax:

SEND REPORT TO:
Attn: Jutt Harriman — Email: JHarriman@leightongroup.com
Company:
Address:
City: — State: — Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: — Email:
Company:
Address:
City: — State: — Zip:

PROJECT SAMPLES

Project Name: LAWP - Burroughs MS
Project No.: 603378.002
Sampler: BES
Quote No:
PO #: 603378.002
Special Instructions/Comments: 5 Flag 1400 Arsenic

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1	1612798-91	EB13-1-2.5	12/28/16	1336
2	-92	EB13-2-0.5		1326
3	-93	EB13-2-1.5		1331
4	-94	EB13-2-2.5		1335
5	-95	EB15-1-0.5		1340
6	-96	EB15-1-1.5		1345
7	-97	EB15-1-2.5	JH 1353 ~~1250~~	
8	-98	EB15-2-0.5	JH 1350 ~~1355~~	
9	-99	EB15-2-1.5		1355
10	-100	EB15-2-2.5		1400

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; 1400 Arsenic

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

TAT: 5

Container: # 1; Type: 1=Tube, 2=VOA, 3=Liter, 4=Pint, 5=Jar, 6=Todar, 7=Canister: 1; Material: 1=Glass, 2=Plastic, 3=Metal: 1

Preservative: 1=HCl, 2=HNO3, 3=H2SO4, 4=4C, 5=2=(4+1), 6=NaOH, 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

REMARKS

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday, Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 500% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 300% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 150% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 50% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)

   Weekend, holiday, after-hours work - ask for quote.
   Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab - ask for quote.
   Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples, air samples will be disposed of after 14 calendar days after receipt of samples.
4. Electronic records maintained for five (5) years from report date.
5. Hard copy reports will be disposed of after 45 calendar days from report date.
6. Storage and Report fees:
   Liquid & solid samples: Complimentary storage for forty five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Becky Steuer — Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Becky Steuer	12/28/16	1640	[illegible]	12/28/16	1700
[illegible]	12/28/16	1850	[illegible]	12/28/16	1850
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

Rachelle Arada

From: Carmen Aguila
Sent: Friday, December 30, 2016 5:55 PM
To: Rachelle Arada
Cc: customer.relations@atlglobal.com; Eddie Rodriguez
Subject: FW: Burroughs MS-LAUSD, 603378.006

Importance: High

Rache,

Please see changes on the CoC received 12/28. Thanks.

Thanks,
Carmen

From: Julie Harriman [mailto:jharriman@leightongroup.com]
Sent: Friday, December 30, 2016 4:17 PM
To: Carmen Aguila
Cc: Becky Steever; Wallace Sconiers
Subject: RE: Burroughs MS-LAUSD, 603378.006
Importance: High

Carmen,

The following samples submitted on 12/28/2016 should be placed on hold:

- EB11-1-2.5
- EB11-2-2.5
- EB12-1-2.5
- EB12-2-2.5
- EB9-1-2.5
- EB9-5-2.5
- EB13-1-2.5
- EB13-2-2.5
- EB15-1-2.5
- EB15-2-2.5

The following samples submitted on 12/28/2016 should be analyzed for Title 22 metals, PAHs by 8270SIM and PCBs and not for what is shown on the COC:

- EB9-7-0.5
- EB9-7-1.5
- EB9-7-2.5

The following sample submitted on 12/28/2016 should be analyzed for lead in addition to what is shown on the COC:

- FB5-1-2.5
- FB5-2-2.5

The following sample submitted on 12/28/2016 should be analyzed for arsenic and OCPs in addition to what is shown on the COC:

- EB15-2-0.5

The following samples **submitted on 12/29/2016** were incorrectly identified as EB15 samples in the field and we would like the samples corrected to be logged and reported as EB5 samples as follows:

- EB15-1-0.5 should be EB5-1-0.5
- EB15-1-1.5 should be EB5-1-1.5
- EB15-1-2.5 should be EB5-1-2.5
- EB15-2-0.5 should be EB5-2-0.5
- EB15-2-1.5 should be EB5-2-1.5
- EB15-2-2.5 should be EB5-2-2.5
- EB15-3-0.5 should be EB5-3-0.5
- EB15-3-1.5 should be EB5-3-1.5
- EB15-3-2.5 should be EB5-3-2.5
- EB15-4-0.5 should be EB5-4-0.5
- EB15-4-1.5 should be EB5-4-1.5
- EB15-4-2.5 should be EB5-4-2.5
- EB15-5-0.5 should be EB5-5-0.5
- EB15-5-1.5 should be EB5-5-1.5
- EB15-5-2.5 should be EB5-5-2.5
- EB15-6-0.5 should be EB5-6-0.5
- EB15-6-1.5 should be EB5-6-1.5
- EB15-6-2.5 should be EB5-6-2.5

Thank you,

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

Please consider the environment before printing this e-mail.

Rachelle Arada

From: Carmen Aguila
Sent: Friday, December 30, 2016 7:30 PM
To: Julie Harriman
Cc: customer.relations@atlglobal.com; Rachelle Arada
Subject: RE: Burroughs MS-LAUSD, 603378.006

Okay.

From: Julie Harriman [mailto:jharriman@leightongroup.com]
Sent: Friday, December 30, 2016 7:25 PM
To: Carmen Aguila
Subject: RE: Burroughs MS-LAUSD, 603378.006

I think we could do OCPs, arsenic and lead at a minimum. If there is enough, TPHcc would be good to get too.
-Julie

Sent from my Verizon 4G LTE smartphone

-------- Original message --------
From: Carmen Aguila <Carmen@atlglobal.com>
Date: 12/30/16 6:19 PM (GMT-08:00)
To: Julie Harriman <jharriman@leightongroup.com>
Cc: Wallace Sconiers <wsconiers@leightongroup.com>, Becky Steever <BSteever@leightongroup.com>, Rachelle Arada <Rachelle@atlglobal.com>, customer.relations@atlglobal.com
Subject: RE: Burroughs MS-LAUSD, 603378.006

Hi Julie,

For the EQB122816 sample, we only received 1-1 L amber container, this can be use for only one of the following test: TPHcc or OCPs/PCBs or PAHs by 8270SIM. Each test need 1-1 L container. Please let us know which one we need to run.

Thank you,
Carmen

From: Julie Harriman [mailto:jharriman@leightongroup.com]
Sent: Friday, December 30, 2016 4:37 PM
To: Carmen Aguila
Cc: Wallace Sconiers; Becky Steever
Subject: RE: Burroughs MS-LAUSD, 603378.006
Importance: High

Carmen,

The following sample submitted on 12/28/2016 should be analyzed for TPHcc, Title 22 metals, OCPs, PAHs by 8270SIM and PCBs and not for what is shown on the COC:

- EQB122816

The following sample submitted on 12/29/2016 should be analyzed for lead, arsenic, OCPs, and PCBs and not for what is shown on the COC:

- EQB-12-29-16

The following sample submitted on 12/29/2016 does not need to be analyzed for PCBs, but is otherwise correct on the COC:

- DRUM1

Thank you,

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell
Geotechnical | Geoenvironmental | Materials Testing
SOLUTIONS YOU CAN BUILD ON


Please consider the environment before printing this e-mail.

ADVANCED TECHNOLOGY LABORATORIES

January 23, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

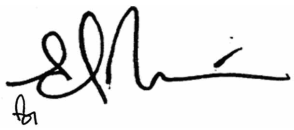
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1604898
Client Reference : LAUSD-Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on December 28, 2016 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB10-1-0.5	1604898-01	Soil	12/28/16 9:10	12/28/16 17:00
FB10-1-1.5	1604898-02	Soil	12/28/16 9:13	12/28/16 17:00
FB10-1-2.5	1604898-03	Soil	12/28/16 9:15	12/28/16 17:00
FB10-2-0.5	1604898-04	Soil	12/28/16 8:50	12/28/16 17:00
FB10-2-1.5	1604898-05	Soil	12/28/16 8:55	12/28/16 17:00
FB10-2-2.5	1604898-06	Soil	12/28/16 9:00	12/28/16 17:00
FB10-3-0.5	1604898-07	Soil	12/28/16 8:22	12/28/16 17:00
FB10-3-1.5	1604898-08	Soil	12/28/16 8:24	12/28/16 17:00
FB16-1-1.5	1604898-14	Soil	12/28/16 7:50	12/28/16 17:00
FB14-4-1.5	1604898-53	Soil	12/28/16 9:54	12/28/16 17:00
EB11-1-0.5	1604898-61	Soil	12/28/16 14:15	12/28/16 17:00
EB11-1-1.5	1604898-62	Soil	12/28/16 14:20	12/28/16 17:00
EB11-2-0.5	1604898-64	Soil	12/28/16 14:12	12/28/16 17:00
EB12-1-0.5	1604898-67	Soil	12/28/16 14:00	12/28/16 17:00
EB12-1-2.5	1604898-69	Soil	12/28/16 14:10	12/28/16 17:00
EB9-1-0.5	1604898-73	Soil	12/28/16 13:07	12/28/16 17:00
EB9-5-0.5	1604898-76	Soil	12/28/16 14:05	12/28/16 17:00
EB9-5-1.5	1604898-77	Soil	12/28/16 14:10	12/28/16 17:00
EB9-7-0.5	1604898-79	Soil	12/28/16 13:05	12/28/16 17:00
EB9-7-1.5	1604898-80	Soil	12/28/16 13:10	12/28/16 17:00
EB10-2-0.5	1604898-82	Soil	12/28/16 14:25	12/28/16 17:00
FB5-1-0.5	1604898-83	Soil	12/28/16 14:35	12/28/16 17:00
FB5-1-1.5	1604898-84	Soil	12/28/16 14:40	12/28/16 17:00
FB5-2-1.5	1604898-87	Soil	12/28/16 14:37	12/28/16 17:00
EB13-1-0.5	1604898-89	Soil	12/28/16 13:25	12/28/16 17:00
EB13-2-0.5	1604898-92	Soil	12/28/16 13:26	12/28/16 17:00
EB15-1-0.5	1604898-95	Soil	12/28/16 13:40	12/28/16 17:00
EB15-1-2.5	1604898-97	Soil	12/28/16 13:53	12/28/16 17:00

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB10-1-0.5

Lab ID: 1604898-01

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:38	
Lead	**17**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:38	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB10-1-1.5

Lab ID: 1604898-02

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:43	
Lead	**8.8**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:43	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB10-1-2.5

Lab ID: 1604898-03

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:44	
Lead	**8.0**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:44	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB10-2-0.5

Lab ID: 1604898-04

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:45	
Lead	**6.8**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:45	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB10-2-1.5

Lab ID: 1604898-05

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.7**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:46	
Lead	**3.8**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:46	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB10-2-2.5

Lab ID: 1604898-06

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:50	
Lead	**4.3**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:50	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB10-3-0.5

Lab ID: 1604898-07

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:51	
Lead	**9.1**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:51	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB10-3-1.5

Lab ID: 1604898-08

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0113	01/05/2017	01/06/17 09:52	
Lead	**4.3**	1.0	0.11	1	B7A0113	01/05/2017	01/06/17 09:52	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB16-1-1.5

Lab ID: 1604898-14

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:00	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1.3**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 15:08	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB14-4-1.5

Lab ID: 1604898-53

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.8**	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:02	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.9**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 15:12	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB11-1-0.5

Lab ID: 1604898-61

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.9**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 15:16	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB11-1-1.5

Lab ID: 1604898-62

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.0**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 15:20	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB11-2-0.5

Lab ID: 1604898-64

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.9**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 15:24	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB12-1-0.5

Lab ID: 1604898-67

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	0.13	20	B7A0561	01/19/2017	01/19/17 15:28	D1
Lead	**3.2**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 15:28	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB12-1-2.5

Lab ID: 1604898-69

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**11**	1.0	0.70	1	B7A0545	01/19/2017	01/19/17 11:44	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB9-1-0.5

Lab ID: 1604898-73

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.38**	0.25	0.014	5	B7A0629	01/21/2017	01/23/17 13:10	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**16**	1.0	0.057	20	B7A0637	01/23/2017	01/23/17 12:39	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB9-5-0.5

Lab ID: 1604898-76

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.3**	1.0	0.057	20	B7A0637	01/23/2017	01/23/17 12:55	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB9-5-1.5

Lab ID: 1604898-77

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.1**	1.0	0.057	20	B7A0637	01/23/2017	01/23/17 12:59	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB9-7-0.5

Lab ID: 1604898-79

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.34**	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:04	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**12**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 15:32	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB9-7-1.5

Lab ID: 1604898-80

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.036**	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:07	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.3**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 15:55	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB10-2-0.5

Lab ID: 1604898-82

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:09	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.6**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 15:59	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB5-1-0.5

Lab ID: 1604898-83

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.9**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 16:02	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB5-1-1.5

Lab ID: 1604898-84

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.5**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 16:06	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID FB5-2-1.5

Lab ID: 1604898-87

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.0**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 16:10	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB13-1-0.5

Lab ID: 1604898-89

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.016**	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:11	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.6**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 16:14	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB13-2-0.5

Lab ID: 1604898-92

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.053**	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:14	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**11**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 16:18	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB15-1-0.5

Lab ID: 1604898-95

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.13	20	B7A0561	01/19/2017	01/19/17 16:30	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Client Sample ID EB15-1-2.5

Lab ID: 1604898-97

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**14**	1.0	0.70	1	B7A0545	01/19/2017	01/19/17 11:57	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0113 - EPA 3050B_S									
Blank (B7A0113-BLK1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0113-BS1)				Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	46.0135	1.0	50.0000		92.0	80 - 120			
Lead	47.5791	1.0	50.0000		95.2	80 - 120			
Duplicate (B7A0113-DUP1)		**Source: 1604898-01**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	2.00522	1.0		1.69899	NR		16.5	20	
Lead	6.56596	1.0		16.6474	NR		86.9	20	R
Matrix Spike (B7A0113-MS1)		**Source: 1604898-01**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	105.374	1.0	125.000	1.69899	82.9	59 - 103			
Lead	123.036	1.0	125.000	16.6474	85.1	34 - 129			
Matrix Spike Dup (B7A0113-MSD1)		**Source: 1604898-01**		Prepared: 1/5/2017 Analyzed: 1/6/2017					
Arsenic	90.6519	1.0	125.000	1.69899	71.2	59 - 103	15.0	20	
Lead	102.365	1.0	125.000	16.6474	68.6	34 - 129	18.3	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0545 - EPA 3050B_S									
Blank (B7A0545-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	ND	1.0			NR				
Lead	0.148873	1.0			NR				J
LCS (B7A0545-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	43.9499	1.0	50.0000		87.9	80 - 120			
Lead	45.6186	1.0	50.0000		91.2	80 - 120			
Duplicate (B7A0545-DUP1)		**Source: 1604898-69**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	11.6112	1.0		11.2846	NR		2.85	20	
Lead	6.66799	1.0		5.60073	NR		17.4	20	
Matrix Spike (B7A0545-MS1)		**Source: 1604898-69**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	103.128	1.0	125.000	11.2846	73.5	59 - 103			
Lead	99.5272	1.0	125.000	5.60073	75.1	34 - 129			
Matrix Spike Dup (B7A0545-MSD1)		**Source: 1604898-69**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	101.466	1.0	125.000	11.2846	72.1	59 - 103	1.62	20	
Lead	97.8044	1.0	125.000	5.60073	73.8	34 - 129	1.75	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0565 - EPA 3010A_S									
Blank (B7A0565-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	0.050			NR				
Blank (B7A0565-BLK2)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	0.050			NR				
LCS (B7A0565-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	1.00048	0.050	1.00000		100	80 - 120			
Duplicate (B7A0565-DUP1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	0.033328	0.25		0.042393	NR		23.9	20	R, J
Duplicate (B7A0565-DUP2)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	0.111112	0.25		0.136256	NR		20.3	20	R, J
Matrix Spike (B7A0565-MS1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.36348	0.25	2.50000	0.042393	92.8	78 - 109			
Matrix Spike (B7A0565-MS2)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.47318	0.25	2.50000	0.136256	93.5	78 - 109			
Matrix Spike Dup (B7A0565-MSD1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.29686	0.25	2.50000	0.042393	90.2	78 - 109	2.86	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0629 - EPA 3010A_S									
Blank (B7A0629-BLK1)				Prepared: 1/21/2017 Analyzed: 1/23/2017					
Lead	ND	0.050			NR				
LCS (B7A0629-BS1)				Prepared: 1/21/2017 Analyzed: 1/23/2017					
Lead	0.907456	0.050	1.00000		90.7	80 - 120			
Duplicate (B7A0629-DUP1)		**Source: 1604246-63**		Prepared: 1/21/2017 Analyzed: 1/23/2017					
Lead	0.105580	0.25		0.115129	NR		8.65	20	J
Matrix Spike (B7A0629-MS1)		**Source: 1604246-63**		Prepared: 1/21/2017 Analyzed: 1/23/2017					
Lead	2.32413	0.25	2.50000	0.115129	88.4	78 - 109			
Matrix Spike Dup (B7A0629-MSD1)		**Source: 1604246-63**		Prepared: 1/21/2017 Analyzed: 1/23/2017					
Lead	2.33160	0.25	2.50000	0.115129	88.7	78 - 109	0.321	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0561 - STLC_S Extraction									
Blank (B7A0561-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
Blank (B7A0561-BLK2)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0561-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	2.24137		2.00000		112	80 - 120			
Lead	2.14963		2.00000		107	80 - 120			
Duplicate (B7A0561-DUP1)		**Source: 1604898-79**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	0.136005	1.0		ND	NR			20	J
Lead	12.4000	1.0		12.1417	NR		2.11	20	
Duplicate (B7A0561-DUP2)		**Source: 1604921-05**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	0.183837	1.0		0.250542	NR		30.7	20	J
Lead	4.75475	1.0		4.87903	NR		2.58	20	
Matrix Spike (B7A0561-MS1)		**Source: 1604898-79**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	2.68201		2.50000	0.075363	104	90 - 110			
Lead	14.5087		2.50000	12.1417	94.7	44 - 130			
Matrix Spike (B7A0561-MS2)		**Source: 1604921-05**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	2.58076		2.50000	0.250542	93.2	90 - 110			
Lead	6.84500		2.50000	4.87903	78.6	44 - 130			
Matrix Spike Dup (B7A0561-MSD1)		**Source: 1604898-79**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	2.67807		2.50000	0.075363	104	90 - 110	0.147	20	
Lead	14.4485		2.50000	12.1417	92.3	44 - 130	0.416	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0637 - STLC_S Extraction									
Blank (B7A0637-BLK1)				Prepared: 1/23/2017 Analyzed: 1/23/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0637-BS1)				Prepared: 1/23/2017 Analyzed: 1/23/2017					
Arsenic	2.01043		2.00000		101	80 - 120			
Lead	2.02385		2.00000		101	80 - 120			
Duplicate (B7A0637-DUP1)		**Source: 1604898-73**		Prepared: 1/23/2017 Analyzed: 1/23/2017					
Arsenic	ND	1.0		ND	NR			20	
Lead	15.7754	1.0		15.5070	NR		1.72	20	
Matrix Spike (B7A0637-MS1)		**Source: 1604898-73**		Prepared: 1/23/2017 Analyzed: 1/23/2017					
Arsenic	2.51939	1.0	2.50000	ND	101	90 - 110			
Lead	17.1101	1.0	2.50000	15.5070	64.1	44 - 130			
Matrix Spike Dup (B7A0637-MSD1)		**Source: 1604898-73**		Prepared: 1/23/2017 Analyzed: 1/23/2017					
Arsenic	2.50863	1.0	2.50000	ND	100	90 - 110	0.428	20	
Lead	17.3164	1.0	2.50000	15.5070	72.4	44 - 130	1.20	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : LAUSD-Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/23/2017

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, January 13, 2017 10:56 AM
To: Rachelle Arada
Cc: Robert Lovdahl
Subject: Burroughs MS

Rachelle:

Please run the following samples for arsenic by EPA 6010 on standard TAT:

- EB9-6-2.5
- EB12-1-2.5
- EB15-1-2.5

Thank you,
Julie

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, January 13, 2017 11:49 AM
To: Rachelle Arada
Cc: Robert Lovdahl
Subject: Burroughs MS Samples

Rachelle:

Please run soil samples that exceeded 50 mg/kg TTLC-lead for STLC-lead.
Please run soil samples that exceeded 100 mg/kg TTLC-lead for TCLP-lead.

There are approximately 34 samples affected. Do you need me to list all the samples?

Thank you,

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Monday, January 16, 2017 7:24 AM
To: Rachelle Arada
Subject: RE: Burroughs MS Samples

Hi Rachelle:

I also see the following samples to analyze for the below STLC and TCLP analyses

STLC Pb:

1604921-13 EB8-6-0.5
1604898-14 FB16-1-1.5
1604898-53 FB14-4-1.5
1604898-61 EB11-1-0.5
1604898-62 EB11-1-1.5
1604898-64 EB11-2-0.5
1604898-67 EB12-1-0.5
1604898-73 EB9-1-0.5
1604898-76 EB9-5-0.5
1604898-77 EB9-5-1.5
1604898-79 EB9-7-0.5
1604898-80 EB9-7-1.5
1604898-82 EB10-2-0.5
1604898-83 FB5-1-0.5
1604898-84 FB5-1-1.5
1604898-87 FB5-2-1.5
1604898-89 EB13-1-0.5
1604898-92 EB13-2-0.5

TCLP Pb:

1604898-14 FB16-1-1.5
1604898-53 FB14-4-1.5
1604898-73 EB9-1-0.5
1604898-79 EB9-7-0.5
1604898-80 EB9-7-1.5
1604898-82 EB10-2-0.5
1604898-89 EB13-1-0.5
1604898-92 EB13-2-0.5

STLC Arsenic:

1604898-67 EB12-1-0.5
1604898-95 EB15-1-0.5

Thank you,
Julie

Julie C. Harriman, P.E.
Associate Engineer

ADVANCED TECHNOLOGY LABORATORIES

January 20, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1604921
Client Reference : Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on December 29, 2016 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	01/20/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB9-6-1.5	1604921-02	Soil	12/29/16 7:56	12/29/16 16:20
EB9-6-2.5	1604921-03	Soil	12/29/16 7:57	12/29/16 16:20
EB10-1-1.5	1604921-05	Soil	12/29/16 8:01	12/29/16 16:20
EB8-6-0.5	1604921-13	Soil	12/29/16 9:42	12/29/16 16:20
EB5-3-0.5	1604921-37	Soil	12/29/16 12:05	12/29/16 16:20
EB5-4-0.5	1604921-39	Soil	12/29/16 12:00	12/29/16 16:20
EB5-6-1.5	1604921-43	Soil	12/29/16 12:04	12/29/16 16:20

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB9-6-1.5

Lab ID: 1604921-02

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.9**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 16:34	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB9-6-2.5

Lab ID: 1604921-03

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**22**	1.0	0.70	1	B7A0545	01/19/2017	01/19/17 12:00	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB10-1-1.5

Lab ID: 1604921-05

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.9**	1.0	0.057	20	B7A0561	01/19/2017	01/19/17 16:38	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB8-6-0.5

Lab ID: 1604921-13

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.72**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:31	D1, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB5-3-0.5

Lab ID: 1604921-37

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.038**	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:20	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.3**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:32	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB5-4-0.5

Lab ID: 1604921-39

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.7**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:33	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB5-6-1.5

Lab ID: 1604921-43

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1.9**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:34	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0545 - EPA 3050B_S									
Blank (B7A0545-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	ND	1.0			NR				
Lead	0.148873	1.0			NR				J
LCS (B7A0545-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	43.9499	1.0	50.0000		87.9	80 - 120			
Lead	45.6186	1.0	50.0000		91.2	80 - 120			
Duplicate (B7A0545-DUP1)		**Source: 1604898-69**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	11.6112	1.0		11.2846	NR		2.85	20	
Lead	6.66799	1.0		5.60073	NR		17.4	20	
Matrix Spike (B7A0545-MS1)		**Source: 1604898-69**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	103.128	1.0	125.000	11.2846	73.5	59 - 103			
Lead	99.5272	1.0	125.000	5.60073	75.1	34 - 129			
Matrix Spike Dup (B7A0545-MSD1)		**Source: 1604898-69**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Arsenic	101.466	1.0	125.000	11.2846	72.1	59 - 103	1.62	20	
Lead	97.8044	1.0	125.000	5.60073	73.8	34 - 129	1.75	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0565 - EPA 3010A_S									
Blank (B7A0565-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	0.050			NR				
Blank (B7A0565-BLK2)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	0.050			NR				
LCS (B7A0565-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	1.00048	0.050	1.00000		100	80 - 120			
Duplicate (B7A0565-DUP1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	0.033328	0.25		0.042393	NR		23.9	20	R, J
Duplicate (B7A0565-DUP2)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	0.111112	0.25		0.136256	NR		20.3	20	R, J
Matrix Spike (B7A0565-MS1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.36348	0.25	2.50000	0.042393	92.8	78 - 109			
Matrix Spike (B7A0565-MS2)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.47318	0.25	2.50000	0.136256	93.5	78 - 109			
Matrix Spike Dup (B7A0565-MSD1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.29686	0.25	2.50000	0.042393	90.2	78 - 109	2.86	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0561 - STLC_S Extraction									
Blank (B7A0561-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	1.0			NR				
Blank (B7A0561-BLK2)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	1.0			NR				
LCS (B7A0561-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.14963		2.00000		107	80 - 120			
Duplicate (B7A0561-DUP1)		**Source: 1604898-79**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	12.4000	1.0		12.1417	NR		2.11	20	
Duplicate (B7A0561-DUP2)		**Source: 1604921-05**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	4.75475	1.0		4.87903	NR		2.58	20	
Matrix Spike (B7A0561-MS1)		**Source: 1604898-79**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	14.5087		2.50000	12.1417	94.7	44 - 130			
Matrix Spike (B7A0561-MS2)		**Source: 1604921-05**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	6.84500		2.50000	4.87903	78.6	44 - 130			
Matrix Spike Dup (B7A0561-MSD1)		**Source: 1604898-79**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	14.4485		2.50000	12.1417	92.3	44 - 130	0.416	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0562 - STLC_S Extraction									
Blank (B7A0562-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	1.0			NR				
Blank (B7A0562-BLK2)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	1.0			NR				
LCS (B7A0562-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	1.95830		2.00000		97.9	80 - 120			
Duplicate (B7A0562-DUP1)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	7.36136	1.0		6.66843	NR		9.88	20	
Duplicate (B7A0562-DUP2)		**Source: 1700068-16**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	1.54080	1.0		1.54702	NR		0.403	20	
Matrix Spike (B7A0562-MS1)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	8.64934		2.50000	6.66843	79.2	44 - 130			
Matrix Spike (B7A0562-MS2)		**Source: 1700068-16**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	3.83305		2.50000	1.54702	91.4	44 - 130			
Matrix Spike Dup (B7A0562-MSD1)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	8.89759		2.50000	6.66843	89.2	44 - 130	2.83	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, January 13, 2017 10:56 AM
To: Rachelle Arada
Cc: Robert Lovdahl
Subject: Burroughs MS

Rachelle:

Please run the following samples for arsenic by EPA 6010 on standard TAT:

- EB9-6-2.5
- EB12-1-2.5
- EB15-1-2.5

Thank you,
Julie

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, January 13, 2017 11:49 AM
To: Rachelle Arada
Cc: Robert Lovdahl
Subject: Burroughs MS Samples

Rachelle:

Please run soil samples that exceeded 50 mg/kg TTLC-lead for STLC-lead.
Please run soil samples that exceeded 100 mg/kg TTLC-lead for TCLP-lead.

There are approximately 34 samples affected. Do you need me to list all the samples?

Thank you,

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Monday, January 16, 2017 7:24 AM
To: Rachelle Arada
Subject: RE: Burroughs MS Samples

Hi Rachelle:

I also see the following samples to analyze for the below STLC and TCLP analyses

STLC Pb:

1604921-13 EB8-6-0.5
1604898-14 FB16-1-1.5
1604898-53 FB14-4-1.5
1604898-61 EB11-1-0.5
1604898-62 EB11-1-1.5
1604898-64 EB11-2-0.5
1604898-67 EB12-1-0.5
1604898-73 EB9-1-0.5
1604898-76 EB9-5-0.5
1604898-77 EB9-5-1.5
1604898-79 EB9-7-0.5
1604898-80 EB9-7-1.5
1604898-82 EB10-2-0.5
1604898-83 FB5-1-0.5
1604898-84 FB5-1-1.5
1604898-87 FB5-2-1.5
1604898-89 EB13-1-0.5
1604898-92 EB13-2-0.5

TCLP Pb:

1604898-14 FB16-1-1.5
1604898-53 FB14-4-1.5
1604898-73 EB9-1-0.5
1604898-79 EB9-7-0.5
1604898-80 EB9-7-1.5
1604898-82 EB10-2-0.5
1604898-89 EB13-1-0.5
1604898-92 EB13-2-0.5

STLC Arsenic:

1604898-67 EB12-1-0.5
1604898-95 EB15-1-0.5

Thank you,
Julie

Julie C. Harriman, P.E.
Associate Engineer

ADVANCED TECHNOLOGY LABORATORIES

January 16, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

RE: ATL Work Order Number : 1604921
Client Reference : Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on December, 29 2016 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB9-6-0.5	1604921-01	Soil	12/29/16 7:55	12/29/16 16:20
EB9-6-1.5	1604921-02	Soil	12/29/16 7:56	12/29/16 16:20
EB9-6-2.5	1604921-03	Soil	12/29/16 7:57	12/29/16 16:20
EB10-1-0.5	1604921-04	Soil	12/29/16 8:00	12/29/16 16:20
EB10-1-1.5	1604921-05	Soil	12/29/16 8:01	12/29/16 16:20
EB9-4-0.5	1604921-07	Soil	12/29/16 9:12	12/29/16 16:20
EB9-4-1.5	1604921-08	Soil	12/29/16 9:14	12/29/16 16:20
EB8-1-0.5	1604921-10	Soil	12/29/16 9:39	12/29/16 16:20
EB8-1-1.5	1604921-11	Soil	12/29/16 9:40	12/29/16 16:20
EB8-6-0.5	1604921-13	Soil	12/29/16 9:42	12/29/16 16:20
EB8-6-1.5	1604921-14	Soil	12/29/16 9:43	12/29/16 16:20
EB8-5-0.5	1604921-16	Soil	12/29/16 9:45	12/29/16 16:20
EB8-5-1.5	1604921-17	Soil	12/29/16 9:46	12/29/16 16:20
EB8-4-0.5	1604921-19	Soil	12/29/16 9:53	12/29/16 16:20
EB8-4-1.5	1604921-20	Soil	12/29/16 9:54	12/29/16 16:20
EB8-3-0.5	1604921-22	Soil	12/29/16 10:20	12/29/16 16:20
EB8-3-1.5	1604921-23	Soil	12/29/16 10:21	12/29/16 16:20
EB8-2-0.5	1604921-25	Soil	12/29/16 10:30	12/29/16 16:20
EB8-2-1.5	1604921-26	Soil	12/29/16 10:31	12/29/16 16:20
EB6-1-0.5	1604921-28	Soil	12/29/16 11:10	12/29/16 16:20
EB6-1-1.5	1604921-29	Soil	12/29/16 11:15	12/29/16 16:20
EB9-3-0.5	1604921-31	Soil	12/29/16 11:20	12/29/16 16:20
EB9-3-1.5	1604921-32	Soil	12/29/16 11:21	12/29/16 16:20
EB9-2-0.5	1604921-34	Soil	12/29/16 11:29	12/29/16 16:20
EB9-2-1.5	1604921-35	Soil	12/29/16 11:30	12/29/16 16:20
EB5-3-0.5	1604921-37	Soil	12/29/16 12:05	12/29/16 16:20
EB5-3-1.0	1604921-38	Soil	12/29/16 12:06	12/29/16 16:20
EB5-4-0.5	1604921-39	Soil	12/29/16 12:00	12/29/16 16:20
EB5-4-1.5	1604921-40	Soil	12/29/16 12:01	12/29/16 16:20
EB5-6-0.5	1604921-42	Soil	12/29/16 12:03	12/29/16 16:20
EB5-6-1.5	1604921-43	Soil	12/29/16 12:04	12/29/16 16:20
EB16-2-0.5	1604921-45	Soil	12/29/16 12:10	12/29/16 16:20
EB16-2-1.5	1604921-46	Soil	12/29/16 12:11	12/29/16 16:20
EB5-5-0.5	1604921-48	Soil	12/29/16 13:19	12/29/16 16:20
EB5-5-1.5	1604921-49	Soil	12/29/16 13:20	12/29/16 16:20
EB6-2-0.5	1604921-51	Soil	12/29/16 13:11	12/29/16 16:20
EB6-2-1.5	1604921-52	Soil	12/29/16 13:12	12/29/16 16:20

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

EB5-2-0.5	1604921-54	Soil	12/29/16 13:14	12/29/16 16:20
EB5-2-1.5	1604921-55	Soil	12/29/16 13:15	12/29/16 16:20
EB16-3-0.5	1604921-57	Soil	12/29/16 13:17	12/29/16 16:20
EB16-3-1.5	1604921-58	Soil	12/29/16 13:18	12/29/16 16:20
EB22-2-0.5	1604921-60	Soil	12/29/16 13:55	12/29/16 16:20
EB22-2-1.5	1604921-61	Soil	12/29/16 13:56	12/29/16 16:20
EB24-6-0.5	1604921-63	Soil	12/29/16 13:58	12/29/16 16:20
EB24-6-1.5	1604921-64	Soil	12/29/16 13:59	12/29/16 16:20
EB3-2-0.5	1604921-66	Soil	12/29/16 14:02	12/29/16 16:20
EB3-2-1.5	1604921-67	Soil	12/29/16 14:03	12/29/16 16:20
EB5-1-0.5	1604921-69	Soil	12/29/16 14:47	12/29/16 16:20
EB5-1-1.5	1604921-70	Soil	12/29/16 14:48	12/29/16 16:20
EB24-1-0.5	1604921-72	Soil	12/29/16 15:07	12/29/16 16:20
EB24-1-1.5	1604921-73	Soil	12/29/16 15:08	12/29/16 16:20
EB24-2-0.5	1604921-75	Soil	12/29/16 14:28	12/29/16 16:20
EB24-2-1.5	1604921-76	Soil	12/29/16 14:29	12/29/16 16:20
EB24-3-0.5	1604921-78	Soil	12/29/16 14:31	12/29/16 16:20
EB24-3-1.5	1604921-79	Soil	12/29/16 14:32	12/29/16 16:20
EB25-3-0.5	1604921-81	Soil	12/29/16 14:35	12/29/16 16:20
EB25-3-1.5	1604921-82	Soil	12/29/16 14:36	12/29/16 16:20
EB23-3-0.5	1604921-84	Soil	12/29/16 14:43	12/29/16 16:20
EB23-3-1.5	1604921-85	Soil	12/29/16 14:45	12/29/16 16:20
DRUM1	1604921-87	Soil	12/29/16 15:20	12/29/16 16:20
EQB-12-29-16	1604921-88	Water	12/29/16 15:45	12/29/16 16:20

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB9-6-0.5
Lab ID: 1604921-01

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**40**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:11	
Lead	**34**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:11	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0197	01/06/2017	01/11/17 11:04	D1
4,4´-DDE	ND	20	2.0	10	B7A0197	01/06/2017	01/11/17 11:04	D1
4,4´-DDT	ND	20	1.3	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Aldrin	ND	10	2.7	10	B7A0197	01/06/2017	01/11/17 11:04	D1
alpha-BHC	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:04	D1
alpha-Chlordane	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:04	D1
beta-BHC	ND	10	2.3	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Chlordane	ND	85	9.0	10	B7A0197	01/06/2017	01/11/17 11:04	D1
delta-BHC	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Dieldrin	ND	20	2.5	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Endosulfan I	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Endosulfan II	ND	20	2.2	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Endrin	ND	20	2.3	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Endrin aldehyde	ND	20	2.8	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Endrin ketone	ND	20	2.0	10	B7A0197	01/06/2017	01/11/17 11:04	D1
gamma-BHC	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:04	D1
gamma-Chlordane	ND	10	2.3	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Heptachlor	ND	10	1.9	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Methoxychlor	ND	50	1.8	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Toxaphene	ND	500	82	10	B7A0197	01/06/2017	01/11/17 11:04	D1
Surrogate: Decachlorobiphenyl	*41.9 %*		*27 - 123*		B7A0197	01/06/2017	*01/11/17 11:04*	
Surrogate: Tetrachloro-m-xylene	*43.5 %*		*26 - 108*		B7A0197	01/06/2017	*01/11/17 11:04*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB9-6-0.5

Lab ID: 1604921-01

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:41	
Aroclor 1221	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:41	
Aroclor 1232	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:41	
Aroclor 1242	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:41	
Aroclor 1248	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:41	
Aroclor 1254	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:41	
Aroclor 1260	**3.7**	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:41	J
Aroclor 1262	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:41	
Aroclor 1268	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:41	
Surrogate: Decachlorobiphenyl	*83.6 %*	*26 - 137*			B7A0176	01/06/2017	*01/07/17 09:41*	
Surrogate: Tetrachloro-m-xylene	*103 %*	*28 - 102*			B7A0176	01/06/2017	*01/07/17 09:41*	S12

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB9-6-1.5
Lab ID: 1604921-02

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**18**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:12	
Lead	**54**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:12	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	100	11	50	B7A0197	01/06/2017	01/11/17 12:40	D1
4,4´-DDE	ND	100	9.8	50	B7A0197	01/06/2017	01/11/17 12:40	D1
4,4´-DDT	ND	100	6.7	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Aldrin	ND	50	13	50	B7A0197	01/06/2017	01/11/17 12:40	D1
alpha-BHC	ND	50	9.9	50	B7A0197	01/06/2017	01/11/17 12:40	D1
alpha-Chlordane	ND	50	11	50	B7A0197	01/06/2017	01/11/17 12:40	D1
beta-BHC	ND	50	11	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Chlordane	ND	420	45	50	B7A0197	01/06/2017	01/11/17 12:40	D1
delta-BHC	ND	50	10	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Dieldrin	ND	100	12	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Endosulfan I	ND	50	11	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Endosulfan II	ND	100	11	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Endosulfan sulfate	ND	100	11	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Endrin	ND	100	11	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Endrin aldehyde	ND	100	14	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Endrin ketone	ND	100	10	50	B7A0197	01/06/2017	01/11/17 12:40	D1
gamma-BHC	ND	50	10	50	B7A0197	01/06/2017	01/11/17 12:40	D1
gamma-Chlordane	ND	50	11	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Heptachlor	ND	50	9.5	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Heptachlor epoxide	ND	50	10	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Methoxychlor	ND	250	8.9	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Toxaphene	ND	2500	410	50	B7A0197	01/06/2017	01/11/17 12:40	D1
Surrogate: Decachlorobiphenyl	*0%*		*27 - 123*		B7A0197	01/06/2017	*01/11/17 12:40*	S4
Surrogate: Tetrachloro-m-xylene	*0%*		*26 - 108*		B7A0197	01/06/2017	*01/11/17 12:40*	S4

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB10-1-0.5
Lab ID: 1604921-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:13	
Lead	**25**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:13	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	100	11	50	B7A0197	01/06/2017	01/11/17 12:50	D1
4,4´-DDE	ND	100	9.8	50	B7A0197	01/06/2017	01/11/17 12:50	D1
4,4´-DDT	ND	100	6.7	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Aldrin	ND	50	13	50	B7A0197	01/06/2017	01/11/17 12:50	D1
alpha-BHC	ND	50	9.9	50	B7A0197	01/06/2017	01/11/17 12:50	D1
alpha-Chlordane	ND	50	11	50	B7A0197	01/06/2017	01/11/17 12:50	D1
beta-BHC	ND	50	11	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Chlordane	ND	420	45	50	B7A0197	01/06/2017	01/11/17 12:50	D1
delta-BHC	ND	50	10	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Dieldrin	ND	100	12	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Endosulfan I	ND	50	11	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Endosulfan II	ND	100	11	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Endosulfan sulfate	ND	100	11	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Endrin	ND	100	11	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Endrin aldehyde	ND	100	14	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Endrin ketone	ND	100	10	50	B7A0197	01/06/2017	01/11/17 12:50	D1
gamma-BHC	ND	50	10	50	B7A0197	01/06/2017	01/11/17 12:50	D1
gamma-Chlordane	ND	50	11	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Heptachlor	ND	50	9.5	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Heptachlor epoxide	ND	50	10	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Methoxychlor	ND	250	8.9	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Toxaphene	ND	2500	410	50	B7A0197	01/06/2017	01/11/17 12:50	D1
Surrogate: Decachlorobiphenyl	*0%*		*27 - 123*		B7A0197	01/06/2017	*01/11/17 12:50*	S4
Surrogate: Tetrachloro-m-xylene	*0%*		*26 - 108*		B7A0197	01/06/2017	*01/11/17 12:50*	S4

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB10-1-1.5
Lab ID: 1604921-05

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.8**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:14	
Lead	**58**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:14	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0197	01/06/2017	01/11/17 11:36	D1
4,4´-DDE	ND	20	2.0	10	B7A0197	01/06/2017	01/11/17 11:36	D1
4,4´-DDT	ND	20	1.3	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Aldrin	ND	10	2.7	10	B7A0197	01/06/2017	01/11/17 11:36	D1
alpha-BHC	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:36	D1
alpha-Chlordane	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:36	D1
beta-BHC	ND	10	2.3	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Chlordane	ND	85	9.0	10	B7A0197	01/06/2017	01/11/17 11:36	D1
delta-BHC	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Dieldrin	ND	20	2.5	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Endosulfan I	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Endosulfan II	ND	20	2.2	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Endrin	ND	20	2.3	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Endrin aldehyde	ND	20	2.8	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Endrin ketone	ND	20	2.0	10	B7A0197	01/06/2017	01/11/17 11:36	D1
gamma-BHC	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:36	D1
gamma-Chlordane	ND	10	2.3	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Heptachlor	ND	10	1.9	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Methoxychlor	ND	50	1.8	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Toxaphene	ND	500	82	10	B7A0197	01/06/2017	01/11/17 11:36	D1
Surrogate: Decachlorobiphenyl	*71.9 %*		*27 - 123*		B7A0197	01/06/2017	*01/11/17 11:36*	
Surrogate: Tetrachloro-m-xylene	*76.4 %*		*26 - 108*		B7A0197	01/06/2017	*01/11/17 11:36*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB9-4-0.5
Lab ID: 1604921-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:15	
Lead	**28**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:15	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	10	1.1	5	B7A0197	01/06/2017	01/09/17 12:31	D1
4,4´-DDE	ND	10	0.98	5	B7A0197	01/06/2017	01/09/17 12:31	D1
4,4´-DDT	ND	10	0.67	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Aldrin	ND	5.0	1.3	5	B7A0197	01/06/2017	01/09/17 12:31	D1
alpha-BHC	ND	5.0	0.99	5	B7A0197	01/06/2017	01/09/17 12:31	D1
alpha-Chlordane [2C]	**4.9**	5.0	1.1	5	B7A0197	01/06/2017	01/09/17 12:31	D1, J
beta-BHC	ND	5.0	1.1	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Chlordane [2C]	**38**	42	4.5	5	B7A0197	01/06/2017	01/09/17 12:31	D1, J
delta-BHC	ND	5.0	1.0	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Dieldrin	ND	10	1.2	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Endosulfan I	ND	5.0	1.1	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Endosulfan II	ND	10	1.1	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Endosulfan sulfate	ND	10	1.1	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Endrin	ND	10	1.1	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Endrin aldehyde	ND	10	1.4	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Endrin ketone	ND	10	1.0	5	B7A0197	01/06/2017	01/09/17 12:31	D1
gamma-BHC	ND	5.0	1.0	5	B7A0197	01/06/2017	01/09/17 12:31	D1
gamma-Chlordane	**5.5**	5.0	1.1	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Heptachlor	ND	5.0	0.95	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Heptachlor epoxide	**1.5**	5.0	1.0	5	B7A0197	01/06/2017	01/09/17 12:31	D1, J
Methoxychlor	ND	25	0.89	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Toxaphene	ND	250	41	5	B7A0197	01/06/2017	01/09/17 12:31	D1
Surrogate: Decachlorobiphenyl	*64.2 %*	*27 - 123*			B7A0197	01/06/2017	*01/09/17 12:31*	
Surrogate: Tetrachloro-m-xylene	*44.3 %*	*26 - 108*			B7A0197	01/06/2017	*01/09/17 12:31*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB9-4-1.5
Lab ID: 1604921-08

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:16	
Lead	**12**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:16	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0197	01/06/2017	01/11/17 11:46	D1
4,4´-DDE	ND	20	2.0	10	B7A0197	01/06/2017	01/11/17 11:46	D1
4,4´-DDT	ND	20	1.3	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Aldrin	ND	10	2.7	10	B7A0197	01/06/2017	01/11/17 11:46	D1
alpha-BHC	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:46	D1
alpha-Chlordane	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:46	D1
beta-BHC	ND	10	2.3	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Chlordane	ND	85	9.0	10	B7A0197	01/06/2017	01/11/17 11:46	D1
delta-BHC	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Dieldrin	ND	20	2.5	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Endosulfan I	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Endosulfan II	ND	20	2.2	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Endrin	ND	20	2.3	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Endrin aldehyde	ND	20	2.8	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Endrin ketone	ND	20	2.0	10	B7A0197	01/06/2017	01/11/17 11:46	D1
gamma-BHC	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:46	D1
gamma-Chlordane	ND	10	2.3	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Heptachlor	ND	10	1.9	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Methoxychlor	ND	50	1.8	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Toxaphene	ND	500	82	10	B7A0197	01/06/2017	01/11/17 11:46	D1
Surrogate: Decachlorobiphenyl	*71.3 %*		*27 - 123*		B7A0197	01/06/2017	*01/11/17 11:46*	
Surrogate: Tetrachloro-m-xylene	*75.4 %*		*26 - 108*		B7A0197	01/06/2017	*01/11/17 11:46*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-1-0.5

Lab ID: 1604921-10

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:17	
Lead	**39**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:17	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0197	01/06/2017	01/11/17 11:57	D1
4,4´-DDE	ND	20	2.0	10	B7A0197	01/06/2017	01/11/17 11:57	D1
4,4´-DDT	ND	20	1.3	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Aldrin	ND	10	2.7	10	B7A0197	01/06/2017	01/11/17 11:57	D1
alpha-BHC	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:57	D1
alpha-Chlordane	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:57	D1
beta-BHC	ND	10	2.3	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Chlordane	ND	85	9.0	10	B7A0197	01/06/2017	01/11/17 11:57	D1
delta-BHC	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Dieldrin	ND	20	2.5	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Endosulfan I	ND	10	2.1	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Endosulfan II	ND	20	2.2	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Endrin	ND	20	2.3	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Endrin aldehyde	ND	20	2.8	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Endrin ketone	ND	20	2.0	10	B7A0197	01/06/2017	01/11/17 11:57	D1
gamma-BHC	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:57	D1
gamma-Chlordane	ND	10	2.3	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Heptachlor	ND	10	1.9	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Methoxychlor	ND	50	1.8	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Toxaphene	ND	500	82	10	B7A0197	01/06/2017	01/11/17 11:57	D1
Surrogate: Decachlorobiphenyl	*75.9 %*		*27 - 123*		B7A0197	01/06/2017	*01/11/17 11:57*	
Surrogate: Tetrachloro-m-xylene	*84.3 %*		*26 - 108*		B7A0197	01/06/2017	*01/11/17 11:57*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-1-1.5
Lab ID: 1604921-11

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:18	
Lead	**3.5**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:18	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:03	
4,4´-DDE	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:03	
4,4´-DDT	ND	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 13:03	
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 13:03	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:03	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:03	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:03	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 13:03	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:03	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 13:03	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:03	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:03	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:03	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:03	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 13:03	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:03	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:03	
gamma-Chlordane	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:03	
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 13:03	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:03	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 13:03	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 13:03	
Surrogate: Decachlorobiphenyl	*54.4 %*		*27 - 123*		B7A0197	01/06/2017	*01/09/17 13:03*	
Surrogate: Tetrachloro-m-xylene	*55.5 %*		*26 - 108*		B7A0197	01/06/2017	*01/09/17 13:03*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-1-1.5

Lab ID: 1604921-11

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:59	
Aroclor 1221	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:59	
Aroclor 1232	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:59	
Aroclor 1242	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:59	
Aroclor 1248	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:59	
Aroclor 1254	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:59	
Aroclor 1260	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:59	
Aroclor 1262	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:59	
Aroclor 1268	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 09:59	
Surrogate: Decachlorobiphenyl	*90.0 %*	*26 - 137*			B7A0176	01/06/2017	*01/07/17 09:59*	
Surrogate: Tetrachloro-m-xylene	*93.1 %*	*28 - 102*			B7A0176	01/06/2017	*01/07/17 09:59*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-6-0.5

Lab ID: 1604921-13

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:22	
Lead	**50**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:22	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:14	
4,4´-DDE	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:14	
4,4´-DDT	ND	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 13:14	
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 13:14	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:14	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:14	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:14	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 13:14	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:14	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 13:14	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:14	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:14	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:14	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:14	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 13:14	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:14	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:14	
gamma-Chlordane	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:14	
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 13:14	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:14	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 13:14	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 13:14	
Surrogate: Decachlorobiphenyl	*56.9 %*		*27 - 123*		B7A0197	01/06/2017	*01/09/17 13:14*	
Surrogate: Tetrachloro-m-xylene	*59.0 %*		*26 - 108*		B7A0197	01/06/2017	*01/09/17 13:14*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-6-1.5
Lab ID: 1604921-14

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:23	
Lead	**3.7**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:23	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:24	
4,4´-DDE	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:24	
4,4´-DDT	ND	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 13:24	
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 13:24	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:24	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:24	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:24	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 13:24	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:24	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 13:24	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:24	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:24	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:24	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:24	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 13:24	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:24	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:24	
gamma-Chlordane	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:24	
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 13:24	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:24	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 13:24	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 13:24	
Surrogate: Decachlorobiphenyl	*82.3 %*		*27 - 123*		B7A0197	01/06/2017	*01/09/17 13:24*	
Surrogate: Tetrachloro-m-xylene	*90.0 %*		*26 - 108*		B7A0197	01/06/2017	*01/09/17 13:24*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-5-0.5

Lab ID: 1604921-16

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:24	
Lead	**3.6**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:24	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:35	
4,4´-DDE	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:35	
4,4´-DDT	ND	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 13:35	
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 13:35	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:35	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:35	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:35	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 13:35	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:35	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 13:35	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:35	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:35	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:35	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:35	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 13:35	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:35	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:35	
gamma-Chlordane	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:35	
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 13:35	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:35	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 13:35	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 13:35	
Surrogate: Decachlorobiphenyl	*54.9 %*		*27 - 123*		B7A0197	01/06/2017	*01/09/17 13:35*	
Surrogate: Tetrachloro-m-xylene	*57.2 %*		*26 - 108*		B7A0197	01/06/2017	*01/09/17 13:35*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-5-1.5
Lab ID: 1604921-17

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.1**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:26	
Lead	**2.8**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:26	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:46	
4,4´-DDE	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:46	
4,4´-DDT	ND	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 13:46	
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 13:46	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:46	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:46	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:46	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 13:46	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:46	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 13:46	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:46	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:46	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:46	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:46	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 13:46	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:46	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:46	
gamma-Chlordane	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:46	
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 13:46	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:46	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 13:46	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 13:46	
Surrogate: Decachlorobiphenyl	*87.9 %*		*27 - 123*		B7A0197	01/06/2017	*01/09/17 13:46*	
Surrogate: Tetrachloro-m-xylene	*88.7 %*		*26 - 108*		B7A0197	01/06/2017	*01/09/17 13:46*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-4-0.5
Lab ID: 1604921-19

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.4**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:27	
Lead	**3.9**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:27	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:56	
4,4´-DDE	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:56	
4,4´-DDT	ND	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 13:56	
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 13:56	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:56	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:56	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:56	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 13:56	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:56	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 13:56	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:56	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 13:56	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 13:56	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:56	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 13:56	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:56	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:56	
gamma-Chlordane	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 13:56	
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 13:56	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 13:56	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 13:56	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 13:56	
Surrogate: Decachlorobiphenyl	*86.9 %*		*27 - 123*		B7A0197	01/06/2017	*01/09/17 13:56*	
Surrogate: Tetrachloro-m-xylene	*90.3 %*		*26 - 108*		B7A0197	01/06/2017	*01/09/17 13:56*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-4-1.5
Lab ID: 1604921-20

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:28	
Lead	**4.2**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:28	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 14:07	
4,4´-DDE	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:07	
4,4´-DDT	ND	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 14:07	
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 14:07	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:07	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:07	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:07	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 14:07	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:07	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 14:07	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:07	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 14:07	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:07	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:07	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 14:07	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:07	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:07	
gamma-Chlordane	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:07	
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 14:07	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:07	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 14:07	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 14:07	
Surrogate: Decachlorobiphenyl	*62.4 %*		*27 - 123*		B7A0197	01/06/2017	*01/09/17 14:07*	
Surrogate: Tetrachloro-m-xylene	*61.7 %*		*26 - 108*		B7A0197	01/06/2017	*01/09/17 14:07*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-3-0.5
Lab ID: 1604921-22

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:29	
Lead	**16**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:29	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.29**	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 14:17	J
4,4´-DDE	**0.20**	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:17	J
4,4´-DDT [2C]	**0.52**	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 14:17	J
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 14:17	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:17	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:17	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:17	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 14:17	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:17	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 14:17	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:17	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 14:17	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:17	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:17	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 14:17	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:17	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:17	
gamma-Chlordane	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:17	
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 14:17	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:17	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 14:17	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 14:17	
Surrogate: Decachlorobiphenyl	*54.3 %*		*27 - 123*		B7A0197	01/06/2017	*01/09/17 14:17*	
Surrogate: Tetrachloro-m-xylene	*54.8 %*		*26 - 108*		B7A0197	01/06/2017	*01/09/17 14:17*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-3-0.5

Lab ID: 1604921-22

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 10:18	
Aroclor 1221	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 10:18	
Aroclor 1232	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 10:18	
Aroclor 1242	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 10:18	
Aroclor 1248	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 10:18	
Aroclor 1254	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 10:18	
Aroclor 1260	**2.7**	16	1.5	1	B7A0176	01/06/2017	01/07/17 10:18	J
Aroclor 1262	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 10:18	
Aroclor 1268	ND	16	1.5	1	B7A0176	01/06/2017	01/07/17 10:18	
Surrogate: Decachlorobiphenyl	*96.9 %*	*26 - 137*			B7A0176	01/06/2017	*01/07/17 10:18*	
Surrogate: Tetrachloro-m-xylene	*105 %*	*28 - 102*			B7A0176	01/06/2017	*01/07/17 10:18*	S12

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-3-1.5
Lab ID: 1604921-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:30	
Lead	**6.1**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:30	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.23**	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 14:28	J
4,4´-DDE	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:28	
4,4´-DDT [2C]	**0.45**	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 14:28	J
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 14:28	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:28	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:28	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:28	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 14:28	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:28	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 14:28	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:28	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 14:28	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:28	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:28	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 14:28	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:28	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:28	
gamma-Chlordane	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:28	
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 14:28	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:28	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 14:28	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 14:28	
Surrogate: Decachlorobiphenyl	*56.9 %*		*27 - 123*		B7A0197	01/06/2017	*01/09/17 14:28*	
Surrogate: Tetrachloro-m-xylene	*56.6 %*		*26 - 108*		B7A0197	01/06/2017	*01/09/17 14:28*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-2-0.5
Lab ID: 1604921-25

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**10**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:31	
Lead	**9.4**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:31	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 14:39	
4,4´-DDE	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:39	
4,4´-DDT	**0.22**	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 14:39	J
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 14:39	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:39	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:39	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:39	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 14:39	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:39	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 14:39	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:39	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 14:39	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:39	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:39	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 14:39	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:39	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:39	
gamma-Chlordane	**0.23**	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:39	J
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 14:39	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:39	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 14:39	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 14:39	
Surrogate: Decachlorobiphenyl	*85.4 %*	*27 - 123*			B7A0197	01/06/2017	*01/09/17 14:39*	
Surrogate: Tetrachloro-m-xylene	*91.2 %*	*26 - 108*			B7A0197	01/06/2017	*01/09/17 14:39*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB8-2-1.5
Lab ID: 1604921-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**7.7**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:32	
Lead	**3.5**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:32	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 14:50	
4,4´-DDE [2C]	**0.21**	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:50	J
4,4´-DDT [2C]	**0.61**	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 14:50	J
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 14:50	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:50	
alpha-Chlordane	**0.31**	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:50	J
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:50	
Chlordane [2C]	**2.5**	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 14:50	J
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:50	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 14:50	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:50	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 14:50	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 14:50	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:50	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 14:50	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:50	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:50	
gamma-Chlordane [2C]	**0.33**	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 14:50	J
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 14:50	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 14:50	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 14:50	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 14:50	
Surrogate: Decachlorobiphenyl	*88.6 %*	*27 - 123*			B7A0197	01/06/2017	*01/09/17 14:50*	
Surrogate: Tetrachloro-m-xylene	*95.1 %*	*26 - 108*			B7A0197	01/06/2017	*01/09/17 14:50*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB6-1-0.5
Lab ID: 1604921-28

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.4**	1.0	0.70	1	B7A0229	01/09/2017	01/10/17 10:36	
Lead	**15**	1.0	0.11	1	B7A0229	01/09/2017	01/10/17 10:36	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	10	1.1	5	B7A0197	01/06/2017	01/11/17 12:08	D1
4,4´-DDE [2C]	**1.6**	10	0.98	5	B7A0197	01/06/2017	01/11/17 12:08	D1, J
4,4´-DDT	ND	10	0.67	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Aldrin	ND	5.0	1.3	5	B7A0197	01/06/2017	01/11/17 12:08	D1
alpha-BHC	ND	5.0	0.99	5	B7A0197	01/06/2017	01/11/17 12:08	D1
alpha-Chlordane	ND	5.0	1.1	5	B7A0197	01/06/2017	01/11/17 12:08	D1
beta-BHC	ND	5.0	1.1	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Chlordane	ND	42	4.5	5	B7A0197	01/06/2017	01/11/17 12:08	D1
delta-BHC	ND	5.0	1.0	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Dieldrin	ND	10	1.2	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Endosulfan I	ND	5.0	1.1	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Endosulfan II	ND	10	1.1	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Endosulfan sulfate	ND	10	1.1	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Endrin	ND	10	1.1	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Endrin aldehyde	ND	10	1.4	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Endrin ketone	ND	10	1.0	5	B7A0197	01/06/2017	01/11/17 12:08	D1
gamma-BHC	ND	5.0	1.0	5	B7A0197	01/06/2017	01/11/17 12:08	D1
gamma-Chlordane	ND	5.0	1.1	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Heptachlor	ND	5.0	0.95	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Heptachlor epoxide	ND	5.0	1.0	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Methoxychlor	ND	25	0.89	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Toxaphene	ND	250	41	5	B7A0197	01/06/2017	01/11/17 12:08	D1
Surrogate: Decachlorobiphenyl	*50.9 %*		*27 - 123*		B7A0197	01/06/2017	*01/11/17 12:08*	
Surrogate: Tetrachloro-m-xylene	*31.4 %*		*26 - 108*		B7A0197	01/06/2017	*01/11/17 12:08*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB6-1-1.5
Lab ID: 1604921-29

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.1**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:43	
Lead	**8.7**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:43	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 15:11	
4,4´-DDE	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 15:11	
4,4´-DDT	ND	2.0	0.13	1	B7A0197	01/06/2017	01/09/17 15:11	
Aldrin	ND	1.0	0.27	1	B7A0197	01/06/2017	01/09/17 15:11	
alpha-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 15:11	
alpha-Chlordane	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 15:11	
beta-BHC	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 15:11	
Chlordane	ND	8.5	0.90	1	B7A0197	01/06/2017	01/09/17 15:11	
delta-BHC	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 15:11	
Dieldrin	ND	2.0	0.25	1	B7A0197	01/06/2017	01/09/17 15:11	
Endosulfan I	ND	1.0	0.21	1	B7A0197	01/06/2017	01/09/17 15:11	
Endosulfan II	ND	2.0	0.22	1	B7A0197	01/06/2017	01/09/17 15:11	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0197	01/06/2017	01/09/17 15:11	
Endrin	ND	2.0	0.23	1	B7A0197	01/06/2017	01/09/17 15:11	
Endrin aldehyde	ND	2.0	0.28	1	B7A0197	01/06/2017	01/09/17 15:11	
Endrin ketone	ND	2.0	0.20	1	B7A0197	01/06/2017	01/09/17 15:11	
gamma-BHC	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 15:11	
gamma-Chlordane	ND	1.0	0.23	1	B7A0197	01/06/2017	01/09/17 15:11	
Heptachlor	ND	1.0	0.19	1	B7A0197	01/06/2017	01/09/17 15:11	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0197	01/06/2017	01/09/17 15:11	
Methoxychlor	ND	5.0	0.18	1	B7A0197	01/06/2017	01/09/17 15:11	
Toxaphene	ND	50	8.2	1	B7A0197	01/06/2017	01/09/17 15:11	
Surrogate: Decachlorobiphenyl	*65.0 %*		*27 - 123*		B7A0197	01/06/2017	*01/09/17 15:11*	
Surrogate: Tetrachloro-m-xylene	*57.3 %*		*26 - 108*		B7A0197	01/06/2017	*01/09/17 15:11*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB9-3-0.5
Lab ID: 1604921-31

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.4**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:44	
Lead	**17**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:44	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:47	
4,4´-DDE [2C]	**0.49**	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:47	J
4,4´-DDT	**0.38**	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 17:47	J
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 17:47	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:47	
alpha-Chlordane	**0.56**	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:47	J
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:47	
Chlordane [2C]	**6.1**	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 17:47	J
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:47	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 17:47	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:47	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:47	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:47	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:47	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 17:47	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:47	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:47	
gamma-Chlordane	**0.60**	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:47	J
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 17:47	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:47	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 17:47	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 17:47	
Surrogate: Decachlorobiphenyl	*95.9 %*	*27 - 123*			B7A0235	01/09/2017	*01/10/17 17:47*	
Surrogate: Tetrachloro-m-xylene	*65.6 %*	*26 - 108*			B7A0235	01/09/2017	*01/10/17 17:47*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB9-3-1.5
Lab ID: 1604921-32

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.92**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:45	J
Lead	**3.4**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:45	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:58	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:58	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 17:58	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 17:58	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:58	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:58	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:58	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 17:58	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:58	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 17:58	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:58	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:58	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:58	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:58	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 17:58	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:58	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:58	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:58	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 17:58	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:58	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 17:58	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 17:58	
Surrogate: Decachlorobiphenyl	*83.3 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 17:58*	
Surrogate: Tetrachloro-m-xylene	*78.0 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 17:58*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB9-3-1.5

Lab ID: 1604921-32

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:01	
Aroclor 1221	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:01	
Aroclor 1232	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:01	
Aroclor 1242	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:01	
Aroclor 1248	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:01	
Aroclor 1254	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:01	
Aroclor 1260	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:01	
Aroclor 1262	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:01	
Aroclor 1268	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:01	
Surrogate: Decachlorobiphenyl	*96.8 %*	*26 - 137*			B7A0217	01/09/2017	*01/09/17 15:01*	
Surrogate: Tetrachloro-m-xylene	*106 %*	*28 - 102*			B7A0217	01/09/2017	*01/09/17 15:01*	S1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB9-2-0.5
Lab ID: 1604921-34

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.2**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:46	
Lead	**13**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:46	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 18:08	
4,4´-DDE	**0.39**	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:08	J
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 18:08	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 18:08	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:08	
alpha-Chlordane	**1.5**	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:08	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:08	
Chlordane	**13**	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 18:08	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:08	
Dieldrin	**0.29**	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 18:08	J
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:08	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 18:08	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:08	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:08	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 18:08	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:08	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:08	
gamma-Chlordane	**1.5**	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:08	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 18:08	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:08	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 18:08	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 18:08	
Surrogate: Decachlorobiphenyl	*81.5 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 18:08*	
Surrogate: Tetrachloro-m-xylene	*64.5 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 18:08*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB9-2-1.5

Lab ID: 1604921-35

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:50	
Lead	**4.5**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:50	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 18:19	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:19	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 18:19	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 18:19	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:19	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:19	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:19	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 18:19	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:19	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 18:19	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:19	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 18:19	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:19	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:19	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 18:19	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:19	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:19	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:19	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 18:19	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:19	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 18:19	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 18:19	
Surrogate: Decachlorobiphenyl	*98.0 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 18:19*	
Surrogate: Tetrachloro-m-xylene	*72.6 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 18:19*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-3-0.5
Lab ID: 1604921-37

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**7.9**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:51	
Lead	**170**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:51	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD [2C]	**13**	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 18:29	
4,4´-DDE	**600**	20	2.0	10	B7A0235	01/09/2017	01/11/17 12:18	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 18:29	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 18:29	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:29	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:29	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:29	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 18:29	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:29	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 18:29	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:29	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 18:29	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:29	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:29	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 18:29	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:29	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:29	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:29	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 18:29	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:29	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 18:29	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 18:29	
Surrogate: Decachlorobiphenyl	*89.5 %*	*27 - 123*			B7A0235	01/09/2017	*01/10/17 18:29*	
Surrogate: Decachlorobiphenyl	*91.0 %*	*27 - 123*			B7A0235	01/09/2017	*01/11/17 12:18*	
Surrogate: Tetrachloro-m-xylene	*80.9 %*	*26 - 108*			B7A0235	01/09/2017	*01/10/17 18:29*	
Surrogate: Tetrachloro-m-xylene	*87.5 %*	*26 - 108*			B7A0235	01/09/2017	*01/11/17 12:18*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-3-1.0
Lab ID: 1604921-38

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:52	
Lead	**25**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:52	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.30**	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 18:40	J
4,4´-DDE [2C]	**33**	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:40	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 18:40	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 18:40	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:40	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:40	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:40	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 18:40	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:40	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 18:40	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:40	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 18:40	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 18:40	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:40	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 18:40	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:40	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:40	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 18:40	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 18:40	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 18:40	
Methoxychlor	**180**	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 18:40	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 18:40	
Surrogate: Decachlorobiphenyl	*78.6 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 18:40*	
Surrogate: Tetrachloro-m-xylene	*72.9 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 18:40*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-4-0.5
Lab ID: 1604921-39

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:53	
Lead	**56**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:53	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	10	1.1	5	B7A0235	01/09/2017	01/10/17 18:51	D1
4,4´-DDE	ND	10	0.98	5	B7A0235	01/09/2017	01/10/17 18:51	D1
4,4´-DDT	ND	10	0.67	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Aldrin	ND	5.0	1.3	5	B7A0235	01/09/2017	01/10/17 18:51	D1
alpha-BHC	ND	5.0	0.99	5	B7A0235	01/09/2017	01/10/17 18:51	D1
alpha-Chlordane	ND	5.0	1.1	5	B7A0235	01/09/2017	01/10/17 18:51	D1
beta-BHC	ND	5.0	1.1	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Chlordane	ND	42	4.5	5	B7A0235	01/09/2017	01/10/17 18:51	D1
delta-BHC	ND	5.0	1.0	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Dieldrin	ND	10	1.2	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Endosulfan I	ND	5.0	1.1	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Endosulfan II	ND	10	1.1	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Endosulfan sulfate	ND	10	1.1	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Endrin	ND	10	1.1	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Endrin aldehyde	ND	10	1.4	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Endrin ketone	ND	10	1.0	5	B7A0235	01/09/2017	01/10/17 18:51	D1
gamma-BHC	ND	5.0	1.0	5	B7A0235	01/09/2017	01/10/17 18:51	D1
gamma-Chlordane	ND	5.0	1.1	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Heptachlor	ND	5.0	0.95	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Heptachlor epoxide	ND	5.0	1.0	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Methoxychlor	**48**	25	0.89	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Toxaphene	ND	250	41	5	B7A0235	01/09/2017	01/10/17 18:51	D1
Surrogate: Decachlorobiphenyl	*69.5 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 18:51*	
Surrogate: Tetrachloro-m-xylene	*43.4 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 18:51*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-4-1.5
Lab ID: 1604921-40

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:54	
Lead	**18**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:54	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:01	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:01	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 19:01	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 19:01	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:01	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:01	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:01	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 19:01	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:01	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 19:01	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:01	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:01	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:01	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:01	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 19:01	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:01	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:01	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:01	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 19:01	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:01	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 19:01	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 19:01	
Surrogate: Decachlorobiphenyl	*89.8 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 19:01*	
Surrogate: Tetrachloro-m-xylene	*77.9 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 19:01*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-6-0.5
Lab ID: 1604921-42

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.8**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:55	
Lead	**24**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:55	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 12:55	D1
4,4´-DDE	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 12:55	D1
4,4´-DDT	ND	20	1.3	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Aldrin	ND	10	2.7	10	B7A0176	01/06/2017	01/10/17 12:55	D1
alpha-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 12:55	D1
alpha-Chlordane	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 12:55	D1
beta-BHC	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Chlordane	ND	85	9.0	10	B7A0176	01/06/2017	01/10/17 12:55	D1
delta-BHC	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Dieldrin	ND	20	2.5	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Endosulfan I	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Endosulfan II	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Endrin	ND	20	2.3	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Endrin aldehyde	ND	20	2.8	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Endrin ketone	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 12:55	D1
gamma-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 12:55	D1
gamma-Chlordane	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Heptachlor	ND	10	1.9	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Methoxychlor	ND	50	1.8	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Toxaphene	ND	500	82	10	B7A0176	01/06/2017	01/10/17 12:55	D1
Surrogate: Decachlorobiphenyl	*163 %*	*27 - 123*			B7A0176	01/06/2017	*01/10/17 12:55*	S1
Surrogate: Tetrachloro-m-xylene	*170 %*	*26 - 108*			B7A0176	01/06/2017	*01/10/17 12:55*	S1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-6-0.5

Lab ID: 1604921-42

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 18:47	
Aroclor 1221	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 18:47	
Aroclor 1232	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 18:47	
Aroclor 1242	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 18:47	
Aroclor 1248	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 18:47	
Aroclor 1254	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 18:47	
Aroclor 1260	**2.6**	16	1.5	1	B7A0176	01/06/2017	01/06/17 18:47	J
Aroclor 1262	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 18:47	
Aroclor 1268	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 18:47	
Surrogate: Decachlorobiphenyl	*98.0 %*	*26 - 137*			B7A0176	01/06/2017	*01/06/17 18:47*	
Surrogate: Tetrachloro-m-xylene	*102 %*	*28 - 102*			B7A0176	01/06/2017	*01/06/17 18:47*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-6-1.5
Lab ID: 1604921-43

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:57	
Lead	**67**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:57	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 13:05	D1
4,4´-DDE	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 13:05	D1
4,4´-DDT	ND	20	1.3	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Aldrin	ND	10	2.7	10	B7A0176	01/06/2017	01/10/17 13:05	D1
alpha-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:05	D1
alpha-Chlordane [2C]	**5.5**	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:05	D1, J
beta-BHC	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Chlordane [2C]	**67**	85	9.0	10	B7A0176	01/06/2017	01/10/17 13:05	D1, J
delta-BHC	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Dieldrin	ND	20	2.5	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Endosulfan I	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Endosulfan II	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Endrin	ND	20	2.3	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Endrin aldehyde	ND	20	2.8	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Endrin ketone	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 13:05	D1
gamma-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:05	D1
gamma-Chlordane [2C]	**6.0**	10	2.3	10	B7A0176	01/06/2017	01/10/17 13:05	D1, J
Heptachlor	ND	10	1.9	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Methoxychlor	ND	50	1.8	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Toxaphene	ND	500	82	10	B7A0176	01/06/2017	01/10/17 13:05	D1
Surrogate: Decachlorobiphenyl	*98.4 %*	*27 - 123*			B7A0176	01/06/2017	*01/10/17 13:05*	
Surrogate: Tetrachloro-m-xylene	*75.9 %*	*26 - 108*			B7A0176	01/06/2017	*01/10/17 13:05*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB16-2-0.5
Lab ID: 1604921-45

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.4**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:58	
Lead	**19**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:58	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 13:16	D1
4,4´-DDE	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 13:16	D1
4,4´-DDT	ND	20	1.3	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Aldrin	ND	10	2.7	10	B7A0176	01/06/2017	01/10/17 13:16	D1
alpha-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:16	D1
alpha-Chlordane	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:16	D1
beta-BHC	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Chlordane	ND	85	9.0	10	B7A0176	01/06/2017	01/10/17 13:16	D1
delta-BHC	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Dieldrin	ND	20	2.5	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Endosulfan I	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Endosulfan II	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Endrin	ND	20	2.3	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Endrin aldehyde	ND	20	2.8	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Endrin ketone	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 13:16	D1
gamma-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:16	D1
gamma-Chlordane	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Heptachlor	ND	10	1.9	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Methoxychlor	ND	50	1.8	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Toxaphene	ND	500	82	10	B7A0176	01/06/2017	01/10/17 13:16	D1
Surrogate: Decachlorobiphenyl	*84.8 %*	*27 - 123*			B7A0176	01/06/2017	*01/10/17 13:16*	
Surrogate: Tetrachloro-m-xylene	*83.9 %*	*26 - 108*			B7A0176	01/06/2017	*01/10/17 13:16*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB16-2-1.5
Lab ID: 1604921-46

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 10:59	
Lead	**8.8**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 10:59	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 13:27	D1
4,4´-DDE	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 13:27	D1
4,4´-DDT	ND	20	1.3	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Aldrin	ND	10	2.7	10	B7A0176	01/06/2017	01/10/17 13:27	D1
alpha-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:27	D1
alpha-Chlordane	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:27	D1
beta-BHC	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Chlordane	ND	85	9.0	10	B7A0176	01/06/2017	01/10/17 13:27	D1
delta-BHC	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Dieldrin	ND	20	2.5	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Endosulfan I	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Endosulfan II	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Endrin	ND	20	2.3	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Endrin aldehyde	ND	20	2.8	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Endrin ketone	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 13:27	D1
gamma-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:27	D1
gamma-Chlordane	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Heptachlor	ND	10	1.9	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Methoxychlor	ND	50	1.8	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Toxaphene	ND	500	82	10	B7A0176	01/06/2017	01/10/17 13:27	D1
Surrogate: Decachlorobiphenyl	*42.8 %*	*27 - 123*			B7A0176	01/06/2017	*01/10/17 13:27*	
Surrogate: Tetrachloro-m-xylene	*35.2 %*	*26 - 108*			B7A0176	01/06/2017	*01/10/17 13:27*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-5-0.5
Lab ID: 1604921-48

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.6**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 11:00	
Lead	**22**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 11:00	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 13:37	D1
4,4´-DDE	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 13:37	D1
4,4´-DDT	ND	20	1.3	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Aldrin	ND	10	2.7	10	B7A0176	01/06/2017	01/10/17 13:37	D1
alpha-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:37	D1
alpha-Chlordane	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:37	D1
beta-BHC	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Chlordane	ND	85	9.0	10	B7A0176	01/06/2017	01/10/17 13:37	D1
delta-BHC	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Dieldrin	ND	20	2.5	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Endosulfan I	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Endosulfan II	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Endrin	ND	20	2.3	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Endrin aldehyde	ND	20	2.8	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Endrin ketone	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 13:37	D1
gamma-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:37	D1
gamma-Chlordane	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Heptachlor	ND	10	1.9	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Methoxychlor	ND	50	1.8	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Toxaphene	ND	500	82	10	B7A0176	01/06/2017	01/10/17 13:37	D1
Surrogate: Decachlorobiphenyl	*99.9 %*	*27 - 123*			B7A0176	01/06/2017	*01/10/17 13:37*	
Surrogate: Tetrachloro-m-xylene	*82.5 %*	*26 - 108*			B7A0176	01/06/2017	*01/10/17 13:37*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-5-1.5
Lab ID: 1604921-49

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.5**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 11:04	
Lead	**8.5**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 11:04	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 13:48	D1
4,4´-DDE	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 13:48	D1
4,4´-DDT	ND	20	1.3	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Aldrin	ND	10	2.7	10	B7A0176	01/06/2017	01/10/17 13:48	D1
alpha-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:48	D1
alpha-Chlordane	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:48	D1
beta-BHC	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Chlordane	ND	85	9.0	10	B7A0176	01/06/2017	01/10/17 13:48	D1
delta-BHC	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Dieldrin	ND	20	2.5	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Endosulfan I	ND	10	2.1	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Endosulfan II	ND	20	2.2	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Endrin	ND	20	2.3	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Endrin aldehyde	ND	20	2.8	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Endrin ketone	ND	20	2.0	10	B7A0176	01/06/2017	01/10/17 13:48	D1
gamma-BHC	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:48	D1
gamma-Chlordane	ND	10	2.3	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Heptachlor	ND	10	1.9	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Methoxychlor	ND	50	1.8	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Toxaphene	ND	500	82	10	B7A0176	01/06/2017	01/10/17 13:48	D1
Surrogate: Decachlorobiphenyl	*102 %*	*27 - 123*			B7A0176	01/06/2017	*01/10/17 13:48*	
Surrogate: Tetrachloro-m-xylene	*79.6 %*	*26 - 108*			B7A0176	01/06/2017	*01/10/17 13:48*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB6-2-0.5
Lab ID: 1604921-51

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.4**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 11:05	
Lead	**3.5**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 11:05	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 13:46	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 13:46	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 13:46	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 13:46	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 13:46	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 13:46	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 13:46	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 13:46	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 13:46	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 13:46	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 13:46	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 13:46	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 13:46	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 13:46	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 13:46	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 13:46	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 13:46	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 13:46	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 13:46	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 13:46	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 13:46	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 13:46	
Surrogate: Decachlorobiphenyl	*66.6 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 13:46*	
Surrogate: Tetrachloro-m-xylene	*61.8 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 13:46*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB6-2-1.5
Lab ID: 1604921-52

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 11:06	
Lead	**3.1**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 11:06	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 13:57	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 13:57	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 13:57	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 13:57	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 13:57	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 13:57	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 13:57	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 13:57	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 13:57	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 13:57	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 13:57	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 13:57	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 13:57	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 13:57	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 13:57	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 13:57	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 13:57	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 13:57	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 13:57	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 13:57	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 13:57	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 13:57	
Surrogate: Decachlorobiphenyl	*90.6 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 13:57*	
Surrogate: Tetrachloro-m-xylene	*87.9 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 13:57*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB6-2-1.5

Lab ID: 1604921-52

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:06	
Aroclor 1221	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:06	
Aroclor 1232	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:06	
Aroclor 1242	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:06	
Aroclor 1248	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:06	
Aroclor 1254	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:06	
Aroclor 1260	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:06	
Aroclor 1262	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:06	
Aroclor 1268	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:06	
Surrogate: Decachlorobiphenyl	*102 %*	*26 - 137*			B7A0176	01/06/2017	*01/06/17 19:06*	
Surrogate: Tetrachloro-m-xylene	*102 %*	*28 - 102*			B7A0176	01/06/2017	*01/06/17 19:06*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-2-0.5
Lab ID: 1604921-54

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.1**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 11:07	
Lead	**7.9**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 11:07	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 14:08	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:08	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 14:08	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 14:08	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:08	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:08	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:08	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 14:08	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:08	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 14:08	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:08	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 14:08	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:08	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:08	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 14:08	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:08	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:08	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:08	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 14:08	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:08	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 14:08	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 14:08	
Surrogate: Decachlorobiphenyl	*59.0 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 14:08*	
Surrogate: Tetrachloro-m-xylene	*59.5 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 14:08*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-2-1.5
Lab ID: 1604921-55

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0230	01/09/2017	01/10/17 11:08	
Lead	**3.7**	1.0	0.11	1	B7A0230	01/09/2017	01/10/17 11:08	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 14:18	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:18	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 14:18	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 14:18	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:18	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:18	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:18	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 14:18	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:18	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 14:18	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:18	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 14:18	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:18	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:18	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 14:18	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:18	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:18	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:18	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 14:18	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:18	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 14:18	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 14:18	
Surrogate: Decachlorobiphenyl	*58.8 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 14:18*	
Surrogate: Tetrachloro-m-xylene	*60.5 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 14:18*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB16-3-0.5
Lab ID: 1604921-57

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:18	
Lead	**5.3**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:18	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 14:29	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:29	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 14:29	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 14:29	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:29	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:29	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:29	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 14:29	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:29	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 14:29	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:29	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 14:29	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:29	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:29	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 14:29	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:29	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:29	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:29	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 14:29	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:29	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 14:29	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 14:29	
Surrogate: Decachlorobiphenyl	*60.1 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 14:29*	
Surrogate: Tetrachloro-m-xylene	*57.2 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 14:29*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB16-3-1.5
Lab ID: 1604921-58

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:19	
Lead	**1.7**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:19	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 14:40	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:40	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 14:40	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 14:40	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:40	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:40	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:40	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 14:40	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:40	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 14:40	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:40	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 14:40	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:40	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:40	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 14:40	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:40	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:40	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:40	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 14:40	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:40	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 14:40	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 14:40	
Surrogate: Decachlorobiphenyl	*56.9 %*	*27 - 123*			B7A0176	01/06/2017	*01/07/17 14:40*	
Surrogate: Tetrachloro-m-xylene	*54.1 %*	*26 - 108*			B7A0176	01/06/2017	*01/07/17 14:40*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB22-2-0.5
Lab ID: 1604921-60

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.4**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:20	
Lead	**3.9**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:20	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 14:50	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:50	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 14:50	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 14:50	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:50	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:50	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:50	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 14:50	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:50	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 14:50	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:50	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 14:50	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 14:50	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:50	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 14:50	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:50	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:50	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 14:50	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 14:50	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 14:50	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 14:50	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 14:50	
Surrogate: Decachlorobiphenyl	*61.5 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 14:50*	
Surrogate: Tetrachloro-m-xylene	*59.9 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 14:50*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB22-2-1.5
Lab ID: 1604921-61

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.2**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:21	
Lead	**3.2**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:21	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:01	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:01	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 15:01	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 15:01	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:01	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:01	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:01	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 15:01	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:01	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 15:01	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:01	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:01	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:01	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:01	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 15:01	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:01	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:01	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:01	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 15:01	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:01	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 15:01	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 15:01	
Surrogate: Decachlorobiphenyl	*58.3 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 15:01*	
Surrogate: Tetrachloro-m-xylene	*54.9 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 15:01*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB22-2-1.5

Lab ID: 1604921-61

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:25	
Aroclor 1221	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:25	
Aroclor 1232	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:25	
Aroclor 1242	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:25	
Aroclor 1248	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:25	
Aroclor 1254	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:25	
Aroclor 1260	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:25	
Aroclor 1262	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:25	
Aroclor 1268	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:25	
Surrogate: Decachlorobiphenyl	*102 %*	*26 - 137*			B7A0176	01/06/2017	*01/06/17 19:25*	
Surrogate: Tetrachloro-m-xylene	*107 %*	*28 - 102*			B7A0176	01/06/2017	*01/06/17 19:25*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB24-6-0.5
Lab ID: 1604921-63

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:22	
Lead	**10**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:22	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:11	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:11	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 15:11	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 15:11	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:11	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:11	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:11	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 15:11	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:11	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 15:11	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:11	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:11	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:11	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:11	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 15:11	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:11	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:11	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:11	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 15:11	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:11	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 15:11	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 15:11	
Surrogate: Decachlorobiphenyl	*53.2 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 15:11*	
Surrogate: Tetrachloro-m-xylene	*53.0 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 15:11*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB24-6-1.5
Lab ID: 1604921-64

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:23	
Lead	**4.5**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:23	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:22	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:22	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 15:22	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 15:22	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:22	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:22	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:22	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 15:22	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:22	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 15:22	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:22	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:22	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:22	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:22	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 15:22	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:22	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:22	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:22	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 15:22	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:22	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 15:22	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 15:22	
Surrogate: Decachlorobiphenyl	*62.2 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 15:22*	
Surrogate: Tetrachloro-m-xylene	*60.8 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 15:22*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB3-2-0.5
Lab ID: 1604921-66

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.5**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:24	
Lead	**24**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:24	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:33	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:33	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 15:33	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 15:33	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:33	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:33	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:33	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 15:33	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:33	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 15:33	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:33	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:33	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:33	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:33	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 15:33	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:33	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:33	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:33	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 15:33	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:33	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 15:33	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 15:33	
Surrogate: Decachlorobiphenyl	*42.0 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 15:33*	
Surrogate: Tetrachloro-m-xylene	*40.1 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 15:33*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB3-2-1.5
Lab ID: 1604921-67

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:25	
Lead	**4.4**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:25	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:43	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:43	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 15:43	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 15:43	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:43	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:43	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:43	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 15:43	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:43	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 15:43	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:43	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:43	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:43	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:43	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 15:43	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:43	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:43	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:43	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 15:43	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:43	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 15:43	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 15:43	
Surrogate: Decachlorobiphenyl	*40.1 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 15:43*	
Surrogate: Tetrachloro-m-xylene	*35.1 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 15:43*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-1-0.5
Lab ID: 1604921-69

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:26	
Lead	**25**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:26	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:54	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:54	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 15:54	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 15:54	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:54	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:54	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:54	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 15:54	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:54	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 15:54	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:54	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 15:54	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 15:54	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:54	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 15:54	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:54	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:54	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 15:54	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 15:54	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 15:54	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 15:54	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 15:54	
Surrogate: Decachlorobiphenyl	*62.3 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 15:54*	
Surrogate: Tetrachloro-m-xylene	*57.6 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 15:54*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB5-1-1.5
Lab ID: 1604921-70

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:28	
Lead	**3.7**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:28	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 16:04	
4,4´-DDE	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 16:04	
4,4´-DDT	ND	2.0	0.13	1	B7A0176	01/06/2017	01/07/17 16:04	
Aldrin	ND	1.0	0.27	1	B7A0176	01/06/2017	01/07/17 16:04	
alpha-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 16:04	
alpha-Chlordane	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 16:04	
beta-BHC	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 16:04	
Chlordane	ND	8.5	0.90	1	B7A0176	01/06/2017	01/07/17 16:04	
delta-BHC	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 16:04	
Dieldrin	ND	2.0	0.25	1	B7A0176	01/06/2017	01/07/17 16:04	
Endosulfan I	ND	1.0	0.21	1	B7A0176	01/06/2017	01/07/17 16:04	
Endosulfan II	ND	2.0	0.22	1	B7A0176	01/06/2017	01/07/17 16:04	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0176	01/06/2017	01/07/17 16:04	
Endrin	ND	2.0	0.23	1	B7A0176	01/06/2017	01/07/17 16:04	
Endrin aldehyde	ND	2.0	0.28	1	B7A0176	01/06/2017	01/07/17 16:04	
Endrin ketone	ND	2.0	0.20	1	B7A0176	01/06/2017	01/07/17 16:04	
gamma-BHC	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 16:04	
gamma-Chlordane	ND	1.0	0.23	1	B7A0176	01/06/2017	01/07/17 16:04	
Heptachlor	ND	1.0	0.19	1	B7A0176	01/06/2017	01/07/17 16:04	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0176	01/06/2017	01/07/17 16:04	
Methoxychlor	ND	5.0	0.18	1	B7A0176	01/06/2017	01/07/17 16:04	
Toxaphene	ND	50	8.2	1	B7A0176	01/06/2017	01/07/17 16:04	
Surrogate: Decachlorobiphenyl	*57.1 %*		*27 - 123*		B7A0176	01/06/2017	*01/07/17 16:04*	
Surrogate: Tetrachloro-m-xylene	*54.8 %*		*26 - 108*		B7A0176	01/06/2017	*01/07/17 16:04*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB24-1-0.5
Lab ID: 1604921-72

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.6**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:31	
Lead	**2.5**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:31	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:04	
4,4´-DDE	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:04	
4,4´-DDT	ND	2.0	0.13	1	B7A0194	01/06/2017	01/07/17 14:04	
Aldrin	ND	1.0	0.27	1	B7A0194	01/06/2017	01/07/17 14:04	
alpha-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:04	
alpha-Chlordane	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:04	
beta-BHC	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:04	
Chlordane	ND	8.5	0.90	1	B7A0194	01/06/2017	01/07/17 14:04	
delta-BHC	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:04	
Dieldrin	ND	2.0	0.25	1	B7A0194	01/06/2017	01/07/17 14:04	
Endosulfan I	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:04	
Endosulfan II	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:04	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:04	
Endrin	ND	2.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:04	
Endrin aldehyde	ND	2.0	0.28	1	B7A0194	01/06/2017	01/07/17 14:04	
Endrin ketone	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:04	
gamma-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:04	
gamma-Chlordane	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:04	
Heptachlor	ND	1.0	0.19	1	B7A0194	01/06/2017	01/07/17 14:04	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:04	
Methoxychlor	ND	5.0	0.18	1	B7A0194	01/06/2017	01/07/17 14:04	
Toxaphene	ND	50	8.2	1	B7A0194	01/06/2017	01/07/17 14:04	
Surrogate: Decachlorobiphenyl	*89.5 %*	*27 - 123*			B7A0194	01/06/2017	*01/07/17 14:04*	
Surrogate: Tetrachloro-m-xylene	*85.4 %*	*26 - 108*			B7A0194	01/06/2017	*01/07/17 14:04*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB24-1-0.5

Lab ID: 1604921-72

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:44	
Aroclor 1221	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:44	
Aroclor 1232	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:44	
Aroclor 1242	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:44	
Aroclor 1248	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:44	
Aroclor 1254	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:44	
Aroclor 1260	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:44	
Aroclor 1262	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:44	
Aroclor 1268	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 19:44	
Surrogate: Decachlorobiphenyl	*101 %*	*26 - 137*			B7A0176	01/06/2017	*01/06/17 19:44*	
Surrogate: Tetrachloro-m-xylene	*101 %*	*28 - 102*			B7A0176	01/06/2017	*01/06/17 19:44*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB24-1-1.5
Lab ID: 1604921-73

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.7**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:32	
Lead	**7.5**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:32	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:15	
4,4´-DDE [2C]	**0.73**	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:15	J
4,4´-DDT	**0.62**	2.0	0.13	1	B7A0194	01/06/2017	01/07/17 14:15	J
Aldrin	ND	1.0	0.27	1	B7A0194	01/06/2017	01/07/17 14:15	
alpha-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:15	
alpha-Chlordane	**0.65**	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:15	J
beta-BHC	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:15	
Chlordane	**7.6**	8.5	0.90	1	B7A0194	01/06/2017	01/07/17 14:15	J
delta-BHC	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:15	
Dieldrin	ND	2.0	0.25	1	B7A0194	01/06/2017	01/07/17 14:15	
Endosulfan I	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:15	
Endosulfan II	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:15	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:15	
Endrin	ND	2.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:15	
Endrin aldehyde	ND	2.0	0.28	1	B7A0194	01/06/2017	01/07/17 14:15	
Endrin ketone	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:15	
gamma-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:15	
gamma-Chlordane [2C]	**0.76**	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:15	J
Heptachlor	ND	1.0	0.19	1	B7A0194	01/06/2017	01/07/17 14:15	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:15	
Methoxychlor	ND	5.0	0.18	1	B7A0194	01/06/2017	01/07/17 14:15	
Toxaphene	ND	50	8.2	1	B7A0194	01/06/2017	01/07/17 14:15	
Surrogate: Decachlorobiphenyl	*49.4 %*	*27 - 123*			B7A0194	01/06/2017	*01/07/17 14:15*	
Surrogate: Tetrachloro-m-xylene	*51.4 %*	*26 - 108*			B7A0194	01/06/2017	*01/07/17 14:15*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB24-2-0.5
Lab ID: 1604921-75

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:33	
Lead	**8.5**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:33	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:25	
4,4´-DDE	**0.71**	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:25	J
4,4´-DDT	ND	2.0	0.13	1	B7A0194	01/06/2017	01/07/17 14:25	
Aldrin	ND	1.0	0.27	1	B7A0194	01/06/2017	01/07/17 14:25	
alpha-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:25	
alpha-Chlordane [2C]	**0.30**	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:25	J
beta-BHC	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:25	
Chlordane [2C]	**2.7**	8.5	0.90	1	B7A0194	01/06/2017	01/07/17 14:25	J
delta-BHC	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:25	
Dieldrin	ND	2.0	0.25	1	B7A0194	01/06/2017	01/07/17 14:25	
Endosulfan I	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:25	
Endosulfan II	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:25	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:25	
Endrin	ND	2.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:25	
Endrin aldehyde	ND	2.0	0.28	1	B7A0194	01/06/2017	01/07/17 14:25	
Endrin ketone	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:25	
gamma-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:25	
gamma-Chlordane [2C]	**0.23**	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:25	J
Heptachlor	ND	1.0	0.19	1	B7A0194	01/06/2017	01/07/17 14:25	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:25	
Methoxychlor	ND	5.0	0.18	1	B7A0194	01/06/2017	01/07/17 14:25	
Toxaphene	ND	50	8.2	1	B7A0194	01/06/2017	01/07/17 14:25	
Surrogate: Decachlorobiphenyl	*71.2 %*		*27 - 123*		B7A0194	01/06/2017	*01/07/17 14:25*	
Surrogate: Tetrachloro-m-xylene	*73.4 %*		*26 - 108*		B7A0194	01/06/2017	*01/07/17 14:25*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB24-2-1.5
Lab ID: 1604921-76

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:35	
Lead	**17**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:35	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:36	
4,4´-DDE	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:36	
4,4´-DDT	ND	2.0	0.13	1	B7A0194	01/06/2017	01/07/17 14:36	
Aldrin	ND	1.0	0.27	1	B7A0194	01/06/2017	01/07/17 14:36	
alpha-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:36	
alpha-Chlordane	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:36	
beta-BHC	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:36	
Chlordane	ND	8.5	0.90	1	B7A0194	01/06/2017	01/07/17 14:36	
delta-BHC	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:36	
Dieldrin	ND	2.0	0.25	1	B7A0194	01/06/2017	01/07/17 14:36	
Endosulfan I	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:36	
Endosulfan II	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:36	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:36	
Endrin	ND	2.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:36	
Endrin aldehyde	ND	2.0	0.28	1	B7A0194	01/06/2017	01/07/17 14:36	
Endrin ketone	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:36	
gamma-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:36	
gamma-Chlordane	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:36	
Heptachlor	ND	1.0	0.19	1	B7A0194	01/06/2017	01/07/17 14:36	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:36	
Methoxychlor	ND	5.0	0.18	1	B7A0194	01/06/2017	01/07/17 14:36	
Toxaphene	ND	50	8.2	1	B7A0194	01/06/2017	01/07/17 14:36	
Surrogate: Decachlorobiphenyl	*55.0 %*		*27 - 123*		B7A0194	01/06/2017	*01/07/17 14:36*	
Surrogate: Tetrachloro-m-xylene	*60.0 %*		*26 - 108*		B7A0194	01/06/2017	*01/07/17 14:36*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB24-3-0.5

Lab ID: 1604921-78

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.1**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:36	
Lead	**10**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:36	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:46	
4,4´-DDE	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:46	
4,4´-DDT	ND	2.0	0.13	1	B7A0194	01/06/2017	01/07/17 14:46	
Aldrin	ND	1.0	0.27	1	B7A0194	01/06/2017	01/07/17 14:46	
alpha-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:46	
alpha-Chlordane	**0.25**	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:46	J
beta-BHC	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:46	
Chlordane	**3.0**	8.5	0.90	1	B7A0194	01/06/2017	01/07/17 14:46	J
delta-BHC	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:46	
Dieldrin	ND	2.0	0.25	1	B7A0194	01/06/2017	01/07/17 14:46	
Endosulfan I	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:46	
Endosulfan II	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:46	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:46	
Endrin	ND	2.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:46	
Endrin aldehyde	ND	2.0	0.28	1	B7A0194	01/06/2017	01/07/17 14:46	
Endrin ketone	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:46	
gamma-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:46	
gamma-Chlordane	**0.34**	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:46	J
Heptachlor	ND	1.0	0.19	1	B7A0194	01/06/2017	01/07/17 14:46	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:46	
Methoxychlor	ND	5.0	0.18	1	B7A0194	01/06/2017	01/07/17 14:46	
Toxaphene	ND	50	8.2	1	B7A0194	01/06/2017	01/07/17 14:46	
Surrogate: Decachlorobiphenyl	*54.4 %*	*27 - 123*			B7A0194	01/06/2017	*01/07/17 14:46*	
Surrogate: Tetrachloro-m-xylene	*57.8 %*	*26 - 108*			B7A0194	01/06/2017	*01/07/17 14:46*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB24-3-1.5
Lab ID: 1604921-79

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:37	
Lead	**2.5**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:37	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:57	
4,4´-DDE	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:57	
4,4´-DDT	ND	2.0	0.13	1	B7A0194	01/06/2017	01/07/17 14:57	
Aldrin	ND	1.0	0.27	1	B7A0194	01/06/2017	01/07/17 14:57	
alpha-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:57	
alpha-Chlordane	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:57	
beta-BHC	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:57	
Chlordane	ND	8.5	0.90	1	B7A0194	01/06/2017	01/07/17 14:57	
delta-BHC	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:57	
Dieldrin	ND	2.0	0.25	1	B7A0194	01/06/2017	01/07/17 14:57	
Endosulfan I	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:57	
Endosulfan II	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 14:57	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0194	01/06/2017	01/07/17 14:57	
Endrin	ND	2.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:57	
Endrin aldehyde	ND	2.0	0.28	1	B7A0194	01/06/2017	01/07/17 14:57	
Endrin ketone	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:57	
gamma-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:57	
gamma-Chlordane	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 14:57	
Heptachlor	ND	1.0	0.19	1	B7A0194	01/06/2017	01/07/17 14:57	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 14:57	
Methoxychlor	ND	5.0	0.18	1	B7A0194	01/06/2017	01/07/17 14:57	
Toxaphene	ND	50	8.2	1	B7A0194	01/06/2017	01/07/17 14:57	
Surrogate: Decachlorobiphenyl	*72.2 %*		*27 - 123*		B7A0194	01/06/2017	*01/07/17 14:57*	
Surrogate: Tetrachloro-m-xylene	*79.9 %*		*26 - 108*		B7A0194	01/06/2017	*01/07/17 14:57*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB25-3-0.5
Lab ID: 1604921-81

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.4**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:38	
Lead	**10**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:38	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 15:07	
4,4´-DDE	**0.21**	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:07	J
4,4´-DDT	ND	2.0	0.13	1	B7A0194	01/06/2017	01/07/17 15:07	
Aldrin	ND	1.0	0.27	1	B7A0194	01/06/2017	01/07/17 15:07	
alpha-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:07	
alpha-Chlordane	**0.46**	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:07	J
beta-BHC	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:07	
Chlordane	**4.0**	8.5	0.90	1	B7A0194	01/06/2017	01/07/17 15:07	J
delta-BHC	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:07	
Dieldrin	ND	2.0	0.25	1	B7A0194	01/06/2017	01/07/17 15:07	
Endosulfan I	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:07	
Endosulfan II	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 15:07	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:07	
Endrin	ND	2.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:07	
Endrin aldehyde	ND	2.0	0.28	1	B7A0194	01/06/2017	01/07/17 15:07	
Endrin ketone	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:07	
gamma-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:07	
gamma-Chlordane	**0.41**	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:07	J
Heptachlor	ND	1.0	0.19	1	B7A0194	01/06/2017	01/07/17 15:07	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:07	
Methoxychlor	ND	5.0	0.18	1	B7A0194	01/06/2017	01/07/17 15:07	
Toxaphene	ND	50	8.2	1	B7A0194	01/06/2017	01/07/17 15:07	
Surrogate: Decachlorobiphenyl	*63.4 %*	*27 - 123*			B7A0194	01/06/2017	*01/07/17 15:07*	
Surrogate: Tetrachloro-m-xylene	*61.4 %*	*26 - 108*			B7A0194	01/06/2017	*01/07/17 15:07*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB25-3-1.5
Lab ID: 1604921-82

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.1**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:39	
Lead	**4.9**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:39	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 15:17	
4,4´-DDE	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:17	
4,4´-DDT	ND	2.0	0.13	1	B7A0194	01/06/2017	01/07/17 15:17	
Aldrin	ND	1.0	0.27	1	B7A0194	01/06/2017	01/07/17 15:17	
alpha-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:17	
alpha-Chlordane	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:17	
beta-BHC	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:17	
Chlordane	ND	8.5	0.90	1	B7A0194	01/06/2017	01/07/17 15:17	
delta-BHC	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:17	
Dieldrin	ND	2.0	0.25	1	B7A0194	01/06/2017	01/07/17 15:17	
Endosulfan I	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:17	
Endosulfan II	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 15:17	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:17	
Endrin	ND	2.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:17	
Endrin aldehyde	ND	2.0	0.28	1	B7A0194	01/06/2017	01/07/17 15:17	
Endrin ketone	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:17	
gamma-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:17	
gamma-Chlordane	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:17	
Heptachlor	ND	1.0	0.19	1	B7A0194	01/06/2017	01/07/17 15:17	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:17	
Methoxychlor	ND	5.0	0.18	1	B7A0194	01/06/2017	01/07/17 15:17	
Toxaphene	ND	50	8.2	1	B7A0194	01/06/2017	01/07/17 15:17	
Surrogate: Decachlorobiphenyl	*62.6 %*		*27 - 123*		B7A0194	01/06/2017	*01/07/17 15:17*	
Surrogate: Tetrachloro-m-xylene	*70.7 %*		*26 - 108*		B7A0194	01/06/2017	*01/07/17 15:17*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB25-3-1.5

Lab ID: 1604921-82

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:03	
Aroclor 1221	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:03	
Aroclor 1232	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:03	
Aroclor 1242	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:03	
Aroclor 1248	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:03	
Aroclor 1254	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:03	
Aroclor 1260	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:03	
Aroclor 1262	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:03	
Aroclor 1268	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:03	
Surrogate: Decachlorobiphenyl	*99.7 %*	*26 - 137*			B7A0176	01/06/2017	*01/06/17 20:03*	
Surrogate: Tetrachloro-m-xylene	*105 %*	*28 - 102*			B7A0176	01/06/2017	*01/06/17 20:03*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB23-3-0.5
Lab ID: 1604921-84

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0231	01/09/2017	01/10/17 11:40	
Lead	**5.0**	1.0	0.11	1	B7A0231	01/09/2017	01/10/17 11:40	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 15:28	
4,4´-DDE	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:28	
4,4´-DDT	ND	2.0	0.13	1	B7A0194	01/06/2017	01/07/17 15:28	
Aldrin	ND	1.0	0.27	1	B7A0194	01/06/2017	01/07/17 15:28	
alpha-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:28	
alpha-Chlordane	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:28	
beta-BHC	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:28	
Chlordane	**1.6**	8.5	0.90	1	B7A0194	01/06/2017	01/07/17 15:28	J
delta-BHC	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:28	
Dieldrin	ND	2.0	0.25	1	B7A0194	01/06/2017	01/07/17 15:28	
Endosulfan I	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:28	
Endosulfan II	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 15:28	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:28	
Endrin	ND	2.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:28	
Endrin aldehyde	ND	2.0	0.28	1	B7A0194	01/06/2017	01/07/17 15:28	
Endrin ketone	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:28	
gamma-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:28	
gamma-Chlordane	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:28	
Heptachlor	ND	1.0	0.19	1	B7A0194	01/06/2017	01/07/17 15:28	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:28	
Methoxychlor	ND	5.0	0.18	1	B7A0194	01/06/2017	01/07/17 15:28	
Toxaphene	ND	50	8.2	1	B7A0194	01/06/2017	01/07/17 15:28	
Surrogate: Decachlorobiphenyl	*54.4 %*		*27 - 123*		B7A0194	01/06/2017	*01/07/17 15:28*	
Surrogate: Tetrachloro-m-xylene	*65.4 %*		*26 - 108*		B7A0194	01/06/2017	*01/07/17 15:28*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB23-3-0.5

Lab ID: 1604921-84

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:22	
Aroclor 1221	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:22	
Aroclor 1232	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:22	
Aroclor 1242	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:22	
Aroclor 1248	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:22	
Aroclor 1254	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:22	
Aroclor 1260	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:22	
Aroclor 1262	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:22	
Aroclor 1268	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:22	
Surrogate: Decachlorobiphenyl	*97.1 %*	*26 - 137*			B7A0176	01/06/2017	*01/06/17 20:22*	
Surrogate: Tetrachloro-m-xylene	*101 %*	*28 - 102*			B7A0176	01/06/2017	*01/06/17 20:22*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB23-3-1.5
Lab ID: 1604921-85

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.73**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 11:49	J
Lead	**5.2**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 11:49	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 15:38	
4,4´-DDE	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:38	
4,4´-DDT	ND	2.0	0.13	1	B7A0194	01/06/2017	01/07/17 15:38	
Aldrin	ND	1.0	0.27	1	B7A0194	01/06/2017	01/07/17 15:38	
alpha-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:38	
alpha-Chlordane	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:38	
beta-BHC	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:38	
Chlordane	ND	8.5	0.90	1	B7A0194	01/06/2017	01/07/17 15:38	
delta-BHC	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:38	
Dieldrin	ND	2.0	0.25	1	B7A0194	01/06/2017	01/07/17 15:38	
Endosulfan I	ND	1.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:38	
Endosulfan II	ND	2.0	0.22	1	B7A0194	01/06/2017	01/07/17 15:38	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0194	01/06/2017	01/07/17 15:38	
Endrin	ND	2.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:38	
Endrin aldehyde	ND	2.0	0.28	1	B7A0194	01/06/2017	01/07/17 15:38	
Endrin ketone	ND	2.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:38	
gamma-BHC	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:38	
gamma-Chlordane	ND	1.0	0.23	1	B7A0194	01/06/2017	01/07/17 15:38	
Heptachlor	ND	1.0	0.19	1	B7A0194	01/06/2017	01/07/17 15:38	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0194	01/06/2017	01/07/17 15:38	
Methoxychlor	ND	5.0	0.18	1	B7A0194	01/06/2017	01/07/17 15:38	
Toxaphene	ND	50	8.2	1	B7A0194	01/06/2017	01/07/17 15:38	
Surrogate: Decachlorobiphenyl	*73.4 %*		*27 - 123*		B7A0194	01/06/2017	*01/07/17 15:38*	
Surrogate: Tetrachloro-m-xylene	*72.9 %*		*26 - 108*		B7A0194	01/06/2017	*01/07/17 15:38*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EB23-3-1.5

Lab ID: 1604921-85

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:41	
Aroclor 1221	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:41	
Aroclor 1232	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:41	
Aroclor 1242	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:41	
Aroclor 1248	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:41	
Aroclor 1254	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:41	
Aroclor 1260	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:41	
Aroclor 1262	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:41	
Aroclor 1268	ND	16	1.5	1	B7A0176	01/06/2017	01/06/17 20:41	
Surrogate: Decachlorobiphenyl	*103 %*	*26 - 137*			B7A0176	01/06/2017	*01/06/17 20:41*	
Surrogate: Tetrachloro-m-xylene	*109 %*	*28 - 102*			B7A0176	01/06/2017	*01/06/17 20:41*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID DRUM1

Lab ID: 1604921-87

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.32	1	B7A0069	01/04/2017	01/04/17 11:21	
Arsenic	**2.7**	1.0	0.70	1	B7A0069	01/04/2017	01/04/17 11:21	
Barium	**90**	1.0	0.10	1	B7A0069	01/04/2017	01/04/17 11:21	
Beryllium	**0.25**	1.0	0.04	1	B7A0069	01/04/2017	01/04/17 11:21	J
Cadmium	ND	1.0	0.09	1	B7A0069	01/04/2017	01/04/17 11:21	
Chromium	**12**	1.0	0.12	1	B7A0069	01/04/2017	01/04/17 11:21	
Cobalt	**6.2**	1.0	0.10	1	B7A0069	01/04/2017	01/04/17 11:21	
Copper	**15**	2.0	0.11	1	B7A0069	01/04/2017	01/04/17 11:21	
Lead	**21**	1.0	0.11	1	B7A0069	01/04/2017	01/04/17 11:21	
Molybdenum	ND	1.0	0.13	1	B7A0069	01/04/2017	01/04/17 11:21	
Nickel	**10**	1.0	0.10	1	B7A0069	01/04/2017	01/04/17 11:21	
Selenium	ND	1.0	0.88	1	B7A0069	01/04/2017	01/04/17 11:21	
Silver	ND	1.0	0.04	1	B7A0069	01/04/2017	01/04/17 11:21	
Thallium	ND	1.0	0.42	1	B7A0069	01/04/2017	01/04/17 11:21	
Vanadium	**21**	1.0	0.19	1	B7A0069	01/04/2017	01/04/17 11:21	
Zinc	**58**	1.0	0.18	1	B7A0069	01/04/2017	01/04/17 11:21	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.03**	0.10	0.02	1	B7A0064	01/04/2017	01/04/17 12:51	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B7A0022	01/03/2017	01/03/17 17:59	
Surrogate: 4-Bromofluorobenzene	*88.5 %*		*36 - 125*		B7A0022	01/03/2017	*01/03/17 17:59*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**94**	10	10	10	B7A0043	01/03/2017	01/04/17 11:00	
ORO	**370**	10	10	10	B7A0043	01/03/2017	01/04/17 11:00	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID DRUM1
Lab ID: 1604921-87

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	*0%*	*18 - 130*		B7A0043	01/03/2017	*01/04/17 11:00*	S4

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0038	01/03/2017	01/04/17 11:55	
4,4´-DDE	**5.0**	2.0	0.20	1	B7A0038	01/03/2017	01/04/17 11:55	
4,4´-DDT	ND	2.0	0.13	1	B7A0038	01/03/2017	01/04/17 11:55	
Aldrin	ND	1.0	0.27	1	B7A0038	01/03/2017	01/04/17 11:55	
alpha-BHC	ND	1.0	0.20	1	B7A0038	01/03/2017	01/04/17 11:55	
alpha-Chlordane	**0.60**	1.0	0.21	1	B7A0038	01/03/2017	01/04/17 11:55	J
beta-BHC	ND	1.0	0.23	1	B7A0038	01/03/2017	01/04/17 11:55	
Chlordane	**5.0**	8.5	0.90	1	B7A0038	01/03/2017	01/04/17 11:55	J
delta-BHC	ND	1.0	0.21	1	B7A0038	01/03/2017	01/04/17 11:55	
Dieldrin	ND	2.0	0.25	1	B7A0038	01/03/2017	01/04/17 11:55	
Endosulfan I	ND	1.0	0.21	1	B7A0038	01/03/2017	01/04/17 11:55	
Endosulfan II	ND	2.0	0.22	1	B7A0038	01/03/2017	01/04/17 11:55	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0038	01/03/2017	01/04/17 11:55	
Endrin	ND	2.0	0.23	1	B7A0038	01/03/2017	01/04/17 11:55	
Endrin aldehyde	ND	2.0	0.28	1	B7A0038	01/03/2017	01/04/17 11:55	
Endrin ketone	ND	2.0	0.20	1	B7A0038	01/03/2017	01/04/17 11:55	
gamma-BHC	ND	1.0	0.20	1	B7A0038	01/03/2017	01/04/17 11:55	
gamma-Chlordane	**0.56**	1.0	0.23	1	B7A0038	01/03/2017	01/04/17 11:55	J
Heptachlor	ND	1.0	0.19	1	B7A0038	01/03/2017	01/04/17 11:55	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0038	01/03/2017	01/04/17 11:55	
Methoxychlor	ND	5.0	0.18	1	B7A0038	01/03/2017	01/04/17 11:55	
Toxaphene	ND	50	8.2	1	B7A0038	01/03/2017	01/04/17 11:55	
Surrogate: Decachlorobiphenyl	*39.9 %*	*27 - 123*		B7A0038	01/03/2017	*01/04/17 11:55*	
Surrogate: Tetrachloro-m-xylene	*26.4 %*	*26 - 108*		B7A0038	01/03/2017	*01/04/17 11:55*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EQB-12-29-16
Lab ID: 1604921-88

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	0.010	0.0067	1	B7A0165	01/06/2017	01/09/17 12:35	
Lead	ND	0.0050	0.0028	1	B7A0165	01/06/2017	01/09/17 12:35	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
4,4´-DDE	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
4,4´-DDT	ND	0.05	0.004	1	B7A0037	01/03/2017	01/03/17 17:43	
Aldrin	ND	0.02	0.004	1	B7A0037	01/03/2017	01/03/17 17:43	
alpha-BHC	ND	0.02	0.004	1	B7A0037	01/03/2017	01/03/17 17:43	
alpha-Chlordane	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
beta-BHC	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
Chlordane	ND	0.25	0.03	1	B7A0037	01/03/2017	01/03/17 17:43	
delta-BHC	ND	0.02	0.004	1	B7A0037	01/03/2017	01/03/17 17:43	
Dieldrin	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
Endosulfan I	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
Endosulfan II	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
Endosulfan sulfate	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
Endrin	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
Endrin aldehyde	ND	0.05	0.006	1	B7A0037	01/03/2017	01/03/17 17:43	
Endrin ketone	ND	0.05	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
gamma-BHC	ND	0.02	0.004	1	B7A0037	01/03/2017	01/03/17 17:43	
gamma-Chlordane	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
Heptachlor	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
Heptachlor epoxide	ND	0.02	0.005	1	B7A0037	01/03/2017	01/03/17 17:43	
Methoxychlor	ND	0.25	0.004	1	B7A0037	01/03/2017	01/03/17 17:43	
Toxaphene	ND	2.5	0.23	1	B7A0037	01/03/2017	01/03/17 17:43	
Surrogate: Decachlorobiphenyl	*20.7 %*		*7 - 127*		B7A0037	01/03/2017	*01/03/17 17:43*	
Surrogate: Tetrachloro-m-xylene	*30.3 %*		*14 - 122*		B7A0037	01/03/2017	*01/03/17 17:43*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Client Sample ID EQB-12-29-16

Lab ID: 1604921-88

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	0.50	0.06	1	B7A0037	01/03/2017	01/04/17 01:38	
Aroclor 1221	ND	1.0	0.06	1	B7A0037	01/03/2017	01/04/17 01:38	
Aroclor 1232	ND	0.50	0.06	1	B7A0037	01/03/2017	01/04/17 01:38	
Aroclor 1242	ND	0.50	0.06	1	B7A0037	01/03/2017	01/04/17 01:38	
Aroclor 1248	ND	0.50	0.06	1	B7A0037	01/03/2017	01/04/17 01:38	
Aroclor 1254	ND	0.50	0.06	1	B7A0037	01/03/2017	01/04/17 01:38	
Aroclor 1260	ND	0.50	0.06	1	B7A0037	01/03/2017	01/04/17 01:38	
Aroclor 1262	ND	0.50	0.06	1	B7A0037	01/03/2017	01/04/17 01:38	
Aroclor 1268	ND	0.50	0.06	1	B7A0037	01/03/2017	01/04/17 01:38	
Surrogate: Decachlorobiphenyl	*33.0 %*	*7 - 127*			B7A0037	01/03/2017	*01/04/17 01:38*	
Surrogate: Tetrachloro-m-xylene	*43.7 %*	*14 - 122*			B7A0037	01/03/2017	*01/04/17 01:38*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0165 - EPA 3010A_W									
Blank (B7A0165-BLK1)				Prepared: 1/6/2017 Analyzed: 1/9/2017					
Arsenic	ND	0.010			NR				
Lead	ND	0.0050			NR				
LCS (B7A0165-BS1)				Prepared: 1/6/2017 Analyzed: 1/9/2017					
Arsenic	0.931121	0.010	1.00000		93.1	80 - 120			
Lead	0.988818	0.0050	1.00000		98.9	80 - 120			
Duplicate (B7A0165-DUP1)		**Source: 1604921-88**		Prepared: 1/6/2017 Analyzed: 1/9/2017					
Arsenic	ND	0.010		ND	NR			20	
Lead	ND	0.0050		ND	NR			20	
Matrix Spike (B7A0165-MS1)		**Source: 1604921-88**		Prepared: 1/6/2017 Analyzed: 1/9/2017					
Arsenic	2.33699	0.010	2.50000	ND	93.5	74 - 123			
Lead	2.44334	0.0050	2.50000	ND	97.7	78 - 109			
Matrix Spike Dup (B7A0165-MSD1)		**Source: 1604921-88**		Prepared: 1/6/2017 Analyzed: 1/9/2017					
Arsenic	2.29142	0.010	2.50000	ND	91.7	74 - 123	1.97	20	
Lead	2.39762	0.0050	2.50000	ND	95.9	78 - 109	1.89	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0229 - EPA 3050B_S									
Blank (B7A0229-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0229-BS1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	46.1388	1.0	50.0000		92.3	80 - 120			
Lead	46.7878	1.0	50.0000		93.6	80 - 120			
Duplicate (B7A0229-DUP1)		**Source: 1604921-28**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	6.36432	1.0		3.39229	NR		60.9	20	R
Lead	14.1042	1.0		14.7382	NR		4.40	20	
Matrix Spike (B7A0229-MS1)		**Source: 1604921-28**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	72.5771	1.0	125.000	3.39229	55.3	59 - 103			M1
Lead	76.9976	1.0	125.000	14.7382	49.8	34 - 129			
Matrix Spike Dup (B7A0229-MSD1)		**Source: 1604921-28**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	78.9280	1.0	125.000	3.39229	60.4	59 - 103	8.38	20	
Lead	83.6582	1.0	125.000	14.7382	55.1	34 - 129	8.29	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0230 - EPA 3050B_S									
Blank (B7A0230-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0230-BS1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	53.7953	1.0	50.0000		108	80 - 120			
Lead	54.7385	1.0	50.0000		109	80 - 120			
Duplicate (B7A0230-DUP1)		**Source: 1604921-55**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	2.10560	1.0		2.02187	NR		4.06	20	
Lead	4.02665	1.0		3.74414	NR		7.27	20	
Matrix Spike (B7A0230-MS1)		**Source: 1604921-55**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	93.9709	1.0	125.000	2.02187	73.6	59 - 103			
Lead	96.9106	1.0	125.000	3.74414	74.5	34 - 129			
Matrix Spike Dup (B7A0230-MSD1)		**Source: 1604921-55**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	92.8694	1.0	125.000	2.02187	72.7	59 - 103	1.18	20	
Lead	96.0210	1.0	125.000	3.74414	73.8	34 - 129	0.922	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0231 - EPA 3050B_S									
Blank (B7A0231-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0231-BS1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	46.5803	1.0	50.0000		93.2	80 - 120			
Lead	47.3048	1.0	50.0000		94.6	80 - 120			
Duplicate (B7A0231-DUP1)		**Source: 1604921-84**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	1.39462	1.0		1.58849	NR		13.0	20	
Lead	4.75717	1.0		5.04206	NR		5.81	20	
Matrix Spike (B7A0231-MS1)		**Source: 1604921-84**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	100.487	1.0	125.000	1.58849	79.1	59 - 103			
Lead	104.425	1.0	125.000	5.04206	79.5	34 - 129			
Matrix Spike Dup (B7A0231-MSD1)		**Source: 1604921-84**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	102.325	1.0	125.000	1.58849	80.6	59 - 103	1.81	20	
Lead	103.198	1.0	125.000	5.04206	78.5	34 - 129	1.18	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0232 - EPA 3050B_S									
Blank (B7A0232-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0232-BS1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	48.4276	1.0	50.0000		96.9	80 - 120			
Lead	48.5893	1.0	50.0000		97.2	80 - 120			
Duplicate (B7A0232-DUP1)		**Source: 1604923-18**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	1.18059	1.0		1.05192	NR		11.5	20	
Lead	70.7304	1.0		33.0863	NR		72.5	20	R
Matrix Spike (B7A0232-MS1)		**Source: 1604923-18**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	91.6988	1.0	125.000	1.05192	72.5	59 - 103			
Lead	133.597	1.0	125.000	33.0863	80.4	34 - 129			
Matrix Spike Dup (B7A0232-MSD1)		**Source: 1604923-18**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	95.3188	1.0	125.000	1.05192	75.4	59 - 103	3.87	20	
Lead	123.921	1.0	125.000	33.0863	72.7	34 - 129	7.51	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0069 - EPA 3050B_S									
Blank (B7A0069-BLK1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				
LCS (B7A0069-BS1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Antimony	48.0351	2.0	50.0000		96.1	80 - 120			
Arsenic	47.6822	1.0	50.0000		95.4	80 - 120			
Barium	49.7360	1.0	50.0000		99.5	80 - 120			
Beryllium	47.8372	1.0	50.0000		95.7	80 - 120			
Cadmium	47.5910	1.0	50.0000		95.2	80 - 120			
Chromium	50.4138	1.0	50.0000		101	80 - 120			
Cobalt	50.4520	1.0	50.0000		101	80 - 120			
Copper	50.0855	2.0	50.0000		100	80 - 120			
Lead	48.1772	1.0	50.0000		96.4	80 - 120			
Molybdenum	49.7387	1.0	50.0000		99.5	80 - 120			
Nickel	48.4395	1.0	50.0000		96.9	80 - 120			
Selenium	46.2836	1.0	50.0000		92.6	80 - 120			
Silver	48.4172	1.0	50.0000		96.8	80 - 120			
Thallium	47.9807	1.0	50.0000		96.0	80 - 120			
Vanadium	51.9218	1.0	50.0000		104	80 - 120			
Zinc	47.4841	1.0	50.0000		95.0	80 - 120			
Matrix Spike (B7A0069-MS1)		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Antimony	79.4180	2.0	125.000	ND	63.5	34 - 103			
Arsenic	98.0034	1.0	125.000	2.67160	76.3	59 - 103			
Barium	179.963	1.0	125.000	90.4090	71.6	30 - 134			
Beryllium	92.2591	1.0	125.000	0.254842	73.6	62 - 105			
Cadmium	85.6254	1.0	125.000	ND	68.5	53 - 102			
Chromium	106.317	1.0	125.000	12.2786	75.2	51 - 111			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0069 - EPA 3050B_S (continued)									
Matrix Spike (B7A0069-MS1) - Continued		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Cobalt	98.3584	1.0	125.000	6.19966	73.7	55 - 105			
Copper	116.318	2.0	125.000	14.6222	81.4	53 - 126			
Lead	107.672	1.0	125.000	20.7595	69.5	34 - 129			
Molybdenum	89.0398	1.0	125.000	ND	71.2	57 - 105			
Nickel	97.5936	1.0	125.000	10.0751	70.0	49 - 109			
Selenium	91.1659	1.0	125.000	ND	72.9	57 - 99			
Silver	96.0096	1.0	125.000	ND	76.8	64 - 105			
Thallium	87.7044	1.0	125.000	ND	70.2	46 - 105			
Vanadium	118.714	1.0	125.000	20.6171	78.5	60 - 109			
Zinc	147.841	1.0	250.000	57.5544	36.1	29 - 122			
Matrix Spike Dup (B7A0069-MSD1)		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Antimony	78.6876	2.0	125.000	ND	63.0	34 - 103	0.924	20	
Arsenic	93.6996	1.0	125.000	2.67160	72.8	59 - 103	4.49	20	
Barium	222.307	1.0	125.000	90.4090	106	30 - 134	21.1	20	R
Beryllium	90.6712	1.0	125.000	0.254842	72.3	62 - 105	1.74	20	
Cadmium	82.3629	1.0	125.000	ND	65.9	53 - 102	3.88	20	
Chromium	103.051	1.0	125.000	12.2786	72.6	51 - 111	3.12	20	
Cobalt	91.2428	1.0	125.000	6.19966	68.0	55 - 105	7.51	20	
Copper	110.406	2.0	125.000	14.6222	76.6	53 - 126	5.21	20	
Lead	115.176	1.0	125.000	20.7595	75.5	34 - 129	6.73	20	
Molybdenum	82.7664	1.0	125.000	ND	66.2	57 - 105	7.30	20	
Nickel	94.7125	1.0	125.000	10.0751	67.7	49 - 109	3.00	20	
Selenium	88.5007	1.0	125.000	ND	70.8	57 - 99	2.97	20	
Silver	89.9450	1.0	125.000	ND	72.0	64 - 105	6.52	20	
Thallium	86.2145	1.0	125.000	ND	69.0	46 - 105	1.71	20	
Vanadium	114.692	1.0	125.000	20.6171	75.3	60 - 109	3.45	20	
Zinc	156.058	1.0	250.000	57.5544	39.4	29 - 122	5.41	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0064 - EPA 7471_S									
Blank (B7A0064-BLK1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	ND	0.10			NR				
LCS (B7A0064-BS1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	0.762695	0.10	0.833333		91.5	80 - 120			
Matrix Spike (B7A0064-MS1)		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	0.848440	0.10	0.833333	0.027602	98.5	70 - 130			
Matrix Spike Dup (B7A0064-MSD1)		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	0.872380	0.10	0.833333	0.027602	101	70 - 130	2.78	20	
Post Spike (B7A0064-PS1)		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	0.006269		5.00000E-3	0.000331	119	85 - 115			M1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0022 - GCVOA_S									
Blank (B7A0022-BLK1)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	*0.1864*		*0.200000*		*93.2*	*36 - 125*			
LCS (B7A0022-BS1)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Gasoline Range Organics	4.75300	1.0	5.00000		95.1	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.1896*		*0.200000*		*94.8*	*36 - 125*			
Duplicate (B7A0022-DUP1)		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/3/2017					
Gasoline Range Organics	ND	1.0		ND	NR			20	
Surrogate: 4-Bromofluorobenzene	*0.1767*		*0.200000*		*88.3*	*36 - 125*			
Matrix Spike (B7A0022-MS1)		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/3/2017					
Gasoline Range Organics	3.48800	1.0	5.00000	ND	69.8	32 - 161			
Surrogate: 4-Bromofluorobenzene	*0.1728*		*0.200000*		*86.4*	*36 - 125*			
Matrix Spike Dup (B7A0022-MSD1)		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/3/2017					
Gasoline Range Organics	3.64800	1.0	5.00000	ND	73.0	32 - 161	4.48	20	
Surrogate: 4-Bromofluorobenzene	*0.1861*		*0.200000*		*93.0*	*36 - 125*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0043 - GCSEMI_DRO_LL_S									
Blank (B7A0043-BLK1)					Prepared: 1/3/2017 Analyzed: 1/4/2017				
DRO	ND	1.0			NR				
ORO	ND	1.0			NR				
Surrogate: p-Terphenyl	*2.282*		*2.66667*		*85.6*	*18 - 130*			
LCS (B7A0043-BS1)					Prepared: 1/3/2017 Analyzed: 1/4/2017				
DRO	27.6447	1.0	33.3333		82.9	34 - 120			
Surrogate: p-Terphenyl	*2.348*		*2.66667*		*88.0*	*18 - 130*			
Duplicate (B7A0043-DUP1)		**Source: 1604921-87**			Prepared: 1/3/2017 Analyzed: 1/4/2017				
DRO	110.843	10		94.2467	NR		16.2	20	
Surrogate: p-Terphenyl	*0.000*		*2.66667*		*NR*	*18 - 130*			S4
Matrix Spike (B7A0043-MS1)		**Source: 1604921-87**			Prepared: 1/3/2017 Analyzed: 1/4/2017				
DRO	148.800	10	33.3333	94.2467	164	12 - 132			M2
Surrogate: p-Terphenyl	*0.000*		*2.66667*		*NR*	*18 - 130*			S4
Matrix Spike Dup (B7A0043-MSD1)		**Source: 1604921-87**			Prepared: 1/3/2017 Analyzed: 1/4/2017				
DRO	87.6200	10	33.3333	94.2467	-19.9	12 - 132	51.8	20	M2, R2
Surrogate: p-Terphenyl	*0.000*		*2.66667*		*NR*	*18 - 130*			S4

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0037 - GCSEMI_PCB/PEST_W									
Blank (B7A0037-BLK1)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
4,4´-DDD	ND	0.05			NR				
4,4´-DDD [2C]	ND	0.05			NR				
4,4´-DDE	ND	0.05			NR				
4,4´-DDE [2C]	ND	0.05			NR				
4,4´-DDT	ND	0.05			NR				
4,4´-DDT [2C]	ND	0.05			NR				
Aldrin	ND	0.02			NR				
Aldrin [2C]	ND	0.02			NR				
alpha-BHC	ND	0.02			NR				
alpha-BHC [2C]	ND	0.02			NR				
alpha-Chlordane	ND	0.02			NR				
alpha-Chlordane [2C]	ND	0.02			NR				
beta-BHC	ND	0.02			NR				
beta-BHC [2C]	ND	0.02			NR				
Chlordane	ND	0.25			NR				
Chlordane [2C]	ND	0.25			NR				
delta-BHC	ND	0.02			NR				
delta-BHC [2C]	ND	0.02			NR				
Dieldrin	ND	0.05			NR				
Dieldrin [2C]	ND	0.05			NR				
Endosulfan I	ND	0.02			NR				
Endosulfan I [2C]	ND	0.02			NR				
Endosulfan II	ND	0.05			NR				
Endosulfan II [2C]	ND	0.05			NR				
Endosulfan sulfate	ND	0.05			NR				
Endosulfan Sulfate [2C]	ND	0.05			NR				
Endrin	ND	0.05			NR				
Endrin [2C]	ND	0.05			NR				
Endrin aldehyde	ND	0.05			NR				
Endrin aldehyde [2C]	ND	0.05			NR				
Endrin ketone	ND	0.05			NR				
Endrin ketone [2C]	ND	0.05			NR				
gamma-BHC	ND	0.02			NR				
gamma-BHC [2C]	ND	0.02			NR				
gamma-Chlordane	ND	0.02			NR				
gamma-Chlordane [2C]	ND	0.02			NR				
Heptachlor	ND	0.02			NR				
Heptachlor [2C]	ND	0.02			NR				
Heptachlor epoxide	ND	0.02			NR				
Heptachlor epoxide [2C]	ND	0.02			NR				
Methoxychlor	ND	0.25			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0037 - GCSEMI_PCB/PEST_W (continued)									
Blank (B7A0037-BLK1) - Continued				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Methoxychlor [2C]	ND	0.25			NR				
Toxaphene	ND	2.5			NR				
Toxaphene [2C]	ND	2.5			NR				
Surrogate: Decachlorobiphenyl	*0.2658*		*0.500000*		*53.2*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.2876*		*0.500000*		*57.5*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.2945*		*0.500000*		*58.9*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.2956*		*0.500000*		*59.1*	*14 - 122*			
LCS (B7A0037-BS1)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
4,4´-DDD	0.363180	0.05	0.500000		72.6	59 - 109			
4,4´-DDD [2C]	0.360310	0.05	0.500000		72.1	59 - 109			
4,4´-DDE	0.279925	0.05	0.500000		56.0	63 - 101			L2
4,4´-DDE [2C]	0.279715	0.05	0.500000		55.9	63 - 101			L2
4,4´-DDT	0.254690	0.05	0.500000		50.9	36 - 96			
4,4´-DDT [2C]	0.259245	0.05	0.500000		51.8	36 - 96			
Aldrin	0.287915	0.02	0.500000		57.6	64 - 96			L2
Aldrin [2C]	0.285170	0.02	0.500000		57.0	64 - 96			L2
alpha-BHC	0.347050	0.02	0.500000		69.4	63 - 92			
alpha-BHC [2C]	0.351840	0.02	0.500000		70.4	63 - 92			
alpha-Chlordane	0.313465	0.02	0.500000		62.7	63 - 101			L2
alpha-Chlordane [2C]	0.305240	0.02	0.500000		61.0	63 - 101			L2
beta-BHC	0.354215	0.02	0.500000		70.8	58 - 95			
beta-BHC [2C]	0.355230	0.02	0.500000		71.0	58 - 95			
delta-BHC	0.299150	0.02	0.500000		59.8	37 - 107			
delta-BHC [2C]	0.305860	0.02	0.500000		61.2	37 - 107			
Dieldrin	0.349840	0.05	0.500000		70.0	62 - 102			
Dieldrin [2C]	0.337915	0.05	0.500000		67.6	62 - 102			
Endosulfan I	0.336470	0.02	0.500000		67.3	61 - 97			
Endosulfan I [2C]	0.319660	0.02	0.500000		63.9	61 - 97			
Endosulfan II	0.352055	0.05	0.500000		70.4	61 - 103			
Endosulfan II [2C]	0.339880	0.05	0.500000		68.0	61 - 103			
Endosulfan sulfate	0.339570	0.05	0.500000		67.9	60 - 112			
Endosulfan Sulfate [2C]	0.339125	0.05	0.500000		67.8	60 - 112			
Endrin	0.366235	0.05	0.500000		73.2	62 - 103			
Endrin [2C]	0.354760	0.05	0.500000		71.0	62 - 103			
Endrin aldehyde	0.350885	0.05	0.500000		70.2	64 - 116			
Endrin aldehyde [2C]	0.322485	0.05	0.500000		64.5	64 - 116			
Endrin ketone	0.354465	0.05	0.500000		70.9	56 - 113			
Endrin ketone [2C]	0.373545	0.05	0.500000		74.7	56 - 113			
gamma-BHC	0.367685	0.02	0.500000		73.5	64 - 95			
gamma-BHC [2C]	0.365640	0.02	0.500000		73.1	64 - 95			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0037 - GCSEMI_PCB/PEST_W (continued)									
LCS (B7A0037-BS1) - Continued				Prepared: 1/3/2017 Analyzed: 1/3/2017					
gamma-Chlordane	0.303435	0.02	0.500000		60.7	64 - 99			L2
gamma-Chlordane [2C]	0.299285	0.02	0.500000		59.9	64 - 99			L2
Heptachlor	0.306535	0.02	0.500000		61.3	64 - 93			L2
Heptachlor [2C]	0.300800	0.02	0.500000		60.2	64 - 93			L2
Heptachlor epoxide	0.331790	0.02	0.500000		66.4	65 - 98			
Heptachlor epoxide [2C]	0.324435	0.02	0.500000		64.9	65 - 98			L2
Methoxychlor	0.288520	0.25	0.500000		57.7	0 - 141			
Methoxychlor [2C]	0.302515	0.25	0.500000		60.5	0 - 141			
Surrogate: Decachlorobiphenyl	*0.2465*		*0.500000*		*49.3*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.2668*		*0.500000*		*53.4*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.3115*		*0.500000*		*62.3*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3277*		*0.500000*		*65.5*	*14 - 122*			
LCS Dup (B7A0037-BSD1)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
4,4´-DDD	0.399375	0.05	0.500000		79.9	59 - 109	9.49	20	
4,4´-DDD [2C]	0.403410	0.05	0.500000		80.7	59 - 109	11.3	20	
4,4´-DDE	0.317680	0.05	0.500000		63.5	63 - 101	12.6	20	
4,4´-DDE [2C]	0.315940	0.05	0.500000		63.2	63 - 101	12.2	20	
4,4´-DDT	0.268815	0.05	0.500000		53.8	36 - 96	5.40	20	
4,4´-DDT [2C]	0.267385	0.05	0.500000		53.5	36 - 96	3.09	20	
Aldrin	0.321890	0.02	0.500000		64.4	64 - 96	11.1	20	
Aldrin [2C]	0.320935	0.02	0.500000		64.2	64 - 96	11.8	20	
alpha-BHC	0.363535	0.02	0.500000		72.7	63 - 92	4.64	20	
alpha-BHC [2C]	0.368980	0.02	0.500000		73.8	63 - 92	4.76	20	
alpha-Chlordane	0.341235	0.02	0.500000		68.2	63 - 101	8.48	20	
alpha-Chlordane [2C]	0.335460	0.02	0.500000		67.1	63 - 101	9.43	20	
beta-BHC	0.370150	0.02	0.500000		74.0	58 - 95	4.40	20	
beta-BHC [2C]	0.372655	0.02	0.500000		74.5	58 - 95	4.79	20	
delta-BHC	0.313370	0.02	0.500000		62.7	37 - 107	4.64	20	
delta-BHC [2C]	0.320555	0.02	0.500000		64.1	37 - 107	4.69	20	
Dieldrin	0.371515	0.05	0.500000		74.3	62 - 102	6.01	20	
Dieldrin [2C]	0.361385	0.05	0.500000		72.3	62 - 102	6.71	20	
Endosulfan I	0.355665	0.02	0.500000		71.1	61 - 97	5.55	20	
Endosulfan I [2C]	0.344145	0.02	0.500000		68.8	61 - 97	7.38	20	
Endosulfan II	0.365630	0.05	0.500000		73.1	61 - 103	3.78	20	
Endosulfan II [2C]	0.356080	0.05	0.500000		71.2	61 - 103	4.66	20	
Endosulfan sulfate	0.357610	0.05	0.500000		71.5	60 - 112	5.18	20	
Endosulfan Sulfate [2C]	0.353790	0.05	0.500000		70.8	60 - 112	4.23	20	
Endrin	0.379125	0.05	0.500000		75.8	62 - 103	3.46	20	
Endrin [2C]	0.375285	0.05	0.500000		75.1	62 - 103	5.62	20	
Endrin aldehyde	0.374390	0.05	0.500000		74.9	64 - 116	6.48	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0037 - GCSEMI_PCB/PEST_W (continued)									
LCS Dup (B7A0037-BSD1) - Continued				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Endrin aldehyde [2C]	0.355655	0.05	0.500000		71.1	64 - 116	9.78	20	
Endrin ketone	0.378335	0.05	0.500000		75.7	56 - 113	6.51	20	
Endrin ketone [2C]	0.382420	0.05	0.500000		76.5	56 - 113	2.35	20	
gamma-BHC	0.386310	0.02	0.500000		77.3	64 - 95	4.94	20	
gamma-BHC [2C]	0.384415	0.02	0.500000		76.9	64 - 95	5.01	20	
gamma-Chlordane	0.331655	0.02	0.500000		66.3	64 - 99	8.89	20	
gamma-Chlordane [2C]	0.330240	0.02	0.500000		66.0	64 - 99	9.83	20	
Heptachlor	0.330190	0.02	0.500000		66.0	64 - 93	7.43	20	
Heptachlor [2C]	0.325510	0.02	0.500000		65.1	64 - 93	7.89	20	
Heptachlor epoxide	0.352610	0.02	0.500000		70.5	65 - 98	6.08	20	
Heptachlor epoxide [2C]	0.345600	0.02	0.500000		69.1	65 - 98	6.32	20	
Methoxychlor	0.292580	0.25	0.500000		58.5	0 - 141	1.40	20	
Methoxychlor [2C]	0.304260	0.25	0.500000		60.9	0 - 141	0.575	20	
Surrogate: Decachlorobiphenyl	*0.2805*		*0.500000*		*56.1*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.3145*		*0.500000*		*62.9*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.3161*		*0.500000*		*63.2*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3376*		*0.500000*		*67.5*	*14 - 122*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S									
Blank (B7A0038-BLK1)				Prepared: 1/3/2017 Analyzed: 1/4/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0038-BLK1) - Continued					Prepared: 1/3/2017 Analyzed: 1/4/2017				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*9.061*		*16.6667*		*54.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*8.048*		*16.6667*		*48.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*10.93*		*16.6667*		*65.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*9.958*		*16.6667*		*59.7*	*26 - 108*			
LCS (B7A0038-BS1)					Prepared: 1/3/2017 Analyzed: 1/4/2017				
4,4´-DDD	11.7478	2.0			NR	53 - 125			
4,4´-DDD [2C]	13.2322	2.0			NR	53 - 125			
4,4´-DDE	11.5050	2.0			NR	54 - 113			
4,4´-DDE [2C]	11.4128	2.0			NR	54 - 113			
4,4´-DDT	13.2008	2.0			NR	25 - 127			
4,4´-DDT [2C]	14.6020	2.0			NR	25 - 127			
Aldrin	11.1037	1.0			NR	59 - 107			
Aldrin [2C]	11.7578	1.0			NR	59 - 107			
alpha-BHC	11.2790	1.0			NR	59 - 104			
alpha-BHC [2C]	11.8890	1.0			NR	59 - 104			
alpha-Chlordane	11.2047	1.0			NR	54 - 110			
alpha-Chlordane [2C]	11.6850	1.0			NR	54 - 110			
beta-BHC	10.9218	1.0			NR	57 - 103			
beta-BHC [2C]	11.7082	1.0			NR	57 - 103			
delta-BHC	8.87717	1.0			NR	16 - 120			
delta-BHC [2C]	9.25617	1.0			NR	16 - 120			
Dieldrin	11.4847	2.0			NR	61 - 109			
Dieldrin [2C]	12.3578	2.0			NR	61 - 109			
Endosulfan I	10.9262	1.0			NR	60 - 106			
Endosulfan I [2C]	12.1573	1.0			NR	60 - 106			
Endosulfan II	10.9895	2.0			NR	59 - 108			
Endosulfan II [2C]	12.1000	2.0			NR	59 - 108			
Endosulfan sulfate	9.97033	2.0			NR	54 - 110			
Endosulfan Sulfate [2C]	11.2717	2.0			NR	54 - 110			
Endrin	12.0040	2.0			NR	63 - 112			
Endrin [2C]	13.1178	2.0			NR	63 - 112			
Endrin aldehyde	11.5845	2.0			NR	64 - 119			
Endrin aldehyde [2C]	11.7693	2.0			NR	64 - 119			
Endrin ketone	11.4052	2.0			NR	54 - 115			
Endrin ketone [2C]	12.3573	2.0			NR	54 - 115			
gamma-BHC	11.6237	1.0			NR	60 - 107			
gamma-BHC [2C]	12.4938	1.0			NR	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0038-BS1) - Continued				Prepared: 1/3/2017 Analyzed: 1/4/2017					
gamma-Chlordane	11.1087	1.0			NR	57 - 106			
gamma-Chlordane [2C]	11.5975	1.0			NR	57 - 106			
Heptachlor	11.8833	1.0			NR	54 - 114			
Heptachlor [2C]	14.4505	1.0			NR	54 - 114			
Heptachlor epoxide	10.9952	1.0			NR	61 - 106			
Heptachlor epoxide [2C]	12.0765	1.0			NR	61 - 106			
Methoxychlor	13.6702	5.0			NR	18 - 138			
Methoxychlor [2C]	16.0010	5.0			NR	18 - 138			
Surrogate: Decachlorobiphenyl	*9.497*		*16.6667*		*57.0*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*9.021*		*16.6667*		*54.1*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*11.68*		*16.6667*		*70.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*10.47*		*16.6667*		*62.8*	*26 - 108*			
Duplicate (B7A0038-DUP1)			**Source: 1604921-87**	Prepared: 1/3/2017 Analyzed: 1/4/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	5.53517	2.0		5.03400	NR		9.48	20	
4,4´-DDE [2C]	6.72267	2.0		5.88333	NR		13.3	20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	0.799833	1.0		0.598667	NR		28.8	20	R3, J
alpha-Chlordane [2C]	0.808500	1.0		0.583833	NR		32.3	20	R3, J
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0038-DUP1) - Continued		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/4/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	0.747333	1.0		0.558833	NR		28.9	20	R3, J
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*6.932*		*16.6667*		*41.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*9.261*		*16.6667*		*55.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*4.816*		*16.6667*		*28.9*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*4.939*		*16.6667*		*29.6*	*26 - 108*			
Matrix Spike (B7A0038-MS1)		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/4/2017					
4,4´-DDD	5.08717	2.0		ND	NR	25 - 141			
4,4´-DDD [2C]	5.81167	2.0		ND	NR	25 - 141			
4,4´-DDE	9.87467	2.0		5.03400	NR	22 - 141			
4,4´-DDE [2C]	10.5073	2.0		5.88333	NR	22 - 141			
4,4´-DDT	7.26500	2.0		ND	NR	15 - 136			
4,4´-DDT [2C]	9.15267	2.0		ND	NR	15 - 136			
Aldrin	6.24000	1.0		ND	NR	33 - 118			
Aldrin [2C]	6.71150	1.0		ND	NR	33 - 118			
alpha-BHC	6.52750	1.0		ND	NR	30 - 116			
alpha-BHC [2C]	5.68733	1.0		ND	NR	30 - 116			
alpha-Chlordane	6.06150	1.0		0.598667	NR	30 - 123			
alpha-Chlordane [2C]	6.14217	1.0		0.583833	NR	30 - 123			
beta-BHC	2.62317	1.0		ND	NR	24 - 121			
beta-BHC [2C]	2.93050	1.0		ND	NR	24 - 121			
delta-BHC	2.31117	1.0		ND	NR	7 - 120			
delta-BHC [2C]	1.90950	1.0		ND	NR	7 - 120			
Dieldrin	3.80700	2.0		ND	NR	25 - 136			
Dieldrin [2C]	4.10333	2.0		ND	NR	25 - 136			
Endosulfan I	4.13300	1.0		ND	NR	18 - 134			
Endosulfan I [2C]	4.34383	1.0		ND	NR	18 - 134			
Endosulfan II	1.90050	2.0		ND	NR	28 - 128			J
Endosulfan II [2C]	2.40367	2.0		ND	NR	28 - 128			

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0038-MS1) - Continued		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/4/2017					
Endosulfan sulfate	1.44550	2.0		ND	NR	5 - 145			J
Endosulfan Sulfate [2C]	1.94733	2.0		ND	NR	5 - 145			J
Endrin	4.06667	2.0		ND	NR	26 - 142			
Endrin [2C]	4.59200	2.0		ND	NR	26 - 142			
Endrin aldehyde	1.71950	2.0		ND	NR	8 - 146			J
Endrin aldehyde [2C]	1.94217	2.0		ND	NR	8 - 146			J
Endrin ketone	2.00800	2.0		ND	NR	16 - 139			
Endrin ketone [2C]	2.29233	2.0		ND	NR	16 - 139			
gamma-BHC	4.99133	1.0		ND	NR	30 - 122			
gamma-BHC [2C]	5.43000	1.0		ND	NR	30 - 122			
gamma-Chlordane	5.30500	1.0		0.558833	NR	18 - 132			
gamma-Chlordane [2C]	49.9903	1.0		ND	NR	18 - 132			
Heptachlor	8.56550	1.0		ND	NR	34 - 122			
Heptachlor [2C]	8.18367	1.0		ND	NR	34 - 122			
Heptachlor epoxide	4.33250	1.0		ND	NR	21 - 135			
Heptachlor epoxide [2C]	4.76717	1.0		ND	NR	21 - 135			
Methoxychlor	3.75367	5.0		ND	NR	8 - 162			J
Methoxychlor [2C]	6.22667	5.0		ND	NR	8 - 162			
Surrogate: Decachlorobiphenyl	*7.084*		*16.6667*		*42.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*8.252*		*16.6667*		*49.5*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*6.681*		*16.6667*		*40.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*6.313*		*16.6667*		*37.9*	*26 - 108*			
Matrix Spike Dup (B7A0038-MSD1)		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/4/2017					
4,4´-DDD	6.02483	2.0		ND	NR	25 - 141	16.9	20	
4,4´-DDD [2C]	7.37350	2.0		ND	NR	25 - 141	23.7	20	R3
4,4´-DDE	9.85150	2.0		5.03400	NR	22 - 141	0.235	20	
4,4´-DDE [2C]	11.0208	2.0		5.88333	NR	22 - 141	4.77	20	
4,4´-DDT	7.41183	2.0		ND	NR	15 - 136	2.00	20	
4,4´-DDT [2C]	9.48317	2.0		ND	NR	15 - 136	3.55	20	
Aldrin	6.11133	1.0		ND	NR	33 - 118	2.08	20	
Aldrin [2C]	6.60183	1.0		ND	NR	33 - 118	1.65	20	
alpha-BHC	7.49650	1.0		ND	NR	30 - 116	13.8	20	
alpha-BHC [2C]	6.51217	1.0		ND	NR	30 - 116	13.5	20	
alpha-Chlordane	6.49917	1.0		0.598667	NR	30 - 123	6.97	20	
alpha-Chlordane [2C]	6.86150	1.0		0.583833	NR	30 - 123	11.1	20	
beta-BHC	3.39117	1.0		ND	NR	24 - 121	25.5	20	R3
beta-BHC [2C]	3.84000	1.0		ND	NR	24 - 121	26.9	20	R3
delta-BHC	2.72750	1.0		ND	NR	7 - 120	16.5	20	
delta-BHC [2C]	2.69950	1.0		ND	NR	7 - 120	34.3	20	R3
Dieldrin	4.99000	2.0		ND	NR	25 - 136	26.9	20	R3

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0038-MSD1) - Continued		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/4/2017					
Dieldrin [2C]	5.63817	2.0		ND	NR	25 - 136	31.5	20	R3
Endosulfan I	5.13167	1.0		ND	NR	18 - 134	21.6	20	R3
Endosulfan I [2C]	5.70450	1.0		ND	NR	18 - 134	27.1	20	R3
Endosulfan II	2.88483	2.0		ND	NR	28 - 128	41.1	20	R3
Endosulfan II [2C]	3.99733	2.0		ND	NR	28 - 128	49.8	20	R3
Endosulfan sulfate	2.52617	2.0		ND	NR	5 - 145	54.4	20	R3
Endosulfan Sulfate [2C]	3.29433	2.0		ND	NR	5 - 145	51.4	20	R3
Endrin	5.31367	2.0		ND	NR	26 - 142	26.6	20	R3
Endrin [2C]	6.32900	2.0		ND	NR	26 - 142	31.8	20	R3
Endrin aldehyde	4.15450	2.0		ND	NR	8 - 146	82.9	20	R3
Endrin aldehyde [2C]	2.91783	2.0		ND	NR	8 - 146	40.2	20	R3
Endrin ketone	3.23033	2.0		ND	NR	16 - 139	46.7	20	R3
Endrin ketone [2C]	3.60433	2.0		ND	NR	16 - 139	44.5	20	R3
gamma-BHC	5.96000	1.0		ND	NR	30 - 122	17.7	20	
gamma-BHC [2C]	6.55500	1.0		ND	NR	30 - 122	18.8	20	
gamma-Chlordane	5.87783	1.0		0.558833	NR	18 - 132	10.2	20	
gamma-Chlordane [2C]	56.0647	1.0		ND	NR	18 - 132	11.5	20	
Heptachlor	8.17550	1.0		ND	NR	34 - 122	4.66	20	
Heptachlor [2C]	8.27033	1.0		ND	NR	34 - 122	1.05	20	
Heptachlor epoxide	5.32550	1.0		ND	NR	21 - 135	20.6	20	R3
Heptachlor epoxide [2C]	7.69250	1.0		ND	NR	21 - 135	47.0	20	R3
Methoxychlor	5.67917	5.0		ND	NR	8 - 162	40.8	20	R3
Methoxychlor [2C]	38.6080	5.0		ND	NR	8 - 162	144	20	R3
Surrogate: Decachlorobiphenyl	*8.407*		*16.6667*		*50.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*11.79*		*16.6667*		*70.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*6.631*		*16.6667*		*39.8*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*6.236*		*16.6667*		*37.4*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0176 - GCSEMI_PCB/PEST_S									
Blank (B7A0176-BLK1)				Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0176 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0176-BLK1) - Continued				Prepared: 1/6/2017 Analyzed: 1/7/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*16.02*		*16.6667*		*96.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*26.61*		*16.6667*		*160*	*27 - 123*			S1
Surrogate: Tetrachloro-m-xylene	*18.02*		*16.6667*		*108*	*26 - 108*			S1
Surrogate: Tetrachloro-m-xylene [2C]	*20.23*		*16.6667*		*121*	*26 - 108*			S1
LCS (B7A0176-BS1)				Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	16.7187	2.0	16.6667		100	53 - 125			
4,4´-DDD [2C]	17.5748	2.0	16.6667		105	53 - 125			
4,4´-DDE	16.5030	2.0	16.6667		99.0	54 - 113			
4,4´-DDE [2C]	17.8713	2.0	16.6667		107	54 - 113			
4,4´-DDT	16.3812	2.0	16.6667		98.3	25 - 127			
4,4´-DDT [2C]	17.6023	2.0	16.6667		106	25 - 127			
Aldrin	16.5537	1.0	16.6667		99.3	59 - 107			
Aldrin [2C]	17.0868	1.0	16.6667		103	59 - 107			
alpha-BHC	16.6072	1.0	16.6667		99.6	59 - 104			
alpha-BHC [2C]	17.7083	1.0	16.6667		106	59 - 104			L3
alpha-Chlordane	16.3915	1.0	16.6667		98.3	54 - 110			
alpha-Chlordane [2C]	17.9148	1.0	16.6667		107	54 - 110			
beta-BHC	16.2097	1.0	16.6667		97.3	57 - 103			
beta-BHC [2C]	17.3417	1.0	16.6667		104	57 - 103			L3
delta-BHC	13.5580	1.0	16.6667		81.3	16 - 120			
delta-BHC [2C]	13.7705	1.0	16.6667		82.6	16 - 120			
Dieldrin	16.6143	2.0	16.6667		99.7	61 - 109			
Dieldrin [2C]	18.1557	2.0	16.6667		109	61 - 109			
Endosulfan I	16.1970	1.0	16.6667		97.2	60 - 106			
Endosulfan I [2C]	17.7925	1.0	16.6667		107	60 - 106			L3
Endosulfan II	15.6072	2.0	16.6667		93.6	59 - 108			
Endosulfan II [2C]	16.5618	2.0	16.6667		99.4	59 - 108			
Endosulfan sulfate	14.7738	2.0	16.6667		88.6	54 - 110			
Endosulfan Sulfate [2C]	15.5685	2.0	16.6667		93.4	54 - 110			
Endrin	17.3777	2.0	16.6667		104	63 - 112			
Endrin [2C]	19.0072	2.0	16.6667		114	63 - 112			L3
Endrin aldehyde	16.0945	2.0	16.6667		96.6	64 - 119			
Endrin aldehyde [2C]	14.9813	2.0	16.6667		89.9	64 - 119			
Endrin ketone	15.9228	2.0	16.6667		95.5	54 - 115			
Endrin ketone [2C]	16.5527	2.0	16.6667		99.3	54 - 115			
gamma-BHC	17.2130	1.0	16.6667		103	60 - 107			
gamma-BHC [2C]	18.2128	1.0	16.6667		109	60 - 107			L3

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0176 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0176-BS1) - Continued				Prepared: 1/6/2017 Analyzed: 1/7/2017					
gamma-Chlordane	16.2133	1.0	16.6667		97.3	57 - 106			
gamma-Chlordane [2C]	16.9865	1.0	16.6667		102	57 - 106			
Heptachlor	17.2613	1.0	16.6667		104	54 - 114			
Heptachlor [2C]	19.2092	1.0	16.6667		115	54 - 114			L3
Heptachlor epoxide	16.4370	1.0	16.6667		98.6	61 - 106			
Heptachlor epoxide [2C]	17.3950	1.0	16.6667		104	61 - 106			
Methoxychlor	16.4192	5.0	16.6667		98.5	18 - 138			
Methoxychlor [2C]	16.6122	5.0	16.6667		99.7	18 - 138			
Surrogate: Decachlorobiphenyl	*15.07*		*16.6667*		*90.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.95*		*16.6667*		*102*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*18.15*		*16.6667*		*109*	*26 - 108*			S12
Surrogate: Tetrachloro-m-xylene [2C]	*17.24*		*16.6667*		*103*	*26 - 108*			
Duplicate (B7A0176-DUP1)		**Source: 1604921-52**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0176 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0176-DUP1) - Continued		**Source: 1604921-52**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*13.49*		*16.6667*		*80.9*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.20*		*16.6667*		*85.2*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.51*		*16.6667*		*93.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.55*		*16.6667*		*87.3*	*26 - 108*			
Matrix Spike (B7A0176-MS1)		**Source: 1604921-60**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	7.45683	2.0	16.6667	ND	44.7	25 - 141			
4,4´-DDD [2C]	7.05133	2.0	16.6667	ND	42.3	25 - 141			
4,4´-DDE	9.91350	2.0	16.6667	ND	59.5	22 - 141			
4,4´-DDE [2C]	10.0402	2.0	16.6667	ND	60.2	22 - 141			
4,4´-DDT	9.05933	2.0	16.6667	ND	54.4	15 - 136			
4,4´-DDT [2C]	8.85083	2.0	16.6667	ND	53.1	15 - 136			
Aldrin	10.0817	1.0	16.6667	ND	60.5	33 - 118			
Aldrin [2C]	10.0330	1.0	16.6667	ND	60.2	33 - 118			
alpha-BHC	7.89500	1.0	16.6667	ND	47.4	30 - 116			
alpha-BHC [2C]	7.93183	1.0	16.6667	ND	47.6	30 - 116			
alpha-Chlordane	8.36333	1.0	16.6667	ND	50.2	30 - 123			
alpha-Chlordane [2C]	8.47967	1.0	16.6667	ND	50.9	30 - 123			
beta-BHC	4.59817	1.0	16.6667	ND	27.6	24 - 121			
beta-BHC [2C]	4.61833	1.0	16.6667	ND	27.7	24 - 121			
delta-BHC	1.79967	1.0	16.6667	ND	10.8	7 - 120			
delta-BHC [2C]	1.50000	1.0	16.6667	ND	9.00	7 - 120			
Dieldrin	3.50683	2.0	16.6667	ND	21.0	25 - 136			M2
Dieldrin [2C]	3.33800	2.0	16.6667	ND	20.0	25 - 136			M2
Endosulfan I	4.53517	1.0	16.6667	ND	27.2	18 - 134			
Endosulfan I [2C]	4.57600	1.0	16.6667	ND	27.5	18 - 134			
Endosulfan II	0.905667	2.0	16.6667	ND	5.43	28 - 128			M2, J
Endosulfan II [2C]	0.861167	2.0	16.6667	ND	5.17	28 - 128			M2, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0176 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0176-MS1) - Continued		**Source: 1604921-60**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
Endosulfan sulfate	0.670167	2.0	16.6667	ND	4.02	5 - 145			M2, J
Endosulfan Sulfate [2C]	0.543500	2.0	16.6667	ND	3.26	5 - 145			M2, J
Endrin	3.82167	2.0	16.6667	ND	22.9	26 - 142			M2
Endrin [2C]	3.62917	2.0	16.6667	ND	21.8	26 - 142			M2
Endrin aldehyde	0.710167	2.0	16.6667	ND	4.26	8 - 146			M2, J
Endrin aldehyde [2C]	1.17233	2.0	16.6667	ND	7.03	8 - 146			M2, J
Endrin ketone	0.853833	2.0	16.6667	ND	5.12	16 - 139			M2, J
Endrin ketone [2C]	0.783000	2.0	16.6667	ND	4.70	16 - 139			M2, J
gamma-BHC	7.00183	1.0	16.6667	ND	42.0	30 - 122			
gamma-BHC [2C]	7.02517	1.0	16.6667	ND	42.2	30 - 122			
gamma-Chlordane	7.57350	1.0	16.6667	ND	45.4	18 - 132			
gamma-Chlordane [2C]	7.52233	1.0	16.6667	ND	45.1	18 - 132			
Heptachlor	10.2600	1.0	16.6667	ND	61.6	34 - 122			
Heptachlor [2C]	10.5777	1.0	16.6667	ND	63.5	34 - 122			
Heptachlor epoxide	5.11017	1.0	16.6667	ND	30.7	21 - 135			
Heptachlor epoxide [2C]	4.93883	1.0	16.6667	ND	29.6	21 - 135			
Methoxychlor	1.97383	5.0	16.6667	ND	11.8	8 - 162			J
Methoxychlor [2C]	1.52733	5.0	16.6667	ND	9.16	8 - 162			J
Surrogate: Decachlorobiphenyl	*9.765*		*16.6667*		*58.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*10.31*		*16.6667*		*61.9*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*10.84*		*16.6667*		*65.0*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*10.32*		*16.6667*		*61.9*	*26 - 108*			
Matrix Spike Dup (B7A0176-MSD1)		**Source: 1604921-60**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	11.0300	2.0	16.6667	ND	66.2	25 - 141	38.7	20	R3
4,4´-DDD [2C]	10.9278	2.0	16.6667	ND	65.6	25 - 141	43.1	20	R3
4,4´-DDE	10.9858	2.0	16.6667	ND	65.9	22 - 141	10.3	20	
4,4´-DDE [2C]	11.4525	2.0	16.6667	ND	68.7	22 - 141	13.1	20	
4,4´-DDT	11.5258	2.0	16.6667	ND	69.2	15 - 136	24.0	20	R3
4,4´-DDT [2C]	11.5335	2.0	16.6667	ND	69.2	15 - 136	26.3	20	R3
Aldrin	11.2088	1.0	16.6667	ND	67.3	33 - 118	10.6	20	
Aldrin [2C]	11.2038	1.0	16.6667	ND	67.2	33 - 118	11.0	20	
alpha-BHC	11.1888	1.0	16.6667	ND	67.1	30 - 116	34.5	20	R3
alpha-BHC [2C]	11.3643	1.0	16.6667	ND	68.2	30 - 116	35.6	20	R3
alpha-Chlordane	11.1103	1.0	16.6667	ND	66.7	30 - 123	28.2	20	R3
alpha-Chlordane [2C]	11.6127	1.0	16.6667	ND	69.7	30 - 123	31.2	20	R3
beta-BHC	10.5642	1.0	16.6667	ND	63.4	24 - 121	78.7	20	R3
beta-BHC [2C]	10.8983	1.0	16.6667	ND	65.4	24 - 121	80.9	20	R3
delta-BHC	7.74333	1.0	16.6667	ND	46.5	7 - 120	125	20	R3
delta-BHC [2C]	7.45033	1.0	16.6667	ND	44.7	7 - 120	133	20	R3
Dieldrin	11.9288	2.0	16.6667	ND	71.6	25 - 136	109	20	R3

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0176 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0176-MSD1) - Continued		**Source: 1604921-60**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
Dieldrin [2C]	12.4640	2.0	16.6667	ND	74.8	25 - 136	116	20	R3
Endosulfan I	11.9190	1.0	16.6667	ND	71.5	18 - 134	89.8	20	R3
Endosulfan I [2C]	12.5035	1.0	16.6667	ND	75.0	18 - 134	92.8	20	R3
Endosulfan II	8.80850	2.0	16.6667	ND	52.9	28 - 128	163	20	R3
Endosulfan II [2C]	8.65033	2.0	16.6667	ND	51.9	28 - 128	164	20	R3
Endosulfan sulfate	5.96117	2.0	16.6667	ND	35.8	5 - 145	160	20	R3
Endosulfan Sulfate [2C]	5.75567	2.0	16.6667	ND	34.5	5 - 145	165	20	R3
Endrin	12.7287	2.0	16.6667	ND	76.4	26 - 142	108	20	R3
Endrin [2C]	13.2065	2.0	16.6667	ND	79.2	26 - 142	114	20	R3
Endrin aldehyde	6.76400	2.0	16.6667	ND	40.6	8 - 146	162	20	R3
Endrin aldehyde [2C]	6.25517	2.0	16.6667	ND	37.5	8 - 146	137	20	R3
Endrin ketone	7.47983	2.0	16.6667	ND	44.9	16 - 139	159	20	R3
Endrin ketone [2C]	7.41017	2.0	16.6667	ND	44.5	16 - 139	162	20	R3
gamma-BHC	11.4000	1.0	16.6667	ND	68.4	30 - 122	47.8	20	R3
gamma-BHC [2C]	11.7010	1.0	16.6667	ND	70.2	30 - 122	49.9	20	R3
gamma-Chlordane	11.0473	1.0	16.6667	ND	66.3	18 - 132	37.3	20	R3
gamma-Chlordane [2C]	11.2267	1.0	16.6667	ND	67.4	18 - 132	39.5	20	R3
Heptachlor	11.7598	1.0	16.6667	ND	70.6	34 - 122	13.6	20	
Heptachlor [2C]	12.4005	1.0	16.6667	ND	74.4	34 - 122	15.9	20	
Heptachlor epoxide	11.9438	1.0	16.6667	ND	71.7	21 - 135	80.1	20	R3
Heptachlor epoxide [2C]	12.2313	1.0	16.6667	ND	73.4	21 - 135	84.9	20	R3
Methoxychlor	11.6192	5.0	16.6667	ND	69.7	8 - 162	142	20	R3
Methoxychlor [2C]	12.7857	5.0	16.6667	ND	76.7	8 - 162	157	20	R3
Surrogate: Decachlorobiphenyl	*10.08*		*16.6667*		*60.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*10.93*		*16.6667*		*65.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*12.20*		*16.6667*		*73.2*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.27*		*16.6667*		*67.6*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0194 - GCSEMI_PCB/PEST_S									
Blank (B7A0194-BLK1)				Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0194 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0194-BLK1) - Continued				Prepared: 1/6/2017 Analyzed: 1/7/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*13.66*		*16.6667*		*81.9*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.39*		*16.6667*		*86.4*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.91*		*16.6667*		*83.5*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.51*		*16.6667*		*87.1*	*26 - 108*			
LCS (B7A0194-BS1)				Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	16.7827	2.0	16.6667		101	53 - 125			
4,4´-DDD [2C]	16.9137	2.0	16.6667		101	53 - 125			
4,4´-DDE	15.5743	2.0	16.6667		93.4	54 - 113			
4,4´-DDE [2C]	15.3778	2.0	16.6667		92.3	54 - 113			
4,4´-DDT	15.8797	2.0	16.6667		95.3	25 - 127			
4,4´-DDT [2C]	14.6092	2.0	16.6667		87.7	25 - 127			
Aldrin	15.2137	1.0	16.6667		91.3	59 - 107			
Aldrin [2C]	15.3467	1.0	16.6667		92.1	59 - 107			
alpha-BHC	15.0105	1.0	16.6667		90.1	59 - 104			
alpha-BHC [2C]	15.2320	1.0	16.6667		91.4	59 - 104			
alpha-Chlordane	15.5382	1.0	16.6667		93.2	54 - 110			
alpha-Chlordane [2C]	15.2835	1.0	16.6667		91.7	54 - 110			
beta-BHC	14.8740	1.0	16.6667		89.2	57 - 103			
beta-BHC [2C]	15.0740	1.0	16.6667		90.4	57 - 103			
delta-BHC	12.0595	1.0	16.6667		72.4	16 - 120			
delta-BHC [2C]	12.3185	1.0	16.6667		73.9	16 - 120			
Dieldrin	16.2058	2.0	16.6667		97.2	61 - 109			
Dieldrin [2C]	15.8018	2.0	16.6667		94.8	61 - 109			
Endosulfan I	15.4158	1.0	16.6667		92.5	60 - 106			
Endosulfan I [2C]	14.9983	1.0	16.6667		90.0	60 - 106			
Endosulfan II	15.6882	2.0	16.6667		94.1	59 - 108			
Endosulfan II [2C]	15.2148	2.0	16.6667		91.3	59 - 108			
Endosulfan sulfate	15.2815	2.0	16.6667		91.7	54 - 110			
Endosulfan Sulfate [2C]	14.8545	2.0	16.6667		89.1	54 - 110			
Endrin	17.1410	2.0	16.6667		103	63 - 112			
Endrin [2C]	16.8543	2.0	16.6667		101	63 - 112			
Endrin aldehyde	16.1047	2.0	16.6667		96.6	64 - 119			
Endrin aldehyde [2C]	15.5223	2.0	16.6667		93.1	64 - 119			
Endrin ketone	16.4307	2.0	16.6667		98.6	54 - 115			
Endrin ketone [2C]	15.6625	2.0	16.6667		94.0	54 - 115			
gamma-BHC	15.6748	1.0	16.6667		94.0	60 - 107			
gamma-BHC [2C]	15.6797	1.0	16.6667		94.1	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0194 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0194-BS1) - Continued				Prepared: 1/6/2017 Analyzed: 1/7/2017					
gamma-Chlordane	15.1730	1.0	16.6667		91.0	57 - 106			
gamma-Chlordane [2C]	15.1772	1.0	16.6667		91.1	57 - 106			
Heptachlor	15.6687	1.0	16.6667		94.0	54 - 114			
Heptachlor [2C]	15.4480	1.0	16.6667		92.7	54 - 114			
Heptachlor epoxide	15.1318	1.0	16.6667		90.8	61 - 106			
Heptachlor epoxide [2C]	15.0322	1.0	16.6667		90.2	61 - 106			
Methoxychlor	15.7493	5.0	16.6667		94.5	18 - 138			
Methoxychlor [2C]	15.0332	5.0	16.6667		90.2	18 - 138			
Surrogate: Decachlorobiphenyl	*14.69*		*16.6667*		*88.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.65*		*16.6667*		*93.9*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.78*		*16.6667*		*88.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.33*		*16.6667*		*98.0*	*26 - 108*			
Duplicate (B7A0194-DUP1)		**Source: 1604921-72**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0194 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0194-DUP1) - Continued		**Source: 1604921-72**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*14.56*		*16.6667*		*87.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.56*		*16.6667*		*99.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.83*		*16.6667*		*83.0*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*17.21*		*16.6667*		*103*	*26 - 108*			
Matrix Spike (B7A0194-MS1)		**Source: 1604921-72**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	16.8125	2.0	16.6667	ND	101	25 - 141			
4,4´-DDD [2C]	16.9245	2.0	16.6667	ND	102	25 - 141			
4,4´-DDE	15.7302	2.0	16.6667	ND	94.4	22 - 141			
4,4´-DDE [2C]	15.6588	2.0	16.6667	ND	94.0	22 - 141			
4,4´-DDT	17.9372	2.0	16.6667	ND	108	15 - 136			
4,4´-DDT [2C]	16.8255	2.0	16.6667	ND	101	15 - 136			
Aldrin	15.3272	1.0	16.6667	ND	92.0	33 - 118			
Aldrin [2C]	15.4445	1.0	16.6667	ND	92.7	33 - 118			
alpha-BHC	15.1727	1.0	16.6667	ND	91.0	30 - 116			
alpha-BHC [2C]	15.5207	1.0	16.6667	ND	93.1	30 - 116			
alpha-Chlordane	15.8608	1.0	16.6667	ND	95.2	30 - 123			
alpha-Chlordane [2C]	15.5652	1.0	16.6667	ND	93.4	30 - 123			
beta-BHC	16.5705	1.0	16.6667	ND	99.4	24 - 121			
beta-BHC [2C]	16.5648	1.0	16.6667	ND	99.4	24 - 121			
delta-BHC	12.4927	1.0	16.6667	ND	75.0	7 - 120			
delta-BHC [2C]	12.9540	1.0	16.6667	ND	77.7	7 - 120			
Dieldrin	16.5083	2.0	16.6667	ND	99.0	25 - 136			
Dieldrin [2C]	16.1008	2.0	16.6667	ND	96.6	25 - 136			
Endosulfan I	15.6855	1.0	16.6667	ND	94.1	18 - 134			
Endosulfan I [2C]	15.2083	1.0	16.6667	ND	91.2	18 - 134			
Endosulfan II	15.9700	2.0	16.6667	ND	95.8	28 - 128			
Endosulfan II [2C]	15.5297	2.0	16.6667	ND	93.2	28 - 128			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0194 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0194-MS1) - Continued		**Source: 1604921-72**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
Endosulfan sulfate	15.5748	2.0	16.6667	ND	93.4	5 - 145			
Endosulfan Sulfate [2C]	15.4345	2.0	16.6667	ND	92.6	5 - 145			
Endrin	17.7493	2.0	16.6667	ND	106	26 - 142			
Endrin [2C]	17.5482	2.0	16.6667	ND	105	26 - 142			
Endrin aldehyde	16.0890	2.0	16.6667	ND	96.5	8 - 146			
Endrin aldehyde [2C]	15.2845	2.0	16.6667	ND	91.7	8 - 146			
Endrin ketone	16.7875	2.0	16.6667	ND	101	16 - 139			
Endrin ketone [2C]	16.3862	2.0	16.6667	ND	98.3	16 - 139			
gamma-BHC	16.4987	1.0	16.6667	ND	99.0	30 - 122			
gamma-BHC [2C]	16.5077	1.0	16.6667	ND	99.0	30 - 122			
gamma-Chlordane	15.5160	1.0	16.6667	ND	93.1	18 - 132			
gamma-Chlordane [2C]	15.4388	1.0	16.6667	ND	92.6	18 - 132			
Heptachlor	16.2620	1.0	16.6667	ND	97.6	34 - 122			
Heptachlor [2C]	15.8905	1.0	16.6667	ND	95.3	34 - 122			
Heptachlor epoxide	15.4490	1.0	16.6667	ND	92.7	21 - 135			
Heptachlor epoxide [2C]	15.2533	1.0	16.6667	ND	91.5	21 - 135			
Methoxychlor	17.7017	5.0	16.6667	ND	106	8 - 162			
Methoxychlor [2C]	16.8498	5.0	16.6667	ND	101	8 - 162			
Surrogate: Decachlorobiphenyl	*14.44*		*16.6667*		*86.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.46*		*16.6667*		*98.8*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.94*		*16.6667*		*83.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.58*		*16.6667*		*93.5*	*26 - 108*			
Matrix Spike Dup (B7A0194-MSD1)		**Source: 1604921-72**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	16.5492	2.0	16.6667	ND	99.3	25 - 141	1.58	20	
4,4´-DDD [2C]	14.2012	2.0	16.6667	ND	85.2	25 - 141	17.5	20	
4,4´-DDE	15.5183	2.0	16.6667	ND	93.1	22 - 141	1.36	20	
4,4´-DDE [2C]	13.1300	2.0	16.6667	ND	78.8	22 - 141	17.6	20	
4,4´-DDT	17.6788	2.0	16.6667	ND	106	15 - 136	1.45	20	
4,4´-DDT [2C]	14.1963	2.0	16.6667	ND	85.2	15 - 136	17.0	20	
Aldrin	15.1790	1.0	16.6667	ND	91.1	33 - 118	0.971	20	
Aldrin [2C]	13.0230	1.0	16.6667	ND	78.1	33 - 118	17.0	20	
alpha-BHC	15.1878	1.0	16.6667	ND	91.1	30 - 116	0.0999	20	
alpha-BHC [2C]	14.1960	1.0	16.6667	ND	85.2	30 - 116	8.92	20	
alpha-Chlordane	15.7070	1.0	16.6667	ND	94.2	30 - 123	0.975	20	
alpha-Chlordane [2C]	13.0357	1.0	16.6667	ND	78.2	30 - 123	17.7	20	
beta-BHC	15.2375	1.0	16.6667	ND	91.4	24 - 121	8.38	20	
beta-BHC [2C]	14.0842	1.0	16.6667	ND	84.5	24 - 121	16.2	20	
delta-BHC	12.3482	1.0	16.6667	ND	74.1	7 - 120	1.16	20	
delta-BHC [2C]	10.9702	1.0	16.6667	ND	65.8	7 - 120	16.6	20	
Dieldrin	16.3312	2.0	16.6667	ND	98.0	25 - 136	1.08	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0194 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0194-MSD1) - Continued		**Source: 1604921-72**		Prepared: 1/6/2017 Analyzed: 1/7/2017					
Dieldrin [2C]	13.4683	2.0	16.6667	ND	80.8	25 - 136	17.8	20	
Endosulfan I	15.5212	1.0	16.6667	ND	93.1	18 - 134	1.05	20	
Endosulfan I [2C]	12.7167	1.0	16.6667	ND	76.3	18 - 134	17.8	20	
Endosulfan II	15.5803	2.0	16.6667	ND	93.5	28 - 128	2.47	20	
Endosulfan II [2C]	12.9878	2.0	16.6667	ND	77.9	28 - 128	17.8	20	
Endosulfan sulfate	15.4458	2.0	16.6667	ND	92.7	5 - 145	0.832	20	
Endosulfan Sulfate [2C]	13.0310	2.0	16.6667	ND	78.2	5 - 145	16.9	20	
Endrin	17.5080	2.0	16.6667	ND	105	26 - 142	1.37	20	
Endrin [2C]	14.6058	2.0	16.6667	ND	87.6	26 - 142	18.3	20	
Endrin aldehyde	15.7050	2.0	16.6667	ND	94.2	8 - 146	2.42	20	
Endrin aldehyde [2C]	12.7452	2.0	16.6667	ND	76.5	8 - 146	18.1	20	
Endrin ketone	16.4958	2.0	16.6667	ND	99.0	16 - 139	1.75	20	
Endrin ketone [2C]	13.8530	2.0	16.6667	ND	83.1	16 - 139	16.8	20	
gamma-BHC	15.9550	1.0	16.6667	ND	95.7	30 - 122	3.35	20	
gamma-BHC [2C]	13.9582	1.0	16.6667	ND	83.7	30 - 122	16.7	20	
gamma-Chlordane	15.3728	1.0	16.6667	ND	92.2	18 - 132	0.927	20	
gamma-Chlordane [2C]	12.8910	1.0	16.6667	ND	77.3	18 - 132	18.0	20	
Heptachlor	16.0797	1.0	16.6667	ND	96.5	34 - 122	1.13	20	
Heptachlor [2C]	13.3845	1.0	16.6667	ND	80.3	34 - 122	17.1	20	
Heptachlor epoxide	15.2792	1.0	16.6667	ND	91.7	21 - 135	1.11	20	
Heptachlor epoxide [2C]	12.7628	1.0	16.6667	ND	76.6	21 - 135	17.8	20	
Methoxychlor	17.6520	5.0	16.6667	ND	106	8 - 162	0.281	20	
Methoxychlor [2C]	14.2422	5.0	16.6667	ND	85.5	8 - 162	16.8	20	
Surrogate: Decachlorobiphenyl	*14.32*		*16.6667*		*85.9*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.01*		*16.6667*		*84.1*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.90*		*16.6667*		*83.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.34*		*16.6667*		*98.1*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0197 - GCSEMI_PCB/PEST_S									
Blank (B7A0197-BLK1)				Prepared: 1/6/2017 Analyzed: 1/9/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0197 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0197-BLK1) - Continued					Prepared: 1/6/2017 Analyzed: 1/9/2017				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*14.41*		*16.6667*		*86.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*18.54*		*16.6667*		*111*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.40*		*16.6667*		*92.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*17.83*		*16.6667*		*107*	*26 - 108*			
LCS (B7A0197-BS1)					Prepared: 1/6/2017 Analyzed: 1/9/2017				
4,4´-DDD	15.6612	2.0	16.6667		94.0	53 - 125			
4,4´-DDD [2C]	16.4835	2.0	16.6667		98.9	53 - 125			
4,4´-DDE	15.1522	2.0	16.6667		90.9	54 - 113			
4,4´-DDE [2C]	16.5282	2.0	16.6667		99.2	54 - 113			
4,4´-DDT	14.7895	2.0	16.6667		88.7	25 - 127			
4,4´-DDT [2C]	15.5692	2.0	16.6667		93.4	25 - 127			
Aldrin	15.1063	1.0	16.6667		90.6	59 - 107			
Aldrin [2C]	15.7033	1.0	16.6667		94.2	59 - 107			
alpha-BHC	15.1953	1.0	16.6667		91.2	59 - 104			
alpha-BHC [2C]	16.4827	1.0	16.6667		98.9	59 - 104			
alpha-Chlordane	15.0073	1.0	16.6667		90.0	54 - 110			
alpha-Chlordane [2C]	16.5808	1.0	16.6667		99.5	54 - 110			
beta-BHC	15.3003	1.0	16.6667		91.8	57 - 103			
beta-BHC [2C]	16.3708	1.0	16.6667		98.2	57 - 103			
delta-BHC	12.4608	1.0	16.6667		74.8	16 - 120			
delta-BHC [2C]	13.0343	1.0	16.6667		78.2	16 - 120			
Dieldrin	15.2035	2.0	16.6667		91.2	61 - 109			
Dieldrin [2C]	16.7448	2.0	16.6667		100	61 - 109			
Endosulfan I	14.7528	1.0	16.6667		88.5	60 - 106			
Endosulfan I [2C]	16.4403	1.0	16.6667		98.6	60 - 106			
Endosulfan II	14.6852	2.0	16.6667		88.1	59 - 108			
Endosulfan II [2C]	15.4732	2.0	16.6667		92.8	59 - 108			
Endosulfan sulfate	14.1515	2.0	16.6667		84.9	54 - 110			
Endosulfan Sulfate [2C]	14.3873	2.0	16.6667		86.3	54 - 110			
Endrin	15.9388	2.0	16.6667		95.6	63 - 112			
Endrin [2C]	17.5895	2.0	16.6667		106	63 - 112			
Endrin aldehyde	15.4215	2.0	16.6667		92.5	64 - 119			
Endrin aldehyde [2C]	14.0963	2.0	16.6667		84.6	64 - 119			
Endrin ketone	15.1813	2.0	16.6667		91.1	54 - 115			
Endrin ketone [2C]	16.1268	2.0	16.6667		96.8	54 - 115			
gamma-BHC	15.7458	1.0	16.6667		94.5	60 - 107			
gamma-BHC [2C]	16.9902	1.0	16.6667		102	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0197 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0197-BS1) - Continued				Prepared: 1/6/2017 Analyzed: 1/9/2017					
gamma-Chlordane	14.8370	1.0	16.6667		89.0	57 - 106			
gamma-Chlordane [2C]	15.6577	1.0	16.6667		93.9	57 - 106			
Heptachlor	15.6480	1.0	16.6667		93.9	54 - 114			
Heptachlor [2C]	17.5198	1.0	16.6667		105	54 - 114			
Heptachlor epoxide	15.0728	1.0	16.6667		90.4	61 - 106			
Heptachlor epoxide [2C]	16.0698	1.0	16.6667		96.4	61 - 106			
Methoxychlor	15.2195	5.0	16.6667		91.3	18 - 138			
Methoxychlor [2C]	16.1373	5.0	16.6667		96.8	18 - 138			
Surrogate: Decachlorobiphenyl	*14.85*		*16.6667*		*89.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.76*		*16.6667*		*101*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*16.87*		*16.6667*		*101*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.29*		*16.6667*		*97.8*	*26 - 108*			
Matrix Spike (B7A0197-MS1)		**Source: 1604921-29**		Prepared: 1/6/2017 Analyzed: 1/9/2017					
4,4´-DDD	6.82667	2.0	16.6667	ND	41.0	25 - 141			
4,4´-DDD [2C]	6.48500	2.0	16.6667	ND	38.9	25 - 141			
4,4´-DDE	8.81383	2.0	16.6667	ND	52.9	22 - 141			
4,4´-DDE [2C]	9.01367	2.0	16.6667	ND	54.1	22 - 141			
4,4´-DDT	7.94750	2.0	16.6667	ND	47.7	15 - 136			
4,4´-DDT [2C]	7.90400	2.0	16.6667	ND	47.4	15 - 136			
Aldrin	9.21067	1.0	16.6667	ND	55.3	33 - 118			
Aldrin [2C]	8.92683	1.0	16.6667	ND	53.6	33 - 118			
alpha-BHC	7.44333	1.0	16.6667	ND	44.7	30 - 116			
alpha-BHC [2C]	7.64200	1.0	16.6667	ND	45.9	30 - 116			
alpha-Chlordane	7.54233	1.0	16.6667	ND	45.3	30 - 123			
alpha-Chlordane [2C]	7.83533	1.0	16.6667	ND	47.0	30 - 123			
beta-BHC	4.01133	1.0	16.6667	ND	24.1	24 - 121			
beta-BHC [2C]	4.05700	1.0	16.6667	ND	24.3	24 - 121			
delta-BHC	1.96950	1.0	16.6667	ND	11.8	7 - 120			
delta-BHC [2C]	1.75100	1.0	16.6667	ND	10.5	7 - 120			
Dieldrin	3.54800	2.0	16.6667	ND	21.3	25 - 136			M2
Dieldrin [2C]	3.46300	2.0	16.6667	ND	20.8	25 - 136			M2
Endosulfan I	4.39933	1.0	16.6667	ND	26.4	18 - 134			
Endosulfan I [2C]	4.43967	1.0	16.6667	ND	26.6	18 - 134			
Endosulfan II	1.26517	2.0	16.6667	ND	7.59	28 - 128			M2, J
Endosulfan II [2C]	1.20517	2.0	16.6667	ND	7.23	28 - 128			M2, J
Endosulfan sulfate	1.04033	2.0	16.6667	ND	6.24	5 - 145			J
Endosulfan Sulfate [2C]	0.927500	2.0	16.6667	ND	5.56	5 - 145			J
Endrin	3.85467	2.0	16.6667	ND	23.1	26 - 142			M2
Endrin [2C]	3.75467	2.0	16.6667	ND	22.5	26 - 142			M2
Endrin aldehyde	1.02800	2.0	16.6667	ND	6.17	8 - 146			M2, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0197 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0197-MS1) - Continued		**Source: 1604921-29**		Prepared: 1/6/2017 Analyzed: 1/9/2017					
Endrin aldehyde [2C]	1.35233	2.0	16.6667	ND	8.11	8 - 146			J
Endrin ketone	1.20167	2.0	16.6667	ND	7.21	16 - 139			M2, J
Endrin ketone [2C]	1.05117	2.0	16.6667	ND	6.31	16 - 139			M2, J
gamma-BHC	6.59417	1.0	16.6667	ND	39.6	30 - 122			
gamma-BHC [2C]	6.72517	1.0	16.6667	ND	40.4	30 - 122			
gamma-Chlordane	6.81383	1.0	16.6667	ND	40.9	18 - 132			
gamma-Chlordane [2C]	22.9985	1.0	16.6667	ND	138	18 - 132			M2
Heptachlor	9.58450	1.0	16.6667	ND	57.5	34 - 122			
Heptachlor [2C]	9.75483	1.0	16.6667	ND	58.5	34 - 122			
Heptachlor epoxide	4.95233	1.0	16.6667	ND	29.7	21 - 135			
Heptachlor epoxide [2C]	4.79917	1.0	16.6667	ND	28.8	21 - 135			
Methoxychlor	2.43400	5.0	16.6667	ND	14.6	8 - 162			J
Methoxychlor [2C]	2.18800	5.0	16.6667	ND	13.1	8 - 162			J
Surrogate: Decachlorobiphenyl	*9.851*		*16.6667*		*59.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*11.09*		*16.6667*		*66.5*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*10.48*		*16.6667*		*62.9*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*10.43*		*16.6667*		*62.6*	*26 - 108*			
Matrix Spike Dup (B7A0197-MSD1)		**Source: 1604921-29**		Prepared: 1/6/2017 Analyzed: 1/9/2017					
4,4´-DDD	7.93333	2.0	16.6667	ND	47.6	25 - 141	15.0	20	
4,4´-DDD [2C]	8.12950	2.0	16.6667	ND	48.8	25 - 141	22.5	20	R3
4,4´-DDE	9.34217	2.0	16.6667	ND	56.1	22 - 141	5.82	20	
4,4´-DDE [2C]	10.0433	2.0	16.6667	ND	60.3	22 - 141	10.8	20	
4,4´-DDT	8.66000	2.0	16.6667	ND	52.0	15 - 136	8.58	20	
4,4´-DDT [2C]	8.99983	2.0	16.6667	ND	54.0	15 - 136	13.0	20	
Aldrin	9.90100	1.0	16.6667	ND	59.4	33 - 118	7.22	20	
Aldrin [2C]	9.89283	1.0	16.6667	ND	59.4	33 - 118	10.3	20	
alpha-BHC	8.93767	1.0	16.6667	ND	53.6	30 - 116	18.2	20	
alpha-BHC [2C]	9.43083	1.0	16.6667	ND	56.6	30 - 116	21.0	20	R3
alpha-Chlordane	8.35633	1.0	16.6667	ND	50.1	30 - 123	10.2	20	
alpha-Chlordane [2C]	9.19650	1.0	16.6667	ND	55.2	30 - 123	16.0	20	
beta-BHC	4.95383	1.0	16.6667	ND	29.7	24 - 121	21.0	20	R3
beta-BHC [2C]	5.11883	1.0	16.6667	ND	30.7	24 - 121	23.1	20	R3
delta-BHC	2.49817	1.0	16.6667	ND	15.0	7 - 120	23.7	20	R3
delta-BHC [2C]	2.36567	1.0	16.6667	ND	14.2	7 - 120	29.9	20	R3
Dieldrin	4.27633	2.0	16.6667	ND	25.7	25 - 136	18.6	20	
Dieldrin [2C]	4.42150	2.0	16.6667	ND	26.5	25 - 136	24.3	20	R3
Endosulfan I	5.23983	1.0	16.6667	ND	31.4	18 - 134	17.4	20	
Endosulfan I [2C]	5.60617	1.0	16.6667	ND	33.6	18 - 134	23.2	20	R3
Endosulfan II	1.61033	2.0	16.6667	ND	9.66	28 - 128	24.0	20	M2, R3, J
Endosulfan II [2C]	1.72850	2.0	16.6667	ND	10.4	28 - 128	35.7	20	M2, R3, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0197 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0197-MSD1) - Continued		**Source: 1604921-29**		Prepared: 1/6/2017 Analyzed: 1/9/2017					
Endosulfan sulfate	1.35300	2.0	16.6667	ND	8.12	5 - 145	26.1	20	R3, J
Endosulfan Sulfate [2C]	1.27417	2.0	16.6667	ND	7.64	5 - 145	31.5	20	R3, J
Endrin	4.70950	2.0	16.6667	ND	28.3	26 - 142	20.0	20	
Endrin [2C]	4.91033	2.0	16.6667	ND	29.5	26 - 142	26.7	20	R3
Endrin aldehyde	1.38833	2.0	16.6667	ND	8.33	8 - 146	29.8	20	R3, J
Endrin aldehyde [2C]	1.57950	2.0	16.6667	ND	9.48	8 - 146	15.5	20	J
Endrin ketone	1.62550	2.0	16.6667	ND	9.75	16 - 139	30.0	20	M2, R3, J
Endrin ketone [2C]	1.79767	2.0	16.6667	ND	10.8	16 - 139	52.4	20	M2, R3, J
gamma-BHC	8.05283	1.0	16.6667	ND	48.3	30 - 122	19.9	20	
gamma-BHC [2C]	8.31300	1.0	16.6667	ND	49.9	30 - 122	21.1	20	R3
gamma-Chlordane	7.65833	1.0	16.6667	ND	45.9	18 - 132	11.7	20	
gamma-Chlordane [2C]	25.7522	1.0	16.6667	ND	155	18 - 132	11.3	20	M2
Heptachlor	10.5077	1.0	16.6667	ND	63.0	34 - 122	9.19	20	
Heptachlor [2C]	10.9865	1.0	16.6667	ND	65.9	34 - 122	11.9	20	
Heptachlor epoxide	5.86367	1.0	16.6667	ND	35.2	21 - 135	16.9	20	
Heptachlor epoxide [2C]	6.02833	1.0	16.6667	ND	36.2	21 - 135	22.7	20	M2
Methoxychlor	3.09100	5.0	16.6667	ND	18.5	8 - 162	23.8	20	M2, J
Methoxychlor [2C]	3.26767	5.0	16.6667	ND	19.6	8 - 162	39.6	20	M2, J
Surrogate: Decachlorobiphenyl	*11.20*		*16.6667*		*67.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*12.94*		*16.6667*		*77.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*11.80*		*16.6667*		*70.8*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.40*		*16.6667*		*68.4*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S									
Blank (B7A0235-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0235-BLK1) - Continued				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*14.37*		*16.6667*		*86.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.77*		*16.6667*		*101*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.96*		*16.6667*		*95.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*18.37*		*16.6667*		*110*	*26 - 108*			S1
LCS (B7A0235-BS1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	15.3787	2.0	16.6667		92.3	53 - 125			
4,4´-DDD [2C]	16.3440	2.0	16.6667		98.1	53 - 125			
4,4´-DDE	14.7990	2.0	16.6667		88.8	54 - 113			
4,4´-DDE [2C]	16.4295	2.0	16.6667		98.6	54 - 113			
4,4´-DDT	15.4752	2.0	16.6667		92.9	25 - 127			
4,4´-DDT [2C]	16.7495	2.0	16.6667		100	25 - 127			
Aldrin	14.7187	1.0	16.6667		88.3	59 - 107			
Aldrin [2C]	15.7300	1.0	16.6667		94.4	59 - 107			
alpha-BHC	14.7045	1.0	16.6667		88.2	59 - 104			
alpha-BHC [2C]	16.2372	1.0	16.6667		97.4	59 - 104			
alpha-Chlordane	14.7417	1.0	16.6667		88.4	54 - 110			
alpha-Chlordane [2C]	16.3408	1.0	16.6667		98.0	54 - 110			
beta-BHC	14.8127	1.0	16.6667		88.9	57 - 103			
beta-BHC [2C]	16.2688	1.0	16.6667		97.6	57 - 103			
delta-BHC	12.1710	1.0	16.6667		73.0	16 - 120			
delta-BHC [2C]	12.7650	1.0	16.6667		76.6	16 - 120			
Dieldrin	14.9372	2.0	16.6667		89.6	61 - 109			
Dieldrin [2C]	16.5335	2.0	16.6667		99.2	61 - 109			
Endosulfan I	14.5767	1.0	16.6667		87.5	60 - 106			
Endosulfan I [2C]	16.4243	1.0	16.6667		98.5	60 - 106			
Endosulfan II	14.4307	2.0	16.6667		86.6	59 - 108			
Endosulfan II [2C]	15.2682	2.0	16.6667		91.6	59 - 108			
Endosulfan sulfate	13.8185	2.0	16.6667		82.9	54 - 110			
Endosulfan Sulfate [2C]	13.9925	2.0	16.6667		84.0	54 - 110			
Endrin	15.7108	2.0	16.6667		94.3	63 - 112			
Endrin [2C]	17.5192	2.0	16.6667		105	63 - 112			
Endrin aldehyde	14.9340	2.0	16.6667		89.6	64 - 119			
Endrin aldehyde [2C]	13.7263	2.0	16.6667		82.4	64 - 119			
Endrin ketone	15.1345	2.0	16.6667		90.8	54 - 115			
Endrin ketone [2C]	15.3532	2.0	16.6667		92.1	54 - 115			
gamma-BHC	15.3095	1.0	16.6667		91.9	60 - 107			
gamma-BHC [2C]	16.7648	1.0	16.6667		101	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0235-BS1) - Continued				Prepared: 1/9/2017 Analyzed: 1/10/2017					
gamma-Chlordane	14.6223	1.0	16.6667		87.7	57 - 106			
gamma-Chlordane [2C]	15.5615	1.0	16.6667		93.4	57 - 106			
Heptachlor	15.4770	1.0	16.6667		92.9	54 - 114			
Heptachlor [2C]	17.7532	1.0	16.6667		107	54 - 114			
Heptachlor epoxide	14.7627	1.0	16.6667		88.6	61 - 106			
Heptachlor epoxide [2C]	15.9248	1.0	16.6667		95.5	61 - 106			
Methoxychlor	15.5083	5.0	16.6667		93.0	18 - 138			
Methoxychlor [2C]	17.3583	5.0	16.6667		104	18 - 138			
Surrogate: Decachlorobiphenyl	*13.35*		*16.6667*		*80.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.31*		*16.6667*		*91.9*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.90*		*16.6667*		*95.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.73*		*16.6667*		*94.4*	*26 - 108*			
Duplicate (B7A0235-DUP1)		**Source: 1604923-24**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0235-DUP1) - Continued		**Source: 1604923-24**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*13.94*		*16.6667*		*83.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.40*		*16.6667*		*86.4*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.51*		*16.6667*		*87.0*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.26*		*16.6667*		*85.6*	*26 - 108*			
Matrix Spike (B7A0235-MS1)		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	14.0528	2.0	16.6667	ND	84.3	25 - 141			
4,4´-DDD [2C]	13.9307	2.0	16.6667	ND	83.6	25 - 141			
4,4´-DDE	14.0202	2.0	16.6667	ND	84.1	22 - 141			
4,4´-DDE [2C]	14.2968	2.0	16.6667	ND	85.8	22 - 141			
4,4´-DDT	15.4505	2.0	16.6667	0.138167	91.9	15 - 136			
4,4´-DDT [2C]	15.0303	2.0	16.6667	ND	90.2	15 - 136			
Aldrin	13.4937	1.0	16.6667	ND	81.0	33 - 118			
Aldrin [2C]	13.2385	1.0	16.6667	ND	79.4	33 - 118			
alpha-BHC	12.9687	1.0	16.6667	ND	77.8	30 - 116			
alpha-BHC [2C]	12.9653	1.0	16.6667	ND	77.8	30 - 116			
alpha-Chlordane	13.8957	1.0	16.6667	ND	83.4	30 - 123			
alpha-Chlordane [2C]	14.1163	1.0	16.6667	ND	84.7	30 - 123			
beta-BHC	13.3943	1.0	16.6667	ND	80.4	24 - 121			
beta-BHC [2C]	14.9828	1.0	16.6667	ND	89.9	24 - 121			
delta-BHC	10.8780	1.0	16.6667	ND	65.3	7 - 120			
delta-BHC [2C]	10.6992	1.0	16.6667	ND	64.2	7 - 120			
Dieldrin	14.0132	2.0	16.6667	ND	84.1	25 - 136			
Dieldrin [2C]	14.3260	2.0	16.6667	ND	86.0	25 - 136			
Endosulfan I	13.5922	1.0	16.6667	ND	81.6	18 - 134			
Endosulfan I [2C]	13.7422	1.0	16.6667	ND	82.5	18 - 134			
Endosulfan II	13.5267	2.0	16.6667	ND	81.2	28 - 128			
Endosulfan II [2C]	12.9825	2.0	16.6667	ND	77.9	28 - 128			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0235-MS1) - Continued		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Endosulfan sulfate	12.2015	2.0	16.6667	ND	73.2	5 - 145			
Endosulfan Sulfate [2C]	11.3387	2.0	16.6667	ND	68.0	5 - 145			
Endrin	15.0877	2.0	16.6667	ND	90.5	26 - 142			
Endrin [2C]	15.2943	2.0	16.6667	ND	91.8	26 - 142			
Endrin aldehyde	12.0353	2.0	16.6667	ND	72.2	8 - 146			
Endrin aldehyde [2C]	10.3398	2.0	16.6667	0.972333	56.2	8 - 146			
Endrin ketone	13.7492	2.0	16.6667	ND	82.5	16 - 139			
Endrin ketone [2C]	12.5023	2.0	16.6667	ND	75.0	16 - 139			
gamma-BHC	13.5023	1.0	16.6667	ND	81.0	30 - 122			
gamma-BHC [2C]	14.0945	1.0	16.6667	ND	84.6	30 - 122			
gamma-Chlordane	13.8968	1.0	16.6667	ND	83.4	18 - 132			
gamma-Chlordane [2C]	13.5228	1.0	16.6667	ND	81.1	18 - 132			
Heptachlor	14.1422	1.0	16.6667	ND	84.9	34 - 122			
Heptachlor [2C]	15.0770	1.0	16.6667	ND	90.5	34 - 122			
Heptachlor epoxide	13.7803	1.0	16.6667	ND	82.7	21 - 135			
Heptachlor epoxide [2C]	13.5130	1.0	16.6667	ND	81.1	21 - 135			
Methoxychlor	14.4827	5.0	16.6667	ND	86.9	8 - 162			
Methoxychlor [2C]	15.4858	5.0	16.6667	ND	92.9	8 - 162			
Surrogate: Decachlorobiphenyl	*12.71*		*16.6667*		*76.3*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*13.43*		*16.6667*		*80.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.44*		*16.6667*		*80.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.35*		*16.6667*		*74.1*	*26 - 108*			
Matrix Spike Dup (B7A0235-MSD1)		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	14.8720	2.0	16.6667	ND	89.2	25 - 141	5.66	20	
4,4´-DDD [2C]	14.9143	2.0	16.6667	ND	89.5	25 - 141	6.82	20	
4,4´-DDE	14.8193	2.0	16.6667	ND	88.9	22 - 141	5.54	20	
4,4´-DDE [2C]	15.1058	2.0	16.6667	ND	90.6	22 - 141	5.50	20	
4,4´-DDT	16.4155	2.0	16.6667	0.138167	97.7	15 - 136	6.06	20	
4,4´-DDT [2C]	16.1050	2.0	16.6667	ND	96.6	15 - 136	6.90	20	
Aldrin	14.3140	1.0	16.6667	ND	85.9	33 - 118	5.90	20	
Aldrin [2C]	13.8848	1.0	16.6667	ND	83.3	33 - 118	4.77	20	
alpha-BHC	13.6773	1.0	16.6667	ND	82.1	30 - 116	5.32	20	
alpha-BHC [2C]	12.0700	1.0	16.6667	ND	72.4	30 - 116	7.15	20	
alpha-Chlordane	14.7240	1.0	16.6667	ND	88.3	30 - 123	5.79	20	
alpha-Chlordane [2C]	15.0107	1.0	16.6667	ND	90.1	30 - 123	6.14	20	
beta-BHC	14.3872	1.0	16.6667	ND	86.3	24 - 121	7.15	20	
beta-BHC [2C]	15.7337	1.0	16.6667	ND	94.4	24 - 121	4.89	20	
delta-BHC	11.7675	1.0	16.6667	ND	70.6	7 - 120	7.86	20	
delta-BHC [2C]	11.3860	1.0	16.6667	ND	68.3	7 - 120	6.22	20	
Dieldrin	14.9005	2.0	16.6667	ND	89.4	25 - 136	6.14	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0235-MSD1) - Continued		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Dieldrin [2C]	15.4423	2.0	16.6667	ND	92.7	25 - 136	7.50	20	
Endosulfan I	14.3933	1.0	16.6667	ND	86.4	18 - 134	5.73	20	
Endosulfan I [2C]	14.5747	1.0	16.6667	ND	87.4	18 - 134	5.88	20	
Endosulfan II	14.4977	2.0	16.6667	ND	87.0	28 - 128	6.93	20	
Endosulfan II [2C]	14.0500	2.0	16.6667	ND	84.3	28 - 128	7.90	20	
Endosulfan sulfate	13.3382	2.0	16.6667	ND	80.0	5 - 145	8.90	20	
Endosulfan Sulfate [2C]	12.5287	2.0	16.6667	ND	75.2	5 - 145	9.97	20	
Endrin	16.0502	2.0	16.6667	ND	96.3	26 - 142	6.18	20	
Endrin [2C]	16.4527	2.0	16.6667	ND	98.7	26 - 142	7.30	20	
Endrin aldehyde	13.0098	2.0	16.6667	ND	78.1	8 - 146	7.78	20	
Endrin aldehyde [2C]	11.2865	2.0	16.6667	0.972333	61.9	8 - 146	8.75	20	
Endrin ketone	14.9242	2.0	16.6667	ND	89.5	16 - 139	8.20	20	
Endrin ketone [2C]	14.4995	2.0	16.6667	ND	87.0	16 - 139	14.8	20	
gamma-BHC	14.4122	1.0	16.6667	ND	86.5	30 - 122	6.52	20	
gamma-BHC [2C]	14.8083	1.0	16.6667	ND	88.8	30 - 122	4.94	20	
gamma-Chlordane	14.5275	1.0	16.6667	ND	87.2	18 - 132	4.44	20	
gamma-Chlordane [2C]	14.2185	1.0	16.6667	ND	85.3	18 - 132	5.02	20	
Heptachlor	15.0220	1.0	16.6667	ND	90.1	34 - 122	6.03	20	
Heptachlor [2C]	15.6960	1.0	16.6667	ND	94.2	34 - 122	4.02	20	
Heptachlor epoxide	14.5797	1.0	16.6667	ND	87.5	21 - 135	5.64	20	
Heptachlor epoxide [2C]	14.2523	1.0	16.6667	ND	85.5	21 - 135	5.33	20	
Methoxychlor	15.6263	5.0	16.6667	ND	93.8	8 - 162	7.60	20	
Methoxychlor [2C]	16.7373	5.0	16.6667	ND	100	8 - 162	7.77	20	
Surrogate: Decachlorobiphenyl	*14.24*		*16.6667*		*85.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.05*		*16.6667*		*84.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.19*		*16.6667*		*85.2*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.97*		*16.6667*		*77.8*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0037 - GCSEMI_PCB/PEST_W									
Blank (B7A0037-BLK2)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Aroclor 1016	ND	0.50			NR				
Aroclor 1221	ND	1.0			NR				
Aroclor 1232	ND	0.50			NR				
Aroclor 1242	ND	0.50			NR				
Aroclor 1248	ND	0.50			NR				
Aroclor 1254	ND	0.50			NR				
Aroclor 1260	ND	0.50			NR				
Aroclor 1262	ND	0.50			NR				
Aroclor 1268	ND	0.50			NR				
Surrogate: Decachlorobiphenyl	*0.4055*		*0.500000*		*81.1*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.4350*		*0.500000*		*87.0*	*14 - 122*			
LCS (B7A0037-BS2)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Aroclor 1016	2.59988	0.50	5.00000		52.0	68 - 96			L2
Aroclor 1260	2.23614	0.50	5.00000		44.7	64 - 106			L2
Surrogate: Decachlorobiphenyl	*0.2967*		*0.500000*		*59.3*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.2939*		*0.500000*		*58.8*	*14 - 122*			
LCS Dup (B7A0037-BSD2)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Aroclor 1016	2.15640	0.50	5.00000		43.1	68 - 96	18.6	20	L2
Aroclor 1260	1.58421	0.50	5.00000		31.7	64 - 106	34.1	20	L2
Surrogate: Decachlorobiphenyl	*0.1683*		*0.500000*		*33.7*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.2670*		*0.500000*		*53.4*	*14 - 122*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0176 - GCSEMI_PCB/PEST_S									
Blank (B7A0176-BLK2)				Prepared: 1/6/2017 Analyzed: 1/6/2017					
Aroclor 1016	ND	16			NR				
Aroclor 1221	ND	16			NR				
Aroclor 1232	ND	16			NR				
Aroclor 1242	ND	16			NR				
Aroclor 1248	ND	16			NR				
Aroclor 1254	ND	16			NR				
Aroclor 1260	ND	16			NR				
Aroclor 1262	ND	16			NR				
Aroclor 1268	ND	16			NR				
Surrogate: Decachlorobiphenyl	*15.44*		*16.6667*		*92.7*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.08*		*16.6667*		*102*	*28 - 102*			
LCS (B7A0176-BS2)				Prepared: 1/6/2017 Analyzed: 1/6/2017					
Aroclor 1016	171.236	16	166.667		103	70 - 107			
Aroclor 1260	191.424	16	166.667		115	69 - 120			
Surrogate: Decachlorobiphenyl	*17.78*		*16.6667*		*107*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*18.51*		*16.6667*		*111*	*28 - 102*			
Duplicate (B7A0176-DUP2)		**Source: 1604921-52**		Prepared: 1/6/2017 Analyzed: 1/6/2017					
Aroclor 1016	ND	16		ND	NR			20	
Aroclor 1260	ND	16		ND	NR			20	
Surrogate: Decachlorobiphenyl	*17.19*		*16.6667*		*103*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.32*		*16.6667*		*104*	*28 - 102*			
Matrix Spike (B7A0176-MS2)		**Source: 1604921-52**		Prepared: 1/6/2017 Analyzed: 1/6/2017					
Aroclor 1016	173.786	16	166.667	ND	104	34 - 120			
Aroclor 1260	185.318	16	166.667	ND	111	39 - 128			
Surrogate: Decachlorobiphenyl	*17.11*		*16.6667*		*103*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.07*		*16.6667*		*102*	*28 - 102*			
Matrix Spike Dup (B7A0176-MSD2)		**Source: 1604921-52**		Prepared: 1/6/2017 Analyzed: 1/6/2017					
Aroclor 1016	173.807	16	166.667	ND	104	34 - 120	0.0122	20	
Aroclor 1260	186.764	16	166.667	ND	112	39 - 128	0.777	20	
Surrogate: Decachlorobiphenyl	*16.98*		*16.6667*		*102*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.03*		*16.6667*		*102*	*28 - 102*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0217 - GCSEMI_PCB/PEST_S									
Blank (B7A0217-BLK1)				Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	ND	16			NR				
Aroclor 1221	ND	16			NR				
Aroclor 1232	ND	16			NR				
Aroclor 1242	ND	16			NR				
Aroclor 1248	ND	16			NR				
Aroclor 1254	ND	16			NR				
Aroclor 1260	ND	16			NR				
Aroclor 1262	ND	16			NR				
Aroclor 1268	ND	16			NR				
Surrogate: Decachlorobiphenyl	*15.94*		*16.6667*		*95.7*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.85*		*16.6667*		*107*	*28 - 102*			S1
LCS (B7A0217-BS1)				Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	160.662	16	166.667		96.4	70 - 107			
Aroclor 1260	176.765	16	166.667		106	69 - 120			
Surrogate: Decachlorobiphenyl	*15.69*		*16.6667*		*94.2*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.13*		*16.6667*		*103*	*28 - 102*			S12
Duplicate (B7A0217-DUP1)		**Source: 1604921-32**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	ND	16		ND	NR			20	
Aroclor 1260	ND	16		ND	NR			20	
Surrogate: Decachlorobiphenyl	*15.69*		*16.6667*		*94.1*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*16.86*		*16.6667*		*101*	*28 - 102*			
Matrix Spike (B7A0217-MS1)		**Source: 1604923-11**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	177.864	16	166.667	ND	107	34 - 120			
Aroclor 1260	196.301	16	166.667	ND	118	39 - 128			
Surrogate: Decachlorobiphenyl	*16.90*		*16.6667*		*101*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*18.34*		*16.6667*		*110*	*28 - 102*			S12
Matrix Spike Dup (B7A0217-MSD1)		**Source: 1604923-11**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	170.224	16	166.667	ND	102	34 - 120	4.39	20	
Aroclor 1260	188.448	16	166.667	ND	113	39 - 128	4.08	20	
Surrogate: Decachlorobiphenyl	*16.27*		*16.6667*		*97.6*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.68*		*16.6667*		*106*	*28 - 102*			S12

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/16/2017

Notes and Definitions

S4	Surrogate was diluted out.
S12	Surrogate recovery outside in-house established limit but within method default criteria.
S1	Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample.
R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
R2	RPD value outside acceptance criteria due to possible matrix interference.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L3	Laboratory control sample outside in-house established limits but within method criteria.
L2	Laboratory control sample outside of acceptance limits. Reextraction and/or reanalysis is not possible due to limited amount of sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☑	☐
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting, Inc. (LCI)
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel: 949-250-1421 Fax: 949-250-1114

SEND REPORT TO:
Attn: Julie Hamman Email: jhamman@leightongroup.com
Company: LCI
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: acctpayable@leightongroup.com
Company: Leighton
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS
Project No.: 603378.006
Sampler: W. Scorcia
Quote No: —
PO #: —
Special Instructions/Comments: Standard TAT

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010/7000 Arsenic	6010/7000 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	QA/QC / REMARKS
1	1604921 -1	EB9-6-0.5	12-29-16	0755					X	X			X	X	X					5	1	5	1	—	
2	-2	EB9-6-1.5		0756					X				X	X											
3	-3	EB9-6-2.5		0757																					HOLD
4	-4	EB10-1-0.5		0800					X				X	X											
5	-5	EB10-1-1.5		0801					X				X	X											
6	-6	EB10-1-2.5		0802																					HOLD
7	-7	EB9-4-0.5		0912					X				X	X											
8	-8	EB9-4-1.5		0914					X				X	X											
9	-9	EB9-4-2.5		0920																					HOLD
10	-10	EB8-1-0.5		0939					X				X	X											

Encircle or Write Requested Analysis
Encircle Sample Matrix
Container
QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3
Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister
Container Material: 1=Glass; 2=Plastic; 3=Metal

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: Wallace Scorcia
Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scorcia	12/29/16	1620			
	12/29/16	1815	Paddy	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:
Address:
City: State: Zip:
Tel:
Fax:

SEND REPORT TO:
Attn: Email:
Company:
Address: See Page #1
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:
Company:
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name:
Project No.:
Sampler:
Quote No:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Cond/Tocc Arsenic; Cond/Tocc Lead

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

TAT

Container: # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister; Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	8260	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Cond/Tocc Arsenic	Cond/Tocc Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	#	Type	Material	Preservative	REMARKS
1	1604921 -11	EB8-1-1.5	12-29-16	0940					X	X			X	X	X					5	1	5	1	-	
2	-12	EB8-1-2.5		0941																					HOLD
3	-13	EB8-6-0.5		0942					X				X	X											
4	-14	EB8-6-1.5		0943					X				X	X											
5	-15	EB8-6-2.5		0944																					HOLD
6	-16	EB8-5-0.5		0945					X				X	X											
7	-17	EB8-5-1.5		0946					X				X	X											
8	-18	EB8-5-2.5		0947																					HOLD
9	-19	EB8-4-0.5		0953					X				X	X											
10	-20	EB8-4-1.5		0954					X				X	X											

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Somers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name) Wallace Somers	Date: 12/29/16	Time: 1620	Received by: (Signature and Printed Name)	Date: 12/29/16	Time: 1620
Relinquished by: (Signature and Printed Name)	Date: 12/29/16	Time: 1815	Received by: (Signature and Printed Name) FEDEX	Date: 12/29/16	Time: 1815
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State: Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page 11	Company:
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:
Project No.:
Sampler:
Quote No:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead/Free Arsenic	Lead/Free Lead	Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Type	Material	Preservative	QA/QC	REMARKS
1	1604921 -1	EBS-4-2.5	12-29-16	0955									X		X					5	1	5	1	—		HOLD
2	-22	EBS-3-0.5		1020					X	X			X	X												
3	-23	EBS-3-1.5		1021					X				X	X												
4	-24	EBS-3-2.5		1022																						HOLD
5	-25	EBS-2-0.5		1030					X				X	X												
6	-26	EBS-2-1.5		1031					X				X	X												
7	-27	EBS-2-2.5		1032																						HOLD
8	-28	EB6-1-0.5		1110					X				X	X												
9	-29	EB6-1-1.5		1115					X				X	X												
10	-30	EB6-1-2.5	↓	1117											↓					↓	↓	↓	↓	↓		HOLD

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7= Canister. Material: 1=Glass; 2=Plastic; 3=Metal. Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2, 6=NaOH; 7=NA2S2O3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sconiers — Submitter Print Name

Signature

CUSTODY

	Date	Time		Date	Time
Relinquished by: (Signature and Printed Name) Wallace Sconiers	12/29/16	1620	Received by: (Signature and Printed Name)	12/29/16	1620
Relinquished by: (Signature and Printed Name)	12/29/16	1815	Received by: (Signature and Printed Name) ADams	12/29/16	1815
Relinquished by: (Signature and Printed Name)			Received by: (Signature and Printed Name)		

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State: Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Pg 1	Company:
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	CAM/Total Arsenic	CAM/Total Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	#	Type	Material	Preservative	REMARKS
1	1604921 -31	FB9-3-C.5	12-29-16	1120					X				X	X	X					5	1	5	1	-	
2	-32	FB9-3-1.5		1121					X	X			X	X											
3	-33	FB9-3-2.5		1122																					HOLD
4	-34	EB9-2-0.5		1129					X				X	X											
5	-35	EB9-2-1.5		1130					X				X	X											
6	-36	EB9-2-2.5		1131																					HOLD
7	-37	FB15-3-0.5		1205					X				X	X											
8	-38	FB15-3-1.0		1206					X				X	X											
9	-39	EB15-4-0.5		1200					X				X	X											
10	-40	EB15-4-1.5	↓	1201					X				X	X	↓					↓	↓	↓	↓	↓	

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2 6=NaOH; 7=NAZSZO3

Container: # / Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister / Material: 1=Glass; 2=Plastic; 3=Metal

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sommers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Sommers	12/29/16	1610		12/29/16	1620
	12/29/16	1815	Fabian P	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:

Project No.: | PO #:

Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Gold/Total Arsenic	Gold/Total Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV — REMARKS
1	1604921 -41	EB15-4-2.5	12-29-16	1202											X					5	1	5	1	—	HOLD
2	-42	EB15-6-0.5		1203					X	X			X	X											
3	-43	EB15-6-1.5		1204					X				X	X											
4	-44	EB15-6-2.5		1205																					HOLD
5	-45	EB16-2-0.5		1210					X				X	X											
6	-46	EB16-2-1.5		1211					X				X	X											
7	-47	EB16-2-2.5		1212																					HOLD
8	-48	EB15-5-0.5		1319					X				X	X											
9	-49	EB15-5-1.5		1320					X				X	X											
10	-50	EB15-5-2.5		1321																					HOLD

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scovica — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scovica	12/29/16	1620		12/29/16	1620
	12/29/16	1815	FEDEX	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver: 20130715
Method of Transport	**Sample Conditions Upon Receipt**			
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page 2	Company: N/A
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead/Total Arsenic	Lead/TCLP Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	QA/QC / REMARKS
1	1604921 -51	EB6-2-0.5	12-29-16	1311					X				X	X	X					5	1	5	1		
2	-52	EB6-2-1.5		1312					X	X			X	X											
3	-53	EB6-2-2.5		1313																					HOLD
4	-54	EB15-2-0.5		1314					X				X	X											
5	-55	EB15-2-1.5		1315					X				X	X											
6	-56	EB15-2-2.5		1316																					HOLD
7	-57	EB16-3-0.5		1317					X				X	X											
8	-58	EB16-3-1.5		1318					X				X	X											
9	-59	EB16-3-2.5		1319																					HOLD
10	-60	EB22-2-0.5		1355					X				X	X											

CUSTODY TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamers — Submitter Print Name

Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seamers	12/29/16	1620	FEDEX	12/29/16	1620
	12/29/16	1815	FEDEX	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 7 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:	Tel:
	City: State: Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address:	Address:
City: State: See Page Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:

Project No.: | PO #:

Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Cad/Tred Arsenic	Cad/Tred Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Redjar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1604921 -01	EB22-2-1.5	12-29-16	1356					X	X			X	X	X					5	1	5	1	1	
2	-02	EB22-2-2.5		1357																				HOLD
3	-03	EB24-6-0.5		1358					X				X	X										
4	-04	EB24-6-1.5		1359					X				X	X										
5	-05	EB24-6-2.5		1400																				HOLD
6	-06	EB3-2-0.5		1402					X				X	X										
7	-07	EB3-2-1.5		1403					X				X	X										
8	-08	EB3-2-2.5		1404																				HOLD
9	-09	EB15-1-0.5		1447					X				X	X										
10	-10	EB15-1-1.5	↓	1448					X				X	X	↓					↓	↓	↓	↓	↓	

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scowers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scowers	12/29/16	1620		12/29/16	1620
	12/29/16	1815	Frances	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:	Tel:
	City: State: Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	cat/reactivesic	lab/reactivecd	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #:	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV	REMARKS
1	1604921 - 71	EB15-1-2.5	12-29-16	1449											X					5	1	5	1	-	HOLD
2	- 72	EB21-1-0.5		1507					X	X			X	X											
3	- 73	EB24-1-1.5		1508					X				X	X											
4	- 74	EB24-1-2.5		1509																					HOLD
5	- 75	EB24-2-0.5		1428					X				X	X											
6	- 76	EB24-2-1.5		1429					X				X	X											
7	- 77	EB24-2-2.5		1430																					HOLD
8	- 78	EB24-3-0.5		1431					X				X	X											
9	- 79	EB24-3-1.5		1432					X				X	X											
10	- 80	EB24-3-2.5	↓	1433											↓					↓	↓	↓	↓	↓	HOLD

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scowers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name) Wallace Scowers	Date: 12/29/16	Time: 1820	Received by: (Signature and Printed Name)	Date: 12/29/16	Time: 1820
Relinquished by: (Signature and Printed Name)	Date: 12/29/16	Time: 1815	Received by: (Signature and Printed Name)	Date: 12/29/16	Time: 1815
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 9 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130/15

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company: See Page #1
Address:
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Cam/Tecc Arsenic	Cam/Tecc Lead	8015 Cro	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Container: Type	Container: Material	Preservative	REMARKS
1	1604921 -81	EB25-3-0.5	12-29-16	1435					X				X	X		X					5	1	5	1	-	
2	-82	EB25-3-1.5		1436					X	X			X	X												
3	-83	EB25-3-2.5		1437																						HOLD
4	-84	EB23-3-0.5		1443					X				X	X												
5	-85	EB23-3-1.5		1445					X				X	X												
6	-86	EB23-3-2.5		1446																						HOLD
7	-87	DRUM1	12-29-16	1520		X	X		X	X	X				X	X					5	1	5	1	-	
8	-88	EQB-12-29-16	"	1545		X	X		X	X	X				X			X			5	6	3/3	1/2		
9																										
10																										

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

Container: Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister. Material: 1=Glass; 2=Plastic; 3=Metal

TERMS & CONDITIONS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamers — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name) Wallace Seamers	Date: 12/29/16	Time: 1620	Received by: (Signature and Printed Name)	Date: 12/29/16	Time: 1620
Relinquished by: (Signature and Printed Name)	Date: 12/29/16	Time: 1815	Received by: (Signature and Printed Name)	Date: 12/29/16	Time: 1815
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

Carmen Aguila

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, December 30, 2016 4:17 PM
To: Carmen Aguila
Cc: Becky Steever; Wallace Sconiers
Subject: RE: Burroughs MS-LAUSD, 603378.006

Importance: High

Carmen,

The following samples submitted on 12/28/2016 should be placed on hold:

- EB11-1-2.5
- EB11-2-2.5
- EB12-1-2.5
- EB12-2-2.5
- EB9-1-2.5
- EB9-5-2.5
- EB13-1-2.5
- EB13-2-2.5
- EB15-1-2.5
- EB15-2-2.5

The following samples submitted on 12/28/2016 should be analyzed for Title 22 metals, PAHs by 8270SIM and PCBs and not for what is shown on the COC:

- EB9-7-0.5
- EB9-7-1.5
- EB9-7-2.5

The following sample submitted on 12/28/2016 should be analyzed for lead in addition to what is shown on the COC:

- FB5-1-2.5
- FB5-2-2.5

The following sample submitted on 12/28/2016 should be analyzed for arsenic and OCPs in addition to what is shown on the COC:

- EB15-2-0.5

The following samples **submitted on 12/29/2016** were incorrectly identified as EB15 samples in the field and we would like the samples corrected to be logged and reported as EB5 samples as follows:

- EB15-1-0.5 should be EB5-1-0.5
- EB15-1-1.5 should be EB5-1-1.5
- EB15-1-2.5 should be EB5-1-2.5
- EB15-2-0.5 should be EB5-2-0.5
- EB15-2-1.5 should be EB5-2-1.5
- EB15-2-2.5 should be EB5-2-2.5
- EB15-3-0.5 should be EB5-3-0.5
- EB15-3-1.5 should be EB5-3-1.5
- EB15-3-2.5 should be EB5-3-2.5
- EB15-4-0.5 should be EB5-4-0.5
- EB15-4-1.5 should be EB5-4-1.5
- EB15-4-2.5 should be EB5-4-2.5

- EB15-5-0.5 should be EB5-5-0.5
- EB15-5-1.5 should be EB5-5-1.5
- EB15-5-2.5 should be EB5-5-2.5
- EB15-6-0.5 should be EB5-6-0.5
- EB15-6-1.5 should be EB5-6-1.5
- EB15-6-2.5 should be EB5-6-2.5

Thank you,

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON


Please consider the environment before printing this e-mail.

Carmen Aguila

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, December 30, 2016 4:37 PM
To: Carmen Aguila
Cc: Wallace Sconiers; Becky Steever
Subject: RE: Burroughs MS-LAUSD, 603378.006

Importance: High

Carmen,

The following sample submitted on 12/28/2016 should be analyzed for TPHcc, Title 22 metals, OCPs, PAHs by 8270SIM and PCBs and not for what is shown on the COC:

- EQB122816

The following sample submitted on 12/29/2016 should be analyzed for lead, arsenic, OCPs, and PCBs and not for what is shown on the COC:

- EQB-12-29-16

The following sample submitted on 12/29/2016 does not need to be analyzed for PCBs, but is otherwise correct on the COC:

- DRUM1

Thank you,

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

Please consider the environment before printing this e-mail.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Tuesday, January 03, 2017 11:42 AM
To: Rachelle Arada
Cc: Carmen Aguila; customer.relations@atlglobal.com; Becky Steever
Subject: RE: Burroughs MS-LAUSD, 603378.006

Importance: High

Rachelle,

I need to rush the below "DRUM1" sample submitted on 12/29/2016 and get the results tomorrow. Is that possible? We do not need PCBs for this sample, but it is otherwise correct on the COC.

Thank you,
Julie

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

Please consider the environment before printing this e-mail.

From: Rachelle Arada [mailto:Rachelle@atlglobal.com]
Sent: Tuesday, January 03, 2017 9:12 AM
To: Julie Harriman
Cc: Carmen Aguila; customer.relations@atlglobal.com
Subject: RE: Burroughs MS-LAUSD, 603378.006

Hi Julie,

Just following up if you have the carbon chain you need for this project. Thanks.

Rachelle

From: Julie Harriman [mailto:jharriman@leightongroup.com]
Sent: Wednesday, December 28, 2016 5:27 PM
To: Rachelle Arada
Subject: RE: Burroughs MS-LAUSD, 603378.006

Actually, let me check with the client.

Thanks,

January 05, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

RE: ATL Work Order Number : 1604921
Client Reference : Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on December, 29 2016 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	01/05/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRUM1	1604921-87	Soil	12/29/16 15:20	12/29/16 16:20

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Client Sample ID DRUM1

Lab ID: 1604921-87

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.32	1	B7A0069	01/04/2017	01/04/17 11:21	
Arsenic	**2.7**	1.0	0.70	1	B7A0069	01/04/2017	01/04/17 11:21	
Barium	**90**	1.0	0.10	1	B7A0069	01/04/2017	01/04/17 11:21	
Beryllium	**0.25**	1.0	0.04	1	B7A0069	01/04/2017	01/04/17 11:21	J
Cadmium	ND	1.0	0.09	1	B7A0069	01/04/2017	01/04/17 11:21	
Chromium	**12**	1.0	0.12	1	B7A0069	01/04/2017	01/04/17 11:21	
Cobalt	**6.2**	1.0	0.10	1	B7A0069	01/04/2017	01/04/17 11:21	
Copper	**15**	2.0	0.11	1	B7A0069	01/04/2017	01/04/17 11:21	
Lead	**21**	1.0	0.11	1	B7A0069	01/04/2017	01/04/17 11:21	
Molybdenum	ND	1.0	0.13	1	B7A0069	01/04/2017	01/04/17 11:21	
Nickel	**10**	1.0	0.10	1	B7A0069	01/04/2017	01/04/17 11:21	
Selenium	ND	1.0	0.88	1	B7A0069	01/04/2017	01/04/17 11:21	
Silver	ND	1.0	0.04	1	B7A0069	01/04/2017	01/04/17 11:21	
Thallium	ND	1.0	0.42	1	B7A0069	01/04/2017	01/04/17 11:21	
Vanadium	**21**	1.0	0.19	1	B7A0069	01/04/2017	01/04/17 11:21	
Zinc	**58**	1.0	0.18	1	B7A0069	01/04/2017	01/04/17 11:21	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.03**	0.10	0.02	1	B7A0064	01/04/2017	01/04/17 12:51	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B7A0022	01/03/2017	01/03/17 17:59	
Surrogate: 4-Bromofluorobenzene	*88.5 %*		*36 - 125*		B7A0022	01/03/2017	*01/03/17 17:59*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**94**	10	10	10	B7A0043	01/03/2017	01/04/17 11:00	
ORO	**370**	10	10	10	B7A0043	01/03/2017	01/04/17 11:00	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Client Sample ID DRUM1

Lab ID: 1604921-87

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	*0%*	*18 - 130*		B7A0043	01/03/2017	*01/04/17 11:00*	S4

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0038	01/03/2017	01/04/17 11:55	
4,4´-DDE	**5.0**	2.0	0.20	1	B7A0038	01/03/2017	01/04/17 11:55	
4,4´-DDT	ND	2.0	0.13	1	B7A0038	01/03/2017	01/04/17 11:55	
Aldrin	ND	1.0	0.27	1	B7A0038	01/03/2017	01/04/17 11:55	
alpha-BHC	ND	1.0	0.20	1	B7A0038	01/03/2017	01/04/17 11:55	
alpha-Chlordane	**0.60**	1.0	0.21	1	B7A0038	01/03/2017	01/04/17 11:55	J
beta-BHC	ND	1.0	0.23	1	B7A0038	01/03/2017	01/04/17 11:55	
Chlordane	**5.0**	8.5	0.90	1	B7A0038	01/03/2017	01/04/17 11:55	J
delta-BHC	ND	1.0	0.21	1	B7A0038	01/03/2017	01/04/17 11:55	
Dieldrin	ND	2.0	0.25	1	B7A0038	01/03/2017	01/04/17 11:55	
Endosulfan I	ND	1.0	0.21	1	B7A0038	01/03/2017	01/04/17 11:55	
Endosulfan II	ND	2.0	0.22	1	B7A0038	01/03/2017	01/04/17 11:55	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0038	01/03/2017	01/04/17 11:55	
Endrin	ND	2.0	0.23	1	B7A0038	01/03/2017	01/04/17 11:55	
Endrin aldehyde	ND	2.0	0.28	1	B7A0038	01/03/2017	01/04/17 11:55	
Endrin ketone	ND	2.0	0.20	1	B7A0038	01/03/2017	01/04/17 11:55	
gamma-BHC	ND	1.0	0.20	1	B7A0038	01/03/2017	01/04/17 11:55	
gamma-Chlordane	**0.56**	1.0	0.23	1	B7A0038	01/03/2017	01/04/17 11:55	J
Heptachlor	ND	1.0	0.19	1	B7A0038	01/03/2017	01/04/17 11:55	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0038	01/03/2017	01/04/17 11:55	
Methoxychlor	ND	5.0	0.18	1	B7A0038	01/03/2017	01/04/17 11:55	
Toxaphene	ND	50	8.2	1	B7A0038	01/03/2017	01/04/17 11:55	
Surrogate: Decachlorobiphenyl	*39.9 %*	*27 - 123*		B7A0038	01/03/2017	*01/04/17 11:55*	
Surrogate: Tetrachloro-m-xylene	*26.4 %*	*26 - 108*		B7A0038	01/03/2017	*01/04/17 11:55*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0069 - EPA 3050B_S									
Blank (B7A0069-BLK1)					Prepared: 1/4/2017 Analyzed: 1/4/2017				
Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				
LCS (B7A0069-BS1)					Prepared: 1/4/2017 Analyzed: 1/4/2017				
Antimony	48.0351	2.0	50.0000		96.1	80 - 120			
Arsenic	47.6822	1.0	50.0000		95.4	80 - 120			
Barium	49.7360	1.0	50.0000		99.5	80 - 120			
Beryllium	47.8372	1.0	50.0000		95.7	80 - 120			
Cadmium	47.5910	1.0	50.0000		95.2	80 - 120			
Chromium	50.4138	1.0	50.0000		101	80 - 120			
Cobalt	50.4520	1.0	50.0000		101	80 - 120			
Copper	50.0855	2.0	50.0000		100	80 - 120			
Lead	48.1772	1.0	50.0000		96.4	80 - 120			
Molybdenum	49.7387	1.0	50.0000		99.5	80 - 120			
Nickel	48.4395	1.0	50.0000		96.9	80 - 120			
Selenium	46.2836	1.0	50.0000		92.6	80 - 120			
Silver	48.4172	1.0	50.0000		96.8	80 - 120			
Thallium	47.9807	1.0	50.0000		96.0	80 - 120			
Vanadium	51.9218	1.0	50.0000		104	80 - 120			
Zinc	47.4841	1.0	50.0000		95.0	80 - 120			
Matrix Spike (B7A0069-MS1)		**Source: 1604921-87**			Prepared: 1/4/2017 Analyzed: 1/4/2017				
Antimony	79.4180	2.0	125.000	ND	63.5	34 - 103			
Arsenic	98.0034	1.0	125.000	2.67160	76.3	59 - 103			
Barium	179.963	1.0	125.000	90.4090	71.6	30 - 134			
Beryllium	92.2591	1.0	125.000	0.254842	73.6	62 - 105			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0069 - EPA 3050B_S (continued)									
Matrix Spike (B7A0069-MS1) - Continued		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Cadmium	85.6254	1.0	125.000	ND	68.5	53 - 102			
Chromium	106.317	1.0	125.000	12.2786	75.2	51 - 111			
Cobalt	98.3584	1.0	125.000	6.19966	73.7	55 - 105			
Copper	116.318	2.0	125.000	14.6222	81.4	53 - 126			
Lead	107.672	1.0	125.000	20.7595	69.5	34 - 129			
Molybdenum	89.0398	1.0	125.000	ND	71.2	57 - 105			
Nickel	97.5936	1.0	125.000	10.0751	70.0	49 - 109			
Selenium	91.1659	1.0	125.000	ND	72.9	57 - 99			
Silver	96.0096	1.0	125.000	ND	76.8	64 - 105			
Thallium	87.7044	1.0	125.000	ND	70.2	46 - 105			
Vanadium	118.714	1.0	125.000	20.6171	78.5	60 - 109			
Zinc	147.841	1.0	250.000	57.5544	36.1	29 - 122			
Matrix Spike Dup (B7A0069-MSD1)		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Antimony	78.6876	2.0	125.000	ND	63.0	34 - 103	0.924	20	
Arsenic	93.6996	1.0	125.000	2.67160	72.8	59 - 103	4.49	20	
Barium	222.307	1.0	125.000	90.4090	106	30 - 134	21.1	20	R
Beryllium	90.6712	1.0	125.000	0.254842	72.3	62 - 105	1.74	20	
Cadmium	82.3629	1.0	125.000	ND	65.9	53 - 102	3.88	20	
Chromium	103.051	1.0	125.000	12.2786	72.6	51 - 111	3.12	20	
Cobalt	91.2428	1.0	125.000	6.19966	68.0	55 - 105	7.51	20	
Copper	110.406	2.0	125.000	14.6222	76.6	53 - 126	5.21	20	
Lead	115.176	1.0	125.000	20.7595	75.5	34 - 129	6.73	20	
Molybdenum	82.7664	1.0	125.000	ND	66.2	57 - 105	7.30	20	
Nickel	94.7125	1.0	125.000	10.0751	67.7	49 - 109	3.00	20	
Selenium	88.5007	1.0	125.000	ND	70.8	57 - 99	2.97	20	
Silver	89.9450	1.0	125.000	ND	72.0	64 - 105	6.52	20	
Thallium	86.2145	1.0	125.000	ND	69.0	46 - 105	1.71	20	
Vanadium	114.692	1.0	125.000	20.6171	75.3	60 - 109	3.45	20	
Zinc	156.058	1.0	250.000	57.5544	39.4	29 - 122	5.41	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0064 - EPA 7471_S									
Blank (B7A0064-BLK1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	ND	0.10			NR				
LCS (B7A0064-BS1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	0.762695	0.10	0.833333		91.5	80 - 120			
Matrix Spike (B7A0064-MS1)		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	0.848440	0.10	0.833333	0.027602	98.5	70 - 130			
Matrix Spike Dup (B7A0064-MSD1)		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	0.872380	0.10	0.833333	0.027602	101	70 - 130	2.78	20	
Post Spike (B7A0064-PS1)		**Source: 1604921-87**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	0.006269		5.00000E-3	0.000331	119	85 - 115			M1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0022 - GCVOA_S									
Blank (B7A0022-BLK1)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	*0.1864*		*0.200000*		*93.2*	*36 - 125*			
LCS (B7A0022-BS1)				Prepared: 1/3/2017 Analyzed: 1/3/2017					
Gasoline Range Organics	4.75300	1.0	5.00000		95.1	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.1896*		*0.200000*		*94.8*	*36 - 125*			
Duplicate (B7A0022-DUP1)		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/3/2017					
Gasoline Range Organics	ND	1.0		ND	NR			20	
Surrogate: 4-Bromofluorobenzene	*0.1767*		*0.200000*		*88.3*	*36 - 125*			
Matrix Spike (B7A0022-MS1)		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/3/2017					
Gasoline Range Organics	3.48800	1.0	5.00000	ND	69.8	32 - 161			
Surrogate: 4-Bromofluorobenzene	*0.1728*		*0.200000*		*86.4*	*36 - 125*			
Matrix Spike Dup (B7A0022-MSD1)		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/3/2017					
Gasoline Range Organics	3.64800	1.0	5.00000	ND	73.0	32 - 161	4.48	20	
Surrogate: 4-Bromofluorobenzene	*0.1861*		*0.200000*		*93.0*	*36 - 125*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0043 - GCSEMI_DRO_LL_S									
Blank (B7A0043-BLK1)					Prepared: 1/3/2017 Analyzed: 1/4/2017				
DRO	ND	1.0			NR				
ORO	ND	1.0			NR				
Surrogate: p-Terphenyl	*2.282*		*2.66667*		*85.6*	*18 - 130*			
LCS (B7A0043-BS1)					Prepared: 1/3/2017 Analyzed: 1/4/2017				
DRO	27.6447	1.0	33.3333		82.9	34 - 120			
Surrogate: p-Terphenyl	*2.348*		*2.66667*		*88.0*	*18 - 130*			
Duplicate (B7A0043-DUP1)		**Source: 1604921-87**			Prepared: 1/3/2017 Analyzed: 1/4/2017				
DRO	110.843	10		94.2467	NR		16.2	20	
Surrogate: p-Terphenyl	*0.000*		*2.66667*		*NR*	*18 - 130*			S4
Matrix Spike (B7A0043-MS1)		**Source: 1604921-87**			Prepared: 1/3/2017 Analyzed: 1/4/2017				
DRO	148.800	10	33.3333	94.2467	164	12 - 132			M2
Surrogate: p-Terphenyl	*0.000*		*2.66667*		*NR*	*18 - 130*			S4
Matrix Spike Dup (B7A0043-MSD1)		**Source: 1604921-87**			Prepared: 1/3/2017 Analyzed: 1/4/2017				
DRO	87.6200	10	33.3333	94.2467	-19.9	12 - 132	51.8	20	M2, R2
Surrogate: p-Terphenyl	*0.000*		*2.66667*		*NR*	*18 - 130*			S4

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S									
Blank (B7A0038-BLK1)				Prepared: 1/3/2017 Analyzed: 1/4/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/05/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0038-BLK1) - Continued				Prepared: 1/3/2017 Analyzed: 1/4/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*9.061*		*16.6667*		*54.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*8.048*		*16.6667*		*48.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*10.93*		*16.6667*		*65.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*9.958*		*16.6667*		*59.7*	*26 - 108*			
LCS (B7A0038-BS1)				Prepared: 1/3/2017 Analyzed: 1/4/2017					
4,4´-DDD	11.7478	2.0			NR	53 - 125			
4,4´-DDD [2C]	13.2322	2.0			NR	53 - 125			
4,4´-DDE	11.5050	2.0			NR	54 - 113			
4,4´-DDE [2C]	11.4128	2.0			NR	54 - 113			
4,4´-DDT	13.2008	2.0			NR	25 - 127			
4,4´-DDT [2C]	14.6020	2.0			NR	25 - 127			
Aldrin	11.1037	1.0			NR	59 - 107			
Aldrin [2C]	11.7578	1.0			NR	59 - 107			
alpha-BHC	11.2790	1.0			NR	59 - 104			
alpha-BHC [2C]	11.8890	1.0			NR	59 - 104			
alpha-Chlordane	11.2047	1.0			NR	54 - 110			
alpha-Chlordane [2C]	11.6850	1.0			NR	54 - 110			
beta-BHC	10.9218	1.0			NR	57 - 103			
beta-BHC [2C]	11.7082	1.0			NR	57 - 103			
delta-BHC	8.87717	1.0			NR	16 - 120			
delta-BHC [2C]	9.25617	1.0			NR	16 - 120			
Dieldrin	11.4847	2.0			NR	61 - 109			
Dieldrin [2C]	12.3578	2.0			NR	61 - 109			
Endosulfan I	10.9262	1.0			NR	60 - 106			
Endosulfan I [2C]	12.1573	1.0			NR	60 - 106			
Endosulfan II	10.9895	2.0			NR	59 - 108			
Endosulfan II [2C]	12.1000	2.0			NR	59 - 108			
Endosulfan sulfate	9.97033	2.0			NR	54 - 110			
Endosulfan Sulfate [2C]	11.2717	2.0			NR	54 - 110			
Endrin	12.0040	2.0			NR	63 - 112			
Endrin [2C]	13.1178	2.0			NR	63 - 112			
Endrin aldehyde	11.5845	2.0			NR	64 - 119			
Endrin aldehyde [2C]	11.7693	2.0			NR	64 - 119			
Endrin ketone	11.4052	2.0			NR	54 - 115			
Endrin ketone [2C]	12.3573	2.0			NR	54 - 115			
gamma-BHC	11.6237	1.0			NR	60 - 107			
gamma-BHC [2C]	12.4938	1.0			NR	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0038-BS1) - Continued				Prepared: 1/3/2017 Analyzed: 1/4/2017					
gamma-Chlordane	11.1087	1.0			NR	57 - 106			
gamma-Chlordane [2C]	11.5975	1.0			NR	57 - 106			
Heptachlor	11.8833	1.0			NR	54 - 114			
Heptachlor [2C]	14.4505	1.0			NR	54 - 114			
Heptachlor epoxide	10.9952	1.0			NR	61 - 106			
Heptachlor epoxide [2C]	12.0765	1.0			NR	61 - 106			
Methoxychlor	13.6702	5.0			NR	18 - 138			
Methoxychlor [2C]	16.0010	5.0			NR	18 - 138			
Surrogate: Decachlorobiphenyl	*9.497*		*16.6667*		*57.0*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*9.021*		*16.6667*		*54.1*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*11.68*		*16.6667*		*70.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*10.47*		*16.6667*		*62.8*	*26 - 108*			
Duplicate (B7A0038-DUP1)			**Source: 1604921-87**	Prepared: 1/3/2017 Analyzed: 1/4/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	5.53517	2.0		5.03400	NR		9.48	20	
4,4´-DDE [2C]	6.72267	2.0		5.88333	NR		13.3	20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	0.799833	1.0		0.598667	NR		28.8	20	R3, J
alpha-Chlordane [2C]	0.808500	1.0		0.583833	NR		32.3	20	R3, J
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/05/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0038-DUP1) - Continued		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/4/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	0.747333	1.0		0.558833	NR		28.9	20	R3, J
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*6.932*		*16.6667*		*41.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*9.261*		*16.6667*		*55.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*4.816*		*16.6667*		*28.9*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*4.939*		*16.6667*		*29.6*	*26 - 108*			
Matrix Spike (B7A0038-MS1)		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/4/2017					
4,4´-DDD	5.08717	2.0		ND	NR	25 - 141			
4,4´-DDD [2C]	5.81167	2.0		ND	NR	25 - 141			
4,4´-DDE	9.87467	2.0		5.03400	NR	22 - 141			
4,4´-DDE [2C]	10.5073	2.0		5.88333	NR	22 - 141			
4,4´-DDT	7.26500	2.0		ND	NR	15 - 136			
4,4´-DDT [2C]	9.15267	2.0		ND	NR	15 - 136			
Aldrin	6.24000	1.0		ND	NR	33 - 118			
Aldrin [2C]	6.71150	1.0		ND	NR	33 - 118			
alpha-BHC	6.52750	1.0		ND	NR	30 - 116			
alpha-BHC [2C]	5.68733	1.0		ND	NR	30 - 116			
alpha-Chlordane	6.06150	1.0		0.598667	NR	30 - 123			
alpha-Chlordane [2C]	6.14217	1.0		0.583833	NR	30 - 123			
beta-BHC	2.62317	1.0		ND	NR	24 - 121			
beta-BHC [2C]	2.93050	1.0		ND	NR	24 - 121			
delta-BHC	2.31117	1.0		ND	NR	7 - 120			
delta-BHC [2C]	1.90950	1.0		ND	NR	7 - 120			
Dieldrin	3.80700	2.0		ND	NR	25 - 136			
Dieldrin [2C]	4.10333	2.0		ND	NR	25 - 136			
Endosulfan I	4.13300	1.0		ND	NR	18 - 134			
Endosulfan I [2C]	4.34383	1.0		ND	NR	18 - 134			
Endosulfan II	1.90050	2.0		ND	NR	28 - 128			J
Endosulfan II [2C]	2.40367	2.0		ND	NR	28 - 128			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0038-MS1) - Continued		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/4/2017					
Endosulfan sulfate	1.44550	2.0		ND	NR	5 - 145			J
Endosulfan Sulfate [2C]	1.94733	2.0		ND	NR	5 - 145			J
Endrin	4.06667	2.0		ND	NR	26 - 142			
Endrin [2C]	4.59200	2.0		ND	NR	26 - 142			
Endrin aldehyde	1.71950	2.0		ND	NR	8 - 146			J
Endrin aldehyde [2C]	1.94217	2.0		ND	NR	8 - 146			J
Endrin ketone	2.00800	2.0		ND	NR	16 - 139			
Endrin ketone [2C]	2.29233	2.0		ND	NR	16 - 139			
gamma-BHC	4.99133	1.0		ND	NR	30 - 122			
gamma-BHC [2C]	5.43000	1.0		ND	NR	30 - 122			
gamma-Chlordane	5.30500	1.0		0.558833	NR	18 - 132			
gamma-Chlordane [2C]	49.9903	1.0		ND	NR	18 - 132			
Heptachlor	8.56550	1.0		ND	NR	34 - 122			
Heptachlor [2C]	8.18367	1.0		ND	NR	34 - 122			
Heptachlor epoxide	4.33250	1.0		ND	NR	21 - 135			
Heptachlor epoxide [2C]	4.76717	1.0		ND	NR	21 - 135			
Methoxychlor	3.75367	5.0		ND	NR	8 - 162			J
Methoxychlor [2C]	6.22667	5.0		ND	NR	8 - 162			
Surrogate: Decachlorobiphenyl	*7.084*		*16.6667*		*42.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*8.252*		*16.6667*		*49.5*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*6.681*		*16.6667*		*40.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*6.313*		*16.6667*		*37.9*	*26 - 108*			
Matrix Spike Dup (B7A0038-MSD1)		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/4/2017					
4,4´-DDD	6.02483	2.0		ND	NR	25 - 141	16.9	20	
4,4´-DDD [2C]	7.37350	2.0		ND	NR	25 - 141	23.7	20	R3
4,4´-DDE	9.85150	2.0		5.03400	NR	22 - 141	0.235	20	
4,4´-DDE [2C]	11.0208	2.0		5.88333	NR	22 - 141	4.77	20	
4,4´-DDT	7.41183	2.0		ND	NR	15 - 136	2.00	20	
4,4´-DDT [2C]	9.48317	2.0		ND	NR	15 - 136	3.55	20	
Aldrin	6.11133	1.0		ND	NR	33 - 118	2.08	20	
Aldrin [2C]	6.60183	1.0		ND	NR	33 - 118	1.65	20	
alpha-BHC	7.49650	1.0		ND	NR	30 - 116	13.8	20	
alpha-BHC [2C]	6.51217	1.0		ND	NR	30 - 116	13.5	20	
alpha-Chlordane	6.49917	1.0		0.598667	NR	30 - 123	6.97	20	
alpha-Chlordane [2C]	6.86150	1.0		0.583833	NR	30 - 123	11.1	20	
beta-BHC	3.39117	1.0		ND	NR	24 - 121	25.5	20	R3
beta-BHC [2C]	3.84000	1.0		ND	NR	24 - 121	26.9	20	R3
delta-BHC	2.72750	1.0		ND	NR	7 - 120	16.5	20	
delta-BHC [2C]	2.69950	1.0		ND	NR	7 - 120	34.3	20	R3
Dieldrin	4.99000	2.0		ND	NR	25 - 136	26.9	20	R3

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0038 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0038-MSD1) - Continued		**Source: 1604921-87**		Prepared: 1/3/2017 Analyzed: 1/4/2017					
Dieldrin [2C]	5.63817	2.0		ND	NR	25 - 136	31.5	20	R3
Endosulfan I	5.13167	1.0		ND	NR	18 - 134	21.6	20	R3
Endosulfan I [2C]	5.70450	1.0		ND	NR	18 - 134	27.1	20	R3
Endosulfan II	2.88483	2.0		ND	NR	28 - 128	41.1	20	R3
Endosulfan II [2C]	3.99733	2.0		ND	NR	28 - 128	49.8	20	R3
Endosulfan sulfate	2.52617	2.0		ND	NR	5 - 145	54.4	20	R3
Endosulfan Sulfate [2C]	3.29433	2.0		ND	NR	5 - 145	51.4	20	R3
Endrin	5.31367	2.0		ND	NR	26 - 142	26.6	20	R3
Endrin [2C]	6.32900	2.0		ND	NR	26 - 142	31.8	20	R3
Endrin aldehyde	4.15450	2.0		ND	NR	8 - 146	82.9	20	R3
Endrin aldehyde [2C]	2.91783	2.0		ND	NR	8 - 146	40.2	20	R3
Endrin ketone	3.23033	2.0		ND	NR	16 - 139	46.7	20	R3
Endrin ketone [2C]	3.60433	2.0		ND	NR	16 - 139	44.5	20	R3
gamma-BHC	5.96000	1.0		ND	NR	30 - 122	17.7	20	
gamma-BHC [2C]	6.55500	1.0		ND	NR	30 - 122	18.8	20	
gamma-Chlordane	5.87783	1.0		0.558833	NR	18 - 132	10.2	20	
gamma-Chlordane [2C]	56.0647	1.0		ND	NR	18 - 132	11.5	20	
Heptachlor	8.17550	1.0		ND	NR	34 - 122	4.66	20	
Heptachlor [2C]	8.27033	1.0		ND	NR	34 - 122	1.05	20	
Heptachlor epoxide	5.32550	1.0		ND	NR	21 - 135	20.6	20	R3
Heptachlor epoxide [2C]	7.69250	1.0		ND	NR	21 - 135	47.0	20	R3
Methoxychlor	5.67917	5.0		ND	NR	8 - 162	40.8	20	R3
Methoxychlor [2C]	38.6080	5.0		ND	NR	8 - 162	144	20	R3
Surrogate: Decachlorobiphenyl	*8.407*		*16.6667*		*50.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*11.79*		*16.6667*		*70.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*6.631*		*16.6667*		*39.8*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*6.236*		*16.6667*		*37.4*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Notes and Definitions

S4	Surrogate was diluted out.
R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
R2	RPD value outside acceptance criteria due to possible matrix interference.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☑	☐
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting, Inc. (LCI)
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel: 949-250-1421 Fax: 949-250-1114

SEND REPORT TO:
Attn: Julie Hamman Email: jhamman@leightongroup.com
Company: LCI
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: acctpayable@leightongroup.com
Company: Leighton
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS
Project No.: 603378.006
Sampler: W. Scorcia
Quote No: —
PO #: —
Special Instructions/Comments: Standard TAT

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010/7000 Arsenic	6010/7000 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	QA/QC / REMARKS
1	1604921-1	EB9-6-0.5	12-29-16	0755					X	X			X	X	X					5	1	5	1	—	
2	-2	EB9-6-1.5		0756					X				X	X											
3	-3	EB9-6-2.5		0757																					HOLD
4	-4	EB10-1-0.5		0800					X				X	X											
5	-5	EB10-1-1.5		0801					X				X	X											
6	-6	EB10-1-2.5		0802																					HOLD
7	-7	EB9-4-0.5		0912					X				X	X											
8	-8	EB9-4-1.5		0914					X				X	X											
9	-9	EB9-4-2.5		0920																					HOLD
10	-10	EB8-1-0.5		0939					X				X	X											

Encircle or Write Requested Analysis
Encircle Sample Matrix
Container: # / Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister / Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC
☐ Routine
☐ Caltrans
☐ Legal
☐ RWQCB
☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: Wallace Scorcia
Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scorcia	12/29/16	1620			
	12/29/16	1815	Pradeep	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010/7000 Arsenic	6010/7000 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1604921 -11	EB8-1-1.5	12-29-16	0940					X	X			X	X	X					5	1	5	1	-	
2	-12	EB8-1-2.5		0941																					HOLD
3	-13	EB8-6-0.5		0942					X				X	X											
4	-14	EB8-6-1.5		0943					X				X	X											
5	-15	EB8-6-2.5		0944																					HOLD
6	-16	EB8-5-0.5		0945					X				X	X											
7	-17	EB8-5-1.5		0946					X				X	X											
8	-18	EB8-5-2.5		0947																					HOLD
9	-19	EB8-4-0.5		0953					X				X	X											
10	-20	EB8-4-1.5		0954					X				X	X											

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (IAc)2 6=NaOH; 7=NA2S2O3

QA/QC
- ☐ Routine
- ☐ Caltrans
- ☐ Legal
- ☐ RWQCB
- ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Somers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Somers	12/29/16	1620		12/29/16	1620
	12/29/16	1815	FEDEX	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:

City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address: See Page 1
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010/7000 Arsenic	6010/7000 Lead Free Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1604921 -1	EBS-4-2.5	12-29-16	0955											X					5	1	5	1	-	HOLD
2	-22	EBS-3-0.5		1020					X	X			X	X											
3	-23	EBS-3-1.5		1021					X				X	X											
4	-24	EBS-3-2.5		1022																					HOLD
5	-25	EBS-2-0.5		1030					X				X	X											
6	-26	EBS-2-1.5		1031					X				X	X											
7	-27	EBS-2-2.5		1032																					HOLD
8	-28	EBG-1-0.5		1110					X				X	X											
9	-29	EBG-1-1.5		1115					X				X	X											
10	-30	EBG-1-2.5	↓	1117											↓					↓	↓	↓	↓	↓	HOLD

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7= Canister
Container Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2, 6=NaOH; 7=NA2S2O3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sconiers — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Sconiers	12/29/16	1620			
	12/29/16	1815	PDavis	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:
Address:
Tel:
City: State: Zip: Fax:

SEND REPORT TO:
Attn: Email:
Company: See Pg 1
Address:
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:
Company:
Address: ~~1~~ 1
City: State: Zip:

PROJECT SAMPLES

Project Name:
Project No.:
Sampler:
Quote No:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	CAM/Total Arsenic	CAM/Total Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1604921 -31	EB9-3-0.5	12-29-16	1120					X				X	X	X					5	1	5	1	-	
2	-32	EB9-3-1.5		1121					X	X			X	X											
3	-33	EB9-3-2.5		1122																					HOLD
4	-34	EB9-2-0.5		1129					X				X	X											
5	-35	EB9-2-1.5		1130					X				X	X											
6	-36	EB9-2-2.5		1131																					HOLD
7	-37	EB15-3-0.5		1205					X				X	X											
8	-38	EB15-3-1.0		1206					X				X	X											
9	-39	EB15-4-0.5		1200					X				X	X											
10	-40	EB15-4-1.5		1201					X				X	X											

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Encircle or Write Requested Analysis | Encircle Sample Matrix | Container: # / Type / Material | Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2 6=NaOH; 7=NAZS203

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sommers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Sommers	12/29/16	1610		12/29/16	1620
	12/29/16	1815	Fabian P	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:

Project No.: | PO #:

Sampler:

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Total Arsenic; Total Lead

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	TAT	Container: #	Container: Type (1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister)	Container: Material (1=Glass; 2=Plastic; 3=Metal)	Preservative (1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV	REMARKS
1	1604921 -41	EB15-4-2.5	12-29-16	1202	5	1	5	1	—		HOLD
2	-42	EB15-6-0.5		1207							
3	-43	EB15-6-1.5		1204							
4	-44	EB15-6-2.5		1205							HOLD
5	-45	EB16-2-0.5		1210							
6	-46	EB16-2-1.5		1211							
7	-47	EB16-2-2.5		1212							HOLD
8	-48	EB15-5-0.5		1319							
9	-49	EB15-5-1.5		1320							
10	-50	EB15-5-2.5		1321							HOLD

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scovica — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scovica	12/29/16	1620	FEDEX	12/29/16	1620
	12/29/16	1815		12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page 2	Company: NA
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead/Total Arsenic	Lead/TCLP Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1604921 -51	EB6-2-0.5	12-29-16	1311					X				X	X	X					5	1	5	1		
2	-52	EB6-2-1.5		1312					X	X			X	X											
3	-53	EB6-2-2.5		1313																					HOLD
4	-54	EB15-2-0.5		1314					X				X	X											
5	-55	EB15-2-1.5		1315					X				X	X											
6	-56	EB15-2-2.5		1316																					HOLD
7	-57	EB16-3-0.5		1317					X				X	X											
8	-58	EB16-3-1.5		1318					X				X	X											
9	-59	EB16-3-2.5		1319																					HOLD
10	-60	EB22-2-0.5		1355					X				X	X											

CUSTODY TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamers — Submitter Print Name

Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seamers	12/29/16	1620	FEDEX	12/29/16	1620
	12/29/16	1815		12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 7 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State:	Zip: Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address:	Address:
City: State: See Page Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Cad/Ted Arsenic	Lead/Trace Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Redjar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1604921 -01	EB22-2-1.5	12-29-16	1356					X	X			X	X	X					5	1	5	1	1	
2	-02	EB22-2-2.5		1357																				HOLD
3	-03	EB24-6-0.5		1358					X				X	X										
4	-04	EB24-6-1.5		1359					X				X	X										
5	-05	EB24-6-2.5		1400																				HOLD
6	-06	EB3-2-0.5		1402					X				X	X										
7	-07	EB3-2-1.5		1403					X				X	X										
8	-08	EB3-2-2.5		1404																				HOLD
9	-09	EB15-1-0.5		1447					X				X	X										
10	-10	EB15-1-1.5	↓	1448					X				X	X	↓					↓	↓	↓	↓	↓	

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

CUSTODY TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scowers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scowers	12/29/16	1620		12/29/16	1620
	12/29/16	1815	Frances	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 8 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:

City: | State: | Zip: | Fax:

SEND REPORT TO:

Attn: | Email:

Company:

Address:

City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO

Attn: | Email:

Company:

Address: See Page #1

City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:

Project No.: | PO #:

Sampler:

| ITEM | Lab No. | Sample Description: Sample ID / Location | Date | Time | 8260 / 624 (Volatiles) | 8015(GRO) | 8015(DRO) | 8270(Semi-volatiles) | 8081(Organochlorine Pesticides) | 8082(PCBs) | 6010 / 7000(Title 22 Metals) | TO-15 | cat/reorganic lab/received | | | | |

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 9 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130/15

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:
Address:
City: State: Zip:
Tel:
Fax:

SEND REPORT TO:
Attn: Email:
Company:
Address:
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:
Company: See Page #1
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name:
Project No.:
Sampler:
Quote No:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Cam/Tecc Arsenic	Cam/Tecc Lead	8015 Ext	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Container: Type	Container: Material	Preservative	REMARKS
1	1604921 -81	EB25-3-0.5	12-29-16	1435					X				X	X		X					5	1	5	1	-	
2	-82	EB25-3-1.5		1436					X	X			X	X												
3	-83	EB25-3-2.5		1437																						HOLD
4	-84	EB23-3-0.5		1443					X				X	X												
5	-85	EB23-3-1.5		1445					X				X	X												
6	-86	EB23-3-2.5		1446																						HOLD
7	-87	DRUM1	12-29-16	1520		X	X		X	X	X				X	X					5	1	5	1	-	
8	-88	EQB-12-29-16	"	1545		X	X		X	X	X				X			X			5	6	3/3	1/2		
9																										
10																										

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container: # / Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister / Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC
☐ Routine
☐ Caltrans
☐ Legal
☐ RWQCB
☐ Level IV

TERMS & CONDITIONS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seamers	12/29/16	1620		12/29/16	1620
	12/29/16	1815	Fedex	12/29/16	1815

Carmen Aguila

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, December 30, 2016 4:17 PM
To: Carmen Aguila
Cc: Becky Steever; Wallace Sconiers
Subject: RE: Burroughs MS-LAUSD, 603378.006

Importance: High

Carmen,

The following samples submitted on 12/28/2016 should be placed on hold:

- EB11-1-2.5
- EB11-2-2.5
- EB12-1-2.5
- EB12-2-2.5
- EB9-1-2.5
- EB9-5-2.5
- EB13-1-2.5
- EB13-2-2.5
- EB15-1-2.5
- EB15-2-2.5

The following samples submitted on 12/28/2016 should be analyzed for Title 22 metals, PAHs by 8270SIM and PCBs and not for what is shown on the COC:

- EB9-7-0.5
- EB9-7-1.5
- EB9-7-2.5

The following sample submitted on 12/28/2016 should be analyzed for lead in addition to what is shown on the COC:

- FB5-1-2.5
- FB5-2-2.5

The following sample submitted on 12/28/2016 should be analyzed for arsenic and OCPs in addition to what is shown on the COC:

- EB15-2-0.5

The following samples **submitted on 12/29/2016** were incorrectly identified as EB15 samples in the field and we would like the samples corrected to be logged and reported as EB5 samples as follows:

- EB15-1-0.5 should be EB5-1-0.5
- EB15-1-1.5 should be EB5-1-1.5
- EB15-1-2.5 should be EB5-1-2.5
- EB15-2-0.5 should be EB5-2-0.5
- EB15-2-1.5 should be EB5-2-1.5
- EB15-2-2.5 should be EB5-2-2.5
- EB15-3-0.5 should be EB5-3-0.5
- EB15-3-1.5 should be EB5-3-1.5
- EB15-3-2.5 should be EB5-3-2.5
- EB15-4-0.5 should be EB5-4-0.5
- EB15-4-1.5 should be EB5-4-1.5
- EB15-4-2.5 should be EB5-4-2.5

- EB15-5-0.5 should be EB5-5-0.5
- EB15-5-1.5 should be EB5-5-1.5
- EB15-5-2.5 should be EB5-5-2.5
- EB15-6-0.5 should be EB5-6-0.5
- EB15-6-1.5 should be EB5-6-1.5
- EB15-6-2.5 should be EB5-6-2.5

Thank you,

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON


Please consider the environment before printing this e-mail.

Carmen Aguila

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, December 30, 2016 4:37 PM
To: Carmen Aguila
Cc: Wallace Sconiers; Becky Steever
Subject: RE: Burroughs MS-LAUSD, 603378.006

Importance: High

Carmen,

The following sample submitted on 12/28/2016 should be analyzed for TPHcc, Title 22 metals, OCPs, PAHs by 8270SIM and PCBs and not for what is shown on the COC:

- EQB122816

The following sample submitted on 12/29/2016 should be analyzed for lead, arsenic, OCPs, and PCBs and not for what is shown on the COC:

- EQB-12-29-16

The following sample submitted on 12/29/2016 does not need to be analyzed for PCBs, but is otherwise correct on the COC:

- DRUM1

Thank you,

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

Please consider the environment before printing this e-mail.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Tuesday, January 03, 2017 11:42 AM
To: Rachelle Arada
Cc: Carmen Aguila; customer.relations@atlglobal.com; Becky Steever
Subject: RE: Burroughs MS-LAUSD, 603378.006

Importance: High

Rachelle,

I need to rush the below "DRUM1" sample submitted on 12/29/2016 and get the results tomorrow. Is that possible? We do not need PCBs for this sample, but it is otherwise correct on the COC.

Thank you,
Julie

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

Please consider the environment before printing this e-mail.

From: Rachelle Arada [mailto:Rachelle@atlglobal.com]
Sent: Tuesday, January 03, 2017 9:12 AM
To: Julie Harriman
Cc: Carmen Aguila; customer.relations@atlglobal.com
Subject: RE: Burroughs MS-LAUSD, 603378.006

Hi Julie,

Just following up if you have the carbon chain you need for this project. Thanks.

Rachelle

From: Julie Harriman [mailto:jharriman@leightongroup.com]
Sent: Wednesday, December 28, 2016 5:27 PM
To: Rachelle Arada
Subject: RE: Burroughs MS-LAUSD, 603378.006

Actually, let me check with the client.

Thanks,

ADVANCED TECHNOLOGY LABORATORIES

January 11, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1604923
Client Reference : Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on December 29, 2016 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB4-4-0.5	1604923-01	Soil	12/29/16 8:00	12/29/16 16:20
FB4-4-1.5	1604923-02	Soil	12/29/16 8:01	12/29/16 16:20
FB4-4-2.5	1604923-03	Soil	12/29/16 8:02	12/29/16 16:20
FB4-1-0.5	1604923-04	Soil	12/29/16 8:10	12/29/16 16:20
FB4-1-1.5	1604923-05	Soil	12/29/16 8:11	12/29/16 16:20
FB4-1-2.5	1604923-06	Soil	12/29/16 8:12	12/29/16 16:20
FB4-3-0.5	1604923-07	Soil	12/29/16 8:13	12/29/16 16:20
FB4-3-1.5	1604923-08	Soil	12/29/16 8:14	12/29/16 16:20
FB4-3-2.5	1604923-09	Soil	12/29/16 8:15	12/29/16 16:20
FB9-1-0.5	1604923-10	Soil	12/29/16 8:25	12/29/16 16:20
FB9-1-1.5	1604923-11	Soil	12/29/16 8:26	12/29/16 16:20
FB9-1-2.5	1604923-12	Soil	12/29/16 8:27	12/29/16 16:20
FB4-2-0.5	1604923-13	Soil	12/29/16 8:35	12/29/16 16:20
FB4-2-1.5	1604923-14	Soil	12/29/16 8:36	12/29/16 16:20
FB4-2-2.5	1604923-15	Soil	12/29/16 8:37	12/29/16 16:20
FB9-4-0.5	1604923-16	Soil	12/29/16 8:45	12/29/16 16:20
FB9-4-1.5	1604923-17	Soil	12/29/16 8:46	12/29/16 16:20
FB9-4-2.5	1604923-18	Soil	12/29/16 8:47	12/29/16 16:20
FB9-2-0.5	1604923-19	Soil	12/29/16 8:58	12/29/16 16:20
FB9-2-1.5	1604923-20	Soil	12/29/16 8:59	12/29/16 16:20
FB9-2-2.5	1604923-21	Soil	12/29/16 9:00	12/29/16 16:20
FB9-3-0.5	1604923-22	Soil	12/29/16 9:05	12/29/16 16:20
FB9-3-1.5	1604923-23	Soil	12/29/16 9:04	12/29/16 16:20
FB9-3-2.5	1604923-24	Soil	12/29/16 9:05	12/29/16 16:20

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-4-0.5

Lab ID: 1604923-01

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 11:50	
Lead	**26**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 11:50	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 15:40	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 15:40	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 15:40	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 15:40	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 15:40	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 15:40	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 15:40	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 15:40	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 15:40	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 15:40	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 15:40	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 15:40	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 15:40	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 15:40	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 15:40	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 15:40	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 15:40	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 15:40	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 15:40	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 15:40	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 15:40	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 15:40	
Surrogate: Decachlorobiphenyl	*80.1 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 15:40*	
Surrogate: Tetrachloro-m-xylene	*74.0 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 15:40*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-4-0.5

Lab ID: 1604923-01

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:19	
Aroclor 1221	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:19	
Aroclor 1232	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:19	
Aroclor 1242	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:19	
Aroclor 1248	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:19	
Aroclor 1254	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:19	
Aroclor 1260	**3.3**	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:19	J
Aroclor 1262	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:19	
Aroclor 1268	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:19	
Surrogate: Decachlorobiphenyl	*105 %*	*26 - 137*			B7A0217	01/09/2017	*01/09/17 15:19*	
Surrogate: Tetrachloro-m-xylene	*108 %*	*28 - 102*			B7A0217	01/09/2017	*01/09/17 15:19*	S12

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-4-1.5
Lab ID: 1604923-02

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 11:51	
Lead	**44**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 11:51	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 15:50	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 15:50	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 15:50	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 15:50	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 15:50	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 15:50	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 15:50	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 15:50	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 15:50	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 15:50	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 15:50	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 15:50	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 15:50	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 15:50	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 15:50	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 15:50	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 15:50	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 15:50	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 15:50	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 15:50	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 15:50	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 15:50	
Surrogate: Decachlorobiphenyl	*76.9 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 15:50*	
Surrogate: Tetrachloro-m-xylene	*75.9 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 15:50*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-4-2.5

Lab ID: 1604923-03

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 11:53	
Lead	**4.6**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 11:53	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 16:01	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:01	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 16:01	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 16:01	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:01	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:01	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:01	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 16:01	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:01	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 16:01	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:01	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 16:01	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:01	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:01	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 16:01	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:01	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:01	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:01	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 16:01	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:01	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 16:01	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 16:01	
Surrogate: Decachlorobiphenyl	*74.3 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 16:01*	
Surrogate: Tetrachloro-m-xylene	*72.7 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 16:01*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-1-0.5
Lab ID: 1604923-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.2**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 11:54	
Lead	**20**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 11:54	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	10	1.1	5	B7A0216	01/09/2017	01/09/17 16:11	D1
4,4´-DDE [2C]	**3.1**	10	0.98	5	B7A0216	01/09/2017	01/09/17 16:11	D1, J
4,4´-DDT [2C]	**1.5**	10	0.67	5	B7A0216	01/09/2017	01/09/17 16:11	D1, J
Aldrin	ND	5.0	1.3	5	B7A0216	01/09/2017	01/09/17 16:11	D1
alpha-BHC	ND	5.0	0.99	5	B7A0216	01/09/2017	01/09/17 16:11	D1
alpha-Chlordane	**1.9**	5.0	1.1	5	B7A0216	01/09/2017	01/09/17 16:11	D1, J
beta-BHC	ND	5.0	1.1	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Chlordane	**18**	42	4.5	5	B7A0216	01/09/2017	01/09/17 16:11	D1, J
delta-BHC	ND	5.0	1.0	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Dieldrin	ND	10	1.2	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Endosulfan I	ND	5.0	1.1	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Endosulfan II	ND	10	1.1	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Endosulfan sulfate	ND	10	1.1	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Endrin	ND	10	1.1	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Endrin aldehyde	ND	10	1.4	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Endrin ketone	ND	10	1.0	5	B7A0216	01/09/2017	01/09/17 16:11	D1
gamma-BHC	ND	5.0	1.0	5	B7A0216	01/09/2017	01/09/17 16:11	D1
gamma-Chlordane [2C]	**2.3**	5.0	1.1	5	B7A0216	01/09/2017	01/09/17 16:11	D1, J
Heptachlor	ND	5.0	0.95	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Heptachlor epoxide	ND	5.0	1.0	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Methoxychlor	ND	25	0.89	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Toxaphene	ND	250	41	5	B7A0216	01/09/2017	01/09/17 16:11	D1
Surrogate: Decachlorobiphenyl	*74.6 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 16:11*	
Surrogate: Tetrachloro-m-xylene	*99.4 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 16:11*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-1-1.5
Lab ID: 1604923-05

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**7.2**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 11:55	
Lead	**54**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 11:55	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 16:22	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:22	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 16:22	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 16:22	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:22	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:22	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:22	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 16:22	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:22	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 16:22	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:22	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 16:22	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:22	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:22	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 16:22	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:22	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:22	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:22	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 16:22	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:22	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 16:22	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 16:22	
Surrogate: Decachlorobiphenyl	*85.2 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 16:22*	
Surrogate: Tetrachloro-m-xylene	*82.9 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 16:22*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-1-2.5
Lab ID: 1604923-06

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.4**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 11:58	
Lead	**7.7**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 11:58	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 16:32	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:32	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 16:32	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 16:32	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:32	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:32	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:32	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 16:32	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:32	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 16:32	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:32	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 16:32	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:32	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:32	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 16:32	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:32	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:32	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:32	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 16:32	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:32	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 16:32	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 16:32	
Surrogate: Decachlorobiphenyl	*53.3 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 16:32*	
Surrogate: Tetrachloro-m-xylene	*58.8 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 16:32*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-3-0.5
Lab ID: 1604923-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:00	
Lead	**66**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:00	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD [2C]	**1.8**	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 16:42	J
4,4´-DDE	**22**	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:42	
4,4´-DDT	**2.1**	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 16:42	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 16:42	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:42	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:42	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:42	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 16:42	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:42	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 16:42	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:42	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 16:42	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:42	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:42	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 16:42	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:42	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:42	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:42	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 16:42	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:42	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 16:42	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 16:42	
Surrogate: Decachlorobiphenyl	*81.8 %*	*27 - 123*			B7A0216	01/09/2017	*01/09/17 16:42*	
Surrogate: Tetrachloro-m-xylene	*76.1 %*	*26 - 108*			B7A0216	01/09/2017	*01/09/17 16:42*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-3-1.5
Lab ID: 1604923-08

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.1**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:01	
Lead	**46**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:01	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 16:53	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:53	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 16:53	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 16:53	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:53	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:53	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:53	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 16:53	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:53	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 16:53	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:53	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 16:53	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 16:53	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:53	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 16:53	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:53	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:53	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 16:53	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 16:53	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 16:53	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 16:53	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 16:53	
Surrogate: Decachlorobiphenyl	*70.5 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 16:53*	
Surrogate: Tetrachloro-m-xylene	*71.9 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 16:53*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-3-2.5

Lab ID: 1604923-09

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:02	
Lead	**6.9**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:02	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:03	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:03	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 17:03	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 17:03	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:03	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:03	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:03	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 17:03	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:03	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 17:03	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:03	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:03	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:03	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:03	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 17:03	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:03	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:03	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:03	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 17:03	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:03	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 17:03	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 17:03	
Surrogate: Decachlorobiphenyl	*92.7 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 17:03*	
Surrogate: Tetrachloro-m-xylene	*81.2 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 17:03*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-1-0.5

Lab ID: 1604923-10

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:03	
Lead	**82**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:03	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:14	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:14	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 17:14	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 17:14	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:14	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:14	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:14	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 17:14	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:14	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 17:14	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:14	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:14	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:14	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:14	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 17:14	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:14	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:14	
gamma-Chlordane	**0.28**	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:14	J
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 17:14	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:14	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 17:14	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 17:14	
Surrogate: Decachlorobiphenyl	*58.6 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 17:14*	
Surrogate: Tetrachloro-m-xylene	*67.6 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 17:14*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-1-1.5

Lab ID: 1604923-11

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:04	
Lead	**5.5**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:04	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:24	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:24	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 17:24	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 17:24	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:24	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:24	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:24	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 17:24	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:24	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 17:24	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:24	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:24	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:24	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:24	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 17:24	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:24	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:24	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:24	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 17:24	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:24	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 17:24	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 17:24	
Surrogate: Decachlorobiphenyl	*68.9 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 17:24*	
Surrogate: Tetrachloro-m-xylene	*81.2 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 17:24*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-1-1.5

Lab ID: 1604923-11

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:38	
Aroclor 1221	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:38	
Aroclor 1232	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:38	
Aroclor 1242	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:38	
Aroclor 1248	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:38	
Aroclor 1254	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:38	
Aroclor 1260	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:38	
Aroclor 1262	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:38	
Aroclor 1268	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:38	
Surrogate: Decachlorobiphenyl	*102 %*	*26 - 137*			B7A0217	01/09/2017	*01/09/17 15:38*	
Surrogate: Tetrachloro-m-xylene	*111 %*	*28 - 102*			B7A0217	01/09/2017	*01/09/17 15:38*	S1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-1-2.5

Lab ID: 1604923-12

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:05	
Lead	**2.8**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:05	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:35	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:35	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 17:35	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 17:35	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:35	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:35	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:35	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 17:35	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:35	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 17:35	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:35	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:35	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:35	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:35	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 17:35	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:35	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:35	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:35	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 17:35	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:35	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 17:35	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 17:35	
Surrogate: Decachlorobiphenyl	*74.1 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 17:35*	
Surrogate: Tetrachloro-m-xylene	*84.9 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 17:35*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-2-0.5

Lab ID: 1604923-13

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:06	
Lead	**34**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:06	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:45	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:45	
4,4´-DDT	**0.36**	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 17:45	J
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 17:45	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:45	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:45	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:45	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 17:45	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:45	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 17:45	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:45	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:45	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:45	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:45	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 17:45	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:45	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:45	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:45	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 17:45	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:45	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 17:45	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 17:45	
Surrogate: Decachlorobiphenyl	*66.6 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 17:45*	
Surrogate: Tetrachloro-m-xylene	*72.5 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 17:45*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-2-1.5

Lab ID: 1604923-14

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.5**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:07	
Lead	**52**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:07	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:55	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:55	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 17:55	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 17:55	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:55	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:55	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:55	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 17:55	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:55	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 17:55	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:55	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 17:55	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 17:55	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:55	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 17:55	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:55	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:55	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 17:55	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 17:55	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 17:55	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 17:55	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 17:55	
Surrogate: Decachlorobiphenyl	*72.0 %*	*27 - 123*			B7A0216	01/09/2017	*01/09/17 17:55*	
Surrogate: Tetrachloro-m-xylene	*82.8 %*	*26 - 108*			B7A0216	01/09/2017	*01/09/17 17:55*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB4-2-2.5

Lab ID: 1604923-15

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:08	
Lead	**21**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:08	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:06	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:06	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 18:06	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 18:06	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:06	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:06	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:06	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 18:06	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:06	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 18:06	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:06	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:06	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:06	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:06	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 18:06	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:06	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:06	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:06	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 18:06	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:06	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 18:06	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 18:06	
Surrogate: Decachlorobiphenyl	*81.8 %*	*27 - 123*			B7A0216	01/09/2017	*01/09/17 18:06*	
Surrogate: Tetrachloro-m-xylene	*77.3 %*	*26 - 108*			B7A0216	01/09/2017	*01/09/17 18:06*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-4-0.5

Lab ID: 1604923-16

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**9.3**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:12	
Lead	**65**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:12	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:16	
4,4´-DDE	**1.1**	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:16	J
4,4´-DDT	**0.97**	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 18:16	J
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 18:16	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:16	
alpha-Chlordane	**1.4**	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:16	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:16	
Chlordane	**12**	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 18:16	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:16	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 18:16	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:16	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:16	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:16	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:16	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 18:16	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:16	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:16	
gamma-Chlordane [2C]	**1.4**	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:16	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 18:16	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:16	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 18:16	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 18:16	
Surrogate: Decachlorobiphenyl	*57.3 %*	*27 - 123*			B7A0216	01/09/2017	*01/09/17 18:16*	
Surrogate: Tetrachloro-m-xylene	*68.4 %*	*26 - 108*			B7A0216	01/09/2017	*01/09/17 18:16*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-4-1.5
Lab ID: 1604923-17

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:13	
Lead	**160**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:13	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:27	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:27	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 18:27	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 18:27	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:27	
alpha-Chlordane	**0.42**	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:27	J
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:27	
Chlordane	**3.5**	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 18:27	J
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:27	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 18:27	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:27	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:27	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:27	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:27	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 18:27	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:27	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:27	
gamma-Chlordane	**0.40**	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:27	J
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 18:27	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:27	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 18:27	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 18:27	
Surrogate: Decachlorobiphenyl	*78.5 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 18:27*	
Surrogate: Tetrachloro-m-xylene	*82.2 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 18:27*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-4-2.5
Lab ID: 1604923-18

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.1**	1.0	0.70	1	B7A0232	01/09/2017	01/10/17 12:14	
Lead	**33**	1.0	0.11	1	B7A0232	01/09/2017	01/10/17 12:14	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:37	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:37	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 18:37	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 18:37	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:37	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:37	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:37	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 18:37	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:37	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 18:37	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:37	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:37	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:37	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:37	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 18:37	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:37	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:37	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:37	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 18:37	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:37	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 18:37	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 18:37	
Surrogate: Decachlorobiphenyl	*61.8 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 18:37*	
Surrogate: Tetrachloro-m-xylene	*71.2 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 18:37*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-2-0.5

Lab ID: 1604923-19

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0233	01/09/2017	01/10/17 12:35	
Lead	**7.9**	1.0	0.11	1	B7A0233	01/09/2017	01/10/17 12:35	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:48	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:48	
4,4´-DDT [2C]	**0.19**	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 18:48	J
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 18:48	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:48	
alpha-Chlordane	**0.23**	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:48	J
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:48	
Chlordane	**2.9**	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 18:48	J
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:48	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 18:48	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:48	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:48	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:48	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:48	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 18:48	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:48	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:48	
gamma-Chlordane [2C]	**0.26**	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:48	J
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 18:48	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:48	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 18:48	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 18:48	
Surrogate: Decachlorobiphenyl	*66.3 %*	*27 - 123*			B7A0216	01/09/2017	*01/09/17 18:48*	
Surrogate: Tetrachloro-m-xylene	*77.6 %*	*26 - 108*			B7A0216	01/09/2017	*01/09/17 18:48*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-2-1.5
Lab ID: 1604923-20

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0233	01/09/2017	01/10/17 12:39	
Lead	**3.2**	1.0	0.11	1	B7A0233	01/09/2017	01/10/17 12:39	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:58	
4,4´-DDE	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:58	
4,4´-DDT	ND	2.0	0.13	1	B7A0216	01/09/2017	01/09/17 18:58	
Aldrin	ND	1.0	0.27	1	B7A0216	01/09/2017	01/09/17 18:58	
alpha-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:58	
alpha-Chlordane	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:58	
beta-BHC	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:58	
Chlordane	ND	8.5	0.90	1	B7A0216	01/09/2017	01/09/17 18:58	
delta-BHC	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:58	
Dieldrin	ND	2.0	0.25	1	B7A0216	01/09/2017	01/09/17 18:58	
Endosulfan I	ND	1.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:58	
Endosulfan II	ND	2.0	0.22	1	B7A0216	01/09/2017	01/09/17 18:58	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0216	01/09/2017	01/09/17 18:58	
Endrin	ND	2.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:58	
Endrin aldehyde	ND	2.0	0.28	1	B7A0216	01/09/2017	01/09/17 18:58	
Endrin ketone	ND	2.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:58	
gamma-BHC	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:58	
gamma-Chlordane	ND	1.0	0.23	1	B7A0216	01/09/2017	01/09/17 18:58	
Heptachlor	ND	1.0	0.19	1	B7A0216	01/09/2017	01/09/17 18:58	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0216	01/09/2017	01/09/17 18:58	
Methoxychlor	ND	5.0	0.18	1	B7A0216	01/09/2017	01/09/17 18:58	
Toxaphene	ND	50	8.2	1	B7A0216	01/09/2017	01/09/17 18:58	
Surrogate: Decachlorobiphenyl	*70.9 %*		*27 - 123*		B7A0216	01/09/2017	*01/09/17 18:58*	
Surrogate: Tetrachloro-m-xylene	*81.3 %*		*26 - 108*		B7A0216	01/09/2017	*01/09/17 18:58*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-2-2.5
Lab ID: 1604923-21

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0233	01/09/2017	01/10/17 12:40	
Lead	**3.3**	1.0	0.11	1	B7A0233	01/09/2017	01/10/17 12:40	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:04	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:04	
4,4´-DDT	**0.14**	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 17:04	J
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 17:04	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:04	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:04	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:04	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 17:04	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:04	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 17:04	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:04	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:04	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:04	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:04	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 17:04	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:04	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:04	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:04	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 17:04	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:04	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 17:04	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 17:04	
Surrogate: Decachlorobiphenyl	*82.4 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 17:04*	
Surrogate: Tetrachloro-m-xylene	*82.0 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 17:04*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-3-0.5

Lab ID: 1604923-22

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0233	01/09/2017	01/10/17 12:41	
Lead	**53**	1.0	0.11	1	B7A0233	01/09/2017	01/10/17 12:41	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.1**	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:15	
4,4´-DDE [2C]	**1.3**	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:15	J
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 17:15	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 17:15	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:15	
alpha-Chlordane [2C]	**15**	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:15	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:15	
Chlordane [2C]	**110**	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 17:15	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:15	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 17:15	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:15	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:15	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:15	
Endrin	**0.55**	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:15	J
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 17:15	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:15	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:15	
gamma-Chlordane	**13**	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:15	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 17:15	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:15	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 17:15	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 17:15	
Surrogate: Decachlorobiphenyl	*81.9 %*	*27 - 123*			B7A0235	01/09/2017	*01/10/17 17:15*	
Surrogate: Tetrachloro-m-xylene	*83.9 %*	*26 - 108*			B7A0235	01/09/2017	*01/10/17 17:15*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-3-0.5

Lab ID: 1604923-22

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:57	
Aroclor 1221	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:57	
Aroclor 1232	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:57	
Aroclor 1242	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:57	
Aroclor 1248	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:57	
Aroclor 1254	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:57	
Aroclor 1260	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:57	
Aroclor 1262	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:57	
Aroclor 1268	ND	16	1.5	1	B7A0217	01/09/2017	01/09/17 15:57	
Surrogate: Decachlorobiphenyl	*103 %*	*26 - 137*			B7A0217	01/09/2017	*01/09/17 15:57*	
Surrogate: Tetrachloro-m-xylene	*110 %*	*28 - 102*			B7A0217	01/09/2017	*01/09/17 15:57*	S1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-3-1.5
Lab ID: 1604923-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0233	01/09/2017	01/10/17 12:42	
Lead	**3.8**	1.0	0.11	1	B7A0233	01/09/2017	01/10/17 12:42	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:26	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:26	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 17:26	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 17:26	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:26	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:26	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:26	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 17:26	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:26	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 17:26	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:26	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:26	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:26	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:26	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 17:26	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:26	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:26	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:26	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 17:26	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:26	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 17:26	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 17:26	
Surrogate: Decachlorobiphenyl	*81.8 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 17:26*	
Surrogate: Tetrachloro-m-xylene	*82.9 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 17:26*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID FB9-3-2.5
Lab ID: 1604923-24

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.9**	5.0	3.5	5	B7A0233	01/09/2017	01/10/17 14:10	D5, J
Lead	**10**	5.0	0.56	5	B7A0233	01/09/2017	01/10/17 14:10	D5

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:36	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:36	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 17:36	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 17:36	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:36	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:36	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:36	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 17:36	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:36	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 17:36	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:36	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 17:36	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 17:36	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:36	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 17:36	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:36	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:36	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 17:36	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 17:36	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 17:36	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 17:36	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 17:36	
Surrogate: Decachlorobiphenyl	*87.8 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 17:36*	
Surrogate: Tetrachloro-m-xylene	*90.7 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 17:36*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0232 - EPA 3050B_S									
Blank (B7A0232-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0232-BS1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	48.4276	1.0	50.0000		96.9	80 - 120			
Lead	48.5893	1.0	50.0000		97.2	80 - 120			
Duplicate (B7A0232-DUP1)		**Source: 1604923-18**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	1.18059	1.0		1.05192	NR		11.5	20	
Lead	70.7304	1.0		33.0863	NR		72.5	20	R
Matrix Spike (B7A0232-MS1)		**Source: 1604923-18**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	91.6988	1.0	125.000	1.05192	72.5	59 - 103			
Lead	133.597	1.0	125.000	33.0863	80.4	34 - 129			
Matrix Spike Dup (B7A0232-MSD1)		**Source: 1604923-18**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	95.3188	1.0	125.000	1.05192	75.4	59 - 103	3.87	20	
Lead	123.921	1.0	125.000	33.0863	72.7	34 - 129	7.51	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0233 - EPA 3050B_S									
Blank (B7A0233-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0233-BS1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	47.4995	1.0	50.0000		95.0	80 - 120			
Lead	47.7688	1.0	50.0000		95.5	80 - 120			
Duplicate (B7A0233-DUP1)		**Source: 1604344-09**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	6.65870	5.0		5.32078	NR		22.3	20	R
Lead	10.9249	5.0		9.66891	NR		12.2	20	
Matrix Spike (B7A0233-MS1)		**Source: 1604344-09**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	78.8730	5.0	125.000	5.32078	58.8	59 - 103			M1
Lead	85.3420	5.0	125.000	9.66891	60.5	34 - 129			
Matrix Spike Dup (B7A0233-MSD1)		**Source: 1604344-09**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Arsenic	130.188	5.0	125.000	5.32078	99.9	59 - 103	49.1	20	R
Lead	136.177	5.0	125.000	9.66891	101	34 - 129	45.9	20	R

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0216 - GCSEMI_PCB/PEST_S									
Blank (B7A0216-BLK1)				Prepared: 1/9/2017 Analyzed: 1/9/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0216 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0216-BLK1) - Continued				Prepared: 1/9/2017 Analyzed: 1/9/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*13.27*		*16.6667*		*79.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.58*		*16.6667*		*93.5*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.05*		*16.6667*		*90.3*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.41*		*16.6667*		*92.4*	*26 - 108*			
LCS (B7A0216-BS1)				Prepared: 1/9/2017 Analyzed: 1/9/2017					
4,4´-DDD	15.7008	2.0	16.6667		94.2	53 - 125			
4,4´-DDD [2C]	15.5853	2.0	16.6667		93.5	53 - 125			
4,4´-DDE	14.8807	2.0	16.6667		89.3	54 - 113			
4,4´-DDE [2C]	14.5045	2.0	16.6667		87.0	54 - 113			
4,4´-DDT	17.6730	2.0	16.6667		106	25 - 127			
4,4´-DDT [2C]	16.1818	2.0	16.6667		97.1	25 - 127			
Aldrin	14.6107	1.0	16.6667		87.7	59 - 107			
Aldrin [2C]	14.3965	1.0	16.6667		86.4	59 - 107			
alpha-BHC	14.5080	1.0	16.6667		87.0	59 - 104			
alpha-BHC [2C]	14.4942	1.0	16.6667		87.0	59 - 104			
alpha-Chlordane	14.9202	1.0	16.6667		89.5	54 - 110			
alpha-Chlordane [2C]	14.4223	1.0	16.6667		86.5	54 - 110			
beta-BHC	14.3193	1.0	16.6667		85.9	57 - 103			
beta-BHC [2C]	14.0663	1.0	16.6667		84.4	57 - 103			
delta-BHC	11.7820	1.0	16.6667		70.7	16 - 120			
delta-BHC [2C]	11.8205	1.0	16.6667		70.9	16 - 120			
Dieldrin	15.6965	2.0	16.6667		94.2	61 - 109			
Dieldrin [2C]	14.9122	2.0	16.6667		89.5	61 - 109			
Endosulfan I	14.8927	1.0	16.6667		89.4	60 - 106			
Endosulfan I [2C]	14.1373	1.0	16.6667		84.8	60 - 106			
Endosulfan II	14.9400	2.0	16.6667		89.6	59 - 108			
Endosulfan II [2C]	14.3385	2.0	16.6667		86.0	59 - 108			
Endosulfan sulfate	14.6095	2.0	16.6667		87.7	54 - 110			
Endosulfan Sulfate [2C]	13.9020	2.0	16.6667		83.4	54 - 110			
Endrin	16.5572	2.0	16.6667		99.3	63 - 112			
Endrin [2C]	16.0617	2.0	16.6667		96.4	63 - 112			
Endrin aldehyde	15.3948	2.0	16.6667		92.4	64 - 119			
Endrin aldehyde [2C]	14.5113	2.0	16.6667		87.1	64 - 119			
Endrin ketone	15.4395	2.0	16.6667		92.6	54 - 115			
Endrin ketone [2C]	14.6567	2.0	16.6667		87.9	54 - 115			
gamma-BHC	15.2153	1.0	16.6667		91.3	60 - 107			
gamma-BHC [2C]	14.9495	1.0	16.6667		89.7	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0216 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0216-BS1) - Continued				Prepared: 1/9/2017 Analyzed: 1/9/2017					
gamma-Chlordane	14.5525	1.0	16.6667		87.3	57 - 106			
gamma-Chlordane [2C]	14.2837	1.0	16.6667		85.7	57 - 106			
Heptachlor	15.5548	1.0	16.6667		93.3	54 - 114			
Heptachlor [2C]	14.9757	1.0	16.6667		89.9	54 - 114			
Heptachlor epoxide	14.6278	1.0	16.6667		87.8	61 - 106			
Heptachlor epoxide [2C]	14.1890	1.0	16.6667		85.1	61 - 106			
Methoxychlor	16.6133	5.0	16.6667		99.7	18 - 138			
Methoxychlor [2C]	16.0315	5.0	16.6667		96.2	18 - 138			
Surrogate: Decachlorobiphenyl	*12.69*		*16.6667*		*76.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*12.21*		*16.6667*		*73.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.97*		*16.6667*		*83.8*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.16*		*16.6667*		*91.0*	*26 - 108*			
Duplicate (B7A0216-DUP1)			**Source: 1604923-12**	Prepared: 1/9/2017 Analyzed: 1/9/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0216 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0216-DUP1) - Continued		**Source: 1604923-12**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*13.27*		*16.6667*		*79.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.35*		*16.6667*		*86.1*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.18*		*16.6667*		*85.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.10*		*16.6667*		*90.6*	*26 - 108*			
Matrix Spike (B7A0216-MS1)		**Source: 1604923-11**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
4,4´-DDD	15.4253	2.0	16.6667	ND	92.6	25 - 141			
4,4´-DDD [2C]	15.0915	2.0	16.6667	ND	90.5	25 - 141			
4,4´-DDE	15.6773	2.0	16.6667	ND	94.1	22 - 141			
4,4´-DDE [2C]	14.9908	2.0	16.6667	ND	89.9	22 - 141			
4,4´-DDT	18.9112	2.0	16.6667	ND	113	15 - 136			
4,4´-DDT [2C]	17.8175	2.0	16.6667	ND	107	15 - 136			
Aldrin	14.9095	1.0	16.6667	ND	89.5	33 - 118			
Aldrin [2C]	15.0442	1.0	16.6667	ND	90.3	33 - 118			
alpha-BHC	14.0490	1.0	16.6667	ND	84.3	30 - 116			
alpha-BHC [2C]	14.8073	1.0	16.6667	ND	88.8	30 - 116			
alpha-Chlordane	15.1458	1.0	16.6667	ND	90.9	30 - 123			
alpha-Chlordane [2C]	14.6553	1.0	16.6667	ND	87.9	30 - 123			
beta-BHC	13.6873	1.0	16.6667	ND	82.1	24 - 121			
beta-BHC [2C]	13.9343	1.0	16.6667	ND	83.6	24 - 121			
delta-BHC	10.9528	1.0	16.6667	ND	65.7	7 - 120			
delta-BHC [2C]	11.3750	1.0	16.6667	ND	68.2	7 - 120			
Dieldrin	15.7440	2.0	16.6667	ND	94.5	25 - 136			
Dieldrin [2C]	15.0650	2.0	16.6667	ND	90.4	25 - 136			
Endosulfan I	14.8845	1.0	16.6667	ND	89.3	18 - 134			
Endosulfan I [2C]	14.2822	1.0	16.6667	ND	85.7	18 - 134			
Endosulfan II	14.2027	2.0	16.6667	ND	85.2	28 - 128			
Endosulfan II [2C]	13.8733	2.0	16.6667	ND	83.2	28 - 128			

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0216 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0216-MS1) - Continued		**Source: 1604923-11**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Endosulfan sulfate	12.4873	2.0	16.6667	ND	74.9	5 - 145			
Endosulfan Sulfate [2C]	12.2628	2.0	16.6667	ND	73.6	5 - 145			
Endrin	16.7130	2.0	16.6667	ND	100	26 - 142			
Endrin [2C]	16.4943	2.0	16.6667	ND	99.0	26 - 142			
Endrin aldehyde	12.1847	2.0	16.6667	ND	73.1	8 - 146			
Endrin aldehyde [2C]	11.6292	2.0	16.6667	ND	69.8	8 - 146			
Endrin ketone	13.9640	2.0	16.6667	ND	83.8	16 - 139			
Endrin ketone [2C]	13.6338	2.0	16.6667	ND	81.8	16 - 139			
gamma-BHC	15.0512	1.0	16.6667	ND	90.3	30 - 122			
gamma-BHC [2C]	15.0232	1.0	16.6667	ND	90.1	30 - 122			
gamma-Chlordane	14.6692	1.0	16.6667	ND	88.0	18 - 132			
gamma-Chlordane [2C]	14.2222	1.0	16.6667	ND	85.3	18 - 132			
Heptachlor	16.3697	1.0	16.6667	ND	98.2	34 - 122			
Heptachlor [2C]	15.8465	1.0	16.6667	ND	95.1	34 - 122			
Heptachlor epoxide	14.4460	1.0	16.6667	ND	86.7	21 - 135			
Heptachlor epoxide [2C]	14.0033	1.0	16.6667	ND	84.0	21 - 135			
Methoxychlor	17.2058	5.0	16.6667	ND	103	8 - 162			
Methoxychlor [2C]	15.9915	5.0	16.6667	ND	95.9	8 - 162			
Surrogate: Decachlorobiphenyl	*14.08*		*16.6667*		*84.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.38*		*16.6667*		*98.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.36*		*16.6667*		*80.2*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.95*		*16.6667*		*89.7*	*26 - 108*			
Matrix Spike Dup (B7A0216-MSD1)		**Source: 1604923-11**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
4,4´-DDD	15.5127	2.0	16.6667	ND	93.1	25 - 141	0.565	20	
4,4´-DDD [2C]	14.9843	2.0	16.6667	ND	89.9	25 - 141	0.713	20	
4,4´-DDE	15.5420	2.0	16.6667	ND	93.3	22 - 141	0.867	20	
4,4´-DDE [2C]	14.7482	2.0	16.6667	ND	88.5	22 - 141	1.63	20	
4,4´-DDT	18.7388	2.0	16.6667	ND	112	15 - 136	0.915	20	
4,4´-DDT [2C]	17.3135	2.0	16.6667	ND	104	15 - 136	2.87	20	
Aldrin	14.9650	1.0	16.6667	ND	89.8	33 - 118	0.372	20	
Aldrin [2C]	14.9238	1.0	16.6667	ND	89.5	33 - 118	0.803	20	
alpha-BHC	14.3037	1.0	16.6667	ND	85.8	30 - 116	1.80	20	
alpha-BHC [2C]	15.6693	1.0	16.6667	ND	94.0	30 - 116	5.66	20	
alpha-Chlordane	15.3298	1.0	16.6667	ND	92.0	30 - 123	1.21	20	
alpha-Chlordane [2C]	14.6097	1.0	16.6667	ND	87.7	30 - 123	0.312	20	
beta-BHC	14.3312	1.0	16.6667	ND	86.0	24 - 121	4.60	20	
beta-BHC [2C]	15.2982	1.0	16.6667	ND	91.8	24 - 121	9.33	20	
delta-BHC	11.3793	1.0	16.6667	ND	68.3	7 - 120	3.82	20	
delta-BHC [2C]	12.0490	1.0	16.6667	ND	72.3	7 - 120	5.75	20	
Dieldrin	15.8603	2.0	16.6667	ND	95.2	25 - 136	0.736	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0216 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0216-MSD1) - Continued		**Source: 1604923-11**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Dieldrin [2C]	14.9598	2.0	16.6667	ND	89.8	25 - 136	0.701	20	
Endosulfan I	15.1470	1.0	16.6667	ND	90.9	18 - 134	1.75	20	
Endosulfan I [2C]	14.2772	1.0	16.6667	ND	85.7	18 - 134	0.0350	20	
Endosulfan II	14.1912	2.0	16.6667	ND	85.1	28 - 128	0.0810	20	
Endosulfan II [2C]	13.6590	2.0	16.6667	ND	82.0	28 - 128	1.56	20	
Endosulfan sulfate	12.5760	2.0	16.6667	ND	75.5	5 - 145	0.708	20	
Endosulfan Sulfate [2C]	12.4305	2.0	16.6667	ND	74.6	5 - 145	1.36	20	
Endrin	16.6498	2.0	16.6667	ND	99.9	26 - 142	0.379	20	
Endrin [2C]	16.2857	2.0	16.6667	ND	97.7	26 - 142	1.27	20	
Endrin aldehyde	11.9440	2.0	16.6667	ND	71.7	8 - 146	1.99	20	
Endrin aldehyde [2C]	11.7077	2.0	16.6667	ND	70.2	8 - 146	0.673	20	
Endrin ketone	13.7225	2.0	16.6667	ND	82.3	16 - 139	1.74	20	
Endrin ketone [2C]	14.0515	2.0	16.6667	ND	84.3	16 - 139	3.02	20	
gamma-BHC	15.6453	1.0	16.6667	ND	93.9	30 - 122	3.87	20	
gamma-BHC [2C]	15.8120	1.0	16.6667	ND	94.9	30 - 122	5.12	20	
gamma-Chlordane	14.8937	1.0	16.6667	ND	89.4	18 - 132	1.52	20	
gamma-Chlordane [2C]	14.3222	1.0	16.6667	ND	85.9	18 - 132	0.701	20	
Heptachlor	16.5055	1.0	16.6667	ND	99.0	34 - 122	0.826	20	
Heptachlor [2C]	15.8330	1.0	16.6667	ND	95.0	34 - 122	0.0852	20	
Heptachlor epoxide	14.8670	1.0	16.6667	ND	89.2	21 - 135	2.87	20	
Heptachlor epoxide [2C]	14.3455	1.0	16.6667	ND	86.1	21 - 135	2.41	20	
Methoxychlor	16.2677	5.0	16.6667	ND	97.6	8 - 162	5.61	20	
Methoxychlor [2C]	16.3940	5.0	16.6667	ND	98.4	8 - 162	2.49	20	
Surrogate: Decachlorobiphenyl	*13.73*		*16.6667*		*82.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.08*		*16.6667*		*96.5*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.58*		*16.6667*		*81.5*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.96*		*16.6667*		*89.8*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S									
Blank (B7A0235-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0235-BLK1) - Continued				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*14.37*		*16.6667*		*86.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.77*		*16.6667*		*101*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.96*		*16.6667*		*95.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*18.37*		*16.6667*		*110*	*26 - 108*			S1
LCS (B7A0235-BS1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	15.3787	2.0	16.6667		92.3	53 - 125			
4,4´-DDD [2C]	16.3440	2.0	16.6667		98.1	53 - 125			
4,4´-DDE	14.7990	2.0	16.6667		88.8	54 - 113			
4,4´-DDE [2C]	16.4295	2.0	16.6667		98.6	54 - 113			
4,4´-DDT	15.4752	2.0	16.6667		92.9	25 - 127			
4,4´-DDT [2C]	16.7495	2.0	16.6667		100	25 - 127			
Aldrin	14.7187	1.0	16.6667		88.3	59 - 107			
Aldrin [2C]	15.7300	1.0	16.6667		94.4	59 - 107			
alpha-BHC	14.7045	1.0	16.6667		88.2	59 - 104			
alpha-BHC [2C]	16.2372	1.0	16.6667		97.4	59 - 104			
alpha-Chlordane	14.7417	1.0	16.6667		88.4	54 - 110			
alpha-Chlordane [2C]	16.3408	1.0	16.6667		98.0	54 - 110			
beta-BHC	14.8127	1.0	16.6667		88.9	57 - 103			
beta-BHC [2C]	16.2688	1.0	16.6667		97.6	57 - 103			
delta-BHC	12.1710	1.0	16.6667		73.0	16 - 120			
delta-BHC [2C]	12.7650	1.0	16.6667		76.6	16 - 120			
Dieldrin	14.9372	2.0	16.6667		89.6	61 - 109			
Dieldrin [2C]	16.5335	2.0	16.6667		99.2	61 - 109			
Endosulfan I	14.5767	1.0	16.6667		87.5	60 - 106			
Endosulfan I [2C]	16.4243	1.0	16.6667		98.5	60 - 106			
Endosulfan II	14.4307	2.0	16.6667		86.6	59 - 108			
Endosulfan II [2C]	15.2682	2.0	16.6667		91.6	59 - 108			
Endosulfan sulfate	13.8185	2.0	16.6667		82.9	54 - 110			
Endosulfan Sulfate [2C]	13.9925	2.0	16.6667		84.0	54 - 110			
Endrin	15.7108	2.0	16.6667		94.3	63 - 112			
Endrin [2C]	17.5192	2.0	16.6667		105	63 - 112			
Endrin aldehyde	14.9340	2.0	16.6667		89.6	64 - 119			
Endrin aldehyde [2C]	13.7263	2.0	16.6667		82.4	64 - 119			
Endrin ketone	15.1345	2.0	16.6667		90.8	54 - 115			
Endrin ketone [2C]	15.3532	2.0	16.6667		92.1	54 - 115			
gamma-BHC	15.3095	1.0	16.6667		91.9	60 - 107			
gamma-BHC [2C]	16.7648	1.0	16.6667		101	60 - 107			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0235-BS1) - Continued				Prepared: 1/9/2017 Analyzed: 1/10/2017					
gamma-Chlordane	14.6223	1.0	16.6667		87.7	57 - 106			
gamma-Chlordane [2C]	15.5615	1.0	16.6667		93.4	57 - 106			
Heptachlor	15.4770	1.0	16.6667		92.9	54 - 114			
Heptachlor [2C]	17.7532	1.0	16.6667		107	54 - 114			
Heptachlor epoxide	14.7627	1.0	16.6667		88.6	61 - 106			
Heptachlor epoxide [2C]	15.9248	1.0	16.6667		95.5	61 - 106			
Methoxychlor	15.5083	5.0	16.6667		93.0	18 - 138			
Methoxychlor [2C]	17.3583	5.0	16.6667		104	18 - 138			
Surrogate: Decachlorobiphenyl	*13.35*		*16.6667*		*80.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.31*		*16.6667*		*91.9*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.90*		*16.6667*		*95.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.73*		*16.6667*		*94.4*	*26 - 108*			
Duplicate (B7A0235-DUP1)			**Source: 1604923-24**	Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0235-DUP1) - Continued		**Source: 1604923-24**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*13.94*		*16.6667*		*83.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.40*		*16.6667*		*86.4*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.51*		*16.6667*		*87.0*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.26*		*16.6667*		*85.6*	*26 - 108*			
Matrix Spike (B7A0235-MS1)		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	14.0528	2.0	16.6667	ND	84.3	25 - 141			
4,4´-DDD [2C]	13.9307	2.0	16.6667	ND	83.6	25 - 141			
4,4´-DDE	14.0202	2.0	16.6667	ND	84.1	22 - 141			
4,4´-DDE [2C]	14.2968	2.0	16.6667	ND	85.8	22 - 141			
4,4´-DDT	15.4505	2.0	16.6667	0.138167	91.9	15 - 136			
4,4´-DDT [2C]	15.0303	2.0	16.6667	ND	90.2	15 - 136			
Aldrin	13.4937	1.0	16.6667	ND	81.0	33 - 118			
Aldrin [2C]	13.2385	1.0	16.6667	ND	79.4	33 - 118			
alpha-BHC	12.9687	1.0	16.6667	ND	77.8	30 - 116			
alpha-BHC [2C]	12.9653	1.0	16.6667	ND	77.8	30 - 116			
alpha-Chlordane	13.8957	1.0	16.6667	ND	83.4	30 - 123			
alpha-Chlordane [2C]	14.1163	1.0	16.6667	ND	84.7	30 - 123			
beta-BHC	13.3943	1.0	16.6667	ND	80.4	24 - 121			
beta-BHC [2C]	14.9828	1.0	16.6667	ND	89.9	24 - 121			
delta-BHC	10.8780	1.0	16.6667	ND	65.3	7 - 120			
delta-BHC [2C]	10.6992	1.0	16.6667	ND	64.2	7 - 120			
Dieldrin	14.0132	2.0	16.6667	ND	84.1	25 - 136			
Dieldrin [2C]	14.3260	2.0	16.6667	ND	86.0	25 - 136			
Endosulfan I	13.5922	1.0	16.6667	ND	81.6	18 - 134			
Endosulfan I [2C]	13.7422	1.0	16.6667	ND	82.5	18 - 134			
Endosulfan II	13.5267	2.0	16.6667	ND	81.2	28 - 128			
Endosulfan II [2C]	12.9825	2.0	16.6667	ND	77.9	28 - 128			

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0235-MS1) - Continued		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Endosulfan sulfate	12.2015	2.0	16.6667	ND	73.2	5 - 145			
Endosulfan Sulfate [2C]	11.3387	2.0	16.6667	ND	68.0	5 - 145			
Endrin	15.0877	2.0	16.6667	ND	90.5	26 - 142			
Endrin [2C]	15.2943	2.0	16.6667	ND	91.8	26 - 142			
Endrin aldehyde	12.0353	2.0	16.6667	ND	72.2	8 - 146			
Endrin aldehyde [2C]	10.3398	2.0	16.6667	0.972333	56.2	8 - 146			
Endrin ketone	13.7492	2.0	16.6667	ND	82.5	16 - 139			
Endrin ketone [2C]	12.5023	2.0	16.6667	ND	75.0	16 - 139			
gamma-BHC	13.5023	1.0	16.6667	ND	81.0	30 - 122			
gamma-BHC [2C]	14.0945	1.0	16.6667	ND	84.6	30 - 122			
gamma-Chlordane	13.8968	1.0	16.6667	ND	83.4	18 - 132			
gamma-Chlordane [2C]	13.5228	1.0	16.6667	ND	81.1	18 - 132			
Heptachlor	14.1422	1.0	16.6667	ND	84.9	34 - 122			
Heptachlor [2C]	15.0770	1.0	16.6667	ND	90.5	34 - 122			
Heptachlor epoxide	13.7803	1.0	16.6667	ND	82.7	21 - 135			
Heptachlor epoxide [2C]	13.5130	1.0	16.6667	ND	81.1	21 - 135			
Methoxychlor	14.4827	5.0	16.6667	ND	86.9	8 - 162			
Methoxychlor [2C]	15.4858	5.0	16.6667	ND	92.9	8 - 162			
Surrogate: Decachlorobiphenyl	*12.71*		*16.6667*		*76.3*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*13.43*		*16.6667*		*80.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.44*		*16.6667*		*80.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.35*		*16.6667*		*74.1*	*26 - 108*			
Matrix Spike Dup (B7A0235-MSD1)		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	14.8720	2.0	16.6667	ND	89.2	25 - 141	5.66	20	
4,4´-DDD [2C]	14.9143	2.0	16.6667	ND	89.5	25 - 141	6.82	20	
4,4´-DDE	14.8193	2.0	16.6667	ND	88.9	22 - 141	5.54	20	
4,4´-DDE [2C]	15.1058	2.0	16.6667	ND	90.6	22 - 141	5.50	20	
4,4´-DDT	16.4155	2.0	16.6667	0.138167	97.7	15 - 136	6.06	20	
4,4´-DDT [2C]	16.1050	2.0	16.6667	ND	96.6	15 - 136	6.90	20	
Aldrin	14.3140	1.0	16.6667	ND	85.9	33 - 118	5.90	20	
Aldrin [2C]	13.8848	1.0	16.6667	ND	83.3	33 - 118	4.77	20	
alpha-BHC	13.6773	1.0	16.6667	ND	82.1	30 - 116	5.32	20	
alpha-BHC [2C]	12.0700	1.0	16.6667	ND	72.4	30 - 116	7.15	20	
alpha-Chlordane	14.7240	1.0	16.6667	ND	88.3	30 - 123	5.79	20	
alpha-Chlordane [2C]	15.0107	1.0	16.6667	ND	90.1	30 - 123	6.14	20	
beta-BHC	14.3872	1.0	16.6667	ND	86.3	24 - 121	7.15	20	
beta-BHC [2C]	15.7337	1.0	16.6667	ND	94.4	24 - 121	4.89	20	
delta-BHC	11.7675	1.0	16.6667	ND	70.6	7 - 120	7.86	20	
delta-BHC [2C]	11.3860	1.0	16.6667	ND	68.3	7 - 120	6.22	20	
Dieldrin	14.9005	2.0	16.6667	ND	89.4	25 - 136	6.14	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0235-MSD1) - Continued		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Dieldrin [2C]	15.4423	2.0	16.6667	ND	92.7	25 - 136	7.50	20	
Endosulfan I	14.3933	1.0	16.6667	ND	86.4	18 - 134	5.73	20	
Endosulfan I [2C]	14.5747	1.0	16.6667	ND	87.4	18 - 134	5.88	20	
Endosulfan II	14.4977	2.0	16.6667	ND	87.0	28 - 128	6.93	20	
Endosulfan II [2C]	14.0500	2.0	16.6667	ND	84.3	28 - 128	7.90	20	
Endosulfan sulfate	13.3382	2.0	16.6667	ND	80.0	5 - 145	8.90	20	
Endosulfan Sulfate [2C]	12.5287	2.0	16.6667	ND	75.2	5 - 145	9.97	20	
Endrin	16.0502	2.0	16.6667	ND	96.3	26 - 142	6.18	20	
Endrin [2C]	16.4527	2.0	16.6667	ND	98.7	26 - 142	7.30	20	
Endrin aldehyde	13.0098	2.0	16.6667	ND	78.1	8 - 146	7.78	20	
Endrin aldehyde [2C]	11.2865	2.0	16.6667	0.972333	61.9	8 - 146	8.75	20	
Endrin ketone	14.9242	2.0	16.6667	ND	89.5	16 - 139	8.20	20	
Endrin ketone [2C]	14.4995	2.0	16.6667	ND	87.0	16 - 139	14.8	20	
gamma-BHC	14.4122	1.0	16.6667	ND	86.5	30 - 122	6.52	20	
gamma-BHC [2C]	14.8083	1.0	16.6667	ND	88.8	30 - 122	4.94	20	
gamma-Chlordane	14.5275	1.0	16.6667	ND	87.2	18 - 132	4.44	20	
gamma-Chlordane [2C]	14.2185	1.0	16.6667	ND	85.3	18 - 132	5.02	20	
Heptachlor	15.0220	1.0	16.6667	ND	90.1	34 - 122	6.03	20	
Heptachlor [2C]	15.6960	1.0	16.6667	ND	94.2	34 - 122	4.02	20	
Heptachlor epoxide	14.5797	1.0	16.6667	ND	87.5	21 - 135	5.64	20	
Heptachlor epoxide [2C]	14.2523	1.0	16.6667	ND	85.5	21 - 135	5.33	20	
Methoxychlor	15.6263	5.0	16.6667	ND	93.8	8 - 162	7.60	20	
Methoxychlor [2C]	16.7373	5.0	16.6667	ND	100	8 - 162	7.77	20	
Surrogate: Decachlorobiphenyl	*14.24*		*16.6667*		*85.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.05*		*16.6667*		*84.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.19*		*16.6667*		*85.2*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.97*		*16.6667*		*77.8*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0217 - GCSEMI_PCB/PEST_S									
Blank (B7A0217-BLK1)				Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	ND	16			NR				
Aroclor 1221	ND	16			NR				
Aroclor 1232	ND	16			NR				
Aroclor 1242	ND	16			NR				
Aroclor 1248	ND	16			NR				
Aroclor 1254	ND	16			NR				
Aroclor 1260	ND	16			NR				
Aroclor 1262	ND	16			NR				
Aroclor 1268	ND	16			NR				
Surrogate: Decachlorobiphenyl	*15.94*		*16.6667*		*95.7*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.85*		*16.6667*		*107*	*28 - 102*			S1
LCS (B7A0217-BS1)				Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	160.662	16	166.667		96.4	70 - 107			
Aroclor 1260	176.765	16	166.667		106	69 - 120			
Surrogate: Decachlorobiphenyl	*15.69*		*16.6667*		*94.2*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.13*		*16.6667*		*103*	*28 - 102*			S12
Duplicate (B7A0217-DUP1)		**Source: 1604921-32**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	ND	16		ND	NR			20	
Aroclor 1260	ND	16		ND	NR			20	
Surrogate: Decachlorobiphenyl	*15.69*		*16.6667*		*94.1*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*16.86*		*16.6667*		*101*	*28 - 102*			
Matrix Spike (B7A0217-MS1)		**Source: 1604923-11**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	177.864	16	166.667	ND	107	34 - 120			
Aroclor 1260	196.301	16	166.667	ND	118	39 - 128			
Surrogate: Decachlorobiphenyl	*16.90*		*16.6667*		*101*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*18.34*		*16.6667*		*110*	*28 - 102*			S12
Matrix Spike Dup (B7A0217-MSD1)		**Source: 1604923-11**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	170.224	16	166.667	ND	102	34 - 120	4.39	20	
Aroclor 1260	188.448	16	166.667	ND	113	39 - 128	4.08	20	
Surrogate: Decachlorobiphenyl	*16.27*		*16.6667*		*97.6*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.68*		*16.6667*		*106*	*28 - 102*			S12

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Notes and Definitions

S12	Surrogate recovery outside in-house established limit but within method default criteria.
S1	Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D5	Sample diluted due to failing internal standard in the original run.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 3

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton Consulting, Inc. (LCI) — Address: 17781 Cowan — City: Irvine — State: CA — Zip: 92614 — Tel: 949-250-1121 — Fax: 949-250-1114

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Julie Hamman — Email: jhamman@leightongroup.com	Attn: Accounts Payable — Email: acctpayable@leightongroup.com
Company: LCI	Company: Leighton
Address: 17781 Cowan	Address: 17781 Cowan
City: Irvine — State: CA — Zip: 92614	City: Irvine — State: CA — Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS
Project No.: 603378.CCL
Sampler: W. Scarnes
Quote No: —
PO #: —
Special Instructions/Comments: Standard TAT

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Cd/Pb/Cr/As/Ni	Cd/Pb/Cr/Ni	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1605923 - 1	FB4-4-0.5	12-29-16	0800					X	X			X	X	X					5	1	5	1	1	
2	-2	FB4-4-1.5		0801					X				X	X						5					
3	-3	FB4-4-2.5		0802					X				X	X						5					COB 12-29 HOLD
4	-4	FB4-1-0.5		0810					X				X	X						5					
5	-5	FB4-1-1.5		0814					X				X	X						5					Lab SR 12-29
6	-6	FB4-1-2.5		0812					X				X	X						5					HOLD
7	-7	FB4-3-0.5		0813					X				X	X						5					
8	-8	FB4-3-1.5 Lab SR 12-29-16		0814					X				X	X						5					
9	-9	FB4-3-2.5		0815					X				X	X						5					
10	-10	FB4-1-0.5		0825					X				X	X						5					

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Container Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3
Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformated report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scarnes — Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scarnes	12-29-16	1620		12/29/16	1620
	12/29/16	1815	FEDEX	12/29/16	1815
	Date:	Time:		Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 3

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:

Address:

City: State: Zip:

Tel:

Fax:

SEND REPORT TO:

Attn: Email:

Company:

Address: See Page #1

City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO

Attn: Email:

Company:

Address:

City: State: Zip:

PROJECT SAMPLES

Project Name:

Project No.:

Sampler:

Quote No:

PO #:

Special Instructions/Comments:

| ITEM | Lab No. | Sample Description: Sample ID / Location | Date | Time | 8260 / 624 (Volatiles) | 8015(GRO) | 8015(DRO) | 8270(Semi-volatiles) | 8081(Organochlorine Pesticides) | 8082(PCBs) | 6010 / 7000(Title 22 Metals) | TO-15 | Lead/Arsenic | Lead/Lead | | | | |

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 3

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:

City: | State: | Zip: | Fax:

SEND REPORT TO:

Attn: | Email:

Company:

Address: See Page #1

City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO

Attn: | Email:

Company:

Address:

City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:

Project No.: | PO #:

Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010/7000 Arsenic	6010/7000 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (AcO)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1C04923 -21	FB9-2-2.5	12-29-16	0900					X				X	X	X					5	1	5	1	1	
2	-22	FB9-3-0.5	↓	0905					X	X			X	X	X					5	1	5	1	1	
3	-23	FB9-3-1.5		0910					X				X	X	X					5	1	5	1	1	
4	-24	FB9-3-2.5		0915					X				X	X	X					5	1	5	1	1	
5																									
6																									
7																									
8																									
9																									
10																									

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS & CONDITIONS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name ⟷ Signature (Wallace Stowers)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Stowers	12-29-16	1620		12/29/16	1620
	12/29/16	1815	Fedex	12/29/16	1815

ADVANCED TECHNOLOGY LABORATORIES

January 20, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1604923
Client Reference : Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on December 29, 2016 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	01/20/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB4-1-1.5	1604923-05	Soil	12/29/16 8:11	12/29/16 16:20
FB4-3-0.5	1604923-07	Soil	12/29/16 8:13	12/29/16 16:20
FB9-1-0.5	1604923-10	Soil	12/29/16 8:25	12/29/16 16:20
FB4-2-1.5	1604923-14	Soil	12/29/16 8:36	12/29/16 16:20
FB9-4-0.5	1604923-16	Soil	12/29/16 8:45	12/29/16 16:20
FB9-4-1.5	1604923-17	Soil	12/29/16 8:46	12/29/16 16:20
FB9-3-0.5	1604923-22	Soil	12/29/16 9:05	12/29/16 16:20

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID FB4-1-1.5

Lab ID: 1604923-05

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.8**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:35	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID FB4-3-0.5

Lab ID: 1604923-07

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.0**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:36	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID FB9-1-0.5

Lab ID: 1604923-10

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.2**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 16:09	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID FB4-2-1.5

Lab ID: 1604923-14

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.3**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:41	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	01/20/2017

Client Sample ID FB9-4-0.5

Lab ID: 1604923-16

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.2**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:43	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID FB9-4-1.5

Lab ID: 1604923-17

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.14**	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:22	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.7**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:44	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID FB9-3-0.5

Lab ID: 1604923-22

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.9**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:48	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0565 - EPA 3010A_S									
Blank (B7A0565-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	0.050			NR				
Blank (B7A0565-BLK2)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	0.050			NR				
LCS (B7A0565-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	1.00048	0.050	1.00000		100	80 - 120			
Duplicate (B7A0565-DUP1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	0.033328	0.25		0.042393	NR		23.9	20	R, J
Duplicate (B7A0565-DUP2)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	0.111112	0.25		0.136256	NR		20.3	20	R, J
Matrix Spike (B7A0565-MS1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.36348	0.25	2.50000	0.042393	92.8	78 - 109			
Matrix Spike (B7A0565-MS2)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.47318	0.25	2.50000	0.136256	93.5	78 - 109			
Matrix Spike Dup (B7A0565-MSD1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.29686	0.25	2.50000	0.042393	90.2	78 - 109	2.86	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0562 - STLC_S Extraction									
Blank (B7A0562-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	1.0			NR				
Blank (B7A0562-BLK2)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	1.0			NR				
LCS (B7A0562-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	1.95830		2.00000		97.9	80 - 120			
Duplicate (B7A0562-DUP1)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	7.36136	1.0		6.66843	NR		9.88	20	
Duplicate (B7A0562-DUP2)		**Source: 1700068-16**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	1.54080	1.0		1.54702	NR		0.403	20	
Matrix Spike (B7A0562-MS1)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	8.64934		2.50000	6.66843	79.2	44 - 130			
Matrix Spike (B7A0562-MS2)		**Source: 1700068-16**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	3.83305		2.50000	1.54702	91.4	44 - 130			
Matrix Spike Dup (B7A0562-MSD1)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	8.89759		2.50000	6.66843	89.2	44 - 130	2.83	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, January 13, 2017 11:49 AM
To: Rachelle Arada
Cc: Robert Lovdahl
Subject: Burroughs MS Samples

Rachelle:

Please run soil samples that exceeded 50 mg/kg TTLC-lead for STLC-lead.
Please run soil samples that exceeded 100 mg/kg TTLC-lead for TCLP-lead.

There are approximately 34 samples affected. Do you need me to list all the samples?

Thank you,

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

ADVANCED TECHNOLOGY LABORATORIES

January 11, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1700026
Client Reference : Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on January 03, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EQB-1-03-17	1700026-01	Water	1/03/17 16:00	1/03/17 18:35

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID EQB-1-03-17

Lab ID: 1700026-01

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	0.010	0.0067	1	B7A0165	01/06/2017	01/09/17 13:30	
Lead	ND	0.0050	0.0028	1	B7A0165	01/06/2017	01/09/17 13:30	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	0.05	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
4,4´-DDE	ND	0.05	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
4,4´-DDT	ND	0.05	0.004	1	B7A0146	01/06/2017	01/07/17 13:02	
Aldrin	ND	0.02	0.004	1	B7A0146	01/06/2017	01/07/17 13:02	
alpha-BHC	ND	0.02	0.004	1	B7A0146	01/06/2017	01/07/17 13:02	
alpha-Chlordane	ND	0.02	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
beta-BHC	ND	0.02	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
Chlordane	ND	0.25	0.03	1	B7A0146	01/06/2017	01/07/17 13:02	
delta-BHC	ND	0.02	0.004	1	B7A0146	01/06/2017	01/07/17 13:02	
Dieldrin	ND	0.05	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
Endosulfan I	ND	0.02	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
Endosulfan II	ND	0.05	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
Endosulfan sulfate	ND	0.05	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
Endrin	ND	0.05	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
Endrin aldehyde	ND	0.05	0.006	1	B7A0146	01/06/2017	01/07/17 13:02	
Endrin ketone	ND	0.05	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
gamma-BHC	ND	0.02	0.004	1	B7A0146	01/06/2017	01/07/17 13:02	
gamma-Chlordane	ND	0.02	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
Heptachlor	ND	0.02	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
Heptachlor epoxide	ND	0.02	0.005	1	B7A0146	01/06/2017	01/07/17 13:02	
Methoxychlor	ND	0.25	0.004	1	B7A0146	01/06/2017	01/07/17 13:02	
Toxaphene	ND	2.5	0.23	1	B7A0146	01/06/2017	01/07/17 13:02	
Surrogate: Decachlorobiphenyl	*78.5 %*	*7 - 127*			B7A0146	01/06/2017	*01/07/17 13:02*	
Surrogate: Tetrachloro-m-xylene	*73.8 %*	*14 - 122*			B7A0146	01/06/2017	*01/07/17 13:02*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Client Sample ID EQB-1-03-17

Lab ID: 1700026-01

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	0.50	0.06	1	B7A0146	01/06/2017	01/06/17 16:35	
Aroclor 1221	ND	1.0	0.06	1	B7A0146	01/06/2017	01/06/17 16:35	
Aroclor 1232	ND	0.50	0.06	1	B7A0146	01/06/2017	01/06/17 16:35	
Aroclor 1242	ND	0.50	0.06	1	B7A0146	01/06/2017	01/06/17 16:35	
Aroclor 1248	ND	0.50	0.06	1	B7A0146	01/06/2017	01/06/17 16:35	
Aroclor 1254	ND	0.50	0.06	1	B7A0146	01/06/2017	01/06/17 16:35	
Aroclor 1260	ND	0.50	0.06	1	B7A0146	01/06/2017	01/06/17 16:35	
Aroclor 1262	ND	0.50	0.06	1	B7A0146	01/06/2017	01/06/17 16:35	
Aroclor 1268	ND	0.50	0.06	1	B7A0146	01/06/2017	01/06/17 16:35	
Surrogate: Decachlorobiphenyl	*83.0 %*	*7 - 127*			B7A0146	01/06/2017	*01/06/17 16:35*	
Surrogate: Tetrachloro-m-xylene	*83.3 %*	*14 - 122*			B7A0146	01/06/2017	*01/06/17 16:35*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0165 - EPA 3010A_W									
Blank (B7A0165-BLK1)				Prepared: 1/6/2017 Analyzed: 1/9/2017					
Arsenic	ND	0.010			NR				
Lead	ND	0.0050			NR				
LCS (B7A0165-BS1)				Prepared: 1/6/2017 Analyzed: 1/9/2017					
Arsenic	0.931121	0.010	1.00000		93.1	80 - 120			
Lead	0.988818	0.0050	1.00000		98.9	80 - 120			
Duplicate (B7A0165-DUP1)		**Source: 1604921-88**		Prepared: 1/6/2017 Analyzed: 1/9/2017					
Arsenic	ND	0.010		ND	NR			20	
Lead	ND	0.0050		ND	NR			20	
Matrix Spike (B7A0165-MS1)		**Source: 1604921-88**		Prepared: 1/6/2017 Analyzed: 1/9/2017					
Arsenic	2.33699	0.010	2.50000	ND	93.5	74 - 123			
Lead	2.44334	0.0050	2.50000	ND	97.7	78 - 109			
Matrix Spike Dup (B7A0165-MSD1)		**Source: 1604921-88**		Prepared: 1/6/2017 Analyzed: 1/9/2017					
Arsenic	2.29142	0.010	2.50000	ND	91.7	74 - 123	1.97	20	
Lead	2.39762	0.0050	2.50000	ND	95.9	78 - 109	1.89	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0146 - GCSEMI_PCB/PEST_W									
Blank (B7A0146-BLK1)				Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	ND	0.05			NR				
4,4´-DDD [2C]	ND	0.05			NR				
4,4´-DDE	ND	0.05			NR				
4,4´-DDE [2C]	ND	0.05			NR				
4,4´-DDT	ND	0.05			NR				
4,4´-DDT [2C]	ND	0.05			NR				
Aldrin	ND	0.02			NR				
Aldrin [2C]	ND	0.02			NR				
alpha-BHC	ND	0.02			NR				
alpha-BHC [2C]	ND	0.02			NR				
alpha-Chlordane	ND	0.02			NR				
alpha-Chlordane [2C]	ND	0.02			NR				
beta-BHC	ND	0.02			NR				
beta-BHC [2C]	ND	0.02			NR				
Chlordane	ND	0.25			NR				
Chlordane [2C]	ND	0.25			NR				
delta-BHC	ND	0.02			NR				
delta-BHC [2C]	ND	0.02			NR				
Dieldrin	ND	0.05			NR				
Dieldrin [2C]	ND	0.05			NR				
Endosulfan I	ND	0.02			NR				
Endosulfan I [2C]	ND	0.02			NR				
Endosulfan II	ND	0.05			NR				
Endosulfan II [2C]	ND	0.05			NR				
Endosulfan sulfate	ND	0.05			NR				
Endosulfan Sulfate [2C]	ND	0.05			NR				
Endrin	ND	0.05			NR				
Endrin [2C]	ND	0.05			NR				
Endrin aldehyde	ND	0.05			NR				
Endrin aldehyde [2C]	ND	0.05			NR				
Endrin ketone	ND	0.05			NR				
Endrin ketone [2C]	ND	0.05			NR				
gamma-BHC	ND	0.02			NR				
gamma-BHC [2C]	ND	0.02			NR				
gamma-Chlordane	ND	0.02			NR				
gamma-Chlordane [2C]	ND	0.02			NR				
Heptachlor	ND	0.02			NR				
Heptachlor [2C]	ND	0.02			NR				
Heptachlor epoxide	ND	0.02			NR				
Heptachlor epoxide [2C]	ND	0.02			NR				
Methoxychlor	ND	0.25			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0146 - GCSEMI_PCB/PEST_W (continued)									
Blank (B7A0146-BLK1) - Continued				Prepared: 1/6/2017 Analyzed: 1/7/2017					
Methoxychlor [2C]	ND	0.25			NR				
Toxaphene	ND	2.5			NR				
Toxaphene [2C]	ND	2.5			NR				
Surrogate: Decachlorobiphenyl	*0.2902*		*0.500000*		*58.0*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.3070*		*0.500000*		*61.4*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.2925*		*0.500000*		*58.5*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3107*		*0.500000*		*62.1*	*14 - 122*			
LCS (B7A0146-BS1)				Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	0.409350	0.05	0.500000		81.9	59 - 109			
4,4´-DDD [2C]	0.401880	0.05	0.500000		80.4	59 - 109			
4,4´-DDE	0.362605	0.05	0.500000		72.5	63 - 101			
4,4´-DDE [2C]	0.354520	0.05	0.500000		70.9	63 - 101			
4,4´-DDT	0.346080	0.05	0.500000		69.2	36 - 96			
4,4´-DDT [2C]	0.322585	0.05	0.500000		64.5	36 - 96			
Aldrin	0.363160	0.02	0.500000		72.6	64 - 96			
Aldrin [2C]	0.358190	0.02	0.500000		71.6	64 - 96			
alpha-BHC	0.392880	0.02	0.500000		78.6	63 - 92			
alpha-BHC [2C]	0.393805	0.02	0.500000		78.8	63 - 92			
alpha-Chlordane	0.383590	0.02	0.500000		76.7	63 - 101			
alpha-Chlordane [2C]	0.370335	0.02	0.500000		74.1	63 - 101			
beta-BHC	0.403825	0.02	0.500000		80.8	58 - 95			
beta-BHC [2C]	0.396550	0.02	0.500000		79.3	58 - 95			
delta-BHC	0.324170	0.02	0.500000		64.8	37 - 107			
delta-BHC [2C]	0.328535	0.02	0.500000		65.7	37 - 107			
Dieldrin	0.416745	0.05	0.500000		83.3	62 - 102			
Dieldrin [2C]	0.400660	0.05	0.500000		80.1	62 - 102			
Endosulfan I	0.397040	0.02	0.500000		79.4	61 - 97			
Endosulfan I [2C]	0.379680	0.02	0.500000		75.9	61 - 97			
Endosulfan II	0.412520	0.05	0.500000		82.5	61 - 103			
Endosulfan II [2C]	0.397685	0.05	0.500000		79.5	61 - 103			
Endosulfan sulfate	0.393300	0.05	0.500000		78.7	60 - 112			
Endosulfan Sulfate [2C]	0.392990	0.05	0.500000		78.6	60 - 112			
Endrin	0.441475	0.05	0.500000		88.3	62 - 103			
Endrin [2C]	0.429035	0.05	0.500000		85.8	62 - 103			
Endrin aldehyde	0.428920	0.05	0.500000		85.8	64 - 116			
Endrin aldehyde [2C]	0.414205	0.05	0.500000		82.8	64 - 116			
Endrin ketone	0.411255	0.05	0.500000		82.3	56 - 113			
Endrin ketone [2C]	0.411140	0.05	0.500000		82.2	56 - 113			
gamma-BHC	0.415215	0.02	0.500000		83.0	64 - 95			
gamma-BHC [2C]	0.410380	0.02	0.500000		82.1	64 - 95			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0146 - GCSEMI_PCB/PEST_W (continued)									
LCS (B7A0146-BS1) - Continued				Prepared: 1/6/2017 Analyzed: 1/7/2017					
gamma-Chlordane	0.373290	0.02	0.500000		74.7	64 - 99			
gamma-Chlordane [2C]	0.363165	0.02	0.500000		72.6	64 - 99			
Heptachlor	0.380640	0.02	0.500000		76.1	64 - 93			
Heptachlor [2C]	0.368960	0.02	0.500000		73.8	64 - 93			
Heptachlor epoxide	0.392000	0.02	0.500000		78.4	65 - 98			
Heptachlor epoxide [2C]	0.380100	0.02	0.500000		76.0	65 - 98			
Methoxychlor	0.373910	0.25	0.500000		74.8	0 - 141			
Methoxychlor [2C]	0.366210	0.25	0.500000		73.2	0 - 141			
Surrogate: Decachlorobiphenyl	*0.3680*		*0.500000*		*73.6*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.3958*		*0.500000*		*79.2*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.3887*		*0.500000*		*77.7*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.4276*		*0.500000*		*85.5*	*14 - 122*			
LCS Dup (B7A0146-BSD1)				Prepared: 1/6/2017 Analyzed: 1/7/2017					
4,4´-DDD	0.429390	0.05	0.500000		85.9	59 - 109	4.78	20	
4,4´-DDD [2C]	0.429570	0.05	0.500000		85.9	59 - 109	6.66	20	
4,4´-DDE	0.383055	0.05	0.500000		76.6	63 - 101	5.49	20	
4,4´-DDE [2C]	0.382800	0.05	0.500000		76.6	63 - 101	7.67	20	
4,4´-DDT	0.361085	0.05	0.500000		72.2	36 - 96	4.24	20	
4,4´-DDT [2C]	0.341135	0.05	0.500000		68.2	36 - 96	5.59	20	
Aldrin	0.388725	0.02	0.500000		77.7	64 - 96	6.80	20	
Aldrin [2C]	0.391270	0.02	0.500000		78.3	64 - 96	8.83	20	
alpha-BHC	0.434245	0.02	0.500000		86.8	63 - 92	10.0	20	
alpha-BHC [2C]	0.442675	0.02	0.500000		88.5	63 - 92	11.7	20	
alpha-Chlordane	0.404710	0.02	0.500000		80.9	63 - 101	5.36	20	
alpha-Chlordane [2C]	0.399915	0.02	0.500000		80.0	63 - 101	7.68	20	
beta-BHC	0.444010	0.02	0.500000		88.8	58 - 95	9.48	20	
beta-BHC [2C]	0.446845	0.02	0.500000		89.4	58 - 95	11.9	20	
delta-BHC	0.353875	0.02	0.500000		70.8	37 - 107	8.76	20	
delta-BHC [2C]	0.365465	0.02	0.500000		73.1	37 - 107	10.6	20	
Dieldrin	0.437995	0.05	0.500000		87.6	62 - 102	4.97	20	
Dieldrin [2C]	0.429590	0.05	0.500000		85.9	62 - 102	6.97	20	
Endosulfan I	0.419990	0.02	0.500000		84.0	61 - 97	5.62	20	
Endosulfan I [2C]	0.411120	0.02	0.500000		82.2	61 - 97	7.95	20	
Endosulfan II	0.434150	0.05	0.500000		86.8	61 - 103	5.11	20	
Endosulfan II [2C]	0.425250	0.05	0.500000		85.0	61 - 103	6.70	20	
Endosulfan sulfate	0.424555	0.05	0.500000		84.9	60 - 112	7.64	20	
Endosulfan Sulfate [2C]	0.420165	0.05	0.500000		84.0	60 - 112	6.68	20	
Endrin	0.463145	0.05	0.500000		92.6	62 - 103	4.79	20	
Endrin [2C]	0.457440	0.05	0.500000		91.5	62 - 103	6.41	20	
Endrin aldehyde	0.469805	0.05	0.500000		94.0	64 - 116	9.10	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0146 - GCSEMI_PCB/PEST_W (continued)									
LCS Dup (B7A0146-BSD1) - Continued				Prepared: 1/6/2017 Analyzed: 1/7/2017					
Endrin aldehyde [2C]	0.457725	0.05	0.500000		91.5	64 - 116	9.98	20	
Endrin ketone	0.455195	0.05	0.500000		91.0	56 - 113	10.1	20	
Endrin ketone [2C]	0.441920	0.05	0.500000		88.4	56 - 113	7.22	20	
gamma-BHC	0.457520	0.02	0.500000		91.5	64 - 95	9.69	20	
gamma-BHC [2C]	0.459525	0.02	0.500000		91.9	64 - 95	11.3	20	
gamma-Chlordane	0.393815	0.02	0.500000		78.8	64 - 99	5.35	20	
gamma-Chlordane [2C]	0.392650	0.02	0.500000		78.5	64 - 99	7.80	20	
Heptachlor	0.405490	0.02	0.500000		81.1	64 - 93	6.32	20	
Heptachlor [2C]	0.400115	0.02	0.500000		80.0	64 - 93	8.10	20	
Heptachlor epoxide	0.414350	0.02	0.500000		82.9	65 - 98	5.54	20	
Heptachlor epoxide [2C]	0.410065	0.02	0.500000		82.0	65 - 98	7.58	20	
Methoxychlor	0.398795	0.25	0.500000		79.8	0 - 141	6.44	20	
Methoxychlor [2C]	0.381615	0.25	0.500000		76.3	0 - 141	4.12	20	
Surrogate: Decachlorobiphenyl	*0.3766*		*0.500000*		*75.3*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.4092*		*0.500000*		*81.8*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.4127*		*0.500000*		*82.5*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.4678*		*0.500000*		*93.6*	*14 - 122*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0146 - GCSEMI_PCB/PEST_W									
Blank (B7A0146-BLK2)					Prepared: 1/6/2017 Analyzed: 1/6/2017				
Aroclor 1016	ND	0.50			NR				
Aroclor 1221	ND	1.0			NR				
Aroclor 1232	ND	0.50			NR				
Aroclor 1242	ND	0.50			NR				
Aroclor 1248	ND	0.50			NR				
Aroclor 1254	ND	0.50			NR				
Aroclor 1260	ND	0.50			NR				
Aroclor 1262	ND	0.50			NR				
Aroclor 1268	ND	0.50			NR				
Surrogate: Decachlorobiphenyl	*0.3228*		*0.500000*		*64.6*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.3479*		*0.500000*		*69.6*	*14 - 122*			
LCS (B7A0146-BS2)					Prepared: 1/6/2017 Analyzed: 1/6/2017				
Aroclor 1016	4.31393	0.50	5.00000		86.3	68 - 96			
Aroclor 1260	4.04206	0.50	5.00000		80.8	64 - 106			
Surrogate: Decachlorobiphenyl	*0.4578*		*0.500000*		*91.6*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.4944*		*0.500000*		*98.9*	*14 - 122*			
LCS Dup (B7A0146-BSD2)					Prepared: 1/6/2017 Analyzed: 1/6/2017				
Aroclor 1016	4.13589	0.50	5.00000		82.7	68 - 96	4.21	20	
Aroclor 1260	3.84620	0.50	5.00000		76.9	64 - 106	4.97	20	
Surrogate: Decachlorobiphenyl	*0.4138*		*0.500000*		*82.8*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.4788*		*0.500000*		*95.8*	*14 - 122*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/11/2017

Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☑	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	5.7	
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc (LCI)
Address: 17781 Cowan
Tel: 949-250-1471
City: Irvine State: CA Zip: 92614 Fax: 949-250-1114

SEND REPORT TO:
Attn: Julie Hamman Email: jhamman@leightongroup.com
Company: Leighton (LCI)
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: acctpayable@leightongroup.com
Company: Leighton
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS
Project No.: 605378.006
Sampler: W. Scomas
Quote No: —
PO #: —
Special Instructions/Comments:

Encircle or Write Requested Analysis

| ITEM | Lab No. | Sample ID / Location | Date | Time | 8260 / 624 (Volatiles) | 8015(GRO) | 8015(DRO) | 8270(Semi-volatiles) | 8081(Organochlorine Pesticides) | 8082(PCBs) | 6010 / 7000(Title 22 Metals) | TO-15 | LUFT/TCLP Arsenic | LUFT/TCLP Lead | SCIS (DRO) | 8081 COCs | | |

ADVANCED TECHNOLOGY LABORATORIES

January 05, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

RE: ATL Work Order Number : 1700026
Client Reference : Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on January, 3 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRUM-LIQUID	1700026-03	Water	1/03/17 16:10	1/03/17 18:35

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Client Sample ID DRUM-LIQUID
Lab ID: 1700026-03

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	**0.0066**	0.010	0.0021	1	B7A0054	01/04/2017	01/04/17 15:19	J
Arsenic	ND	0.010	0.0067	1	B7A0054	01/04/2017	01/04/17 15:19	
Barium	**0.20**	0.0030	0.0008	1	B7A0054	01/04/2017	01/04/17 15:19	
Beryllium	ND	0.0030	0.0004	1	B7A0054	01/04/2017	01/04/17 15:19	
Cadmium	**0.0079**	0.0030	0.0002	1	B7A0054	01/04/2017	01/04/17 15:19	
Chromium	**0.051**	0.0030	0.0016	1	B7A0054	01/04/2017	01/04/17 15:19	
Cobalt	**0.030**	0.0030	0.0007	1	B7A0054	01/04/2017	01/04/17 15:19	
Copper	**0.37**	0.0090	0.0023	1	B7A0054	01/04/2017	01/04/17 15:19	
Lead	**0.11**	0.0050	0.0028	1	B7A0054	01/04/2017	01/04/17 15:19	
Molybdenum	**0.026**	0.0050	0.0007	1	B7A0054	01/04/2017	01/04/17 15:19	
Nickel	**0.062**	0.0050	0.0024	1	B7A0054	01/04/2017	01/04/17 15:19	
Selenium	**0.018**	0.010	0.0034	1	B7A0054	01/04/2017	01/04/17 15:19	
Silver	ND	0.0030	0.0006	1	B7A0054	01/04/2017	01/04/17 15:19	
Thallium	**0.0048**	0.015	0.0026	1	B7A0054	01/04/2017	01/04/17 15:19	J
Vanadium	**0.020**	0.0030	0.0011	1	B7A0054	01/04/2017	01/04/17 15:19	
Zinc	**2.6**	0.025	0.0021	1	B7A0054	01/04/2017	01/04/17 15:19	

Mercury by AA (Cold Vapor) EPA 7470A

Analyst: SB

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.20	0.13	1	B7A0073	01/04/2017	01/04/17 14:17	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	0.05	0.05	1	B7A0048	01/04/2017	01/04/17 10:55	
Surrogate: 4-Bromofluorobenzene	*85.8 %*		*70 - 130*		B7A0048	01/04/2017	*01/04/17 10:55*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**0.72**	0.05	0.05	1	B7A0081	01/04/2017	01/05/17 05:45	
ORO	**0.94**	0.05	0.05	1	B7A0081	01/04/2017	01/05/17 05:45	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Client Sample ID DRUM-LIQUID
Lab ID: 1700026-03

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	*5.88 %*	*20 - 150*		B7A0081	01/04/2017	*01/05/17 05:45*	S2

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	0.05	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
4,4´-DDE	ND	0.05	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
4,4´-DDT	ND	0.05	0.004	1	B7A0080	01/04/2017	01/04/17 12:51	
Aldrin	ND	0.02	0.004	1	B7A0080	01/04/2017	01/04/17 12:51	
alpha-BHC	ND	0.02	0.004	1	B7A0080	01/04/2017	01/04/17 12:51	
alpha-Chlordane	ND	0.02	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
beta-BHC	ND	0.02	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
Chlordane	ND	0.25	0.03	1	B7A0080	01/04/2017	01/04/17 12:51	
delta-BHC	ND	0.02	0.004	1	B7A0080	01/04/2017	01/04/17 12:51	
Dieldrin	ND	0.05	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
Endosulfan I	ND	0.02	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
Endosulfan II	ND	0.05	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
Endosulfan sulfate	ND	0.05	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
Endrin	ND	0.05	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
Endrin aldehyde	ND	0.05	0.006	1	B7A0080	01/04/2017	01/04/17 12:51	
Endrin ketone	ND	0.05	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
gamma-BHC	ND	0.02	0.004	1	B7A0080	01/04/2017	01/04/17 12:51	
gamma-Chlordane	ND	0.02	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
Heptachlor	ND	0.02	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
Heptachlor epoxide	ND	0.02	0.005	1	B7A0080	01/04/2017	01/04/17 12:51	
Methoxychlor	ND	0.25	0.004	1	B7A0080	01/04/2017	01/04/17 12:51	
Toxaphene	ND	2.5	0.23	1	B7A0080	01/04/2017	01/04/17 12:51	
Surrogate: Decachlorobiphenyl	*13.6 %*	*7 - 127*		B7A0080	01/04/2017	*01/04/17 12:51*	
Surrogate: Tetrachloro-m-xylene	*17.6 %*	*14 - 122*		B7A0080	01/04/2017	*01/04/17 12:51*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0054 - EPA 3010A_W									
Blank (B7A0054-BLK1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Antimony	ND	0.010			NR				
Arsenic	ND	0.010			NR				
Barium	ND	0.0030			NR				
Beryllium	ND	0.0030			NR				
Cadmium	0.000281	0.0030			NR				J
Chromium	ND	0.0030			NR				
Cobalt	ND	0.0030			NR				
Copper	ND	0.0090			NR				
Lead	ND	0.0050			NR				
Molybdenum	ND	0.0050			NR				
Nickel	ND	0.0050			NR				
Selenium	0.003547	0.010			NR				J
Silver	ND	0.0030			NR				
Thallium	ND	0.015			NR				
Vanadium	ND	0.0030			NR				
Zinc	ND	0.025			NR				
LCS (B7A0054-BS1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Antimony	0.970069	0.010	1.00000		97.0	80 - 120			
Arsenic	0.925434	0.010	1.00000		92.5	80 - 120			
Barium	1.02431	0.0030	1.00000		102	80 - 120			
Beryllium	1.00199	0.0030	1.00000		100	80 - 120			
Cadmium	0.955888	0.0030	1.00000		95.6	80 - 120			
Chromium	1.02174	0.0030	1.00000		102	80 - 120			
Cobalt	0.996666	0.0030	1.00000		99.7	80 - 120			
Copper	1.03134	0.0090	1.00000		103	80 - 120			
Lead	0.975916	0.0050	1.00000		97.6	80 - 120			
Molybdenum	0.979812	0.0050	1.00000		98.0	80 - 120			
Nickel	0.979113	0.0050	1.00000		97.9	80 - 120			
Selenium	0.910172	0.010	1.00000		91.0	80 - 120			
Silver	0.972344	0.0030	1.00000		97.2	80 - 120			
Thallium	0.915371	0.015	1.00000		91.5	80 - 120			
Vanadium	0.989986	0.0030	1.00000		99.0	80 - 120			
Zinc	0.946508	0.025	1.00000		94.7	80 - 120			
Duplicate (B7A0054-DUP1)		**Source: 1604857-GR**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Antimony	ND	0.010		ND	NR			20	
Arsenic	ND	0.010		ND	NR			20	
Barium	ND	0.0030		ND	NR			20	
Beryllium	ND	0.0030		ND	NR			20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0054 - EPA 3010A_W (continued)									
Duplicate (B7A0054-DUP1) - Continued		**Source: 1604857-GR**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Cadmium	1.722E-4	0.0030		0.000215	NR		22.2	20	R, J
Chromium	ND	0.0030		ND	NR			20	
Cobalt	ND	0.0030		ND	NR			20	
Copper	ND	0.0090		ND	NR			20	
Lead	ND	0.0050		ND	NR			20	
Molybdenum	ND	0.0050		0.000755	NR			20	
Nickel	ND	0.0050		ND	NR			20	
Selenium	0.007919	0.010		0.005801	NR		30.9	20	R, J
Silver	ND	0.0030		ND	NR			20	
Thallium	ND	0.015		ND	NR			20	
Vanadium	ND	0.0030		ND	NR			20	
Zinc	ND	0.025		0.003045	NR			20	
Matrix Spike (B7A0054-MS1)		**Source: 1604857-GR**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Antimony	2.34283	0.010	2.50000	ND	93.7	76 - 118			
Arsenic	2.23353	0.010	2.50000	ND	89.3	74 - 123			
Barium	2.46243	0.0030	2.50000	ND	98.5	76 - 117			
Beryllium	2.46242	0.0030	2.50000	ND	98.5	84 - 114			
Cadmium	2.28230	0.0030	2.50000	0.000215	91.3	73 - 115			
Chromium	2.45377	0.0030	2.50000	ND	98.2	76 - 117			
Cobalt	2.42983	0.0030	2.50000	ND	97.2	78 - 113			
Copper	2.50045	0.0090	2.50000	ND	100	70 - 132			
Lead	2.34831	0.0050	2.50000	ND	93.9	78 - 109			
Molybdenum	2.34895	0.0050	2.50000	0.000755	93.9	84 - 111			
Nickel	2.38000	0.0050	2.50000	ND	95.2	66 - 125			
Selenium	2.17739	0.010	2.50000	0.005801	86.9	76 - 117			
Silver	2.34090	0.0030	2.50000	ND	93.6	64 - 133			
Thallium	2.29102	0.015	2.50000	ND	91.6	63 - 118			
Vanadium	2.37285	0.0030	2.50000	ND	94.9	76 - 119			
Zinc	2.26556	0.025	5.00000	0.003045	45.3	56 - 131			M1
Matrix Spike Dup (B7A0054-MSD1)		**Source: 1604857-GR**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Antimony	2.30965	0.010	2.50000	ND	92.4	76 - 118	1.43	20	
Arsenic	2.20399	0.010	2.50000	ND	88.2	74 - 123	1.33	20	
Barium	2.38999	0.0030	2.50000	ND	95.6	76 - 117	2.99	20	
Beryllium	2.33903	0.0030	2.50000	ND	93.6	84 - 114	5.14	20	
Cadmium	2.22341	0.0030	2.50000	0.000215	88.9	73 - 115	2.61	20	
Chromium	2.37788	0.0030	2.50000	ND	95.1	76 - 117	3.14	20	
Cobalt	2.36198	0.0030	2.50000	ND	94.5	78 - 113	2.83	20	
Copper	2.41571	0.0090	2.50000	ND	96.6	70 - 132	3.45	20	
Lead	2.31468	0.0050	2.50000	ND	92.6	78 - 109	1.44	20	
Molybdenum	2.27754	0.0050	2.50000	0.000755	91.1	84 - 111	3.09	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0054 - EPA 3010A_W (continued)									
Matrix Spike Dup (B7A0054-MSD1) - Continued		**Source: 1604857-GR**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Nickel	2.31672	0.0050	2.50000	ND	92.7	66 - 125	2.69	20	
Selenium	2.16037	0.010	2.50000	0.005801	86.2	76 - 117	0.785	20	
Silver	2.23910	0.0030	2.50000	ND	89.6	64 - 133	4.45	20	
Thallium	2.25333	0.015	2.50000	ND	90.1	63 - 118	1.66	20	
Vanadium	2.29355	0.0030	2.50000	ND	91.7	76 - 119	3.40	20	
Zinc	2.21103	0.025	5.00000	0.003045	44.2	56 - 131	2.44	20	M1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Mercury by AA (Cold Vapor) EPA 7470A - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0073 - EPA 245.1/7470_W									
Blank (B7A0073-BLK1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	ND	0.20			NR				
LCS (B7A0073-BS1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	10.2180	0.20	10.0000		102	80 - 120			
Matrix Spike (B7A0073-MS1)		**Source: 1700026-03**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	9.68295	0.20	10.0000	ND	96.8	70 - 130			
Matrix Spike Dup (B7A0073-MSD1)		**Source: 1700026-03**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	9.90261	0.20	10.0000	ND	99.0	70 - 130	2.24	20	
Post Spike (B7A0073-PS1)		**Source: 1700026-03**		Prepared: 1/4/2017 Analyzed: 1/4/2017					
Mercury	5.24149		5.00000	0.107491	103	85 - 115			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0048 - GCVOA_W									
Blank (B7A0048-BLK1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Gasoline Range Organics	ND	0.05			NR				
Surrogate: 4-Bromofluorobenzene	*0.09057*		*0.100000*		*90.6*	*70 - 130*			
LCS (B7A0048-BS1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Gasoline Range Organics	0.918000	0.05	1.00000		91.8	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.09332*		*0.100000*		*93.3*	*70 - 130*			
LCS Dup (B7A0048-BSD1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Gasoline Range Organics	0.914000	0.05	1.00000		91.4	70 - 130	0.437	20	
Surrogate: 4-Bromofluorobenzene	*0.09253*		*0.100000*		*92.5*	*70 - 130*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0081 - GCSEMI_DRO_W									
Blank (B7A0081-BLK1)					Prepared: 1/4/2017 Analyzed: 1/5/2017				
DRO	ND	0.05			NR				
ORO	ND	0.05			NR				
Surrogate: p-Terphenyl	*0.04154*		*8.00000E-2*		*51.9*	*20 - 150*			
LCS (B7A0081-BS1)					Prepared: 1/4/2017 Analyzed: 1/5/2017				
DRO	0.637310	0.05	1.00000		63.7	42 - 142			
Surrogate: p-Terphenyl	*0.03089*		*8.00000E-2*		*38.6*	*20 - 150*			
LCS Dup (B7A0081-BSD1)					Prepared: 1/4/2017 Analyzed: 1/5/2017				
DRO	0.599890	0.05	1.00000		60.0	42 - 142	6.05	20	
Surrogate: p-Terphenyl	*0.02582*		*8.00000E-2*		*32.3*	*20 - 150*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0080 - GCSEMI_PCB/PEST_W									
Blank (B7A0080-BLK1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
4,4´-DDD	ND	0.05			NR				
4,4´-DDD [2C]	ND	0.05			NR				
4,4´-DDE	ND	0.05			NR				
4,4´-DDE [2C]	ND	0.05			NR				
4,4´-DDT	ND	0.05			NR				
4,4´-DDT [2C]	ND	0.05			NR				
Aldrin	ND	0.02			NR				
Aldrin [2C]	ND	0.02			NR				
alpha-BHC	ND	0.02			NR				
alpha-BHC [2C]	ND	0.02			NR				
alpha-Chlordane	ND	0.02			NR				
alpha-Chlordane [2C]	ND	0.02			NR				
beta-BHC	ND	0.02			NR				
beta-BHC [2C]	ND	0.02			NR				
Chlordane	ND	0.25			NR				
Chlordane [2C]	ND	0.25			NR				
delta-BHC	ND	0.02			NR				
delta-BHC [2C]	ND	0.02			NR				
Dieldrin	ND	0.05			NR				
Dieldrin [2C]	ND	0.05			NR				
Endosulfan I	ND	0.02			NR				
Endosulfan I [2C]	ND	0.02			NR				
Endosulfan II	ND	0.05			NR				
Endosulfan II [2C]	ND	0.05			NR				
Endosulfan sulfate	ND	0.05			NR				
Endosulfan Sulfate [2C]	ND	0.05			NR				
Endrin	ND	0.05			NR				
Endrin [2C]	ND	0.05			NR				
Endrin aldehyde	ND	0.05			NR				
Endrin aldehyde [2C]	ND	0.05			NR				
Endrin ketone	ND	0.05			NR				
Endrin ketone [2C]	ND	0.05			NR				
gamma-BHC	ND	0.02			NR				
gamma-BHC [2C]	ND	0.02			NR				
gamma-Chlordane	ND	0.02			NR				
gamma-Chlordane [2C]	ND	0.02			NR				
Heptachlor	ND	0.02			NR				
Heptachlor [2C]	ND	0.02			NR				
Heptachlor epoxide	ND	0.02			NR				
Heptachlor epoxide [2C]	ND	0.02			NR				
Methoxychlor	ND	0.25			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0080 - GCSEMI_PCB/PEST_W (continued)									
Blank (B7A0080-BLK1) - Continued				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Methoxychlor [2C]	ND	0.25			NR				
Toxaphene	ND	2.5			NR				
Toxaphene [2C]	ND	2.5			NR				
Surrogate: Decachlorobiphenyl	*0.2579*		*0.500000*		*51.6*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.4556*		*0.500000*		*91.1*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.2318*		*0.500000*		*46.4*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.2511*		*0.500000*		*50.2*	*14 - 122*			
LCS (B7A0080-BS1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
4,4´-DDD	0.270650	0.05	0.500000		54.1	59 - 109			L2
4,4´-DDD [2C]	0.283970	0.05	0.500000		56.8	59 - 109			L2
4,4´-DDE	0.193125	0.05	0.500000		38.6	63 - 101			L2
4,4´-DDE [2C]	0.173450	0.05	0.500000		34.7	63 - 101			L2
4,4´-DDT	0.142045	0.05	0.500000		28.4	36 - 96			L2
4,4´-DDT [2C]	0.185930	0.05	0.500000		37.2	36 - 96			
Aldrin	0.209990	0.02	0.500000		42.0	64 - 96			L2
Aldrin [2C]	0.200220	0.02	0.500000		40.0	64 - 96			L2
alpha-BHC	0.278590	0.02	0.500000		55.7	63 - 92			L2
alpha-BHC [2C]	0.264955	0.02	0.500000		53.0	63 - 92			L2
alpha-Chlordane	0.209325	0.02	0.500000		41.9	63 - 101			L2
alpha-Chlordane [2C]	0.198535	0.02	0.500000		39.7	63 - 101			L2
beta-BHC	0.261785	0.02	0.500000		52.4	58 - 95			L2
beta-BHC [2C]	0.250315	0.02	0.500000		50.1	58 - 95			L2
delta-BHC	0.216880	0.02	0.500000		43.4	37 - 107			
delta-BHC [2C]	0.200440	0.02	0.500000		40.1	37 - 107			
Dieldrin	0.230430	0.05	0.500000		46.1	62 - 102			L2
Dieldrin [2C]	0.227350	0.05	0.500000		45.5	62 - 102			L2
Endosulfan I	0.224410	0.02	0.500000		44.9	61 - 97			L2
Endosulfan I [2C]	0.221630	0.02	0.500000		44.3	61 - 97			L2
Endosulfan II	0.240370	0.05	0.500000		48.1	61 - 103			L2
Endosulfan II [2C]	0.248510	0.05	0.500000		49.7	61 - 103			L2
Endosulfan sulfate	0.256560	0.05	0.500000		51.3	60 - 112			L2
Endosulfan Sulfate [2C]	0.347835	0.05	0.500000		69.6	60 - 112			
Endrin	0.241780	0.05	0.500000		48.4	62 - 103			L2
Endrin [2C]	0.237355	0.05	0.500000		47.5	62 - 103			L2
Endrin aldehyde	0.288465	0.05	0.500000		57.7	64 - 116			L2
Endrin aldehyde [2C]	0.242575	0.05	0.500000		48.5	64 - 116			L2
Endrin ketone	0.303995	0.05	0.500000		60.8	56 - 113			
Endrin ketone [2C]	0.349925	0.05	0.500000		70.0	56 - 113			
gamma-BHC	0.276515	0.02	0.500000		55.3	64 - 95			L2
gamma-BHC [2C]	0.260730	0.02	0.500000		52.1	64 - 95			L2

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0080 - GCSEMI_PCB/PEST_W (continued)									
LCS (B7A0080-BS1) - Continued				Prepared: 1/4/2017 Analyzed: 1/4/2017					
gamma-Chlordane	0.206740	0.02	0.500000		41.3	64 - 99			L2
gamma-Chlordane [2C]	0.196020	0.02	0.500000		39.2	64 - 99			L2
Heptachlor	0.227035	0.02	0.500000		45.4	64 - 93			L2
Heptachlor [2C]	0.244200	0.02	0.500000		48.8	64 - 93			L2
Heptachlor epoxide	0.228860	0.02	0.500000		45.8	65 - 98			L2
Heptachlor epoxide [2C]	0.227365	0.02	0.500000		45.5	65 - 98			L2
Methoxychlor	0.186200	0.25	0.500000		37.2	0 - 141			J
Methoxychlor [2C]	0.207795	0.25	0.500000		41.6	0 - 141			J
Surrogate: Decachlorobiphenyl	*0.2286*		*0.500000*		*45.7*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.2126*		*0.500000*		*42.5*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.2594*		*0.500000*		*51.9*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.2338*		*0.500000*		*46.8*	*14 - 122*			
LCS Dup (B7A0080-BSD1)				Prepared: 1/4/2017 Analyzed: 1/4/2017					
4,4´-DDD	0.302040	0.05	0.500000		60.4	59 - 109	11.0	20	
4,4´-DDD [2C]	0.319960	0.05	0.500000		64.0	59 - 109	11.9	20	
4,4´-DDE	0.222045	0.05	0.500000		44.4	63 - 101	13.9	20	L2
4,4´-DDE [2C]	0.202310	0.05	0.500000		40.5	63 - 101	15.4	20	L2
4,4´-DDT	0.168460	0.05	0.500000		33.7	36 - 96	17.0	20	L2
4,4´-DDT [2C]	0.196455	0.05	0.500000		39.3	36 - 96	5.50	20	
Aldrin	0.241915	0.02	0.500000		48.4	64 - 96	14.1	20	L2
Aldrin [2C]	0.226430	0.02	0.500000		45.3	64 - 96	12.3	20	L2
alpha-BHC	0.307320	0.02	0.500000		61.5	63 - 92	9.81	20	L2
alpha-BHC [2C]	0.305200	0.02	0.500000		61.0	63 - 92	14.1	20	L2
alpha-Chlordane	0.234320	0.02	0.500000		46.9	63 - 101	11.3	20	L2
alpha-Chlordane [2C]	0.222835	0.02	0.500000		44.6	63 - 101	11.5	20	L2
beta-BHC	0.291925	0.02	0.500000		58.4	58 - 95	10.9	20	
beta-BHC [2C]	0.283865	0.02	0.500000		56.8	58 - 95	12.6	20	L2
delta-BHC	0.240410	0.02	0.500000		48.1	37 - 107	10.3	20	
delta-BHC [2C]	0.218385	0.02	0.500000		43.7	37 - 107	8.57	20	
Dieldrin	0.255620	0.05	0.500000		51.1	62 - 102	10.4	20	L2
Dieldrin [2C]	0.249230	0.05	0.500000		49.8	62 - 102	9.18	20	L2
Endosulfan I	0.244295	0.02	0.500000		48.9	61 - 97	8.49	20	L2
Endosulfan I [2C]	0.243445	0.02	0.500000		48.7	61 - 97	9.38	20	L2
Endosulfan II	0.256135	0.05	0.500000		51.2	61 - 103	6.35	20	L2
Endosulfan II [2C]	0.265230	0.05	0.500000		53.0	61 - 103	6.51	20	L2
Endosulfan sulfate	0.278375	0.05	0.500000		55.7	60 - 112	8.16	20	L2
Endosulfan Sulfate [2C]	0.270705	0.05	0.500000		54.1	60 - 112	24.9	20	L2, R
Endrin	0.265675	0.05	0.500000		53.1	62 - 103	9.42	20	L2
Endrin [2C]	0.264750	0.05	0.500000		53.0	62 - 103	10.9	20	L2
Endrin aldehyde	0.282590	0.05	0.500000		56.5	64 - 116	2.06	20	L2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0080 - GCSEMI_PCB/PEST_W (continued)									
LCS Dup (B7A0080-BSD1) - Continued				Prepared: 1/4/2017 Analyzed: 1/4/2017					
Endrin aldehyde [2C]	0.256900	0.05	0.500000		51.4	64 - 116	5.74	20	L2
Endrin ketone	0.311835	0.05	0.500000		62.4	56 - 113	2.55	20	
Endrin ketone [2C]	0.305885	0.05	0.500000		61.2	56 - 113	13.4	20	
gamma-BHC	0.308735	0.02	0.500000		61.7	64 - 95	11.0	20	L2
gamma-BHC [2C]	0.295175	0.02	0.500000		59.0	64 - 95	12.4	20	L2
gamma-Chlordane	0.232355	0.02	0.500000		46.5	64 - 99	11.7	20	L2
gamma-Chlordane [2C]	0.221625	0.02	0.500000		44.3	64 - 99	12.3	20	L2
Heptachlor	0.256750	0.02	0.500000		51.4	64 - 93	12.3	20	L2
Heptachlor [2C]	0.281430	0.02	0.500000		56.3	64 - 93	14.2	20	L2
Heptachlor epoxide	0.251650	0.02	0.500000		50.3	65 - 98	9.49	20	L2
Heptachlor epoxide [2C]	0.249610	0.02	0.500000		49.9	65 - 98	9.33	20	L2
Methoxychlor	0.206805	0.25	0.500000		41.4	0 - 141	10.5	20	J
Methoxychlor [2C]	0.236285	0.25	0.500000		47.3	0 - 141	12.8	20	J
Surrogate: Decachlorobiphenyl	*0.2541*		*0.500000*		*50.8*	*7 - 127*			
Surrogate: Decachlorobiphenyl [2C]	*0.2302*		*0.500000*		*46.0*	*7 - 127*			
Surrogate: Tetrachloro-m-xylene	*0.2847*		*0.500000*		*56.9*	*14 - 122*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.2600*		*0.500000*		*52.0*	*14 - 122*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/05/2017

Notes and Definitions

S2	Surrogate recovery was below laboratory acceptance limit. Reextraction and/or reanalysisconfirms low recovery caused by matrix effects.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L2	Laboratory control sample outside of acceptance limits. Reextraction and/or reanalysis is not possible due to limited amount of sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☑	6. PRESERVED	☑	☐
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	2.7	
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc (LCI)
Address: 17781 Cowan
Tel: 949-250-1471
City: Irvine State: CA Zip: 92614 Fax: 949-250-1114

SEND REPORT TO:
Attn: Julie Hamman Email: jhamman@leightongroup.com
Company: Leighton (LCI)
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: acctpayable@leightongroup.com
Company: Leighton
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS
Project No.: 603378.006
Sampler: W. Scomas
Quote No: —
PO #: —
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	LUFT/TCLP Arsenic	LUFT/TCLP Lead	SCIS (DRO)	8081 CCRs	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	QA/QC	REMARKS
1	1800026 - 1	EGB-1-03-17	1-3-17	1100					X	X			X	X					X			5	6	2/3	1/2			
2	- 2	DRUM2-SOIL	↓	1605		X	X		X		X				X		X					1	1	5	1	—		Hold
3	- 3	DRUM-LIQUID	↓	1610		X	X		X		X				X	X			X	X		1	4	3/9	1/2			
4										(LUFT)	1-3-17						(LUFT)		1-3-17									
5																												
6																												
7																												
8																												
9																												
10																												

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister — Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scomas — Submitter Print Name
Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scomas	1-3-17	1835	[signature]	1/3/17	1635
[signature]	1-3-17	1935	[signature]	1/3/17	1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

January 12, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

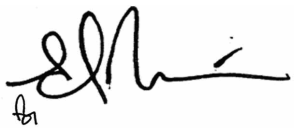
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1700027
Client Reference : Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on January 03, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB22-1-0.5	1700027-01	Soil	1/03/17 7:30	1/03/17 18:35
EB22-1-0.5-D	1700027-02	Soil	1/03/17 7:30	1/03/17 18:35
EB22-1-1.5	1700027-03	Soil	1/03/17 7:32	1/03/17 18:35
EB22-1-1.5-D	1700027-04	Soil	1/03/17 7:32	1/03/17 18:35
EB23-2-0.5	1700027-06	Soil	1/03/17 7:45	1/03/17 18:35
EB23-2-0.5-D	1700027-07	Soil	1/03/17 7:45	1/03/17 18:35
EB23-2-1.5	1700027-08	Soil	1/03/17 7:46	1/03/17 18:35
EB24-5-0.5	1700027-10	Soil	1/03/17 7:56	1/03/17 18:35
EB24-5-0.5-D	1700027-11	Soil	1/03/17 7:56	1/03/17 18:35
EB24-5-1.0	1700027-12	Soil	1/03/17 7:59	1/03/17 18:35
EB24-5-1.0-D	1700027-13	Soil	1/03/17 7:59	1/03/17 18:35
EB24-4-0.5	1700027-14	Soil	1/03/17 8:07	1/03/17 18:35
EB24-4-0.5-D	1700027-15	Soil	1/03/17 8:07	1/03/17 18:35
EB24-4-1.5	1700027-16	Soil	1/03/17 8:09	1/03/17 18:35
EB24-4-1.5-D	1700027-17	Soil	1/03/17 8:09	1/03/17 18:35
EB25-1-0.5	1700027-19	Soil	1/03/17 8:25	1/03/17 18:35
EB25-1-0.5-D	1700027-20	Soil	1/03/17 8:25	1/03/17 18:35
EB25-1-1.5	1700027-21	Soil	1/03/17 8:27	1/03/17 18:35
EB3-1-0.5	1700027-23	Soil	1/03/17 8:56	1/03/17 18:35
EB3-1-1.5	1700027-25	Soil	1/03/17 8:58	1/03/17 18:35
EB3-1-1.5-D	1700027-26	Soil	1/03/17 8:58	1/03/17 18:35
EB16-1-0.5	1700027-28	Soil	1/03/17 9:20	1/03/17 18:35
EB16-1-1.5	1700027-29	Soil	1/03/17 9:21	1/03/17 18:35
EB20-1-0.5	1700027-31	Soil	1/03/17 10:20	1/03/17 18:35
EB20-1-0.5-D	1700027-32	Soil	1/03/17 10:20	1/03/17 18:35
EB20-1-1.5	1700027-33	Soil	1/03/17 10:21	1/03/17 18:35
EB20-2-0.5'	1700027-35	Soil	1/03/17 10:27	1/03/17 18:35
EB20-2-0.5-D	1700027-36	Soil	1/03/17 10:27	1/03/17 18:35
EB20-2-1.5	1700027-37	Soil	1/03/17 10:28	1/03/17 18:35
EB20-3-0.5	1700027-39	Soil	1/03/17 10:32	1/03/17 18:35
EB20-3-0.5-D	1700027-40	Soil	1/03/17 10:32	1/03/17 18:35
EB20-3-1.5	1700027-41	Soil	1/03/17 10:34	1/03/17 18:35
EB20-3-1.5-D	1700027-42	Soil	1/03/17 10:34	1/03/17 18:35
EB20-4-0.5	1700027-44	Soil	1/03/17 10:39	1/03/17 18:35
EB20-4-0.5-D	1700027-45	Soil	1/03/17 10:39	1/03/17 18:35
EB20-4-1.5	1700027-46	Soil	1/03/17 10:40	1/03/17 18:35
EB20-4-1.5-D	1700027-47	Soil	1/03/17 10:40	1/03/17 18:35

Leighton Consulting, Inc.	Project Number :	Burroughs MS, 603378.006	
17781 Cowan Street	Report To :	Julie Harriman	
Irvine , CA 92614	Reported :	01/12/2017	

EB20-6-0.5	1700027-49	Soil	1/03/17 12:35	1/03/17 18:35
EB20-6-0.5-D	1700027-50	Soil	1/03/17 12:35	1/03/17 18:35
EB20-6-1.5	1700027-51	Soil	1/03/17 12:36	1/03/17 18:35
EB20-6-1.5-D	1700027-52	Soil	1/03/17 12:36	1/03/17 18:35
EB20-5-0.5	1700027-54	Soil	1/03/17 12:57	1/03/17 18:35
EB20-5-0.5-D	1700027-55	Soil	1/03/17 12:57	1/03/17 18:35
EB20-5-1.5	1700027-56	Soil	1/03/17 12:58	1/03/17 18:35
EB20-5-1.5-D	1700027-57	Soil	1/03/17 12:58	1/03/17 18:35
EB20-7-0.5	1700027-59	Soil	1/03/17 13:00	1/03/17 18:35
EB20-7-1.5	1700027-60	Soil	1/03/17 13:01	1/03/17 18:35
EB20-8-0.5	1700027-62	Soil	1/03/17 13:10	1/03/17 18:35
EB20-8-0.5-D	1700027-63	Soil	1/03/17 13:10	1/03/17 18:35
EB20-8-1.5	1700027-64	Soil	1/03/17 13:11	1/03/17 18:35
EB20-8-1.5-D	1700027-65	Soil	1/03/17 13:11	1/03/17 18:35
EB25-2-0.5	1700027-67	Soil	1/03/17 14:50	1/03/17 18:35
EB23-1-0.5	1700027-68	Soil	1/03/17 15:45	1/03/17 18:35
EB23-1-1.5	1700027-69	Soil	1/03/17 15:46	1/03/17 18:35
EB6-3-0.5	1700027-71	Soil	1/03/17 15:48	1/03/17 18:35
EB6-3-1.5	1700027-72	Soil	1/03/17 15:49	1/03/17 18:35

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB22-1-0.5
Lab ID: 1700027-01

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:34	
Lead	**3.0**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:34	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:12	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:12	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 19:12	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 19:12	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:12	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:12	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:12	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 19:12	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:12	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 19:12	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:12	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:12	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:12	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:12	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 19:12	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:12	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:12	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:12	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 19:12	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:12	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 19:12	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 19:12	
Surrogate: Decachlorobiphenyl	*68.4 %*	*27 - 123*			B7A0235	01/09/2017	*01/10/17 19:12*	
Surrogate: Tetrachloro-m-xylene	*58.2 %*	*26 - 108*			B7A0235	01/09/2017	*01/10/17 19:12*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB22-1-0.5-D
Lab ID: 1700027-02

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:39	
Lead	**3.0**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:39	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:23	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:23	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 19:23	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 19:23	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:23	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:23	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:23	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 19:23	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:23	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 19:23	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:23	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:23	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:23	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:23	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 19:23	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:23	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:23	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:23	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 19:23	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:23	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 19:23	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 19:23	
Surrogate: Decachlorobiphenyl	*71.9 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 19:23*	
Surrogate: Tetrachloro-m-xylene	*60.5 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 19:23*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB22-1-0.5-D

Lab ID: 1700027-02

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:28	
Aroclor 1221	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:28	
Aroclor 1232	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:28	
Aroclor 1242	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:28	
Aroclor 1248	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:28	
Aroclor 1254	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:28	
Aroclor 1260	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:28	
Aroclor 1262	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:28	
Aroclor 1268	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:28	
Surrogate: Decachlorobiphenyl	*105 %*	*26 - 137*			B7A0217	01/09/2017	*01/10/17 08:28*	
Surrogate: Tetrachloro-m-xylene	*118 %*	*28 - 102*			B7A0217	01/09/2017	*01/10/17 08:28*	S1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB22-1-1.5
Lab ID: 1700027-03

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:40	
Lead	**3.0**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:40	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:33	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:33	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 19:33	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 19:33	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:33	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:33	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:33	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 19:33	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:33	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 19:33	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:33	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:33	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:33	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:33	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 19:33	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:33	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:33	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:33	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 19:33	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:33	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 19:33	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 19:33	
Surrogate: Decachlorobiphenyl	*61.4 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 19:33*	
Surrogate: Tetrachloro-m-xylene	*55.5 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 19:33*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB22-1-1.5-D
Lab ID: 1700027-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:41	
Lead	**3.1**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:41	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:44	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:44	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 19:44	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 19:44	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:44	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:44	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:44	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 19:44	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:44	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 19:44	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:44	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:44	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:44	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:44	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 19:44	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:44	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:44	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:44	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 19:44	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:44	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 19:44	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 19:44	
Surrogate: Decachlorobiphenyl	*85.7 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 19:44*	
Surrogate: Tetrachloro-m-xylene	*90.0 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 19:44*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB23-2-0.5
Lab ID: 1700027-06

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.8**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:42	
Lead	**8.0**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:42	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:55	
4,4´-DDE	**1.9**	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:55	J
4,4´-DDT [2C]	**7.7**	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 19:55	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 19:55	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:55	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:55	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:55	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 19:55	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:55	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 19:55	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:55	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 19:55	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 19:55	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:55	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 19:55	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:55	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:55	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 19:55	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 19:55	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 19:55	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 19:55	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 19:55	
Surrogate: Decachlorobiphenyl	*61.5 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 19:55*	
Surrogate: Tetrachloro-m-xylene	*62.9 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 19:55*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB23-2-0.5-D
Lab ID: 1700027-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.1**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:46	
Lead	**150**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:46	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 20:05	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 20:05	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 20:05	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 20:05	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 20:05	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 20:05	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 20:05	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 20:05	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 20:05	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 20:05	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 20:05	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 20:05	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 20:05	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 20:05	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 20:05	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 20:05	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 20:05	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 20:05	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 20:05	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 20:05	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 20:05	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 20:05	
Surrogate: Decachlorobiphenyl	*49.8 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 20:05*	
Surrogate: Tetrachloro-m-xylene	*59.2 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 20:05*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB23-2-1.5
Lab ID: 1700027-08

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:47	
Lead	**2.8**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:47	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 20:16	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 20:16	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/10/17 20:16	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/10/17 20:16	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 20:16	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 20:16	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 20:16	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/10/17 20:16	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 20:16	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/10/17 20:16	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/10/17 20:16	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/10/17 20:16	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/10/17 20:16	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/10/17 20:16	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/10/17 20:16	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/10/17 20:16	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 20:16	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/10/17 20:16	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/10/17 20:16	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/10/17 20:16	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/10/17 20:16	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/10/17 20:16	
Surrogate: Decachlorobiphenyl	*89.2 %*		*27 - 123*		B7A0235	01/09/2017	*01/10/17 20:16*	
Surrogate: Tetrachloro-m-xylene	*92.2 %*		*26 - 108*		B7A0235	01/09/2017	*01/10/17 20:16*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB24-5-0.5
Lab ID: 1700027-10

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:48	
Lead	**4.5**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:48	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0235	01/09/2017	01/11/17 13:33	
4,4´-DDE	ND	2.0	0.20	1	B7A0235	01/09/2017	01/11/17 13:33	
4,4´-DDT	ND	2.0	0.13	1	B7A0235	01/09/2017	01/11/17 13:33	
Aldrin	ND	1.0	0.27	1	B7A0235	01/09/2017	01/11/17 13:33	
alpha-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/11/17 13:33	
alpha-Chlordane	ND	1.0	0.21	1	B7A0235	01/09/2017	01/11/17 13:33	
beta-BHC	ND	1.0	0.23	1	B7A0235	01/09/2017	01/11/17 13:33	
Chlordane	ND	8.5	0.90	1	B7A0235	01/09/2017	01/11/17 13:33	
delta-BHC	ND	1.0	0.21	1	B7A0235	01/09/2017	01/11/17 13:33	
Dieldrin	ND	2.0	0.25	1	B7A0235	01/09/2017	01/11/17 13:33	
Endosulfan I	ND	1.0	0.21	1	B7A0235	01/09/2017	01/11/17 13:33	
Endosulfan II	ND	2.0	0.22	1	B7A0235	01/09/2017	01/11/17 13:33	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0235	01/09/2017	01/11/17 13:33	
Endrin	ND	2.0	0.23	1	B7A0235	01/09/2017	01/11/17 13:33	
Endrin aldehyde	ND	2.0	0.28	1	B7A0235	01/09/2017	01/11/17 13:33	
Endrin ketone	ND	2.0	0.20	1	B7A0235	01/09/2017	01/11/17 13:33	
gamma-BHC	ND	1.0	0.20	1	B7A0235	01/09/2017	01/11/17 13:33	
gamma-Chlordane	ND	1.0	0.23	1	B7A0235	01/09/2017	01/11/17 13:33	
Heptachlor	ND	1.0	0.19	1	B7A0235	01/09/2017	01/11/17 13:33	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0235	01/09/2017	01/11/17 13:33	
Methoxychlor	ND	5.0	0.18	1	B7A0235	01/09/2017	01/11/17 13:33	
Toxaphene	ND	50	8.2	1	B7A0235	01/09/2017	01/11/17 13:33	
Surrogate: Decachlorobiphenyl	*53.0 %*		*27 - 123*		B7A0235	01/09/2017	*01/11/17 13:33*	
Surrogate: Tetrachloro-m-xylene	*53.6 %*		*26 - 108*		B7A0235	01/09/2017	*01/11/17 13:33*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB24-5-0.5-D
Lab ID: 1700027-11

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**6.0**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:49	
Lead	**9.0**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:49	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 14:12	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:12	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 14:12	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 14:12	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:12	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:12	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:12	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 14:12	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:12	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 14:12	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:12	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 14:12	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:12	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:12	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 14:12	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:12	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:12	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:12	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 14:12	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:12	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 14:12	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 14:12	
Surrogate: Decachlorobiphenyl	*36.3 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 14:12*	
Surrogate: Tetrachloro-m-xylene	*37.4 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 14:12*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB24-5-1.0
Lab ID: 1700027-12

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.7**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:50	
Lead	**7.3**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:50	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 14:22	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:22	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 14:22	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 14:22	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:22	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:22	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:22	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 14:22	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:22	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 14:22	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:22	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 14:22	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:22	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:22	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 14:22	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:22	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:22	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:22	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 14:22	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:22	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 14:22	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 14:22	
Surrogate: Decachlorobiphenyl	*54.8 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 14:22*	
Surrogate: Tetrachloro-m-xylene	*54.1 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 14:22*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB24-5-1.0-D
Lab ID: 1700027-13

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**6.8**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:51	
Lead	**7.9**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:51	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 14:33	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:33	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 14:33	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 14:33	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:33	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:33	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:33	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 14:33	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:33	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 14:33	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:33	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 14:33	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:33	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:33	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 14:33	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:33	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:33	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:33	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 14:33	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:33	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 14:33	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 14:33	
Surrogate: Decachlorobiphenyl	*42.5 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 14:33*	
Surrogate: Tetrachloro-m-xylene	*48.2 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 14:33*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB24-4-0.5
Lab ID: 1700027-14

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.4**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:53	
Lead	**3.4**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:53	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 14:43	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:43	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 14:43	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 14:43	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:43	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:43	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:43	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 14:43	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:43	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 14:43	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:43	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 14:43	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:43	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:43	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 14:43	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:43	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:43	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:43	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 14:43	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:43	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 14:43	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 14:43	
Surrogate: Decachlorobiphenyl	*45.1 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 14:43*	
Surrogate: Tetrachloro-m-xylene	*46.7 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 14:43*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB24-4-0.5

Lab ID: 1700027-14

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:47	
Aroclor 1221	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:47	
Aroclor 1232	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:47	
Aroclor 1242	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:47	
Aroclor 1248	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:47	
Aroclor 1254	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:47	
Aroclor 1260	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:47	
Aroclor 1262	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:47	
Aroclor 1268	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 08:47	
Surrogate: Decachlorobiphenyl	*90.1 %*	*26 - 137*			B7A0217	01/09/2017	*01/10/17 08:47*	
Surrogate: Tetrachloro-m-xylene	*96.8 %*	*28 - 102*			B7A0217	01/09/2017	*01/10/17 08:47*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB24-4-0.5-D
Lab ID: 1700027-15

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.76**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:54	J
Lead	**2.7**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:54	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 14:53	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:53	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 14:53	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 14:53	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:53	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:53	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:53	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 14:53	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:53	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 14:53	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:53	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 14:53	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 14:53	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:53	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 14:53	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:53	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:53	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 14:53	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 14:53	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 14:53	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 14:53	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 14:53	
Surrogate: Decachlorobiphenyl	*54.1 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 14:53*	
Surrogate: Tetrachloro-m-xylene	*55.4 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 14:53*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB24-4-1.5
Lab ID: 1700027-16

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:55	
Lead	**4.3**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:55	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:04	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:04	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 15:04	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 15:04	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:04	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:04	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:04	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 15:04	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:04	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 15:04	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:04	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:04	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:04	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:04	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 15:04	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:04	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:04	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:04	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 15:04	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:04	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 15:04	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 15:04	
Surrogate: Decachlorobiphenyl	*55.2 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 15:04*	
Surrogate: Tetrachloro-m-xylene	*54.5 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 15:04*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB24-4-1.5-D
Lab ID: 1700027-17

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 12:56	
Lead	**5.7**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 12:56	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:14	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:14	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 15:14	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 15:14	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:14	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:14	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:14	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 15:14	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:14	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 15:14	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:14	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:14	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:14	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:14	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 15:14	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:14	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:14	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:14	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 15:14	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:14	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 15:14	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 15:14	
Surrogate: Decachlorobiphenyl	*56.6 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 15:14*	
Surrogate: Tetrachloro-m-xylene	*54.3 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 15:14*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB25-1-0.5
Lab ID: 1700027-19

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 13:00	
Lead	**3.4**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 13:00	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:25	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:25	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 15:25	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 15:25	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:25	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:25	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:25	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 15:25	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:25	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 15:25	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:25	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:25	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:25	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:25	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 15:25	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:25	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:25	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:25	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 15:25	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:25	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 15:25	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 15:25	
Surrogate: Decachlorobiphenyl	*55.6 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 15:25*	
Surrogate: Tetrachloro-m-xylene	*52.3 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 15:25*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB25-1-0.5-D
Lab ID: 1700027-20

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 13:01	
Lead	**4.4**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 13:01	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:35	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:35	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 15:35	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 15:35	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:35	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:35	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:35	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 15:35	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:35	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 15:35	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:35	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:35	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:35	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:35	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 15:35	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:35	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:35	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:35	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 15:35	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:35	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 15:35	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 15:35	
Surrogate: Decachlorobiphenyl	*56.4 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 15:35*	
Surrogate: Tetrachloro-m-xylene	*51.6 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 15:35*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB25-1-1.5
Lab ID: 1700027-21

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 13:02	
Lead	**3.6**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 13:02	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:46	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:46	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 15:46	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 15:46	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:46	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:46	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:46	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 15:46	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:46	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 15:46	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:46	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:46	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:46	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:46	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 15:46	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:46	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:46	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:46	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 15:46	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:46	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 15:46	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 15:46	
Surrogate: Decachlorobiphenyl	*57.5 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 15:46*	
Surrogate: Tetrachloro-m-xylene	*52.0 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 15:46*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB3-1-0.5
Lab ID: 1700027-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.5**	1.0	0.70	1	B7A0279	01/10/2017	01/11/17 13:03	
Lead	**43**	1.0	0.11	1	B7A0279	01/10/2017	01/11/17 13:03	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.38**	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:56	J
4,4´-DDE	**150**	10	0.98	5	B7A0242	01/09/2017	01/11/17 18:58	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 15:56	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 15:56	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:56	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:56	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:56	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 15:56	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:56	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 15:56	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:56	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 15:56	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 15:56	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:56	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 15:56	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:56	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:56	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 15:56	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 15:56	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 15:56	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 15:56	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 15:56	
Surrogate: Decachlorobiphenyl	*70.0 %*	*27 - 123*			B7A0242	01/09/2017	*01/10/17 15:56*	
Surrogate: Decachlorobiphenyl	*79.7 %*	*27 - 123*			B7A0242	01/09/2017	*01/11/17 18:58*	
Surrogate: Tetrachloro-m-xylene	*54.9 %*	*26 - 108*			B7A0242	01/09/2017	*01/10/17 15:56*	
Surrogate: Tetrachloro-m-xylene	*65.8 %*	*26 - 108*			B7A0242	01/09/2017	*01/11/17 18:58*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB3-1-0.5

Lab ID: 1700027-23

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:06	
Aroclor 1221	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:06	
Aroclor 1232	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:06	
Aroclor 1242	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:06	
Aroclor 1248	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:06	
Aroclor 1254	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:06	
Aroclor 1260	**12**	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:06	J
Aroclor 1262	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:06	
Aroclor 1268	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:06	
Surrogate: Decachlorobiphenyl	*102 %*	*26 - 137*			B7A0217	01/09/2017	*01/10/17 09:06*	
Surrogate: Tetrachloro-m-xylene	*102 %*	*28 - 102*			B7A0217	01/09/2017	*01/10/17 09:06*	S12

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB3-1-1.5
Lab ID: 1700027-25

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.1**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:07	
Lead	**6.1**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:07	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/11/17 19:08	
4,4´-DDE	**10**	2.0	0.20	1	B7A0242	01/09/2017	01/11/17 19:08	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/11/17 19:08	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/11/17 19:08	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/11/17 19:08	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/11/17 19:08	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/11/17 19:08	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/11/17 19:08	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/11/17 19:08	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/11/17 19:08	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/11/17 19:08	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/11/17 19:08	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/11/17 19:08	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/11/17 19:08	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/11/17 19:08	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/11/17 19:08	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/11/17 19:08	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/11/17 19:08	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/11/17 19:08	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/11/17 19:08	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/11/17 19:08	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/11/17 19:08	
Surrogate: Decachlorobiphenyl	*57.4 %*		*27 - 123*		B7A0242	01/09/2017	*01/11/17 19:08*	
Surrogate: Tetrachloro-m-xylene	*54.3 %*		*26 - 108*		B7A0242	01/09/2017	*01/11/17 19:08*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB3-1-1.5-D
Lab ID: 1700027-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.0**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:13	
Lead	**12**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:13	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/11/17 19:19	
4,4´-DDE	**8.1**	2.0	0.20	1	B7A0242	01/09/2017	01/11/17 19:19	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/11/17 19:19	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/11/17 19:19	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/11/17 19:19	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/11/17 19:19	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/11/17 19:19	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/11/17 19:19	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/11/17 19:19	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/11/17 19:19	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/11/17 19:19	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/11/17 19:19	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/11/17 19:19	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/11/17 19:19	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/11/17 19:19	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/11/17 19:19	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/11/17 19:19	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/11/17 19:19	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/11/17 19:19	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/11/17 19:19	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/11/17 19:19	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/11/17 19:19	
Surrogate: Decachlorobiphenyl	*56.6 %*		*27 - 123*		B7A0242	01/09/2017	*01/11/17 19:19*	
Surrogate: Tetrachloro-m-xylene	*49.1 %*		*26 - 108*		B7A0242	01/09/2017	*01/11/17 19:19*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB16-1-0.5
Lab ID: 1700027-28

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:15	
Lead	**20**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:15	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 16:27	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:27	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 16:27	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 16:27	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:27	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:27	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:27	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 16:27	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:27	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 16:27	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:27	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 16:27	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:27	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:27	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 16:27	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:27	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:27	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:27	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 16:27	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:27	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 16:27	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 16:27	
Surrogate: Decachlorobiphenyl	*47.3 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 16:27*	
Surrogate: Tetrachloro-m-xylene	*45.5 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 16:27*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB16-1-1.5
Lab ID: 1700027-29

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:16	
Lead	**78**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:16	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 16:38	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:38	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 16:38	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 16:38	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:38	
alpha-Chlordane	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:38	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:38	
Chlordane	ND	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 16:38	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:38	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 16:38	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:38	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 16:38	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:38	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:38	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 16:38	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:38	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:38	
gamma-Chlordane	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:38	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 16:38	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:38	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 16:38	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 16:38	
Surrogate: Decachlorobiphenyl	*56.8 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 16:38*	
Surrogate: Tetrachloro-m-xylene	*53.7 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 16:38*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-1-0.5
Lab ID: 1700027-31

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:17	
Lead	**4.5**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:17	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 16:48	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:48	
4,4´-DDT	ND	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 16:48	
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 16:48	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:48	
alpha-Chlordane	**0.29**	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:48	J
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:48	
Chlordane	**4.0**	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 16:48	J
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:48	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 16:48	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:48	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 16:48	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:48	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:48	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 16:48	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:48	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:48	
gamma-Chlordane [2C]	**0.43**	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:48	J
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 16:48	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:48	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 16:48	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 16:48	
Surrogate: Decachlorobiphenyl	*48.9 %*	*27 - 123*			B7A0242	01/09/2017	*01/10/17 16:48*	
Surrogate: Tetrachloro-m-xylene	*48.0 %*	*26 - 108*			B7A0242	01/09/2017	*01/10/17 16:48*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-1-0.5

Lab ID: 1700027-31

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:25	
Aroclor 1221	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:25	
Aroclor 1232	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:25	
Aroclor 1242	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:25	
Aroclor 1248	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:25	
Aroclor 1254	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:25	
Aroclor 1260	**2.6**	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:25	J
Aroclor 1262	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:25	
Aroclor 1268	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:25	
Surrogate: Decachlorobiphenyl	*89.4 %*	*26 - 137*			B7A0217	01/09/2017	*01/10/17 09:25*	
Surrogate: Tetrachloro-m-xylene	*98.9 %*	*28 - 102*			B7A0217	01/09/2017	*01/10/17 09:25*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-1-0.5-D
Lab ID: 1700027-32

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:18	
Lead	**5.0**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:18	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 16:59	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:59	
4,4´-DDT	**0.30**	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 16:59	J
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 16:59	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:59	
alpha-Chlordane	**0.94**	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:59	J
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:59	
Chlordane	**9.2**	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 16:59	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:59	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 16:59	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:59	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 16:59	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 16:59	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:59	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 16:59	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:59	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:59	
gamma-Chlordane	**1.3**	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 16:59	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 16:59	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 16:59	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 16:59	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 16:59	
Surrogate: Decachlorobiphenyl	*48.3 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 16:59*	
Surrogate: Tetrachloro-m-xylene	*50.6 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 16:59*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-1-1.5
Lab ID: 1700027-33

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.1**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:19	
Lead	**16**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:19	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 17:09	
4,4´-DDE	**0.66**	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 17:09	J
4,4´-DDT	**1.9**	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 17:09	J
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 17:09	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 17:09	
alpha-Chlordane	**7.7**	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 17:09	
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 17:09	
Chlordane	**58**	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 17:09	
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 17:09	
Dieldrin	**0.79**	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 17:09	J
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 17:09	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 17:09	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 17:09	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 17:09	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 17:09	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 17:09	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 17:09	
gamma-Chlordane	**7.2**	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 17:09	
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 17:09	
Heptachlor epoxide	**0.41**	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 17:09	J
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 17:09	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 17:09	
Surrogate: Decachlorobiphenyl	*56.5 %*	*27 - 123*			B7A0242	01/09/2017	*01/10/17 17:09*	
Surrogate: Tetrachloro-m-xylene	*72.4 %*	*26 - 108*			B7A0242	01/09/2017	*01/10/17 17:09*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-2-0.5'

Lab ID: 1700027-35

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:20	
Lead	**9.0**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:20	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	10	1.1	5	B7A0242	01/09/2017	01/10/17 17:20	D1
4,4´-DDE	ND	10	0.98	5	B7A0242	01/09/2017	01/10/17 17:20	D1
4,4´-DDT	**1.2**	10	0.67	5	B7A0242	01/09/2017	01/10/17 17:20	D1, J
Aldrin	ND	5.0	1.3	5	B7A0242	01/09/2017	01/10/17 17:20	D1
alpha-BHC	ND	5.0	0.99	5	B7A0242	01/09/2017	01/10/17 17:20	D1
alpha-Chlordane	ND	5.0	1.1	5	B7A0242	01/09/2017	01/10/17 17:20	D1
beta-BHC	ND	5.0	1.1	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Chlordane	**9.4**	42	4.5	5	B7A0242	01/09/2017	01/10/17 17:20	D1, J
delta-BHC	ND	5.0	1.0	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Dieldrin	ND	10	1.2	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Endosulfan I	ND	5.0	1.1	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Endosulfan II	ND	10	1.1	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Endosulfan sulfate	ND	10	1.1	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Endrin	ND	10	1.1	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Endrin aldehyde	ND	10	1.4	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Endrin ketone	ND	10	1.0	5	B7A0242	01/09/2017	01/10/17 17:20	D1
gamma-BHC	ND	5.0	1.0	5	B7A0242	01/09/2017	01/10/17 17:20	D1
gamma-Chlordane [2C]	ND	5.0	1.1	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Heptachlor	ND	5.0	0.95	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Heptachlor epoxide	ND	5.0	1.0	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Methoxychlor	ND	25	0.89	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Toxaphene	ND	250	41	5	B7A0242	01/09/2017	01/10/17 17:20	D1
Surrogate: Decachlorobiphenyl	*54.6 %*		*27 - 123*		B7A0242	01/09/2017	*01/10/17 17:20*	
Surrogate: Tetrachloro-m-xylene	*49.9 %*		*26 - 108*		B7A0242	01/09/2017	*01/10/17 17:20*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-2-0.5-D
Lab ID: 1700027-36

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.4**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:21	
Lead	**6.1**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:21	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 17:30	
4,4´-DDE	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 17:30	
4,4´-DDT	**0.22**	2.0	0.13	1	B7A0242	01/09/2017	01/10/17 17:30	J
Aldrin	ND	1.0	0.27	1	B7A0242	01/09/2017	01/10/17 17:30	
alpha-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 17:30	
alpha-Chlordane	**0.26**	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 17:30	J
beta-BHC	ND	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 17:30	
Chlordane [2C]	**2.6**	8.5	0.90	1	B7A0242	01/09/2017	01/10/17 17:30	J
delta-BHC	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 17:30	
Dieldrin	ND	2.0	0.25	1	B7A0242	01/09/2017	01/10/17 17:30	
Endosulfan I	ND	1.0	0.21	1	B7A0242	01/09/2017	01/10/17 17:30	
Endosulfan II	ND	2.0	0.22	1	B7A0242	01/09/2017	01/10/17 17:30	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0242	01/09/2017	01/10/17 17:30	
Endrin	ND	2.0	0.23	1	B7A0242	01/09/2017	01/10/17 17:30	
Endrin aldehyde	ND	2.0	0.28	1	B7A0242	01/09/2017	01/10/17 17:30	
Endrin ketone	ND	2.0	0.20	1	B7A0242	01/09/2017	01/10/17 17:30	
gamma-BHC	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 17:30	
gamma-Chlordane	**0.37**	1.0	0.23	1	B7A0242	01/09/2017	01/10/17 17:30	J
Heptachlor	ND	1.0	0.19	1	B7A0242	01/09/2017	01/10/17 17:30	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0242	01/09/2017	01/10/17 17:30	
Methoxychlor	ND	5.0	0.18	1	B7A0242	01/09/2017	01/10/17 17:30	
Toxaphene	ND	50	8.2	1	B7A0242	01/09/2017	01/10/17 17:30	
Surrogate: Decachlorobiphenyl	*48.8 %*	*27 - 123*			B7A0242	01/09/2017	*01/10/17 17:30*	
Surrogate: Tetrachloro-m-xylene	*61.8 %*	*26 - 108*			B7A0242	01/09/2017	*01/10/17 17:30*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-2-1.5
Lab ID: 1700027-37

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:22	
Lead	**56**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:22	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 11:19	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:19	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 11:19	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 11:19	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:19	
alpha-Chlordane	**0.59**	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:19	J
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:19	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 11:19	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:19	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 11:19	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:19	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 11:19	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:19	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:19	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 11:19	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:19	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:19	
gamma-Chlordane	**1.0**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:19	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 11:19	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:19	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 11:19	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 11:19	
Surrogate: Decachlorobiphenyl	*43.5 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 11:19*	
Surrogate: Tetrachloro-m-xylene	*41.6 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 11:19*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-3-0.5

Lab ID: 1700027-39

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.4**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 13:24	
Lead	**13**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 13:24	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 11:29	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:29	
4,4´-DDT	**0.33**	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 11:29	J
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 11:29	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:29	
alpha-Chlordane	**1.1**	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:29	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:29	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 11:29	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:29	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 11:29	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:29	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 11:29	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:29	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:29	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 11:29	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:29	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:29	
gamma-Chlordane	**1.4**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:29	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 11:29	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:29	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 11:29	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 11:29	
Surrogate: Decachlorobiphenyl	*40.1 %*	*27 - 123*			B7A0249	01/09/2017	*01/11/17 11:29*	
Surrogate: Tetrachloro-m-xylene	*40.9 %*	*26 - 108*			B7A0249	01/09/2017	*01/11/17 11:29*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-3-0.5-D
Lab ID: 1700027-40

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 15:26	
Lead	**20**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 15:26	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 11:39	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:39	
4,4´-DDT	**0.29**	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 11:39	J
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 11:39	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:39	
alpha-Chlordane	**0.92**	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:39	J
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:39	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 11:39	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:39	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 11:39	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:39	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 11:39	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:39	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:39	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 11:39	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:39	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:39	
gamma-Chlordane	**1.8**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:39	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 11:39	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:39	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 11:39	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 11:39	
Surrogate: Decachlorobiphenyl	*40.6 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 11:39*	
Surrogate: Tetrachloro-m-xylene	*37.5 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 11:39*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-3-1.5
Lab ID: 1700027-41

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 15:27	
Lead	**9.4**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 15:27	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 11:50	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:50	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 11:50	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 11:50	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:50	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:50	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:50	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 11:50	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:50	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 11:50	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:50	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 11:50	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 11:50	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:50	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 11:50	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:50	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:50	
gamma-Chlordane	**0.56**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 11:50	J
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 11:50	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 11:50	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 11:50	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 11:50	
Surrogate: Decachlorobiphenyl	*54.5 %*	*27 - 123*			B7A0249	01/09/2017	*01/11/17 11:50*	
Surrogate: Tetrachloro-m-xylene	*55.2 %*	*26 - 108*			B7A0249	01/09/2017	*01/11/17 11:50*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-3-1.5

Lab ID: 1700027-41

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:44	
Aroclor 1221	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:44	
Aroclor 1232	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:44	
Aroclor 1242	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:44	
Aroclor 1248	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:44	
Aroclor 1254	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:44	
Aroclor 1260	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:44	
Aroclor 1262	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:44	
Aroclor 1268	ND	16	1.5	1	B7A0217	01/09/2017	01/10/17 09:44	
Surrogate: Decachlorobiphenyl	*66.4 %*		*26 - 137*		B7A0217	01/09/2017	*01/10/17 09:44*	
Surrogate: Tetrachloro-m-xylene	*72.7 %*		*28 - 102*		B7A0217	01/09/2017	*01/10/17 09:44*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-3-1.5-D
Lab ID: 1700027-42

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.5**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 15:28	
Lead	**17**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 15:28	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:00	
4,4´-DDE	**0.29**	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:00	J
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 12:00	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 12:00	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:00	
alpha-Chlordane	**0.26**	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:00	J
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:00	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 12:00	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:00	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 12:00	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:00	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:00	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:00	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:00	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 12:00	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:00	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:00	
gamma-Chlordane	**1.4**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:00	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 12:00	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:00	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 12:00	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 12:00	
Surrogate: Decachlorobiphenyl	*45.2 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 12:00*	
Surrogate: Tetrachloro-m-xylene	*48.4 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 12:00*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-4-0.5
Lab ID: 1700027-44

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 15:29	
Lead	**21**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 15:29	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:11	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:11	
4,4´-DDT	**0.89**	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 12:11	J
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 12:11	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:11	
alpha-Chlordane	**0.54**	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:11	J
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:11	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 12:11	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:11	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 12:11	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:11	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:11	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:11	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:11	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 12:11	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:11	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:11	
gamma-Chlordane	**2.5**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:11	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 12:11	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:11	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 12:11	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 12:11	
Surrogate: Decachlorobiphenyl	*32.3 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 12:11*	
Surrogate: Tetrachloro-m-xylene	*33.9 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 12:11*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-4-0.5-D
Lab ID: 1700027-45

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**7.4**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 15:30	
Lead	**18**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 15:30	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:21	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:21	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 12:21	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 12:21	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:21	
alpha-Chlordane	**0.41**	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:21	J
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:21	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 12:21	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:21	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 12:21	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:21	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:21	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:21	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:21	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 12:21	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:21	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:21	
gamma-Chlordane	**1.7**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:21	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 12:21	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:21	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 12:21	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 12:21	
Surrogate: Decachlorobiphenyl	*42.0 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 12:21*	
Surrogate: Tetrachloro-m-xylene	*42.5 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 12:21*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-4-1.5
Lab ID: 1700027-46

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.4**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 15:32	
Lead	**16**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 15:32	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:32	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:32	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 12:32	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 12:32	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:32	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:32	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:32	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 12:32	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:32	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 12:32	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:32	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:32	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:32	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:32	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 12:32	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:32	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:32	
gamma-Chlordane	**1.7**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:32	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 12:32	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:32	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 12:32	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 12:32	
Surrogate: Decachlorobiphenyl	*50.3 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 12:32*	
Surrogate: Tetrachloro-m-xylene	*54.2 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 12:32*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-4-1.5-D
Lab ID: 1700027-47

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.7**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 15:35	
Lead	**14**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 15:35	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:42	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:42	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 12:42	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 12:42	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:42	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:42	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:42	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 12:42	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:42	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 12:42	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:42	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:42	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:42	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:42	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 12:42	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:42	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:42	
gamma-Chlordane	**1.2**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:42	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 12:42	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:42	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 12:42	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 12:42	
Surrogate: Decachlorobiphenyl	*46.0 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 12:42*	
Surrogate: Tetrachloro-m-xylene	*49.8 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 12:42*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-6-0.5
Lab ID: 1700027-49

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	0.70	1	B7A0280	01/10/2017	01/11/17 15:36	
Lead	**74**	1.0	0.11	1	B7A0280	01/10/2017	01/11/17 15:36	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:53	
4,4´-DDE	**0.38**	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:53	J
4,4´-DDT	**0.86**	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 12:53	J
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 12:53	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:53	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:53	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:53	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 12:53	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:53	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 12:53	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:53	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 12:53	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 12:53	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:53	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 12:53	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:53	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:53	
gamma-Chlordane	**2.1**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 12:53	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 12:53	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 12:53	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 12:53	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 12:53	
Surrogate: Decachlorobiphenyl	*50.7 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 12:53*	
Surrogate: Tetrachloro-m-xylene	*49.6 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 12:53*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-6-0.5-D
Lab ID: 1700027-50

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 15:43	
Lead	**120**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 15:43	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:03	
4,4´-DDE	**0.42**	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:03	J
4,4´-DDT	**1.2**	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 13:03	J
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 13:03	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:03	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:03	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:03	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 13:03	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:03	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 13:03	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:03	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:03	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:03	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:03	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 13:03	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:03	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:03	
gamma-Chlordane	**1.4**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:03	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 13:03	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:03	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 13:03	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 13:03	
Surrogate: Decachlorobiphenyl	*40.3 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 13:03*	
Surrogate: Tetrachloro-m-xylene	*42.6 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 13:03*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-6-1.5
Lab ID: 1700027-51

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 15:47	
Lead	**16**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 15:47	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:14	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:14	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 13:14	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 13:14	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:14	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:14	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:14	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 13:14	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:14	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 13:14	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:14	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:14	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:14	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:14	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 13:14	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:14	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:14	
gamma-Chlordane	**0.68**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:14	J
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 13:14	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:14	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 13:14	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 13:14	
Surrogate: Decachlorobiphenyl	*45.3 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 13:14*	
Surrogate: Tetrachloro-m-xylene	*49.8 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 13:14*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-6-1.5-D
Lab ID: 1700027-52

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 15:48	
Lead	**7.7**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 15:48	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:24	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:24	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 13:24	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 13:24	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:24	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:24	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:24	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 13:24	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:24	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 13:24	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:24	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:24	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:24	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:24	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 13:24	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:24	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:24	
gamma-Chlordane	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:24	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 13:24	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:24	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 13:24	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 13:24	
Surrogate: Decachlorobiphenyl	*41.1 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 13:24*	
Surrogate: Tetrachloro-m-xylene	*43.0 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 13:24*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-5-0.5
Lab ID: 1700027-54

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.1**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 15:49	
Lead	**3.6**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 15:49	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:35	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:35	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 13:35	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 13:35	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:35	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:35	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:35	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 13:35	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:35	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 13:35	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:35	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:35	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:35	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:35	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 13:35	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:35	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:35	
gamma-Chlordane	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:35	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 13:35	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:35	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 13:35	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 13:35	
Surrogate: Decachlorobiphenyl	*47.3 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 13:35*	
Surrogate: Tetrachloro-m-xylene	*50.3 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 13:35*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-5-0.5-D
Lab ID: 1700027-55

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 15:50	
Lead	**22**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 15:50	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:45	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:45	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 13:45	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 13:45	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:45	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:45	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:45	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 13:45	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:45	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 13:45	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:45	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:45	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:45	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:45	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 13:45	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:45	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:45	
gamma-Chlordane	**0.25**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:45	J
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 13:45	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:45	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 13:45	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 13:45	
Surrogate: Decachlorobiphenyl	*48.8 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 13:45*	
Surrogate: Tetrachloro-m-xylene	*53.0 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 13:45*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-5-1.5
Lab ID: 1700027-56

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 15:54	
Lead	**4.5**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 15:54	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:55	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:55	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 13:55	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 13:55	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:55	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:55	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:55	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 13:55	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:55	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 13:55	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:55	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 13:55	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 13:55	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:55	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 13:55	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:55	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:55	
gamma-Chlordane	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 13:55	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 13:55	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 13:55	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 13:55	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 13:55	
Surrogate: Decachlorobiphenyl	*44.0 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 13:55*	
Surrogate: Tetrachloro-m-xylene	*46.6 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 13:55*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-5-1.5-D
Lab ID: 1700027-57

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 15:55	
Lead	**5.7**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 15:55	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 14:06	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:06	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 14:06	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 14:06	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:06	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:06	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:06	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 14:06	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:06	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 14:06	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:06	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 14:06	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:06	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:06	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 14:06	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:06	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:06	
gamma-Chlordane	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:06	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 14:06	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:06	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 14:06	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 14:06	
Surrogate: Decachlorobiphenyl	*47.1 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 14:06*	
Surrogate: Tetrachloro-m-xylene	*53.5 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 14:06*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-7-0.5
Lab ID: 1700027-59

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.76**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 15:56	J
Lead	**2.2**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 15:56	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 14:16	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:16	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 14:16	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 14:16	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:16	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:16	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:16	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 14:16	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:16	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 14:16	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:16	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 14:16	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:16	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:16	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 14:16	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:16	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:16	
gamma-Chlordane	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:16	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 14:16	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:16	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 14:16	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 14:16	
Surrogate: Decachlorobiphenyl	*73.0 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 14:16*	
Surrogate: Tetrachloro-m-xylene	*74.7 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 14:16*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-7-1.5
Lab ID: 1700027-60

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.8**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 15:58	
Lead	**10**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 15:58	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 14:27	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:27	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 14:27	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 14:27	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:27	
alpha-Chlordane	**20**	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:27	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:27	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 14:27	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:27	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 14:27	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:27	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 14:27	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:27	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:27	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 14:27	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:27	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:27	
gamma-Chlordane	**16**	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:27	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 14:27	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:27	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 14:27	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 14:27	
Surrogate: Decachlorobiphenyl	*46.0 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 14:27*	
Surrogate: Tetrachloro-m-xylene	*48.1 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 14:27*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-8-0.5
Lab ID: 1700027-62

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 15:59	
Lead	**1.9**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 15:59	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 11:30	
4,4´-DDE	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:30	
4,4´-DDT	ND	2.0	0.13	1	B7A0250	01/09/2017	01/10/17 11:30	
Aldrin	ND	1.0	0.27	1	B7A0250	01/09/2017	01/10/17 11:30	
alpha-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:30	
alpha-Chlordane	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:30	
beta-BHC	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 11:30	
Chlordane	ND	8.5	0.90	1	B7A0250	01/09/2017	01/10/17 11:30	
delta-BHC	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:30	
Dieldrin	ND	2.0	0.25	1	B7A0250	01/09/2017	01/10/17 11:30	
Endosulfan I	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:30	
Endosulfan II	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 11:30	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:30	
Endrin	ND	2.0	0.23	1	B7A0250	01/09/2017	01/10/17 11:30	
Endrin aldehyde	ND	2.0	0.28	1	B7A0250	01/09/2017	01/10/17 11:30	
Endrin ketone	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:30	
gamma-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:30	
gamma-Chlordane	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 11:30	
Heptachlor	ND	1.0	0.19	1	B7A0250	01/09/2017	01/10/17 11:30	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:30	
Methoxychlor	ND	5.0	0.18	1	B7A0250	01/09/2017	01/10/17 11:30	
Toxaphene	ND	50	8.2	1	B7A0250	01/09/2017	01/10/17 11:30	
Surrogate: Decachlorobiphenyl	*85.4 %*	*27 - 123*			B7A0250	01/09/2017	*01/10/17 11:30*	
Surrogate: Tetrachloro-m-xylene	*88.7 %*	*26 - 108*			B7A0250	01/09/2017	*01/10/17 11:30*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-8-0.5-D
Lab ID: 1700027-63

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 16:00	
Lead	**6.1**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 16:00	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 14:37	
4,4´-DDE	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:37	
4,4´-DDT	ND	2.0	0.13	1	B7A0249	01/09/2017	01/11/17 14:37	
Aldrin	ND	1.0	0.27	1	B7A0249	01/09/2017	01/11/17 14:37	
alpha-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:37	
alpha-Chlordane	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:37	
beta-BHC	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:37	
Chlordane	ND	8.5	0.90	1	B7A0249	01/09/2017	01/11/17 14:37	
delta-BHC	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:37	
Dieldrin	ND	2.0	0.25	1	B7A0249	01/09/2017	01/11/17 14:37	
Endosulfan I	ND	1.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:37	
Endosulfan II	ND	2.0	0.22	1	B7A0249	01/09/2017	01/11/17 14:37	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0249	01/09/2017	01/11/17 14:37	
Endrin	ND	2.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:37	
Endrin aldehyde	ND	2.0	0.28	1	B7A0249	01/09/2017	01/11/17 14:37	
Endrin ketone	ND	2.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:37	
gamma-BHC	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:37	
gamma-Chlordane	ND	1.0	0.23	1	B7A0249	01/09/2017	01/11/17 14:37	
Heptachlor	ND	1.0	0.19	1	B7A0249	01/09/2017	01/11/17 14:37	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0249	01/09/2017	01/11/17 14:37	
Methoxychlor	ND	5.0	0.18	1	B7A0249	01/09/2017	01/11/17 14:37	
Toxaphene	ND	50	8.2	1	B7A0249	01/09/2017	01/11/17 14:37	
Surrogate: Decachlorobiphenyl	*76.8 %*		*27 - 123*		B7A0249	01/09/2017	*01/11/17 14:37*	
Surrogate: Tetrachloro-m-xylene	*83.7 %*		*26 - 108*		B7A0249	01/09/2017	*01/11/17 14:37*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-8-1.5
Lab ID: 1700027-64

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.8**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 16:01	
Lead	**7.7**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 16:01	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 11:40	
4,4´-DDE	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:40	
4,4´-DDT	ND	2.0	0.13	1	B7A0250	01/09/2017	01/10/17 11:40	
Aldrin	ND	1.0	0.27	1	B7A0250	01/09/2017	01/10/17 11:40	
alpha-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:40	
alpha-Chlordane	**0.26**	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:40	J
beta-BHC	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 11:40	
Chlordane	ND	8.5	0.90	1	B7A0250	01/09/2017	01/10/17 11:40	
delta-BHC	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:40	
Dieldrin	ND	2.0	0.25	1	B7A0250	01/09/2017	01/10/17 11:40	
Endosulfan I	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:40	
Endosulfan II	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 11:40	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:40	
Endrin	ND	2.0	0.23	1	B7A0250	01/09/2017	01/10/17 11:40	
Endrin aldehyde	ND	2.0	0.28	1	B7A0250	01/09/2017	01/10/17 11:40	
Endrin ketone	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:40	
gamma-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:40	
gamma-Chlordane	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 11:40	
Heptachlor	ND	1.0	0.19	1	B7A0250	01/09/2017	01/10/17 11:40	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:40	
Methoxychlor	ND	5.0	0.18	1	B7A0250	01/09/2017	01/10/17 11:40	
Toxaphene	ND	50	8.2	1	B7A0250	01/09/2017	01/10/17 11:40	
Surrogate: Decachlorobiphenyl	*66.5 %*		*27 - 123*		B7A0250	01/09/2017	*01/10/17 11:40*	
Surrogate: Tetrachloro-m-xylene	*65.2 %*		*26 - 108*		B7A0250	01/09/2017	*01/10/17 11:40*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB20-8-1.5-D
Lab ID: 1700027-65

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 16:02	
Lead	**4.5**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 16:02	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 11:51	
4,4´-DDE	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:51	
4,4´-DDT	ND	2.0	0.13	1	B7A0250	01/09/2017	01/10/17 11:51	
Aldrin	ND	1.0	0.27	1	B7A0250	01/09/2017	01/10/17 11:51	
alpha-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:51	
alpha-Chlordane	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:51	
beta-BHC	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 11:51	
Chlordane	ND	8.5	0.90	1	B7A0250	01/09/2017	01/10/17 11:51	
delta-BHC	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:51	
Dieldrin	ND	2.0	0.25	1	B7A0250	01/09/2017	01/10/17 11:51	
Endosulfan I	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:51	
Endosulfan II	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 11:51	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0250	01/09/2017	01/10/17 11:51	
Endrin	ND	2.0	0.23	1	B7A0250	01/09/2017	01/10/17 11:51	
Endrin aldehyde	ND	2.0	0.28	1	B7A0250	01/09/2017	01/10/17 11:51	
Endrin ketone	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:51	
gamma-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:51	
gamma-Chlordane	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 11:51	
Heptachlor	ND	1.0	0.19	1	B7A0250	01/09/2017	01/10/17 11:51	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 11:51	
Methoxychlor	ND	5.0	0.18	1	B7A0250	01/09/2017	01/10/17 11:51	
Toxaphene	ND	50	8.2	1	B7A0250	01/09/2017	01/10/17 11:51	
Surrogate: Decachlorobiphenyl	*92.5 %*		*27 - 123*		B7A0250	01/09/2017	*01/10/17 11:51*	
Surrogate: Tetrachloro-m-xylene	*93.5 %*		*26 - 108*		B7A0250	01/09/2017	*01/10/17 11:51*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB25-2-0.5
Lab ID: 1700027-67

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.7**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 16:03	
Lead	**16**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 16:03	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 12:01	
4,4´-DDE	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:01	
4,4´-DDT	ND	2.0	0.13	1	B7A0250	01/09/2017	01/10/17 12:01	
Aldrin	ND	1.0	0.27	1	B7A0250	01/09/2017	01/10/17 12:01	
alpha-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:01	
alpha-Chlordane	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:01	
beta-BHC	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:01	
Chlordane	ND	8.5	0.90	1	B7A0250	01/09/2017	01/10/17 12:01	
delta-BHC	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:01	
Dieldrin	ND	2.0	0.25	1	B7A0250	01/09/2017	01/10/17 12:01	
Endosulfan I	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:01	
Endosulfan II	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 12:01	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:01	
Endrin	ND	2.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:01	
Endrin aldehyde	ND	2.0	0.28	1	B7A0250	01/09/2017	01/10/17 12:01	
Endrin ketone	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:01	
gamma-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:01	
gamma-Chlordane	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:01	
Heptachlor	ND	1.0	0.19	1	B7A0250	01/09/2017	01/10/17 12:01	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:01	
Methoxychlor	ND	5.0	0.18	1	B7A0250	01/09/2017	01/10/17 12:01	
Toxaphene	ND	50	8.2	1	B7A0250	01/09/2017	01/10/17 12:01	
Surrogate: Decachlorobiphenyl	*58.4 %*		*27 - 123*		B7A0250	01/09/2017	*01/10/17 12:01*	
Surrogate: Tetrachloro-m-xylene	*37.7 %*		*26 - 108*		B7A0250	01/09/2017	*01/10/17 12:01*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB23-1-0.5

Lab ID: 1700027-68

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**13**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 16:04	
Lead	**52**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 16:04	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 12:12	
4,4´-DDE	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:12	
4,4´-DDT	ND	2.0	0.13	1	B7A0250	01/09/2017	01/10/17 12:12	
Aldrin	ND	1.0	0.27	1	B7A0250	01/09/2017	01/10/17 12:12	
alpha-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:12	
alpha-Chlordane	**0.25**	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:12	J
beta-BHC	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:12	
Chlordane	ND	8.5	0.90	1	B7A0250	01/09/2017	01/10/17 12:12	
delta-BHC	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:12	
Dieldrin	ND	2.0	0.25	1	B7A0250	01/09/2017	01/10/17 12:12	
Endosulfan I	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:12	
Endosulfan II	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 12:12	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:12	
Endrin	ND	2.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:12	
Endrin aldehyde	ND	2.0	0.28	1	B7A0250	01/09/2017	01/10/17 12:12	
Endrin ketone	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:12	
gamma-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:12	
gamma-Chlordane	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:12	
Heptachlor	ND	1.0	0.19	1	B7A0250	01/09/2017	01/10/17 12:12	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:12	
Methoxychlor	ND	5.0	0.18	1	B7A0250	01/09/2017	01/10/17 12:12	
Toxaphene	ND	50	8.2	1	B7A0250	01/09/2017	01/10/17 12:12	
Surrogate: Decachlorobiphenyl	*72.8 %*		*27 - 123*		B7A0250	01/09/2017	*01/10/17 12:12*	
Surrogate: Tetrachloro-m-xylene	*55.7 %*		*26 - 108*		B7A0250	01/09/2017	*01/10/17 12:12*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB23-1-1.5

Lab ID: 1700027-69

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 16:09	
Lead	**4.6**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 16:09	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 12:23	
4,4´-DDE	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:23	
4,4´-DDT	ND	2.0	0.13	1	B7A0250	01/09/2017	01/10/17 12:23	
Aldrin	ND	1.0	0.27	1	B7A0250	01/09/2017	01/10/17 12:23	
alpha-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:23	
alpha-Chlordane	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:23	
beta-BHC	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:23	
Chlordane	ND	8.5	0.90	1	B7A0250	01/09/2017	01/10/17 12:23	
delta-BHC	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:23	
Dieldrin	ND	2.0	0.25	1	B7A0250	01/09/2017	01/10/17 12:23	
Endosulfan I	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:23	
Endosulfan II	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 12:23	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:23	
Endrin	ND	2.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:23	
Endrin aldehyde	ND	2.0	0.28	1	B7A0250	01/09/2017	01/10/17 12:23	
Endrin ketone	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:23	
gamma-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:23	
gamma-Chlordane	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:23	
Heptachlor	ND	1.0	0.19	1	B7A0250	01/09/2017	01/10/17 12:23	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:23	
Methoxychlor	ND	5.0	0.18	1	B7A0250	01/09/2017	01/10/17 12:23	
Toxaphene	ND	50	8.2	1	B7A0250	01/09/2017	01/10/17 12:23	
Surrogate: Decachlorobiphenyl	*75.0 %*		*27 - 123*		B7A0250	01/09/2017	*01/10/17 12:23*	
Surrogate: Tetrachloro-m-xylene	*59.6 %*		*26 - 108*		B7A0250	01/09/2017	*01/10/17 12:23*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB6-3-0.5
Lab ID: 1700027-71

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 16:10	
Lead	**4.3**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 16:10	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 12:33	
4,4´-DDE	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:33	
4,4´-DDT	ND	2.0	0.13	1	B7A0250	01/09/2017	01/10/17 12:33	
Aldrin	ND	1.0	0.27	1	B7A0250	01/09/2017	01/10/17 12:33	
alpha-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:33	
alpha-Chlordane	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:33	
beta-BHC	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:33	
Chlordane	ND	8.5	0.90	1	B7A0250	01/09/2017	01/10/17 12:33	
delta-BHC	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:33	
Dieldrin	ND	2.0	0.25	1	B7A0250	01/09/2017	01/10/17 12:33	
Endosulfan I	ND	1.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:33	
Endosulfan II	ND	2.0	0.22	1	B7A0250	01/09/2017	01/10/17 12:33	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0250	01/09/2017	01/10/17 12:33	
Endrin	ND	2.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:33	
Endrin aldehyde	ND	2.0	0.28	1	B7A0250	01/09/2017	01/10/17 12:33	
Endrin ketone	ND	2.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:33	
gamma-BHC	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:33	
gamma-Chlordane	ND	1.0	0.23	1	B7A0250	01/09/2017	01/10/17 12:33	
Heptachlor	ND	1.0	0.19	1	B7A0250	01/09/2017	01/10/17 12:33	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0250	01/09/2017	01/10/17 12:33	
Methoxychlor	ND	5.0	0.18	1	B7A0250	01/09/2017	01/10/17 12:33	
Toxaphene	ND	50	8.2	1	B7A0250	01/09/2017	01/10/17 12:33	
Surrogate: Decachlorobiphenyl	*63.4 %*		*27 - 123*		B7A0250	01/09/2017	*01/10/17 12:33*	
Surrogate: Tetrachloro-m-xylene	*56.3 %*		*26 - 108*		B7A0250	01/09/2017	*01/10/17 12:33*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Client Sample ID EB6-3-1.5
Lab ID: 1700027-72

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.0**	1.0	0.70	1	B7A0281	01/10/2017	01/12/17 11:36	
Lead	**3.1**	1.0	0.11	1	B7A0281	01/10/2017	01/12/17 11:36	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0250	01/09/2017	01/12/17 14:03	D1
4,4´-DDE	ND	20	2.0	10	B7A0250	01/09/2017	01/12/17 14:03	D1
4,4´-DDT	ND	20	1.3	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Aldrin	ND	10	2.7	10	B7A0250	01/09/2017	01/12/17 14:03	D1
alpha-BHC	ND	10	2.0	10	B7A0250	01/09/2017	01/12/17 14:03	D1
alpha-Chlordane	ND	10	2.1	10	B7A0250	01/09/2017	01/12/17 14:03	D1
beta-BHC	ND	10	2.3	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Chlordane	ND	85	9.0	10	B7A0250	01/09/2017	01/12/17 14:03	D1
delta-BHC	ND	10	2.1	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Dieldrin	ND	20	2.5	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Endosulfan I	ND	10	2.1	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Endosulfan II	ND	20	2.2	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Endrin	ND	20	2.3	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Endrin aldehyde	ND	20	2.8	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Endrin ketone	ND	20	2.0	10	B7A0250	01/09/2017	01/12/17 14:03	D1
gamma-BHC	ND	10	2.0	10	B7A0250	01/09/2017	01/12/17 14:03	D1
gamma-Chlordane	ND	10	2.3	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Heptachlor	ND	10	1.9	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Methoxychlor	ND	50	1.8	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Toxaphene	ND	500	82	10	B7A0250	01/09/2017	01/12/17 14:03	D1
Surrogate: Decachlorobiphenyl	*111 %*	*27 - 123*			B7A0250	01/09/2017	*01/12/17 14:03*	
Surrogate: Tetrachloro-m-xylene	*90.8 %*	*26 - 108*			B7A0250	01/09/2017	*01/12/17 14:03*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0279 - EPA 3050B_S									
Blank (B7A0279-BLK1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0279-BS1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	45.8800	1.0	50.0000		91.8	80 - 120			
Lead	44.0188	1.0	50.0000		88.0	80 - 120			
Duplicate (B7A0279-DUP1)		**Source: 1700027-01**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	1.57657	1.0		1.27658	NR		21.0	20	R
Lead	3.74790	1.0		2.97992	NR		22.8	20	R
Matrix Spike (B7A0279-MS1)		**Source: 1700027-01**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	98.7372	1.0	125.000	1.27658	78.0	59 - 103			
Lead	95.6036	1.0	125.000	2.97992	74.1	34 - 129			
Matrix Spike Dup (B7A0279-MSD1)		**Source: 1700027-01**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	89.3787	1.0	125.000	1.27658	70.5	59 - 103	9.95	20	
Lead	85.8878	1.0	125.000	2.97992	66.3	34 - 129	10.7	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0280 - EPA 3050B_S									
Blank (B7A0280-BLK1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0280-BS1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	45.7722	1.0	50.0000		91.5	80 - 120			
Lead	43.7153	1.0	50.0000		87.4	80 - 120			
Duplicate (B7A0280-DUP1)		**Source: 1700027-25**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	3.23839	1.0		3.14248	NR		3.01	20	
Lead	7.02336	1.0		6.13213	NR		13.5	20	
Matrix Spike (B7A0280-MS1)		**Source: 1700027-25**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	86.7328	1.0	125.000	3.14248	66.9	59 - 103			
Lead	78.1753	1.0	125.000	6.13213	57.6	34 - 129			
Matrix Spike Dup (B7A0280-MSD1)		**Source: 1700027-25**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	90.8319	1.0	125.000	3.14248	70.2	59 - 103	4.62	20	
Lead	85.3872	1.0	125.000	6.13213	63.4	34 - 129	8.82	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0281 - EPA 3050B_S									
Blank (B7A0281-BLK1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0281-BS1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	47.4830	1.0	50.0000		95.0	80 - 120			
Lead	47.5397	1.0	50.0000		95.1	80 - 120			
Duplicate (B7A0281-DUP1)		**Source: 1700027-50**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	3.04478	1.0		2.98772	NR		1.89	20	
Lead	141.044	1.0		116.209	NR		19.3	20	
Matrix Spike (B7A0281-MS1)		**Source: 1700027-50**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	91.6419	1.0	125.000	2.98772	70.9	59 - 103			
Lead	226.385	1.0	125.000	116.209	88.1	34 - 129			
Matrix Spike Dup (B7A0281-MSD1)		**Source: 1700027-50**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	69.7916	1.0	125.000	2.98772	53.4	59 - 103	27.1	20	R, M1
Lead	177.672	1.0	125.000	116.209	49.2	34 - 129	24.1	20	M1, R

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S									
Blank (B7A0235-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0235-BLK1) - Continued				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*14.37*		*16.6667*		*86.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.77*		*16.6667*		*101*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.96*		*16.6667*		*95.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*18.37*		*16.6667*		*110*	*26 - 108*			S1
LCS (B7A0235-BS1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	15.3787	2.0	16.6667		92.3	53 - 125			
4,4´-DDD [2C]	16.3440	2.0	16.6667		98.1	53 - 125			
4,4´-DDE	14.7990	2.0	16.6667		88.8	54 - 113			
4,4´-DDE [2C]	16.4295	2.0	16.6667		98.6	54 - 113			
4,4´-DDT	15.4752	2.0	16.6667		92.9	25 - 127			
4,4´-DDT [2C]	16.7495	2.0	16.6667		100	25 - 127			
Aldrin	14.7187	1.0	16.6667		88.3	59 - 107			
Aldrin [2C]	15.7300	1.0	16.6667		94.4	59 - 107			
alpha-BHC	14.7045	1.0	16.6667		88.2	59 - 104			
alpha-BHC [2C]	16.2372	1.0	16.6667		97.4	59 - 104			
alpha-Chlordane	14.7417	1.0	16.6667		88.4	54 - 110			
alpha-Chlordane [2C]	16.3408	1.0	16.6667		98.0	54 - 110			
beta-BHC	14.8127	1.0	16.6667		88.9	57 - 103			
beta-BHC [2C]	16.2688	1.0	16.6667		97.6	57 - 103			
delta-BHC	12.1710	1.0	16.6667		73.0	16 - 120			
delta-BHC [2C]	12.7650	1.0	16.6667		76.6	16 - 120			
Dieldrin	14.9372	2.0	16.6667		89.6	61 - 109			
Dieldrin [2C]	16.5335	2.0	16.6667		99.2	61 - 109			
Endosulfan I	14.5767	1.0	16.6667		87.5	60 - 106			
Endosulfan I [2C]	16.4243	1.0	16.6667		98.5	60 - 106			
Endosulfan II	14.4307	2.0	16.6667		86.6	59 - 108			
Endosulfan II [2C]	15.2682	2.0	16.6667		91.6	59 - 108			
Endosulfan sulfate	13.8185	2.0	16.6667		82.9	54 - 110			
Endosulfan Sulfate [2C]	13.9925	2.0	16.6667		84.0	54 - 110			
Endrin	15.7108	2.0	16.6667		94.3	63 - 112			
Endrin [2C]	17.5192	2.0	16.6667		105	63 - 112			
Endrin aldehyde	14.9340	2.0	16.6667		89.6	64 - 119			
Endrin aldehyde [2C]	13.7263	2.0	16.6667		82.4	64 - 119			
Endrin ketone	15.1345	2.0	16.6667		90.8	54 - 115			
Endrin ketone [2C]	15.3532	2.0	16.6667		92.1	54 - 115			
gamma-BHC	15.3095	1.0	16.6667		91.9	60 - 107			
gamma-BHC [2C]	16.7648	1.0	16.6667		101	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0235-BS1) - Continued				Prepared: 1/9/2017 Analyzed: 1/10/2017					
gamma-Chlordane	14.6223	1.0	16.6667		87.7	57 - 106			
gamma-Chlordane [2C]	15.5615	1.0	16.6667		93.4	57 - 106			
Heptachlor	15.4770	1.0	16.6667		92.9	54 - 114			
Heptachlor [2C]	17.7532	1.0	16.6667		107	54 - 114			
Heptachlor epoxide	14.7627	1.0	16.6667		88.6	61 - 106			
Heptachlor epoxide [2C]	15.9248	1.0	16.6667		95.5	61 - 106			
Methoxychlor	15.5083	5.0	16.6667		93.0	18 - 138			
Methoxychlor [2C]	17.3583	5.0	16.6667		104	18 - 138			
Surrogate: Decachlorobiphenyl	*13.35*		*16.6667*		*80.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.31*		*16.6667*		*91.9*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.90*		*16.6667*		*95.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.73*		*16.6667*		*94.4*	*26 - 108*			
Duplicate (B7A0235-DUP1)			**Source: 1604923-24**	Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0235-DUP1) - Continued		**Source: 1604923-24**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*13.94*		*16.6667*		*83.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.40*		*16.6667*		*86.4*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.51*		*16.6667*		*87.0*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.26*		*16.6667*		*85.6*	*26 - 108*			
Matrix Spike (B7A0235-MS1)		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	14.0528	2.0	16.6667	ND	84.3	25 - 141			
4,4´-DDD [2C]	13.9307	2.0	16.6667	ND	83.6	25 - 141			
4,4´-DDE	14.0202	2.0	16.6667	ND	84.1	22 - 141			
4,4´-DDE [2C]	14.2968	2.0	16.6667	ND	85.8	22 - 141			
4,4´-DDT	15.4505	2.0	16.6667	0.138167	91.9	15 - 136			
4,4´-DDT [2C]	15.0303	2.0	16.6667	ND	90.2	15 - 136			
Aldrin	13.4937	1.0	16.6667	ND	81.0	33 - 118			
Aldrin [2C]	13.2385	1.0	16.6667	ND	79.4	33 - 118			
alpha-BHC	12.9687	1.0	16.6667	ND	77.8	30 - 116			
alpha-BHC [2C]	12.9653	1.0	16.6667	ND	77.8	30 - 116			
alpha-Chlordane	13.8957	1.0	16.6667	ND	83.4	30 - 123			
alpha-Chlordane [2C]	14.1163	1.0	16.6667	ND	84.7	30 - 123			
beta-BHC	13.3943	1.0	16.6667	ND	80.4	24 - 121			
beta-BHC [2C]	14.9828	1.0	16.6667	ND	89.9	24 - 121			
delta-BHC	10.8780	1.0	16.6667	ND	65.3	7 - 120			
delta-BHC [2C]	10.6992	1.0	16.6667	ND	64.2	7 - 120			
Dieldrin	14.0132	2.0	16.6667	ND	84.1	25 - 136			
Dieldrin [2C]	14.3260	2.0	16.6667	ND	86.0	25 - 136			
Endosulfan I	13.5922	1.0	16.6667	ND	81.6	18 - 134			
Endosulfan I [2C]	13.7422	1.0	16.6667	ND	82.5	18 - 134			
Endosulfan II	13.5267	2.0	16.6667	ND	81.2	28 - 128			
Endosulfan II [2C]	12.9825	2.0	16.6667	ND	77.9	28 - 128			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0235-MS1) - Continued		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Endosulfan sulfate	12.2015	2.0	16.6667	ND	73.2	5 - 145			
Endosulfan Sulfate [2C]	11.3387	2.0	16.6667	ND	68.0	5 - 145			
Endrin	15.0877	2.0	16.6667	ND	90.5	26 - 142			
Endrin [2C]	15.2943	2.0	16.6667	ND	91.8	26 - 142			
Endrin aldehyde	12.0353	2.0	16.6667	ND	72.2	8 - 146			
Endrin aldehyde [2C]	10.3398	2.0	16.6667	0.972333	56.2	8 - 146			
Endrin ketone	13.7492	2.0	16.6667	ND	82.5	16 - 139			
Endrin ketone [2C]	12.5023	2.0	16.6667	ND	75.0	16 - 139			
gamma-BHC	13.5023	1.0	16.6667	ND	81.0	30 - 122			
gamma-BHC [2C]	14.0945	1.0	16.6667	ND	84.6	30 - 122			
gamma-Chlordane	13.8968	1.0	16.6667	ND	83.4	18 - 132			
gamma-Chlordane [2C]	13.5228	1.0	16.6667	ND	81.1	18 - 132			
Heptachlor	14.1422	1.0	16.6667	ND	84.9	34 - 122			
Heptachlor [2C]	15.0770	1.0	16.6667	ND	90.5	34 - 122			
Heptachlor epoxide	13.7803	1.0	16.6667	ND	82.7	21 - 135			
Heptachlor epoxide [2C]	13.5130	1.0	16.6667	ND	81.1	21 - 135			
Methoxychlor	14.4827	5.0	16.6667	ND	86.9	8 - 162			
Methoxychlor [2C]	15.4858	5.0	16.6667	ND	92.9	8 - 162			
Surrogate: Decachlorobiphenyl	*12.71*		*16.6667*		*76.3*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*13.43*		*16.6667*		*80.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.44*		*16.6667*		*80.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.35*		*16.6667*		*74.1*	*26 - 108*			
Matrix Spike Dup (B7A0235-MSD1)		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	14.8720	2.0	16.6667	ND	89.2	25 - 141	5.66	20	
4,4´-DDD [2C]	14.9143	2.0	16.6667	ND	89.5	25 - 141	6.82	20	
4,4´-DDE	14.8193	2.0	16.6667	ND	88.9	22 - 141	5.54	20	
4,4´-DDE [2C]	15.1058	2.0	16.6667	ND	90.6	22 - 141	5.50	20	
4,4´-DDT	16.4155	2.0	16.6667	0.138167	97.7	15 - 136	6.06	20	
4,4´-DDT [2C]	16.1050	2.0	16.6667	ND	96.6	15 - 136	6.90	20	
Aldrin	14.3140	1.0	16.6667	ND	85.9	33 - 118	5.90	20	
Aldrin [2C]	13.8848	1.0	16.6667	ND	83.3	33 - 118	4.77	20	
alpha-BHC	13.6773	1.0	16.6667	ND	82.1	30 - 116	5.32	20	
alpha-BHC [2C]	12.0700	1.0	16.6667	ND	72.4	30 - 116	7.15	20	
alpha-Chlordane	14.7240	1.0	16.6667	ND	88.3	30 - 123	5.79	20	
alpha-Chlordane [2C]	15.0107	1.0	16.6667	ND	90.1	30 - 123	6.14	20	
beta-BHC	14.3872	1.0	16.6667	ND	86.3	24 - 121	7.15	20	
beta-BHC [2C]	15.7337	1.0	16.6667	ND	94.4	24 - 121	4.89	20	
delta-BHC	11.7675	1.0	16.6667	ND	70.6	7 - 120	7.86	20	
delta-BHC [2C]	11.3860	1.0	16.6667	ND	68.3	7 - 120	6.22	20	
Dieldrin	14.9005	2.0	16.6667	ND	89.4	25 - 136	6.14	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0235 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0235-MSD1) - Continued		**Source: 1604923-21**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Dieldrin [2C]	15.4423	2.0	16.6667	ND	92.7	25 - 136	7.50	20	
Endosulfan I	14.3933	1.0	16.6667	ND	86.4	18 - 134	5.73	20	
Endosulfan I [2C]	14.5747	1.0	16.6667	ND	87.4	18 - 134	5.88	20	
Endosulfan II	14.4977	2.0	16.6667	ND	87.0	28 - 128	6.93	20	
Endosulfan II [2C]	14.0500	2.0	16.6667	ND	84.3	28 - 128	7.90	20	
Endosulfan sulfate	13.3382	2.0	16.6667	ND	80.0	5 - 145	8.90	20	
Endosulfan Sulfate [2C]	12.5287	2.0	16.6667	ND	75.2	5 - 145	9.97	20	
Endrin	16.0502	2.0	16.6667	ND	96.3	26 - 142	6.18	20	
Endrin [2C]	16.4527	2.0	16.6667	ND	98.7	26 - 142	7.30	20	
Endrin aldehyde	13.0098	2.0	16.6667	ND	78.1	8 - 146	7.78	20	
Endrin aldehyde [2C]	11.2865	2.0	16.6667	0.972333	61.9	8 - 146	8.75	20	
Endrin ketone	14.9242	2.0	16.6667	ND	89.5	16 - 139	8.20	20	
Endrin ketone [2C]	14.4995	2.0	16.6667	ND	87.0	16 - 139	14.8	20	
gamma-BHC	14.4122	1.0	16.6667	ND	86.5	30 - 122	6.52	20	
gamma-BHC [2C]	14.8083	1.0	16.6667	ND	88.8	30 - 122	4.94	20	
gamma-Chlordane	14.5275	1.0	16.6667	ND	87.2	18 - 132	4.44	20	
gamma-Chlordane [2C]	14.2185	1.0	16.6667	ND	85.3	18 - 132	5.02	20	
Heptachlor	15.0220	1.0	16.6667	ND	90.1	34 - 122	6.03	20	
Heptachlor [2C]	15.6960	1.0	16.6667	ND	94.2	34 - 122	4.02	20	
Heptachlor epoxide	14.5797	1.0	16.6667	ND	87.5	21 - 135	5.64	20	
Heptachlor epoxide [2C]	14.2523	1.0	16.6667	ND	85.5	21 - 135	5.33	20	
Methoxychlor	15.6263	5.0	16.6667	ND	93.8	8 - 162	7.60	20	
Methoxychlor [2C]	16.7373	5.0	16.6667	ND	100	8 - 162	7.77	20	
Surrogate: Decachlorobiphenyl	*14.24*		*16.6667*		*85.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.05*		*16.6667*		*84.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.19*		*16.6667*		*85.2*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.97*		*16.6667*		*77.8*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0242 - GCSEMI_PCB/PEST_S									
Blank (B7A0242-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0242 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0242-BLK1) - Continued					Prepared: 1/9/2017 Analyzed: 1/10/2017				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*13.95*		*16.6667*		*83.7*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.04*		*16.6667*		*90.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.15*		*16.6667*		*90.9*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.77*		*16.6667*		*94.6*	*26 - 108*			
LCS (B7A0242-BS1)					Prepared: 1/9/2017 Analyzed: 1/10/2017				
4,4´-DDD	15.6792	2.0	16.6667		94.1	53 - 125			
4,4´-DDD [2C]	15.4505	2.0	16.6667		92.7	53 - 125			
4,4´-DDE	14.7732	2.0	16.6667		88.6	54 - 113			
4,4´-DDE [2C]	14.3188	2.0	16.6667		85.9	54 - 113			
4,4´-DDT	18.5407	2.0	16.6667		111	25 - 127			
4,4´-DDT [2C]	17.7203	2.0	16.6667		106	25 - 127			
Aldrin	14.4370	1.0	16.6667		86.6	59 - 107			
Aldrin [2C]	14.2312	1.0	16.6667		85.4	59 - 107			
alpha-BHC	14.3010	1.0	16.6667		85.8	59 - 104			
alpha-BHC [2C]	14.2740	1.0	16.6667		85.6	59 - 104			
alpha-Chlordane	14.7632	1.0	16.6667		88.6	54 - 110			
alpha-Chlordane [2C]	14.3557	1.0	16.6667		86.1	54 - 110			
beta-BHC	14.0673	1.0	16.6667		84.4	57 - 103			
beta-BHC [2C]	13.7778	1.0	16.6667		82.7	57 - 103			
delta-BHC	11.6518	1.0	16.6667		69.9	16 - 120			
delta-BHC [2C]	11.8120	1.0	16.6667		70.9	16 - 120			
Dieldrin	15.6085	2.0	16.6667		93.7	61 - 109			
Dieldrin [2C]	14.8990	2.0	16.6667		89.4	61 - 109			
Endosulfan I	14.7488	1.0	16.6667		88.5	60 - 106			
Endosulfan I [2C]	14.1448	1.0	16.6667		84.9	60 - 106			
Endosulfan II	14.8572	2.0	16.6667		89.1	59 - 108			
Endosulfan II [2C]	14.2822	2.0	16.6667		85.7	59 - 108			
Endosulfan sulfate	14.4438	2.0	16.6667		86.7	54 - 110			
Endosulfan Sulfate [2C]	14.3378	2.0	16.6667		86.0	54 - 110			
Endrin	16.7092	2.0	16.6667		100	63 - 112			
Endrin [2C]	16.1973	2.0	16.6667		97.2	63 - 112			
Endrin aldehyde	15.1350	2.0	16.6667		90.8	64 - 119			
Endrin aldehyde [2C]	14.6597	2.0	16.6667		88.0	64 - 119			
Endrin ketone	15.9107	2.0	16.6667		95.5	54 - 115			
Endrin ketone [2C]	15.5892	2.0	16.6667		93.5	54 - 115			
gamma-BHC	14.9977	1.0	16.6667		90.0	60 - 107			
gamma-BHC [2C]	14.8003	1.0	16.6667		88.8	60 - 107			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0242 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0242-BS1) - Continued					Prepared: 1/9/2017 Analyzed: 1/10/2017				
gamma-Chlordane	14.4023	1.0	16.6667		86.4	57 - 106			
gamma-Chlordane [2C]	14.1747	1.0	16.6667		85.0	57 - 106			
Heptachlor	15.4633	1.0	16.6667		92.8	54 - 114			
Heptachlor [2C]	15.0082	1.0	16.6667		90.0	54 - 114			
Heptachlor epoxide	14.4677	1.0	16.6667		86.8	61 - 106			
Heptachlor epoxide [2C]	14.1590	1.0	16.6667		85.0	61 - 106			
Methoxychlor	17.2537	5.0	16.6667		104	18 - 138			
Methoxychlor [2C]	17.8090	5.0	16.6667		107	18 - 138			
Surrogate: Decachlorobiphenyl	*13.61*		*16.6667*		*81.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*12.93*		*16.6667*		*77.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.01*		*16.6667*		*84.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.12*		*16.6667*		*90.7*	*26 - 108*			
Duplicate (B7A0242-DUP1)			**Source: 1700027-15**		Prepared: 1/9/2017 Analyzed: 1/10/2017				
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0242 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0242-DUP1) - Continued		**Source: 1700027-15**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*11.30*		*16.6667*		*67.8*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*12.23*		*16.6667*		*73.4*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*12.13*		*16.6667*		*72.8*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.69*		*16.6667*		*76.2*	*26 - 108*			
Matrix Spike (B7A0242-MS1)		**Source: 1700027-26**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	11.2527	2.0	16.6667	ND	67.5	25 - 141			
4,4´-DDD [2C]	11.8970	2.0	16.6667	ND	71.4	25 - 141			
4,4´-DDE	17.0397	2.0	16.6667	8.05417	53.9	22 - 141			
4,4´-DDE [2C]	17.6862	2.0	16.6667	8.16200	57.1	22 - 141			
4,4´-DDT	14.0557	2.0	16.6667	ND	84.3	15 - 136			
4,4´-DDT [2C]	14.4372	2.0	16.6667	ND	86.6	15 - 136			
Aldrin	10.1177	1.0	16.6667	ND	60.7	33 - 118			
Aldrin [2C]	10.3158	1.0	16.6667	ND	61.9	33 - 118			
alpha-BHC	9.31767	1.0	16.6667	ND	55.9	30 - 116			
alpha-BHC [2C]	8.74150	1.0	16.6667	ND	52.4	30 - 116			
alpha-Chlordane	10.5762	1.0	16.6667	ND	63.5	30 - 123			
alpha-Chlordane [2C]	11.1905	1.0	16.6667	ND	67.1	30 - 123			
beta-BHC	9.97067	1.0	16.6667	ND	59.8	24 - 121			
beta-BHC [2C]	9.99917	1.0	16.6667	ND	60.0	24 - 121			
delta-BHC	7.32667	1.0	16.6667	ND	44.0	7 - 120			
delta-BHC [2C]	8.35850	1.0	16.6667	ND	50.2	7 - 120			
Dieldrin	10.9220	2.0	16.6667	ND	65.5	25 - 136			
Dieldrin [2C]	11.4375	2.0	16.6667	ND	68.6	25 - 136			
Endosulfan I	10.3448	1.0	16.6667	ND	62.1	18 - 134			
Endosulfan I [2C]	11.1475	1.0	16.6667	ND	66.9	18 - 134			
Endosulfan II	9.60217	2.0	16.6667	ND	57.6	28 - 128			
Endosulfan II [2C]	10.0007	2.0	16.6667	ND	60.0	28 - 128			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0242 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0242-MS1) - Continued		**Source: 1700027-26**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Endosulfan sulfate	9.02217	2.0	16.6667	ND	54.1	5 - 145			
Endosulfan Sulfate [2C]	9.57133	2.0	16.6667	ND	57.4	5 - 145			
Endrin	11.9593	2.0	16.6667	ND	71.8	26 - 142			
Endrin [2C]	12.4532	2.0	16.6667	ND	74.7	26 - 142			
Endrin aldehyde	8.40517	2.0	16.6667	ND	50.4	8 - 146			
Endrin aldehyde [2C]	9.10000	2.0	16.6667	ND	54.6	8 - 146			
Endrin ketone	9.75583	2.0	16.6667	ND	58.5	16 - 139			
Endrin ketone [2C]	10.4882	2.0	16.6667	ND	62.9	16 - 139			
gamma-BHC	10.5615	1.0	16.6667	ND	63.4	30 - 122			
gamma-BHC [2C]	12.1510	1.0	16.6667	ND	72.9	30 - 122			
gamma-Chlordane	466.535	1.0	16.6667	ND	2800	18 - 132			M2
gamma-Chlordane [2C]	11.0263	1.0	16.6667	ND	66.2	18 - 132			
Heptachlor	10.9522	1.0	16.6667	ND	65.7	34 - 122			
Heptachlor [2C]	11.1385	1.0	16.6667	ND	66.8	34 - 122			
Heptachlor epoxide	9.36583	1.0	16.6667	ND	56.2	21 - 135			
Heptachlor epoxide [2C]	11.8107	1.0	16.6667	ND	70.9	21 - 135			
Methoxychlor	12.1603	5.0	16.6667	ND	73.0	8 - 162			
Methoxychlor [2C]	13.9517	5.0	16.6667	ND	83.7	8 - 162			
Surrogate: Decachlorobiphenyl	*10.09*		*16.6667*		*60.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*12.12*		*16.6667*		*72.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*7.476*		*16.6667*		*44.9*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.14*		*16.6667*		*66.8*	*26 - 108*			
Matrix Spike Dup (B7A0242-MSD1)		**Source: 1700027-26**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	13.5303	2.0	16.6667	ND	81.2	25 - 141	18.4	20	
4,4´-DDD [2C]	13.1810	2.0	16.6667	ND	79.1	25 - 141	10.2	20	
4,4´-DDE	20.4393	2.0	16.6667	8.05417	74.3	22 - 141	18.1	20	
4,4´-DDE [2C]	19.6468	2.0	16.6667	8.16200	68.9	22 - 141	10.5	20	
4,4´-DDT	16.5313	2.0	16.6667	ND	99.2	15 - 136	16.2	20	
4,4´-DDT [2C]	16.0877	2.0	16.6667	ND	96.5	15 - 136	10.8	20	
Aldrin	12.0658	1.0	16.6667	ND	72.4	33 - 118	17.6	20	
Aldrin [2C]	11.4013	1.0	16.6667	ND	68.4	33 - 118	10.0	20	
alpha-BHC	11.5737	1.0	16.6667	ND	69.4	30 - 116	21.6	20	R3
alpha-BHC [2C]	10.3005	1.0	16.6667	ND	61.8	30 - 116	16.4	20	
alpha-Chlordane	13.0788	1.0	16.6667	ND	78.5	30 - 123	21.2	20	R3
alpha-Chlordane [2C]	12.4195	1.0	16.6667	ND	74.5	30 - 123	10.4	20	
beta-BHC	11.7112	1.0	16.6667	ND	70.3	24 - 121	16.1	20	
beta-BHC [2C]	11.0668	1.0	16.6667	ND	66.4	24 - 121	10.1	20	
delta-BHC	9.33667	1.0	16.6667	ND	56.0	7 - 120	24.1	20	R3
delta-BHC [2C]	10.0648	1.0	16.6667	ND	60.4	7 - 120	18.5	20	
Dieldrin	13.4303	2.0	16.6667	ND	80.6	25 - 136	20.6	20	R3

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0242 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0242-MSD1) - Continued		**Source: 1700027-26**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Dieldrin [2C]	13.0832	2.0	16.6667	ND	78.5	25 - 136	13.4	20	
Endosulfan I	12.8078	1.0	16.6667	ND	76.8	18 - 134	21.3	20	R3
Endosulfan I [2C]	12.3678	1.0	16.6667	ND	74.2	18 - 134	10.4	20	
Endosulfan II	12.3167	2.0	16.6667	ND	73.9	28 - 128	24.8	20	R3
Endosulfan II [2C]	11.9680	2.0	16.6667	ND	71.8	28 - 128	17.9	20	
Endosulfan sulfate	11.5937	2.0	16.6667	ND	69.6	5 - 145	24.9	20	R3
Endosulfan Sulfate [2C]	11.7643	2.0	16.6667	ND	70.6	5 - 145	20.6	20	R3
Endrin	14.6970	2.0	16.6667	ND	88.2	26 - 142	20.5	20	R3
Endrin [2C]	14.2030	2.0	16.6667	ND	85.2	26 - 142	13.1	20	
Endrin aldehyde	11.6638	2.0	16.6667	ND	70.0	8 - 146	32.5	20	R3
Endrin aldehyde [2C]	10.7775	2.0	16.6667	ND	64.7	8 - 146	16.9	20	
Endrin ketone	12.6445	2.0	16.6667	ND	75.9	16 - 139	25.8	20	R3
Endrin ketone [2C]	13.0568	2.0	16.6667	ND	78.3	16 - 139	21.8	20	R3
gamma-BHC	13.0833	1.0	16.6667	ND	78.5	30 - 122	21.3	20	R3
gamma-BHC [2C]	13.4305	1.0	16.6667	ND	80.6	30 - 122	10.0	20	
gamma-Chlordane	507.535	1.0	16.6667	ND	3050	18 - 132	8.42	20	M2
gamma-Chlordane [2C]	12.2235	1.0	16.6667	ND	73.3	18 - 132	10.3	20	
Heptachlor	12.6360	1.0	16.6667	ND	75.8	34 - 122	14.3	20	
Heptachlor [2C]	12.6717	1.0	16.6667	ND	76.0	34 - 122	12.9	20	
Heptachlor epoxide	10.8050	1.0	16.6667	ND	64.8	21 - 135	14.3	20	
Heptachlor epoxide [2C]	13.0322	1.0	16.6667	ND	78.2	21 - 135	9.83	20	
Methoxychlor	15.0183	5.0	16.6667	ND	90.1	8 - 162	21.0	20	R3
Methoxychlor [2C]	16.1810	5.0	16.6667	ND	97.1	8 - 162	14.8	20	
Surrogate: Decachlorobiphenyl	*11.95*		*16.6667*		*71.7*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*12.00*		*16.6667*		*72.0*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*9.176*		*16.6667*		*55.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.88*		*16.6667*		*71.3*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0249 - GCSEMI_PCB/PEST_S									
Blank (B7A0249-BLK1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0249 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0249-BLK1) - Continued				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*11.86*		*16.6667*		*71.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*11.50*		*16.6667*		*69.0*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*12.75*		*16.6667*		*76.5*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.12*		*16.6667*		*84.7*	*26 - 108*			
LCS (B7A0249-BS1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
4,4´-DDD	14.4023	2.0	16.6667		86.4	53 - 125			
4,4´-DDD [2C]	14.1483	2.0	16.6667		84.9	53 - 125			
4,4´-DDE	13.7055	2.0	16.6667		82.2	54 - 113			
4,4´-DDE [2C]	13.0902	2.0	16.6667		78.5	54 - 113			
4,4´-DDT	16.2598	2.0	16.6667		97.6	25 - 127			
4,4´-DDT [2C]	14.6695	2.0	16.6667		88.0	25 - 127			
Aldrin	13.4317	1.0	16.6667		80.6	59 - 107			
Aldrin [2C]	13.0048	1.0	16.6667		78.0	59 - 107			
alpha-BHC	13.2860	1.0	16.6667		79.7	59 - 104			
alpha-BHC [2C]	12.9727	1.0	16.6667		77.8	59 - 104			
alpha-Chlordane	13.7148	1.0	16.6667		82.3	54 - 110			
alpha-Chlordane [2C]	13.0498	1.0	16.6667		78.3	54 - 110			
beta-BHC	13.1498	1.0	16.6667		78.9	57 - 103			
beta-BHC [2C]	12.5838	1.0	16.6667		75.5	57 - 103			
delta-BHC	10.6813	1.0	16.6667		64.1	16 - 120			
delta-BHC [2C]	10.6462	1.0	16.6667		63.9	16 - 120			
Dieldrin	14.5282	2.0	16.6667		87.2	61 - 109			
Dieldrin [2C]	13.5780	2.0	16.6667		81.5	61 - 109			
Endosulfan I	13.7018	1.0	16.6667		82.2	60 - 106			
Endosulfan I [2C]	12.9558	1.0	16.6667		77.7	60 - 106			
Endosulfan II	13.7957	2.0	16.6667		82.8	59 - 108			
Endosulfan II [2C]	13.0797	2.0	16.6667		78.5	59 - 108			
Endosulfan sulfate	13.4658	2.0	16.6667		80.8	54 - 110			
Endosulfan Sulfate [2C]	13.0777	2.0	16.6667		78.5	54 - 110			
Endrin	15.2687	2.0	16.6667		91.6	63 - 112			
Endrin [2C]	14.5860	2.0	16.6667		87.5	63 - 112			
Endrin aldehyde	14.1937	2.0	16.6667		85.2	64 - 119			
Endrin aldehyde [2C]	13.4275	2.0	16.6667		80.6	64 - 119			
Endrin ketone	14.9422	2.0	16.6667		89.7	54 - 115			
Endrin ketone [2C]	13.8028	2.0	16.6667		82.8	54 - 115			
gamma-BHC	13.9878	1.0	16.6667		83.9	60 - 107			
gamma-BHC [2C]	13.3882	1.0	16.6667		80.3	60 - 107			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0249 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0249-BS1) - Continued				Prepared: 1/10/2017 Analyzed: 1/11/2017					
gamma-Chlordane	13.4283	1.0	16.6667		80.6	57 - 106			
gamma-Chlordane [2C]	12.9395	1.0	16.6667		77.6	57 - 106			
Heptachlor	14.3863	1.0	16.6667		86.3	54 - 114			
Heptachlor [2C]	13.5980	1.0	16.6667		81.6	54 - 114			
Heptachlor epoxide	13.6030	1.0	16.6667		81.6	61 - 106			
Heptachlor epoxide [2C]	12.9892	1.0	16.6667		77.9	61 - 106			
Methoxychlor	15.3725	5.0	16.6667		92.2	18 - 138			
Methoxychlor [2C]	14.4642	5.0	16.6667		86.8	18 - 138			
Surrogate: Decachlorobiphenyl	*11.37*		*16.6667*		*68.2*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*10.67*		*16.6667*		*64.0*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*12.24*		*16.6667*		*73.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.60*		*16.6667*		*81.6*	*26 - 108*			
Duplicate (B7A0249-DUP1)			**Source: 1700027-59**	Prepared: 1/10/2017 Analyzed: 1/11/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0249 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0249-DUP1) - Continued		**Source: 1700027-59**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*14.48*		*16.6667*		*86.9*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.21*		*16.6667*		*85.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*12.81*		*16.6667*		*76.9*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.98*		*16.6667*		*83.9*	*26 - 108*			
Matrix Spike (B7A0249-MS1)		**Source: 1700027-59**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
4,4´-DDD	17.4343	2.0	16.6667	ND	105	25 - 141			
4,4´-DDD [2C]	16.7922	2.0	16.6667	ND	101	25 - 141			
4,4´-DDE	16.3162	2.0	16.6667	ND	97.9	22 - 141			
4,4´-DDE [2C]	15.7145	2.0	16.6667	ND	94.3	22 - 141			
4,4´-DDT	20.7390	2.0	16.6667	ND	124	15 - 136			
4,4´-DDT [2C]	18.3517	2.0	16.6667	ND	110	15 - 136			
Aldrin	16.1647	1.0	16.6667	ND	97.0	33 - 118			
Aldrin [2C]	15.5617	1.0	16.6667	ND	93.4	33 - 118			
alpha-BHC	16.2033	1.0	16.6667	ND	97.2	30 - 116			
alpha-BHC [2C]	15.9137	1.0	16.6667	ND	95.5	30 - 116			
alpha-Chlordane	16.5168	1.0	16.6667	ND	99.1	30 - 123			
alpha-Chlordane [2C]	15.6877	1.0	16.6667	ND	94.1	30 - 123			
beta-BHC	16.1495	1.0	16.6667	ND	96.9	24 - 121			
beta-BHC [2C]	15.5638	1.0	16.6667	ND	93.4	24 - 121			
delta-BHC	13.0180	1.0	16.6667	ND	78.1	7 - 120			
delta-BHC [2C]	13.1100	1.0	16.6667	ND	78.7	7 - 120			
Dieldrin	17.4002	2.0	16.6667	ND	104	25 - 136			
Dieldrin [2C]	16.2585	2.0	16.6667	ND	97.6	25 - 136			
Endosulfan I	16.3067	1.0	16.6667	ND	97.8	18 - 134			
Endosulfan I [2C]	15.3325	1.0	16.6667	ND	92.0	18 - 134			
Endosulfan II	16.7455	2.0	16.6667	ND	100	28 - 128			
Endosulfan II [2C]	15.7597	2.0	16.6667	ND	94.6	28 - 128			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0249 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0249-MS1) - Continued		**Source: 1700027-59**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Endosulfan sulfate	16.2230	2.0	16.6667	ND	97.3	5 - 145			
Endosulfan Sulfate [2C]	15.5905	2.0	16.6667	ND	93.5	5 - 145			
Endrin	18.7888	2.0	16.6667	ND	113	26 - 142			
Endrin [2C]	17.7325	2.0	16.6667	ND	106	26 - 142			
Endrin aldehyde	16.7918	2.0	16.6667	ND	101	8 - 146			
Endrin aldehyde [2C]	15.6287	2.0	16.6667	ND	93.8	8 - 146			
Endrin ketone	18.0045	2.0	16.6667	ND	108	16 - 139			
Endrin ketone [2C]	17.0785	2.0	16.6667	ND	102	16 - 139			
gamma-BHC	17.0622	1.0	16.6667	ND	102	30 - 122			
gamma-BHC [2C]	16.3607	1.0	16.6667	ND	98.2	30 - 122			
gamma-Chlordane	16.0887	1.0	16.6667	ND	96.5	18 - 132			
gamma-Chlordane [2C]	15.4932	1.0	16.6667	ND	93.0	18 - 132			
Heptachlor	17.2123	1.0	16.6667	ND	103	34 - 122			
Heptachlor [2C]	16.1365	1.0	16.6667	ND	96.8	34 - 122			
Heptachlor epoxide	16.1650	1.0	16.6667	ND	97.0	21 - 135			
Heptachlor epoxide [2C]	15.3773	1.0	16.6667	ND	92.3	21 - 135			
Methoxychlor	19.2877	5.0	16.6667	ND	116	8 - 162			
Methoxychlor [2C]	17.8692	5.0	16.6667	ND	107	8 - 162			
Surrogate: Decachlorobiphenyl	*14.80*		*16.6667*		*88.8*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.61*		*16.6667*		*93.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.88*		*16.6667*		*83.3*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.39*		*16.6667*		*92.4*	*26 - 108*			
Matrix Spike Dup (B7A0249-MSD1)		**Source: 1700027-59**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
4,4´-DDD	16.8328	2.0	16.6667	ND	101	25 - 141	3.51	20	
4,4´-DDD [2C]	16.3900	2.0	16.6667	ND	98.3	25 - 141	2.42	20	
4,4´-DDE	15.7897	2.0	16.6667	ND	94.7	22 - 141	3.28	20	
4,4´-DDE [2C]	15.3418	2.0	16.6667	ND	92.1	22 - 141	2.40	20	
4,4´-DDT	19.9105	2.0	16.6667	ND	119	15 - 136	4.08	20	
4,4´-DDT [2C]	18.2117	2.0	16.6667	ND	109	15 - 136	0.766	20	
Aldrin	15.7432	1.0	16.6667	ND	94.5	33 - 118	2.64	20	
Aldrin [2C]	15.2205	1.0	16.6667	ND	91.3	33 - 118	2.22	20	
alpha-BHC	15.8390	1.0	16.6667	ND	95.0	30 - 116	2.27	20	
alpha-BHC [2C]	15.6218	1.0	16.6667	ND	93.7	30 - 116	1.85	20	
alpha-Chlordane	16.0813	1.0	16.6667	ND	96.5	30 - 123	2.67	20	
alpha-Chlordane [2C]	15.2928	1.0	16.6667	ND	91.8	30 - 123	2.55	20	
beta-BHC	15.6688	1.0	16.6667	ND	94.0	24 - 121	3.02	20	
beta-BHC [2C]	15.3153	1.0	16.6667	ND	91.9	24 - 121	1.61	20	
delta-BHC	12.6517	1.0	16.6667	ND	75.9	7 - 120	2.85	20	
delta-BHC [2C]	12.9057	1.0	16.6667	ND	77.4	7 - 120	1.57	20	
Dieldrin	16.8962	2.0	16.6667	ND	101	25 - 136	2.94	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0249 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0249-MSD1) - Continued		**Source: 1700027-59**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Dieldrin [2C]	15.8267	2.0	16.6667	ND	95.0	25 - 136	2.69	20	
Endosulfan I	15.8717	1.0	16.6667	ND	95.2	18 - 134	2.70	20	
Endosulfan I [2C]	14.9655	1.0	16.6667	ND	89.8	18 - 134	2.42	20	
Endosulfan II	16.1365	2.0	16.6667	ND	96.8	28 - 128	3.70	20	
Endosulfan II [2C]	15.3622	2.0	16.6667	ND	92.2	28 - 128	2.55	20	
Endosulfan sulfate	15.2415	2.0	16.6667	ND	91.4	5 - 145	6.24	20	
Endosulfan Sulfate [2C]	14.7595	2.0	16.6667	ND	88.6	5 - 145	5.48	20	
Endrin	18.1480	2.0	16.6667	ND	109	26 - 142	3.47	20	
Endrin [2C]	17.2848	2.0	16.6667	ND	104	26 - 142	2.56	20	
Endrin aldehyde	16.0523	2.0	16.6667	ND	96.3	8 - 146	4.50	20	
Endrin aldehyde [2C]	15.1525	2.0	16.6667	ND	90.9	8 - 146	3.09	20	
Endrin ketone	16.9265	2.0	16.6667	ND	102	16 - 139	6.17	20	
Endrin ketone [2C]	16.0297	2.0	16.6667	ND	96.2	16 - 139	6.34	20	
gamma-BHC	16.6755	1.0	16.6667	ND	100	30 - 122	2.29	20	
gamma-BHC [2C]	16.0767	1.0	16.6667	ND	96.5	30 - 122	1.75	20	
gamma-Chlordane	15.6452	1.0	16.6667	ND	93.9	18 - 132	2.80	20	
gamma-Chlordane [2C]	15.0678	1.0	16.6667	ND	90.4	18 - 132	2.78	20	
Heptachlor	16.7563	1.0	16.6667	ND	101	34 - 122	2.68	20	
Heptachlor [2C]	15.8047	1.0	16.6667	ND	94.8	34 - 122	2.08	20	
Heptachlor epoxide	15.7247	1.0	16.6667	ND	94.3	21 - 135	2.76	20	
Heptachlor epoxide [2C]	15.0087	1.0	16.6667	ND	90.1	21 - 135	2.43	20	
Methoxychlor	18.3033	5.0	16.6667	ND	110	8 - 162	5.24	20	
Methoxychlor [2C]	17.6023	5.0	16.6667	ND	106	8 - 162	1.50	20	
Surrogate: Decachlorobiphenyl	*14.52*		*16.6667*		*87.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.94*		*16.6667*		*89.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.56*		*16.6667*		*81.3*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.10*		*16.6667*		*90.6*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0250 - GCSEMI_PCB/PEST_S									
Blank (B7A0250-BLK1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0250 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0250-BLK1) - Continued				Prepared: 1/9/2017 Analyzed: 1/10/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*15.17*		*16.6667*		*91.0*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*23.84*		*16.6667*		*143*	*27 - 123*			S1
Surrogate: Tetrachloro-m-xylene	*15.74*		*16.6667*		*94.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*17.66*		*16.6667*		*106*	*26 - 108*			
LCS (B7A0250-BS1)				Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	14.6850	2.0	16.6667		88.1	53 - 125			
4,4´-DDD [2C]	16.0863	2.0	16.6667		96.5	53 - 125			
4,4´-DDE	13.5773	2.0	16.6667		81.5	54 - 113			
4,4´-DDE [2C]	15.0925	2.0	16.6667		90.6	54 - 113			
4,4´-DDT	11.9492	2.0	16.6667		71.7	25 - 127			
4,4´-DDT [2C]	13.4198	2.0	16.6667		80.5	25 - 127			
Aldrin	13.8723	1.0	16.6667		83.2	59 - 107			
Aldrin [2C]	14.8270	1.0	16.6667		89.0	59 - 107			
alpha-BHC	14.0373	1.0	16.6667		84.2	59 - 104			
alpha-BHC [2C]	15.2580	1.0	16.6667		91.5	59 - 104			
alpha-Chlordane	13.5548	1.0	16.6667		81.3	54 - 110			
alpha-Chlordane [2C]	15.2927	1.0	16.6667		91.8	54 - 110			
beta-BHC	14.0028	1.0	16.6667		84.0	57 - 103			
beta-BHC [2C]	15.1852	1.0	16.6667		91.1	57 - 103			
delta-BHC	11.5717	1.0	16.6667		69.4	16 - 120			
delta-BHC [2C]	12.1058	1.0	16.6667		72.6	16 - 120			
Dieldrin	13.6573	2.0	16.6667		81.9	61 - 109			
Dieldrin [2C]	15.3118	2.0	16.6667		91.9	61 - 109			
Endosulfan I	13.3683	1.0	16.6667		80.2	60 - 106			
Endosulfan I [2C]	15.2525	1.0	16.6667		91.5	60 - 106			
Endosulfan II	12.8540	2.0	16.6667		77.1	59 - 108			
Endosulfan II [2C]	14.2953	2.0	16.6667		85.8	59 - 108			
Endosulfan sulfate	12.3712	2.0	16.6667		74.2	54 - 110			
Endosulfan Sulfate [2C]	13.8402	2.0	16.6667		83.0	54 - 110			
Endrin	14.2378	2.0	16.6667		85.4	63 - 112			
Endrin [2C]	16.1875	2.0	16.6667		97.1	63 - 112			
Endrin aldehyde	13.3180	2.0	16.6667		79.9	64 - 119			
Endrin aldehyde [2C]	12.9218	2.0	16.6667		77.5	64 - 119			
Endrin ketone	13.6412	2.0	16.6667		81.8	54 - 115			
Endrin ketone [2C]	16.0473	2.0	16.6667		96.3	54 - 115			
gamma-BHC	14.5705	1.0	16.6667		87.4	60 - 107			
gamma-BHC [2C]	15.7797	1.0	16.6667		94.7	60 - 107			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0250 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0250-BS1) - Continued				Prepared: 1/9/2017 Analyzed: 1/10/2017					
gamma-Chlordane	13.3950	1.0	16.6667		80.4	57 - 106			
gamma-Chlordane [2C]	14.5265	1.0	16.6667		87.2	57 - 106			
Heptachlor	14.4860	1.0	16.6667		86.9	54 - 114			
Heptachlor [2C]	16.5178	1.0	16.6667		99.1	54 - 114			
Heptachlor epoxide	13.7050	1.0	16.6667		82.2	61 - 106			
Heptachlor epoxide [2C]	15.0267	1.0	16.6667		90.2	61 - 106			
Methoxychlor	12.2015	5.0	16.6667		73.2	18 - 138			
Methoxychlor [2C]	15.9088	5.0	16.6667		95.5	18 - 138			
Surrogate: Decachlorobiphenyl	*13.08*		*16.6667*		*78.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.78*		*16.6667*		*94.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.31*		*16.6667*		*91.9*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.98*		*16.6667*		*89.9*	*26 - 108*			
Duplicate (B7A0250-DUP1)		**Source: 1700027-72**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0250 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0250-DUP1) - Continued		**Source: 1700027-72**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*13.61*		*16.6667*		*81.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.43*		*16.6667*		*86.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.29*		*16.6667*		*85.7*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.62*		*16.6667*		*81.7*	*26 - 108*			
Matrix Spike (B7A0250-MS1)		**Source: 1700027-72**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	15.2653	2.0	16.6667	ND	91.6	25 - 141			
4,4´-DDD [2C]	14.4032	2.0	16.6667	ND	86.4	25 - 141			
4,4´-DDE	14.1162	2.0	16.6667	ND	84.7	22 - 141			
4,4´-DDE [2C]	13.8267	2.0	16.6667	ND	83.0	22 - 141			
4,4´-DDT	13.8778	2.0	16.6667	ND	83.3	15 - 136			
4,4´-DDT [2C]	13.1982	2.0	16.6667	ND	79.2	15 - 136			
Aldrin	14.5393	1.0	16.6667	ND	87.2	33 - 118			
Aldrin [2C]	13.3850	1.0	16.6667	ND	80.3	33 - 118			
alpha-BHC	14.8935	1.0	16.6667	ND	89.4	30 - 116			
alpha-BHC [2C]	14.0412	1.0	16.6667	ND	84.2	30 - 116			
alpha-Chlordane	14.1058	1.0	16.6667	ND	84.6	30 - 123			
alpha-Chlordane [2C]	13.9578	1.0	16.6667	ND	83.7	30 - 123			
beta-BHC	14.9495	1.0	16.6667	ND	89.7	24 - 121			
beta-BHC [2C]	13.8440	1.0	16.6667	ND	83.1	24 - 121			
delta-BHC	12.2842	1.0	16.6667	ND	73.7	7 - 120			
delta-BHC [2C]	11.3652	1.0	16.6667	ND	68.2	7 - 120			
Dieldrin	14.3682	2.0	16.6667	ND	86.2	25 - 136			
Dieldrin [2C]	14.0267	2.0	16.6667	ND	84.2	25 - 136			
Endosulfan I	13.8380	1.0	16.6667	ND	83.0	18 - 134			
Endosulfan I [2C]	13.7703	1.0	16.6667	ND	82.6	18 - 134			
Endosulfan II	13.7858	2.0	16.6667	ND	82.7	28 - 128			
Endosulfan II [2C]	12.9827	2.0	16.6667	ND	77.9	28 - 128			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0250 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0250-MS1) - Continued		**Source: 1700027-72**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Endosulfan sulfate	13.4062	2.0	16.6667	ND	80.4	5 - 145			
Endosulfan Sulfate [2C]	13.3867	2.0	16.6667	ND	80.3	5 - 145			
Endrin	15.1508	2.0	16.6667	ND	90.9	26 - 142			
Endrin [2C]	14.8782	2.0	16.6667	ND	89.3	26 - 142			
Endrin aldehyde	14.2057	2.0	16.6667	ND	85.2	8 - 146			
Endrin aldehyde [2C]	13.6043	2.0	16.6667	ND	81.6	8 - 146			
Endrin ketone	15.7590	2.0	16.6667	ND	94.6	16 - 139			
Endrin ketone [2C]	13.7715	2.0	16.6667	ND	82.6	16 - 139			
gamma-BHC	15.3995	1.0	16.6667	ND	92.4	30 - 122			
gamma-BHC [2C]	14.4745	1.0	16.6667	ND	86.8	30 - 122			
gamma-Chlordane	14.0517	1.0	16.6667	ND	84.3	18 - 132			
gamma-Chlordane [2C]	13.2800	1.0	16.6667	ND	79.7	18 - 132			
Heptachlor	15.0885	1.0	16.6667	ND	90.5	34 - 122			
Heptachlor [2C]	15.2300	1.0	16.6667	ND	91.4	34 - 122			
Heptachlor epoxide	14.3763	1.0	16.6667	ND	86.3	21 - 135			
Heptachlor epoxide [2C]	13.5660	1.0	16.6667	ND	81.4	21 - 135			
Methoxychlor	13.8630	5.0	16.6667	ND	83.2	8 - 162			
Methoxychlor [2C]	15.0760	5.0	16.6667	ND	90.5	8 - 162			
Surrogate: Decachlorobiphenyl	*13.84*		*16.6667*		*83.0*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.62*		*16.6667*		*87.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.58*		*16.6667*		*93.5*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.53*		*16.6667*		*81.2*	*26 - 108*			
Matrix Spike Dup (B7A0250-MSD1)		**Source: 1700027-72**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
4,4´-DDD	15.4042	2.0	16.6667	ND	92.4	25 - 141	0.905	20	
4,4´-DDD [2C]	14.4630	2.0	16.6667	ND	86.8	25 - 141	0.415	20	
4,4´-DDE	14.1698	2.0	16.6667	ND	85.0	22 - 141	0.379	20	
4,4´-DDE [2C]	13.7068	2.0	16.6667	ND	82.2	22 - 141	0.871	20	
4,4´-DDT	14.0960	2.0	16.6667	ND	84.6	15 - 136	1.56	20	
4,4´-DDT [2C]	13.1660	2.0	16.6667	ND	79.0	15 - 136	0.244	20	
Aldrin	14.4332	1.0	16.6667	ND	86.6	33 - 118	0.733	20	
Aldrin [2C]	13.2645	1.0	16.6667	ND	79.6	33 - 118	0.904	20	
alpha-BHC	15.0943	1.0	16.6667	ND	90.6	30 - 116	1.34	20	
alpha-BHC [2C]	14.2872	1.0	16.6667	ND	85.7	30 - 116	1.74	20	
alpha-Chlordane	14.1337	1.0	16.6667	ND	84.8	30 - 123	0.197	20	
alpha-Chlordane [2C]	13.7883	1.0	16.6667	ND	82.7	30 - 123	1.22	20	
beta-BHC	15.1250	1.0	16.6667	ND	90.7	24 - 121	1.17	20	
beta-BHC [2C]	13.9855	1.0	16.6667	ND	83.9	24 - 121	1.02	20	
delta-BHC	12.4280	1.0	16.6667	ND	74.6	7 - 120	1.16	20	
delta-BHC [2C]	11.2505	1.0	16.6667	ND	67.5	7 - 120	1.01	20	
Dieldrin	14.4153	2.0	16.6667	ND	86.5	25 - 136	0.328	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0250 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0250-MSD1) - Continued		**Source: 1700027-72**		Prepared: 1/9/2017 Analyzed: 1/10/2017					
Dieldrin [2C]	13.9047	2.0	16.6667	ND	83.4	25 - 136	0.874	20	
Endosulfan I	13.9583	1.0	16.6667	ND	83.7	18 - 134	0.866	20	
Endosulfan I [2C]	13.6503	1.0	16.6667	ND	81.9	18 - 134	0.875	20	
Endosulfan II	14.0498	2.0	16.6667	ND	84.3	28 - 128	1.90	20	
Endosulfan II [2C]	12.9683	2.0	16.6667	ND	77.8	28 - 128	0.111	20	
Endosulfan sulfate	13.4205	2.0	16.6667	ND	80.5	5 - 145	0.107	20	
Endosulfan Sulfate [2C]	12.7917	2.0	16.6667	ND	76.8	5 - 145	4.55	20	
Endrin	15.1555	2.0	16.6667	ND	90.9	26 - 142	0.0308	20	
Endrin [2C]	14.8782	2.0	16.6667	ND	89.3	26 - 142	0.00	20	
Endrin aldehyde	14.2567	2.0	16.6667	ND	85.5	8 - 146	0.358	20	
Endrin aldehyde [2C]	13.6687	2.0	16.6667	ND	82.0	8 - 146	0.472	20	
Endrin ketone	14.9492	2.0	16.6667	ND	89.7	16 - 139	5.27	20	
Endrin ketone [2C]	13.6620	2.0	16.6667	ND	82.0	16 - 139	0.798	20	
gamma-BHC	15.5705	1.0	16.6667	ND	93.4	30 - 122	1.10	20	
gamma-BHC [2C]	14.5802	1.0	16.6667	ND	87.5	30 - 122	0.727	20	
gamma-Chlordane	13.9488	1.0	16.6667	ND	83.7	18 - 132	0.735	20	
gamma-Chlordane [2C]	13.1627	1.0	16.6667	ND	79.0	18 - 132	0.887	20	
Heptachlor	15.2178	1.0	16.6667	ND	91.3	34 - 122	0.853	20	
Heptachlor [2C]	15.1087	1.0	16.6667	ND	90.7	34 - 122	0.800	20	
Heptachlor epoxide	14.3460	1.0	16.6667	ND	86.1	21 - 135	0.211	20	
Heptachlor epoxide [2C]	13.4573	1.0	16.6667	ND	80.7	21 - 135	0.804	20	
Methoxychlor	14.1408	5.0	16.6667	ND	84.8	8 - 162	1.98	20	
Methoxychlor [2C]	15.1052	5.0	16.6667	ND	90.6	8 - 162	0.193	20	
Surrogate: Decachlorobiphenyl	*13.45*		*16.6667*		*80.7*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.28*		*16.6667*		*97.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.59*		*16.6667*		*93.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.42*		*16.6667*		*80.5*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0217 - GCSEMI_PCB/PEST_S									
Blank (B7A0217-BLK1)				Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	ND	16			NR				
Aroclor 1221	ND	16			NR				
Aroclor 1232	ND	16			NR				
Aroclor 1242	ND	16			NR				
Aroclor 1248	ND	16			NR				
Aroclor 1254	ND	16			NR				
Aroclor 1260	ND	16			NR				
Aroclor 1262	ND	16			NR				
Aroclor 1268	ND	16			NR				
Surrogate: Decachlorobiphenyl	*15.94*		*16.6667*		*95.7*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.85*		*16.6667*		*107*	*28 - 102*			S1
LCS (B7A0217-BS1)				Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	160.662	16	166.667		96.4	70 - 107			
Aroclor 1260	176.765	16	166.667		106	69 - 120			
Surrogate: Decachlorobiphenyl	*15.69*		*16.6667*		*94.2*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.13*		*16.6667*		*103*	*28 - 102*			S12
Duplicate (B7A0217-DUP1)		**Source: 1604921-32**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	ND	16		ND	NR			20	
Aroclor 1260	ND	16		ND	NR			20	
Surrogate: Decachlorobiphenyl	*15.69*		*16.6667*		*94.1*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*16.86*		*16.6667*		*101*	*28 - 102*			
Matrix Spike (B7A0217-MS1)		**Source: 1604923-11**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	177.864	16	166.667	ND	107	34 - 120			
Aroclor 1260	196.301	16	166.667	ND	118	39 - 128			
Surrogate: Decachlorobiphenyl	*16.90*		*16.6667*		*101*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*18.34*		*16.6667*		*110*	*28 - 102*			S12
Matrix Spike Dup (B7A0217-MSD1)		**Source: 1604923-11**		Prepared: 1/9/2017 Analyzed: 1/9/2017					
Aroclor 1016	170.224	16	166.667	ND	102	34 - 120	4.39	20	
Aroclor 1260	188.448	16	166.667	ND	113	39 - 128	4.08	20	
Surrogate: Decachlorobiphenyl	*16.27*		*16.6667*		*97.6*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.68*		*16.6667*		*106*	*28 - 102*			S12

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/12/2017

Notes and Definitions

S12	Surrogate recovery outside in-house established limit but within method default criteria.
S1	Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample.
R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 3

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	5.7, 5.	
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc. (LCI)	Address: 17781 Cowan			Tel: 949-250-1421
	City: Irvine	State: CA	Zip: 92614	Fax: 949-250-1114

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Julie Hamman Email: jhamman@leightongroup.com	Attn: AccountsPayable Email: acctpayable@leightongroup.com
Company: LCI	Company: Leighton
Address: 17781 Cowan	Address: 17781 Cowan
City: Irvine State: CA Zip: 92614	City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS
Project No.: 603378.006
Sampler: W. Scoviers
Quote No: —
PO #: —
Special Instructions/Comments: Standard TAT

Encircle or Write Requested Analysis

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	(6010/7000 Arsenic	(6010/7000 Lead	Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV	REMARKS
1	1700027 - 1	EB22-1-0.5	1-3-17	0730					X				X	X	X					5	1	5	1	-		
2	- 2	EB22-1-0.5-D		0730					X	X			X	X												
3	- 3	EB22-1-1.5		0732					X				X	X												
4	- 4	EB22-1-1.5-D		0732					X				X	X												
5	- 5	EB22-1-2.5		0734																						HOLD
6	- 6	EB23-2-0.5		0745					X				X	X												
7	- 7	EB23-2-0.5-D		0745					X				X	X												
8	- 8	EB23-2-1.5		0746					X				X	X												
9	- 9	~~EB23~~ WBS 1-3-17 EB23-2-2.5		0749																						HOLD
10	- 10	EB24-5-0.5	↓	0756					X				X	X	↓					↓	↓	↓	↓	↓		

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab — ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scoviers — Submitter Print Name — Signature

Relinquished by: (Signature and Printed Name) Wallace Scoviers	Date: 1-3-17	Time: 1735	Received by: (Signature and Printed Name)	Date: 1-3-17	Time: 1835
Relinquished by: (Signature and Printed Name)	Date: 1-3-17	Time: 1935	Received by: (Signature and Printed Name) FEDEX	Date: 1/3/17	Time: 1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State:	Zip: Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Lead 7420/7421; Arsenic 7060/7061

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE/ FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1700027 - 11	EB24-S-0.5-D	1-3-17	0756	5	1	5	1	1	
2	- 12	EB24-S-1.0		0759						
3	- 13	EB24-S-1.0-D		0759						
4	- 14	EB24-4-0.5		0807						
5	- 15	EB24-4-0.5-D		0807						
6	- 16	EB24-4-1.5		0809						
7	- 17	EB24-4-1.5-D		0809						
8	- 18	EB24-4-2.5		0811						HOLD
9	- 19	EB25-1-0.5		0825						
10	- 20	EB25-1-0.5-D	↓	0825	↓	↓	↓	↓	↓	

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Stonich — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name) Wallace Stonich	Date: 1-3-17	Time: 1855	Received by: (Signature and Printed Name)	Date: 1-3-17	Time: 1855
Relinquished by: (Signature and Printed Name)	Date: 1-3-17	Time: 1956	Received by: (Signature and Printed Name) Thomas	Date: 1/3/17	Time: 1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page 11	Company:
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010/7000 Arsenic	6010/7000 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC / REMARKS
1	1700027-4	EB25-1-1.5	1-3-17	0827					X				X	X	X					5	1	5	1	1	
2	-22	EB25-1-2.5		0829																				HOLD
3	-23	EB3-1-0.5		0856					X	X			X	X										
4	-24	EB3-1-0.5-D		0856																				HOLD
5	-25	EB3-1-1.5		0858					X				X	X										
6	-26	EB3-1-1.5-D		0858					X				X	X										
7	-27	EB3-1-2.5		0900																				HOLD
8	-28	EB16-1-0.5		0920					X				X	X										
9	-29	EB16-1-1.5		0921					X				X	X										
10	-30	EB16-1-2.5		0922																				HOLD

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seemen — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seemen	1-3-17	1855		1-3-17	1855
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	1-3-17	1935	FedEx	1/3/17	1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email: See Page	Attn: Email:
Company:	Company:
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010/7000 Arsenic	6010/7000 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	17000127-31	EB2C-1-0.5	1-3-17	1020					X	X			X	X	X					5	1	5	1	1	
2	-32	EB2C-1-0.5-D		1020					X				X	X											
3	-33	EB2C-1-1.5		1021					X				X	X											
4	-34	EB2C-1-2.5		1022																					HOLD
5	-35	EB2C-2-0.5		1027					X				X	X											
6	-36	EB2C-2-0.5-D		1027					X				X	X											
7	-37	EB2C-2-1.5		1028					X				X	X											
8	-38	EB2C-2-2.5		1029																					HOLD
9	-39	EB2C-3-0.5		1032					X				X	X											
10	-40	EB2C-3-0.5-D		1032					X				X	X											

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab — ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scomis — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scomis	1-3-17	1935	Jonathan Lee	1-3-17	1935
Jonathan Lee	1-3-17	1935	Frans	1/3/17	1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only					ATLCOC Ver: 20130715
Method of Transport	**Sample Conditions Upon Receipt**				
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page	Address: #1
City: State: Zip	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

| ITEM | Lab No. | Sample Description: Sample ID / Location | Date | Time | 8260 / 624 (Volatiles) | 8015(GRO) | 8015(DRO) | 8270(Semi-volatiles) | 8081(Organochlorine Pesticides) | 8082(PCBs) | 6010 / 7000(Title 22 Metals) | TO-15 | Lead/Tec Arsenic | Lead/Tec Lead | | | | |

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page	Company:
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	LUFT 6000 Arsenic	LUFT 6000 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1700027 -51	EB2C-6-1.5	1-3-17	1236					X			X	X	X	X					5	1	5	1	1	
2	-52	EB2C-6-1.5-D		1236					X			X	X	X	X										
3	-53	EB2C-6-2.5		1237																					HOLD
4	-54	EB2C-5-0.5		1257					X			X	X	X	X										
5	-55	EB2C-5-0.5-D		1257					X			X	X	X	X										
6	-56	EB2C-5-1.5		1258					X			X	X	X	X										
7	-57	EB2C-5-1.5-D		1258					X			X	X	X	X										
8	-58	EB2C-5-2.5		1259																					HOLD
9	-59	EB2C-7-0.5		1300					X			X	X	X	X										
10	-60	EB2C-7-1.5		1301					X			X	X	X	X										

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container

QA/QC
- ☐ Routine
- ☐ Caltrans
- ☐ Legal
- ☐ RWQCB
- ☐ Level IV

TERMS & CONDITIONS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge -SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees.
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamens — Submitter Print Name

Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
J. Wallace Seamens	1-3-17	1835		1-3-17	1835
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	1-3-17	1935	Rojas	1/3/17	1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED ATECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address:
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010 Tccc Arsenic	6010 Tccc Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Container: Type (1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister)	Container: Material (1=Glass; 2=Plastic; 3=Metal)	Preservative (1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2SO3)	QA/QC / REMARKS
1	1700027-01	EB20-7-2.5	1-3-17	1302											X					5	1	5	1	-	HOLD
2	-02	EB20-8-0.5		1310					X				X	X											
3	-03	EB20-8-0.5-D		1310					X				X	X											
4	-04	EB20-8-1.5		1311					X				X	X											
5	-05	EB20-8-1.5-D		1311					X				X	X											
6	-06	EB20-8-2.5		1312																					HOLD
7	-07	EB25-2-0.5		1450					X				X	X											
8	-08	EB23-1-0.5		1505					X				X	X											
9	-09	EB23-1-1.5		1506					X				X	X											
10	-10	EB23-1-2.5	↓	1507											↓					↓	↓	↓	↓	↓	HOLD

TERMS & CONDITIONS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamers — Submitter Print Name | Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seamers	1-3-17	1835		1-3-17	1835
	1-3-17	1935	Fedex	1/3/17	1935

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 8 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only					ATLCOC Ver: 20130715
Method of Transport		**Sample Conditions Upon Receipt**			
		Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL		1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac		2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____		4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State: Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page	Company: #1
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010/7000 Arsenic	6010/7000 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Type	Material	Preservative	QA/QC / REMARKS
1	1700027 -71	EB6-3-0.5	1-3-17	1548					X				X	X	X					5	1	5	1	-	
2	-72	EB6-3-1.5	↓	1549					X				X	X	X					5	1	5	1	-	
3	-73	EB6-3-2.5	↓	1550																					HOLD
4																									
5																									
6																									
7																									
8																									
9																									
10																									

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container: **Type:** 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister; **Material:** 1=Glass; 2=Plastic; 3=Metal; **Preservative:** 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS & CONDITIONS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab ··· ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Stemicio — Submitter Print Name

Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Stemicio	1-3-17	1835		1-3-17	1835
	1-3-17	1955		1/3/17	1935

ADVANCED TECHNOLOGY LABORATORIES

January 20, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1700027
Client Reference : Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on January 03, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	01/20/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB23-2-0.5-D	1700027-07	Soil	1/03/17 7:45	1/03/17 18:35
EB16-1-1.5	1700027-29	Soil	1/03/17 9:21	1/03/17 18:35
EB20-2-1.5	1700027-37	Soil	1/03/17 10:28	1/03/17 18:35
EB20-6-0.5	1700027-49	Soil	1/03/17 12:35	1/03/17 18:35
EB20-6-0.5-D	1700027-50	Soil	1/03/17 12:35	1/03/17 18:35
EB23-1-0.5	1700027-68	Soil	1/03/17 15:45	1/03/17 18:35

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	01/20/2017

Client Sample ID EB23-2-0.5-D

Lab ID: 1700027-07

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:28	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.0**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:49	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB16-1-1.5

Lab ID: 1700027-29

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.64**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:51	D1, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB20-2-1.5

Lab ID: 1700027-37

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.56**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:52	D1, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB20-6-0.5

Lab ID: 1700027-49

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.3**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:55	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB20-6-0.5-D

Lab ID: 1700027-50

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.041**	0.25	0.014	5	B7A0565	01/19/2017	01/19/17 16:31	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**10**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:57	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Client Sample ID EB23-1-0.5

Lab ID: 1700027-68

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.24**	1.0	0.057	20	B7A0562	01/19/2017	01/19/17 15:58	D1, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0565 - EPA 3010A_S									
Blank (B7A0565-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	0.050			NR				
Blank (B7A0565-BLK2)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	0.050			NR				
LCS (B7A0565-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	1.00048	0.050	1.00000		100	80 - 120			
Duplicate (B7A0565-DUP1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	0.033328	0.25		0.042393	NR		23.9	20	R, J
Duplicate (B7A0565-DUP2)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	0.111112	0.25		0.136256	NR		20.3	20	R, J
Matrix Spike (B7A0565-MS1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.36348	0.25	2.50000	0.042393	92.8	78 - 109			
Matrix Spike (B7A0565-MS2)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.47318	0.25	2.50000	0.136256	93.5	78 - 109			
Matrix Spike Dup (B7A0565-MSD1)		**Source: 1700068-97**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	2.29686	0.25	2.50000	0.042393	90.2	78 - 109	2.86	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0562 - STLC_S Extraction									
Blank (B7A0562-BLK1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	1.0			NR				
Blank (B7A0562-BLK2)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	ND	1.0			NR				
LCS (B7A0562-BS1)				Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	1.95830		2.00000		97.9	80 - 120			
Duplicate (B7A0562-DUP1)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	7.36136	1.0		6.66843	NR		9.88	20	
Duplicate (B7A0562-DUP2)		**Source: 1700068-16**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	1.54080	1.0		1.54702	NR		0.403	20	
Matrix Spike (B7A0562-MS1)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	8.64934		2.50000	6.66843	79.2	44 - 130			
Matrix Spike (B7A0562-MS2)		**Source: 1700068-16**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	3.83305		2.50000	1.54702	91.4	44 - 130			
Matrix Spike Dup (B7A0562-MSD1)		**Source: 1604923-17**		Prepared: 1/19/2017 Analyzed: 1/19/2017					
Lead	8.89759		2.50000	6.66843	89.2	44 - 130	2.83	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/20/2017

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Friday, January 13, 2017 11:49 AM
To: Rachelle Arada
Cc: Robert Lovdahl
Subject: Burroughs MS Samples

Rachelle:

Please run soil samples that exceeded 50 mg/kg TTLC-lead for STLC-lead.
Please run soil samples that exceeded 100 mg/kg TTLC-lead for TCLP-lead.

There are approximately 34 samples affected. Do you need me to list all the samples?

Thank you,

Julie C. Harriman, P.E.
Associate Engineer
Leighton
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 572-8129 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

ADVANCED TECHNOLOGY LABORATORIES

January 13, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

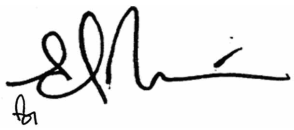
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1700028
Client Reference : Burroughs MS, 603378.006

Enclosed are the results for sample(s) received on January 03, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB2-2-0.5	1700028-01	Soil	1/03/17 10:00	1/03/17 18:35
FB2-2-1.5	1700028-02	Soil	1/03/17 10:01	1/03/17 18:35
FB2-2-2.5	1700028-03	Soil	1/03/17 10:02	1/03/17 18:35
FB2-4-0.5	1700028-04	Soil	1/03/17 10:04	1/03/17 18:35
FB2-4-1.5	1700028-05	Soil	1/03/17 10:05	1/03/17 18:35
FB2-4-2.5	1700028-06	Soil	1/03/17 10:06	1/03/17 18:35
FB2-3-0.5	1700028-07	Soil	1/03/17 10:10	1/03/17 18:35
FB2-3-1.5	1700028-08	Soil	1/03/17 10:11	1/03/17 18:35
FB2-3-2.5	1700028-09	Soil	1/03/17 10:12	1/03/17 18:35
FB2-1-0.5	1700028-10	Soil	1/03/17 10:13	1/03/17 18:35
FB2-1-1.5	1700028-11	Soil	1/03/17 10:14	1/03/17 18:35
FB2-1-2.5	1700028-12	Soil	1/03/17 10:15	1/03/17 18:35
FB1-7-0.5	1700028-13	Soil	1/03/17 13:30	1/03/17 18:35
FB1-7-0.5-D	1700028-14	Soil	1/03/17 13:30	1/03/17 18:35
FB1-5-0.5	1700028-15	Soil	1/03/17 13:36	1/03/17 18:35
FB1-5-0.5-D	1700028-16	Soil	1/03/17 13:36	1/03/17 18:35
FB1-5-1.5	1700028-17	Soil	1/03/17 13:37	1/03/17 18:35
FB1-5-1.5-D	1700028-18	Soil	1/03/17 13:37	1/03/17 18:35
FB1-5-2.5	1700028-19	Soil	1/03/17 13:38	1/03/17 18:35
FB1-6-0.5	1700028-20	Soil	1/03/17 13:40	1/03/17 18:35
FB1-6-1.5	1700028-22	Soil	1/03/17 13:41	1/03/17 18:35
FB1-6-1.5-D	1700028-23	Soil	1/03/17 13:41	1/03/17 18:35
FB1-6-2.5	1700028-24	Soil	1/03/17 13:42	1/03/17 18:35
FB1-3-0.5	1700028-25	Soil	1/03/17 13:50	1/03/17 18:35
FB1-3-0.5-D	1700028-26	Soil	1/03/17 13:50	1/03/17 18:35
FB1-3-1.5	1700028-27	Soil	1/03/17 13:51	1/03/17 18:35
FB1-3-1.5-D	1700028-28	Soil	1/03/17 13:51	1/03/17 18:35
FB1-3-2.5	1700028-29	Soil	1/03/17 13:52	1/03/17 18:35
FB1-4-0.5	1700028-30	Soil	1/03/17 14:00	1/03/17 18:35
FB1-4-0.5-D	1700028-31	Soil	1/03/17 14:00	1/03/17 18:35
FB1-4-1.5	1700028-32	Soil	1/03/17 14:01	1/03/17 18:35
FB1-4-1.5-D	1700028-33	Soil	1/03/17 14:01	1/03/17 18:35
FB1-4-2.5	1700028-34	Soil	1/03/17 14:02	1/03/17 18:35
FB1-1-0.5	1700028-35	Soil	1/03/17 14:04	1/03/17 18:35
FB1-1-0.5-D	1700028-36	Soil	1/03/17 14:04	1/03/17 18:35
FB1-1-1.5	1700028-37	Soil	1/03/17 14:06	1/03/17 18:35
FB1-1-1.5-D	1700028-38	Soil	1/03/17 14:06	1/03/17 18:35

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	01/13/2017

FB1-1-2.5	1700028-39	Soil	1/03/17 14:07	1/03/17 18:35
FB1-2-0.5	1700028-40	Soil	1/03/17 14:09	1/03/17 18:35
FB1-2-0.5-D	1700028-41	Soil	1/03/17 14:09	1/03/17 18:35
FB1-2-1.5	1700028-42	Soil	1/03/17 14:10	1/03/17 18:35
FB1-2-1.5-D	1700028-43	Soil	1/03/17 14:10	1/03/17 18:35
FB1-2-2.5	1700028-44	Soil	1/03/17 14:11	1/03/17 18:35
FB15-1-0.5	1700028-45	Soil	1/03/17 15:00	1/03/17 18:35
FB15-1-1.5	1700028-46	Soil	1/03/17 15:01	1/03/17 18:35
FB15-1-2.5	1700028-47	Soil	1/03/17 15:02	1/03/17 18:35
FB15-2-0.5	1700028-48	Soil	1/03/17 15:03	1/03/17 18:35
FB15-2-1.5	1700028-49	Soil	1/03/17 15:04	1/03/17 18:35
FB15-2-2.5	1700028-50	Soil	1/03/17 15:05	1/03/17 18:35
FB15-3-0.5	1700028-51	Soil	1/03/17 15:06	1/03/17 18:35
FB15-3-1.5	1700028-52	Soil	1/03/17 15:07	1/03/17 18:35
FB15-3-2.5	1700028-53	Soil	1/03/17 15:08	1/03/17 18:35
FB15-4-0.5	1700028-54	Soil	1/03/17 15:09	1/03/17 18:35
FB15-4-1.5	1700028-55	Soil	1/03/17 15:10	1/03/17 18:35
FB15-4-2.5	1700028-56	Soil	1/03/17 15:11	1/03/17 18:35

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-2-0.5
Lab ID: 1700028-01

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0281	01/10/2017	01/11/17 16:12	
Lead	**13**	1.0	0.11	1	B7A0281	01/10/2017	01/11/17 16:12	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 17:16	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:16	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 17:16	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 17:16	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:16	
alpha-Chlordane	**0.27**	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:16	J
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:16	
Chlordane [2C]	**3.5**	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 17:16	J
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:16	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 17:16	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:16	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 17:16	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:16	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:16	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 17:16	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:16	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:16	
gamma-Chlordane	**0.28**	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:16	J
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 17:16	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:16	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 17:16	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 17:16	
Surrogate: Decachlorobiphenyl	*53.5 %*	*27 - 123*			B7A0271	01/10/2017	*01/11/17 17:16*	
Surrogate: Tetrachloro-m-xylene	*51.1 %*	*26 - 108*			B7A0271	01/10/2017	*01/11/17 17:16*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-2-1.5
Lab ID: 1700028-02

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:17	
Lead	**3.4**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:17	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 17:27	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:27	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 17:27	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 17:27	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:27	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:27	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:27	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 17:27	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:27	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 17:27	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:27	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 17:27	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:27	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:27	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 17:27	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:27	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:27	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:27	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 17:27	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:27	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 17:27	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 17:27	
Surrogate: Decachlorobiphenyl	*91.3 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 17:27*	
Surrogate: Tetrachloro-m-xylene	*86.5 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 17:27*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-2-2.5

Lab ID: 1700028-03

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:22	
Lead	**3.0**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:22	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 17:37	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:37	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 17:37	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 17:37	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:37	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:37	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:37	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 17:37	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:37	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 17:37	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:37	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 17:37	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:37	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:37	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 17:37	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:37	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:37	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:37	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 17:37	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:37	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 17:37	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 17:37	
Surrogate: Decachlorobiphenyl	*84.9 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 17:37*	
Surrogate: Tetrachloro-m-xylene	*80.6 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 17:37*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-4-0.5
Lab ID: 1700028-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:24	
Lead	**11**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:24	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 17:48	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:48	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 17:48	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 17:48	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:48	
alpha-Chlordane	**0.22**	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:48	J
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:48	
Chlordane [2C]	**2.0**	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 17:48	J
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:48	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 17:48	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:48	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 17:48	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:48	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:48	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 17:48	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:48	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:48	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:48	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 17:48	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:48	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 17:48	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 17:48	
Surrogate: Decachlorobiphenyl	*97.6 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 17:48*	
Surrogate: Tetrachloro-m-xylene	*89.4 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 17:48*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-4-1.5
Lab ID: 1700028-05

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:25	
Lead	**3.3**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:25	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 17:59	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:59	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 17:59	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 17:59	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:59	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:59	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:59	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 17:59	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:59	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 17:59	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:59	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 17:59	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 17:59	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:59	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 17:59	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:59	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:59	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 17:59	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 17:59	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 17:59	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 17:59	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 17:59	
Surrogate: Decachlorobiphenyl	*85.1 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 17:59*	
Surrogate: Tetrachloro-m-xylene	*80.0 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 17:59*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-4-2.5
Lab ID: 1700028-06

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:26	
Lead	**3.5**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:26	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0271	01/10/2017	01/12/17 16:27	D1
4,4´-DDE	ND	20	2.0	10	B7A0271	01/10/2017	01/12/17 16:27	D1
4,4´-DDT	ND	20	1.3	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Aldrin	ND	10	2.7	10	B7A0271	01/10/2017	01/12/17 16:27	D1
alpha-BHC	ND	10	2.0	10	B7A0271	01/10/2017	01/12/17 16:27	D1
alpha-Chlordane	ND	10	2.1	10	B7A0271	01/10/2017	01/12/17 16:27	D1
beta-BHC	ND	10	2.3	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Chlordane	ND	85	9.0	10	B7A0271	01/10/2017	01/12/17 16:27	D1
delta-BHC	ND	10	2.1	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Dieldrin	ND	20	2.5	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Endosulfan I	ND	10	2.1	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Endosulfan II	ND	20	2.2	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Endrin	ND	20	2.3	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Endrin aldehyde	ND	20	2.8	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Endrin ketone	ND	20	2.0	10	B7A0271	01/10/2017	01/12/17 16:27	D1
gamma-BHC	ND	10	2.0	10	B7A0271	01/10/2017	01/12/17 16:27	D1
gamma-Chlordane	ND	10	2.3	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Heptachlor	ND	10	1.9	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Methoxychlor	ND	50	1.8	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Toxaphene	ND	500	82	10	B7A0271	01/10/2017	01/12/17 16:27	D1
Surrogate: Decachlorobiphenyl	*87.0 %*		*27 - 123*		B7A0271	01/10/2017	*01/12/17 16:27*	
Surrogate: Tetrachloro-m-xylene	*69.9 %*		*26 - 108*		B7A0271	01/10/2017	*01/12/17 16:27*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-3-0.5
Lab ID: 1700028-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:27	
Lead	**6.8**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:27	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 18:20	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:20	
4,4´-DDT [2C]	**0.23**	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 18:20	J
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 18:20	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:20	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:20	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:20	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 18:20	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:20	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 18:20	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:20	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 18:20	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:20	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:20	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 18:20	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:20	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:20	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:20	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 18:20	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:20	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 18:20	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 18:20	
Surrogate: Decachlorobiphenyl	*58.5 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 18:20*	
Surrogate: Tetrachloro-m-xylene	*56.5 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 18:20*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-3-1.5

Lab ID: 1700028-08

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:28	
Lead	**5.0**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:28	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 18:30	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:30	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 18:30	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 18:30	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:30	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:30	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:30	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 18:30	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:30	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 18:30	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:30	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 18:30	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:30	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:30	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 18:30	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:30	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:30	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:30	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 18:30	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:30	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 18:30	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 18:30	
Surrogate: Decachlorobiphenyl	*93.3 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 18:30*	
Surrogate: Tetrachloro-m-xylene	*92.8 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 18:30*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-3-2.5
Lab ID: 1700028-09

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:29	
Lead	**3.3**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:29	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 18:41	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:41	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 18:41	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 18:41	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:41	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:41	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:41	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 18:41	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:41	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 18:41	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:41	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 18:41	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:41	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:41	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 18:41	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:41	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:41	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:41	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 18:41	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:41	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 18:41	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 18:41	
Surrogate: Decachlorobiphenyl	*91.5 %*	*27 - 123*			B7A0271	01/10/2017	*01/11/17 18:41*	
Surrogate: Tetrachloro-m-xylene	*94.2 %*	*26 - 108*			B7A0271	01/10/2017	*01/11/17 18:41*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-1-0.5
Lab ID: 1700028-10

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.77**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:30	J
Lead	**3.4**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:30	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 18:52	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:52	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 18:52	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 18:52	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:52	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:52	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:52	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 18:52	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:52	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 18:52	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:52	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 18:52	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 18:52	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:52	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 18:52	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:52	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:52	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 18:52	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 18:52	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 18:52	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 18:52	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 18:52	
Surrogate: Decachlorobiphenyl	*86.0 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 18:52*	
Surrogate: Tetrachloro-m-xylene	*85.8 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 18:52*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-1-1.5
Lab ID: 1700028-11

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:31	
Lead	**4.0**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:31	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 19:02	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:02	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 19:02	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 19:02	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:02	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:02	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:02	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 19:02	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:02	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 19:02	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:02	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 19:02	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:02	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:02	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 19:02	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:02	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:02	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:02	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 19:02	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:02	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 19:02	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 19:02	
Surrogate: Decachlorobiphenyl	*63.0 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 19:02*	
Surrogate: Tetrachloro-m-xylene	*61.0 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 19:02*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB2-1-2.5

Lab ID: 1700028-12

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:32	
Lead	**4.4**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:32	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 19:13	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:13	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 19:13	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 19:13	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:13	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:13	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:13	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 19:13	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:13	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 19:13	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:13	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 19:13	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:13	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:13	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 19:13	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:13	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:13	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:13	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 19:13	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:13	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 19:13	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 19:13	
Surrogate: Decachlorobiphenyl	*89.3 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 19:13*	
Surrogate: Tetrachloro-m-xylene	*84.6 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 19:13*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-7-0.5
Lab ID: 1700028-13

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:37	
Lead	**4.3**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:37	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	20	2.2	10	B7A0271	01/10/2017	01/12/17 16:38	D1
4,4´-DDE	ND	20	2.0	10	B7A0271	01/10/2017	01/12/17 16:38	D1
4,4´-DDT	ND	20	1.3	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Aldrin	ND	10	2.7	10	B7A0271	01/10/2017	01/12/17 16:38	D1
alpha-BHC	ND	10	2.0	10	B7A0271	01/10/2017	01/12/17 16:38	D1
alpha-Chlordane	ND	10	2.1	10	B7A0271	01/10/2017	01/12/17 16:38	D1
beta-BHC	ND	10	2.3	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Chlordane	ND	85	9.0	10	B7A0271	01/10/2017	01/12/17 16:38	D1
delta-BHC	ND	10	2.1	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Dieldrin	ND	20	2.5	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Endosulfan I	ND	10	2.1	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Endosulfan II	ND	20	2.2	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Endosulfan sulfate	ND	20	2.1	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Endrin	ND	20	2.3	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Endrin aldehyde	ND	20	2.8	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Endrin ketone	ND	20	2.0	10	B7A0271	01/10/2017	01/12/17 16:38	D1
gamma-BHC	ND	10	2.0	10	B7A0271	01/10/2017	01/12/17 16:38	D1
gamma-Chlordane	ND	10	2.3	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Heptachlor	ND	10	1.9	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Heptachlor epoxide	ND	10	2.0	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Methoxychlor	ND	50	1.8	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Toxaphene	ND	500	82	10	B7A0271	01/10/2017	01/12/17 16:38	D1
Surrogate: Decachlorobiphenyl	*123 %*	*27 - 123*			B7A0271	01/10/2017	*01/12/17 16:38*	S12
Surrogate: Tetrachloro-m-xylene	*115 %*	*26 - 108*			B7A0271	01/10/2017	*01/12/17 16:38*	S12

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-7-0.5-D
Lab ID: 1700028-14

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:38	
Lead	**4.4**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:38	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 19:34	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:34	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 19:34	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 19:34	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:34	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:34	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:34	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 19:34	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:34	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 19:34	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:34	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 19:34	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:34	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:34	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 19:34	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:34	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:34	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:34	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 19:34	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:34	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 19:34	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 19:34	
Surrogate: Decachlorobiphenyl	*84.0 %*	*27 - 123*			B7A0271	01/10/2017	*01/11/17 19:34*	
Surrogate: Tetrachloro-m-xylene	*87.4 %*	*26 - 108*			B7A0271	01/10/2017	*01/11/17 19:34*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-7-0.5-D

Lab ID: 1700028-14

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 14:47	
Aroclor 1221	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 14:47	
Aroclor 1232	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 14:47	
Aroclor 1242	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 14:47	
Aroclor 1248	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 14:47	
Aroclor 1254	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 14:47	
Aroclor 1260	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 14:47	
Aroclor 1262	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 14:47	
Aroclor 1268	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 14:47	
Surrogate: Decachlorobiphenyl	*114 %*	*26 - 137*			B7A0272	01/10/2017	*01/10/17 14:47*	
Surrogate: Tetrachloro-m-xylene	*114 %*	*28 - 102*			B7A0272	01/10/2017	*01/10/17 14:47*	S1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-5-0.5

Lab ID: 1700028-15

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:39	
Lead	**2.3**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:39	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 19:45	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:45	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 19:45	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 19:45	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:45	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:45	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:45	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 19:45	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:45	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 19:45	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:45	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 19:45	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:45	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:45	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 19:45	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:45	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:45	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:45	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 19:45	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:45	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 19:45	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 19:45	
Surrogate: Decachlorobiphenyl	*86.9 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 19:45*	
Surrogate: Tetrachloro-m-xylene	*88.1 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 19:45*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-5-0.5-D
Lab ID: 1700028-16

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.2**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:40	
Lead	**3.3**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:40	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 19:56	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:56	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 19:56	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 19:56	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:56	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:56	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:56	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 19:56	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:56	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 19:56	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:56	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 19:56	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 19:56	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:56	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 19:56	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:56	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:56	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 19:56	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 19:56	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 19:56	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 19:56	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 19:56	
Surrogate: Decachlorobiphenyl	*91.3 %*	*27 - 123*			B7A0271	01/10/2017	*01/11/17 19:56*	
Surrogate: Tetrachloro-m-xylene	*93.9 %*	*26 - 108*			B7A0271	01/10/2017	*01/11/17 19:56*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-5-1.5

Lab ID: 1700028-17

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:41	
Lead	**12**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:41	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 20:06	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:06	
4,4´-DDT	**0.21**	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 20:06	J
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 20:06	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:06	
alpha-Chlordane [2C]	**0.47**	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:06	J
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:06	
Chlordane	**3.6**	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 20:06	J
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:06	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 20:06	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:06	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 20:06	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:06	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:06	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 20:06	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:06	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:06	
gamma-Chlordane	**0.44**	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:06	J
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 20:06	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:06	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 20:06	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 20:06	
Surrogate: Decachlorobiphenyl	*64.3 %*	*27 - 123*			B7A0271	01/10/2017	*01/11/17 20:06*	
Surrogate: Tetrachloro-m-xylene	*62.7 %*	*26 - 108*			B7A0271	01/10/2017	*01/11/17 20:06*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-5-1.5-D
Lab ID: 1700028-18

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.6**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:43	
Lead	**14**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:43	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 20:17	
4,4´-DDE [2C]	**0.35**	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:17	J
4,4´-DDT [2C]	**0.22**	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 20:17	J
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 20:17	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:17	
alpha-Chlordane [2C]	**2.4**	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:17	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:17	
Chlordane [2C]	**16**	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 20:17	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:17	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 20:17	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:17	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 20:17	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:17	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:17	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 20:17	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:17	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:17	
gamma-Chlordane	**1.4**	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:17	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 20:17	
Heptachlor epoxide	**0.29**	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:17	J
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 20:17	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 20:17	
Surrogate: Decachlorobiphenyl	*64.1 %*	*27 - 123*			B7A0271	01/10/2017	*01/11/17 20:17*	
Surrogate: Tetrachloro-m-xylene	*56.7 %*	*26 - 108*			B7A0271	01/10/2017	*01/11/17 20:17*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-5-2.5

Lab ID: 1700028-19

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:44	
Lead	**2.8**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:44	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 20:28	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:28	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 20:28	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 20:28	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:28	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:28	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:28	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 20:28	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:28	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 20:28	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:28	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 20:28	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:28	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:28	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 20:28	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:28	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:28	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:28	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 20:28	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:28	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 20:28	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 20:28	
Surrogate: Decachlorobiphenyl	*83.9 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 20:28*	
Surrogate: Tetrachloro-m-xylene	*85.6 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 20:28*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-6-0.5

Lab ID: 1700028-20

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0282	01/10/2017	01/11/17 16:45	
Lead	**3.3**	1.0	0.11	1	B7A0282	01/10/2017	01/11/17 16:45	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 20:38	
4,4´-DDE	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:38	
4,4´-DDT	ND	2.0	0.13	1	B7A0271	01/10/2017	01/11/17 20:38	
Aldrin	ND	1.0	0.27	1	B7A0271	01/10/2017	01/11/17 20:38	
alpha-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:38	
alpha-Chlordane	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:38	
beta-BHC	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:38	
Chlordane	ND	8.5	0.90	1	B7A0271	01/10/2017	01/11/17 20:38	
delta-BHC	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:38	
Dieldrin	ND	2.0	0.25	1	B7A0271	01/10/2017	01/11/17 20:38	
Endosulfan I	ND	1.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:38	
Endosulfan II	ND	2.0	0.22	1	B7A0271	01/10/2017	01/11/17 20:38	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0271	01/10/2017	01/11/17 20:38	
Endrin	ND	2.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:38	
Endrin aldehyde	ND	2.0	0.28	1	B7A0271	01/10/2017	01/11/17 20:38	
Endrin ketone	ND	2.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:38	
gamma-BHC	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:38	
gamma-Chlordane	ND	1.0	0.23	1	B7A0271	01/10/2017	01/11/17 20:38	
Heptachlor	ND	1.0	0.19	1	B7A0271	01/10/2017	01/11/17 20:38	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0271	01/10/2017	01/11/17 20:38	
Methoxychlor	ND	5.0	0.18	1	B7A0271	01/10/2017	01/11/17 20:38	
Toxaphene	ND	50	8.2	1	B7A0271	01/10/2017	01/11/17 20:38	
Surrogate: Decachlorobiphenyl	*61.9 %*		*27 - 123*		B7A0271	01/10/2017	*01/11/17 20:38*	
Surrogate: Tetrachloro-m-xylene	*57.3 %*		*26 - 108*		B7A0271	01/10/2017	*01/11/17 20:38*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-6-1.5
Lab ID: 1700028-22

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 16:51	
Lead	**3.3**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 16:51	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 09:30	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:30	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 09:30	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 09:30	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:30	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:30	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 09:30	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 09:30	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:30	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 09:30	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:30	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 09:30	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:30	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 09:30	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 09:30	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:30	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:30	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 09:30	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 09:30	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:30	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 09:30	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 09:30	
Surrogate: Decachlorobiphenyl	*91.5 %*		*27 - 123*		B7A0339	01/11/2017	*01/12/17 09:30*	
Surrogate: Tetrachloro-m-xylene	*88.0 %*		*26 - 108*		B7A0339	01/11/2017	*01/12/17 09:30*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-6-1.5-D
Lab ID: 1700028-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 16:55	
Lead	**4.0**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 16:55	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 09:41	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:41	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 09:41	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 09:41	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:41	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:41	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 09:41	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 09:41	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:41	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 09:41	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:41	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 09:41	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:41	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 09:41	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 09:41	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:41	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:41	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 09:41	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 09:41	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:41	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 09:41	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 09:41	
Surrogate: Decachlorobiphenyl	*91.6 %*		*27 - 123*		B7A0339	01/11/2017	*01/12/17 09:41*	
Surrogate: Tetrachloro-m-xylene	*87.9 %*		*26 - 108*		B7A0339	01/11/2017	*01/12/17 09:41*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-6-2.5

Lab ID: 1700028-24

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 16:56	
Lead	**3.1**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 16:56	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 09:51	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:51	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 09:51	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 09:51	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:51	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:51	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 09:51	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 09:51	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:51	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 09:51	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:51	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 09:51	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 09:51	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 09:51	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 09:51	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:51	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:51	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 09:51	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 09:51	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 09:51	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 09:51	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 09:51	
Surrogate: Decachlorobiphenyl	*83.8 %*		*27 - 123*		B7A0339	01/11/2017	*01/12/17 09:51*	
Surrogate: Tetrachloro-m-xylene	*79.4 %*		*26 - 108*		B7A0339	01/11/2017	*01/12/17 09:51*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-3-0.5
Lab ID: 1700028-25

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 16:57	
Lead	**1.6**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 16:57	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:02	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:02	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 10:02	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 10:02	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:02	
alpha-Chlordane [2C]	**0.29**	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:02	J
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:02	
Chlordane	**2.5**	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 10:02	J
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:02	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 10:02	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:02	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:02	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:02	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:02	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 10:02	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:02	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:02	
gamma-Chlordane [2C]	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:02	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 10:02	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:02	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 10:02	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 10:02	
Surrogate: Decachlorobiphenyl	*86.8 %*		*27 - 123*		B7A0339	01/11/2017	*01/12/17 10:02*	
Surrogate: Tetrachloro-m-xylene	*80.3 %*		*26 - 108*		B7A0339	01/11/2017	*01/12/17 10:02*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-3-0.5

Lab ID: 1700028-25

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:06	
Aroclor 1221	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:06	
Aroclor 1232	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:06	
Aroclor 1242	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:06	
Aroclor 1248	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:06	
Aroclor 1254	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:06	
Aroclor 1260	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:06	
Aroclor 1262	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:06	
Aroclor 1268	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:06	
Surrogate: Decachlorobiphenyl	*111 %*	*26 - 137*			B7A0272	01/10/2017	*01/10/17 15:06*	
Surrogate: Tetrachloro-m-xylene	*109 %*	*28 - 102*			B7A0272	01/10/2017	*01/10/17 15:06*	S1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-3-0.5-D
Lab ID: 1700028-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 16:58	
Lead	**2.3**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 16:58	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:12	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:12	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 10:12	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 10:12	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:12	
alpha-Chlordane	**0.23**	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:12	J
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:12	
Chlordane	**2.7**	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 10:12	J
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:12	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 10:12	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:12	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:12	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:12	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:12	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 10:12	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:12	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:12	
gamma-Chlordane	**0.54**	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:12	J
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 10:12	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:12	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 10:12	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 10:12	
Surrogate: Decachlorobiphenyl	*95.8 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 10:12*	
Surrogate: Tetrachloro-m-xylene	*84.7 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 10:12*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-3-1.5
Lab ID: 1700028-27

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:02	
Lead	**9.3**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:02	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:23	
4,4´-DDE	**0.29**	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:23	J
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 10:23	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 10:23	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:23	
alpha-Chlordane	**0.34**	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:23	J
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:23	
Chlordane	**3.2**	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 10:23	J
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:23	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 10:23	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:23	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:23	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:23	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:23	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 10:23	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:23	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:23	
gamma-Chlordane [2C]	**0.33**	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:23	J
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 10:23	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:23	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 10:23	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 10:23	
Surrogate: Decachlorobiphenyl	*67.7 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 10:23*	
Surrogate: Tetrachloro-m-xylene	*60.9 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 10:23*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-3-1.5-D
Lab ID: 1700028-28

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:03	
Lead	**10**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:03	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:33	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:33	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 10:33	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 10:33	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:33	
alpha-Chlordane	**1.1**	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:33	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:33	
Chlordane	**8.9**	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 10:33	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:33	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 10:33	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:33	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:33	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:33	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:33	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 10:33	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:33	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:33	
gamma-Chlordane	**1.3**	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:33	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 10:33	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:33	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 10:33	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 10:33	
Surrogate: Decachlorobiphenyl	*91.0 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 10:33*	
Surrogate: Tetrachloro-m-xylene	*83.4 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 10:33*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-3-2.5
Lab ID: 1700028-29

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.3**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:04	
Lead	**3.2**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:04	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:44	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:44	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 10:44	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 10:44	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:44	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:44	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:44	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 10:44	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:44	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 10:44	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:44	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:44	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:44	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:44	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 10:44	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:44	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:44	
gamma-Chlordane	**0.27**	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:44	J
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 10:44	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:44	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 10:44	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 10:44	
Surrogate: Decachlorobiphenyl	*98.8 %*		*27 - 123*		B7A0339	01/11/2017	*01/12/17 10:44*	
Surrogate: Tetrachloro-m-xylene	*91.9 %*		*26 - 108*		B7A0339	01/11/2017	*01/12/17 10:44*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-4-0.5

Lab ID: 1700028-30

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:05	
Lead	**4.0**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:05	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:54	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:54	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 10:54	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 10:54	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:54	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:54	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:54	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 10:54	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:54	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 10:54	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:54	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 10:54	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 10:54	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:54	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 10:54	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:54	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:54	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 10:54	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 10:54	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 10:54	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 10:54	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 10:54	
Surrogate: Decachlorobiphenyl	*92.7 %*		*27 - 123*		B7A0339	01/11/2017	*01/12/17 10:54*	
Surrogate: Tetrachloro-m-xylene	*82.6 %*		*26 - 108*		B7A0339	01/11/2017	*01/12/17 10:54*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-4-0.5-D
Lab ID: 1700028-31

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:07	
Lead	**7.7**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:07	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:04	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:04	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 11:04	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 11:04	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:04	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:04	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:04	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 11:04	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:04	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 11:04	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:04	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:04	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:04	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:04	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 11:04	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:04	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:04	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:04	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 11:04	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:04	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 11:04	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 11:04	
Surrogate: Decachlorobiphenyl	*94.6 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 11:04*	
Surrogate: Tetrachloro-m-xylene	*81.7 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 11:04*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-4-1.5

Lab ID: 1700028-32

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:08	
Lead	**3.7**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:08	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:15	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:15	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 11:15	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 11:15	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:15	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:15	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:15	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 11:15	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:15	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 11:15	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:15	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:15	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:15	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:15	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 11:15	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:15	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:15	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:15	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 11:15	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:15	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 11:15	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 11:15	
Surrogate: Decachlorobiphenyl	*95.0 %*		*27 - 123*		B7A0339	01/11/2017	*01/12/17 11:15*	
Surrogate: Tetrachloro-m-xylene	*84.4 %*		*26 - 108*		B7A0339	01/11/2017	*01/12/17 11:15*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-4-1.5-D
Lab ID: 1700028-33

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.4**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:09	
Lead	**3.5**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:09	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:25	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:25	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 11:25	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 11:25	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:25	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:25	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:25	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 11:25	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:25	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 11:25	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:25	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:25	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:25	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:25	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 11:25	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:25	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:25	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:25	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 11:25	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:25	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 11:25	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 11:25	
Surrogate: Decachlorobiphenyl	*91.6 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 11:25*	
Surrogate: Tetrachloro-m-xylene	*78.3 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 11:25*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-4-2.5

Lab ID: 1700028-34

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:10	
Lead	**3.8**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:10	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:36	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:36	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 11:36	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 11:36	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:36	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:36	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:36	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 11:36	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:36	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 11:36	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:36	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:36	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:36	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:36	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 11:36	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:36	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:36	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:36	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 11:36	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:36	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 11:36	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 11:36	
Surrogate: Decachlorobiphenyl	*95.5 %*		*27 - 123*		B7A0339	01/11/2017	*01/12/17 11:36*	
Surrogate: Tetrachloro-m-xylene	*81.7 %*		*26 - 108*		B7A0339	01/11/2017	*01/12/17 11:36*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-1-0.5
Lab ID: 1700028-35

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:11	
Lead	**2.2**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:11	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:46	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:46	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 11:46	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 11:46	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:46	
alpha-Chlordane	**0.28**	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:46	J
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:46	
Chlordane	**2.3**	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 11:46	J
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:46	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 11:46	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:46	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:46	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:46	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:46	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 11:46	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:46	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:46	
gamma-Chlordane	**0.33**	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:46	J
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 11:46	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:46	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 11:46	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 11:46	
Surrogate: Decachlorobiphenyl	*63.9 %*		*27 - 123*		B7A0339	01/11/2017	*01/12/17 11:46*	
Surrogate: Tetrachloro-m-xylene	*53.1 %*		*26 - 108*		B7A0339	01/11/2017	*01/12/17 11:46*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-1-0.5

Lab ID: 1700028-35

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:25	
Aroclor 1221	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:25	
Aroclor 1232	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:25	
Aroclor 1242	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:25	
Aroclor 1248	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:25	
Aroclor 1254	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:25	
Aroclor 1260	**1.6**	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:25	J
Aroclor 1262	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:25	
Aroclor 1268	ND	16	1.5	1	B7A0272	01/10/2017	01/10/17 15:25	
Surrogate: Decachlorobiphenyl	*110 %*	*26 - 137*			B7A0272	01/10/2017	*01/10/17 15:25*	
Surrogate: Tetrachloro-m-xylene	*110 %*	*28 - 102*			B7A0272	01/10/2017	*01/10/17 15:25*	S1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-1-0.5-D
Lab ID: 1700028-36

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:12	
Lead	**2.2**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:12	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:57	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:57	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 11:57	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 11:57	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:57	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:57	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:57	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 11:57	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:57	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 11:57	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:57	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 11:57	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 11:57	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:57	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 11:57	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:57	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:57	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 11:57	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 11:57	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 11:57	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 11:57	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 11:57	
Surrogate: Decachlorobiphenyl	*99.2 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 11:57*	
Surrogate: Tetrachloro-m-xylene	*84.7 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 11:57*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-1-1.5
Lab ID: 1700028-37

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:16	
Lead	**19**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:16	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.79**	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 12:07	J
4,4´-DDE	**1.1**	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:07	J
4,4´-DDT	**0.32**	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 12:07	J
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 12:07	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:07	
alpha-Chlordane	**1.5**	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:07	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:07	
Chlordane [2C]	**11**	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 12:07	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:07	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 12:07	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:07	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 12:07	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:07	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:07	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 12:07	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:07	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:07	
gamma-Chlordane [2C]	**1.3**	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:07	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 12:07	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:07	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 12:07	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 12:07	
Surrogate: Decachlorobiphenyl	*92.6 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 12:07*	
Surrogate: Tetrachloro-m-xylene	*85.7 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 12:07*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-1-1.5-D
Lab ID: 1700028-38

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:17	
Lead	**21**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:17	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.23**	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 12:18	J
4,4´-DDE	**0.25**	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:18	J
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 12:18	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 12:18	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:18	
alpha-Chlordane	**2.4**	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:18	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:18	
Chlordane	**16**	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 12:18	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:18	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 12:18	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:18	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 12:18	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:18	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:18	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 12:18	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:18	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:18	
gamma-Chlordane [2C]	**1.7**	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:18	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 12:18	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:18	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 12:18	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 12:18	
Surrogate: Decachlorobiphenyl	*63.4 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 12:18*	
Surrogate: Tetrachloro-m-xylene	*53.9 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 12:18*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-1-2.5

Lab ID: 1700028-39

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:18	
Lead	**3.5**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:18	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 12:28	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:28	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 12:28	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 12:28	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:28	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:28	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:28	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 12:28	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:28	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 12:28	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:28	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 12:28	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:28	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:28	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 12:28	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:28	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:28	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:28	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 12:28	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:28	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 12:28	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 12:28	
Surrogate: Decachlorobiphenyl	*85.4 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 12:28*	
Surrogate: Tetrachloro-m-xylene	*75.1 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 12:28*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-2-0.5

Lab ID: 1700028-40

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0283	01/10/2017	01/11/17 17:19	
Lead	**4.2**	1.0	0.11	1	B7A0283	01/10/2017	01/11/17 17:19	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 12:39	
4,4´-DDE	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:39	
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 12:39	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 12:39	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:39	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:39	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:39	
Chlordane	ND	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 12:39	
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:39	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 12:39	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:39	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 12:39	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:39	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:39	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 12:39	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:39	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:39	
gamma-Chlordane	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:39	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 12:39	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:39	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 12:39	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 12:39	
Surrogate: Decachlorobiphenyl	*86.5 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 12:39*	
Surrogate: Tetrachloro-m-xylene	*77.2 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 12:39*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-2-0.5-D
Lab ID: 1700028-41

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:23	
Lead	**12**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:23	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.32**	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 12:49	J
4,4´-DDE	**0.23**	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:49	J
4,4´-DDT	ND	2.0	0.13	1	B7A0339	01/11/2017	01/12/17 12:49	
Aldrin	ND	1.0	0.27	1	B7A0339	01/11/2017	01/12/17 12:49	
alpha-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:49	
alpha-Chlordane	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:49	
beta-BHC	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:49	
Chlordane [2C]	**1.5**	8.5	0.90	1	B7A0339	01/11/2017	01/12/17 12:49	J
delta-BHC	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:49	
Dieldrin	ND	2.0	0.25	1	B7A0339	01/11/2017	01/12/17 12:49	
Endosulfan I	ND	1.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:49	
Endosulfan II	ND	2.0	0.22	1	B7A0339	01/11/2017	01/12/17 12:49	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0339	01/11/2017	01/12/17 12:49	
Endrin	ND	2.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:49	
Endrin aldehyde	ND	2.0	0.28	1	B7A0339	01/11/2017	01/12/17 12:49	
Endrin ketone	ND	2.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:49	
gamma-BHC	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:49	
gamma-Chlordane [2C]	ND	1.0	0.23	1	B7A0339	01/11/2017	01/12/17 12:49	
Heptachlor	ND	1.0	0.19	1	B7A0339	01/11/2017	01/12/17 12:49	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0339	01/11/2017	01/12/17 12:49	
Methoxychlor	ND	5.0	0.18	1	B7A0339	01/11/2017	01/12/17 12:49	
Toxaphene	ND	50	8.2	1	B7A0339	01/11/2017	01/12/17 12:49	
Surrogate: Decachlorobiphenyl	*61.9 %*	*27 - 123*			B7A0339	01/11/2017	*01/12/17 12:49*	
Surrogate: Tetrachloro-m-xylene	*56.1 %*	*26 - 108*			B7A0339	01/11/2017	*01/12/17 12:49*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-2-1.5

Lab ID: 1700028-42

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.6**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:29	
Lead	**3.6**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:29	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 16:53	
4,4´-DDE	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 16:53	
4,4´-DDT	ND	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 16:53	
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 16:53	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 16:53	
alpha-Chlordane	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 16:53	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 16:53	
Chlordane	ND	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 16:53	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 16:53	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 16:53	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 16:53	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 16:53	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 16:53	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 16:53	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 16:53	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 16:53	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 16:53	
gamma-Chlordane	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 16:53	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 16:53	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 16:53	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 16:53	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 16:53	
Surrogate: Decachlorobiphenyl	*91.7 %*		*27 - 123*		B7A0366	01/12/2017	*01/12/17 16:53*	
Surrogate: Tetrachloro-m-xylene	*85.0 %*		*26 - 108*		B7A0366	01/12/2017	*01/12/17 16:53*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-2-1.5-D
Lab ID: 1700028-43

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:31	
Lead	**3.6**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:31	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:04	
4,4´-DDE	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:04	
4,4´-DDT	ND	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 17:04	
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 17:04	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:04	
alpha-Chlordane	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:04	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:04	
Chlordane	ND	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 17:04	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:04	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 17:04	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:04	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:04	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:04	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:04	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 17:04	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:04	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:04	
gamma-Chlordane	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:04	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 17:04	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:04	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 17:04	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 17:04	
Surrogate: Decachlorobiphenyl	*88.7 %*		*27 - 123*		B7A0366	01/12/2017	*01/12/17 17:04*	
Surrogate: Tetrachloro-m-xylene	*85.5 %*		*26 - 108*		B7A0366	01/12/2017	*01/12/17 17:04*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB1-2-2.5
Lab ID: 1700028-44

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:32	
Lead	**3.8**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:32	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:14	
4,4´-DDE	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:14	
4,4´-DDT	ND	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 17:14	
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 17:14	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:14	
alpha-Chlordane	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:14	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:14	
Chlordane	ND	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 17:14	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:14	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 17:14	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:14	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:14	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:14	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:14	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 17:14	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:14	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:14	
gamma-Chlordane	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:14	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 17:14	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:14	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 17:14	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 17:14	
Surrogate: Decachlorobiphenyl	*86.0 %*		*27 - 123*		B7A0366	01/12/2017	*01/12/17 17:14*	
Surrogate: Tetrachloro-m-xylene	*80.8 %*		*26 - 108*		B7A0366	01/12/2017	*01/12/17 17:14*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-1-0.5

Lab ID: 1700028-45

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.3**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:33	
Lead	**18**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:33	

Organochlorine Pesticides by EPA 8081 — **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:25	
4,4´-DDE [2C]	**4.7**	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:25	
4,4´-DDT	**5.6**	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 17:25	
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 17:25	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:25	
alpha-Chlordane	**12**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:25	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:25	
Chlordane	**87**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 17:25	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:25	
Dieldrin [2C]	**0.79**	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 17:25	J
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:25	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:25	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:25	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:25	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 17:25	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:25	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:25	
gamma-Chlordane [2C]	**9.8**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:25	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 17:25	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:25	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 17:25	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 17:25	
Surrogate: Decachlorobiphenyl	*64.2 %*		*27 - 123*		B7A0366	01/12/2017	*01/12/17 17:25*	
Surrogate: Tetrachloro-m-xylene	*61.5 %*		*26 - 108*		B7A0366	01/12/2017	*01/12/17 17:25*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-1-0.5

Lab ID: 1700028-45

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 20:51	
Aroclor 1221	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 20:51	
Aroclor 1232	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 20:51	
Aroclor 1242	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 20:51	
Aroclor 1248	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 20:51	
Aroclor 1254	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 20:51	
Aroclor 1260	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 20:51	
Aroclor 1262	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 20:51	
Aroclor 1268	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 20:51	
Surrogate: Decachlorobiphenyl	*87.6 %*	*26 - 137*			B7A0339	01/11/2017	*01/11/17 20:51*	
Surrogate: Tetrachloro-m-xylene	*85.2 %*	*28 - 102*			B7A0339	01/11/2017	*01/11/17 20:51*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-1-1.5
Lab ID: 1700028-46

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.0**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:34	
Lead	**19**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:34	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:35	
4,4´-DDE	**0.62**	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:35	J
4,4´-DDT	**0.57**	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 17:35	J
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 17:35	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:35	
alpha-Chlordane	**2.4**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:35	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:35	
Chlordane	**19**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 17:35	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:35	
Dieldrin [2C]	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 17:35	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:35	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:35	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:35	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:35	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 17:35	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:35	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:35	
gamma-Chlordane	**1.9**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:35	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 17:35	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:35	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 17:35	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 17:35	
Surrogate: Decachlorobiphenyl	*59.7 %*	*27 - 123*			B7A0366	01/12/2017	*01/12/17 17:35*	
Surrogate: Tetrachloro-m-xylene	*58.9 %*	*26 - 108*			B7A0366	01/12/2017	*01/12/17 17:35*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-1-2.5
Lab ID: 1700028-47

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.4**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:35	
Lead	**24**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:35	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:46	
4,4´-DDE	**0.61**	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:46	J
4,4´-DDT	**0.55**	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 17:46	J
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 17:46	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:46	
alpha-Chlordane	**7.4**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:46	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:46	
Chlordane	**61**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 17:46	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:46	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 17:46	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:46	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:46	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:46	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:46	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 17:46	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:46	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:46	
gamma-Chlordane [2C]	**6.9**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:46	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 17:46	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:46	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 17:46	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 17:46	
Surrogate: Decachlorobiphenyl	*52.6 %*	*27 - 123*			B7A0366	01/12/2017	*01/12/17 17:46*	
Surrogate: Tetrachloro-m-xylene	*52.6 %*	*26 - 108*			B7A0366	01/12/2017	*01/12/17 17:46*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-2-0.5
Lab ID: 1700028-48

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.9**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 21:34	
Lead	**9.8**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 21:34	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:56	
4,4´-DDE	**2.2**	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:56	
4,4´-DDT	**2.5**	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 17:56	
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 17:56	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:56	
alpha-Chlordane	**5.7**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:56	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:56	
Chlordane	**46**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 17:56	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:56	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 17:56	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:56	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 17:56	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 17:56	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:56	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 17:56	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:56	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:56	
gamma-Chlordane [2C]	**4.4**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 17:56	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 17:56	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 17:56	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 17:56	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 17:56	
Surrogate: Decachlorobiphenyl	*47.1 %*		*27 - 123*		B7A0366	01/12/2017	*01/12/17 17:56*	
Surrogate: Tetrachloro-m-xylene	*47.1 %*		*26 - 108*		B7A0366	01/12/2017	*01/12/17 17:56*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-2-1.5
Lab ID: 1700028-49

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**6.7**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:37	
Lead	**15**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:37	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:07	
4,4´-DDE	**2.3**	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:07	
4,4´-DDT	**2.5**	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 18:07	
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 18:07	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:07	
alpha-Chlordane	**13**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:07	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:07	
Chlordane	**100**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 18:07	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:07	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 18:07	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:07	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:07	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:07	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:07	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 18:07	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:07	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:07	
gamma-Chlordane [2C]	**8.6**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:07	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 18:07	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:07	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 18:07	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 18:07	
Surrogate: Decachlorobiphenyl	*51.6 %*		*27 - 123*		B7A0366	01/12/2017	*01/12/17 18:07*	
Surrogate: Tetrachloro-m-xylene	*51.2 %*		*26 - 108*		B7A0366	01/12/2017	*01/12/17 18:07*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-2-2.5
Lab ID: 1700028-50

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**6.4**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:39	
Lead	**13**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:39	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:17	
4,4´-DDE	**0.48**	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:17	J
4,4´-DDT	**0.36**	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 18:17	J
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 18:17	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:17	
alpha-Chlordane	**6.6**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:17	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:17	
Chlordane	**70**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 18:17	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:17	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 18:17	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:17	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:17	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:17	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:17	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 18:17	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:17	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:17	
gamma-Chlordane [2C]	**5.4**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:17	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 18:17	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:17	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 18:17	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 18:17	
Surrogate: Decachlorobiphenyl	*53.8 %*	*27 - 123*			B7A0366	01/12/2017	*01/12/17 18:17*	
Surrogate: Tetrachloro-m-xylene	*50.2 %*	*26 - 108*			B7A0366	01/12/2017	*01/12/17 18:17*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-3-0.5
Lab ID: 1700028-51

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.8**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 21:38	
Lead	**12**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 21:38	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:27	
4,4´-DDE	**1.2**	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:27	J
4,4´-DDT	**1.3**	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 18:27	J
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 18:27	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:27	
alpha-Chlordane	**8.7**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:27	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:27	
Chlordane	**63**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 18:27	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:27	
Dieldrin	**0.73**	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 18:27	J
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:27	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:27	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:27	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:27	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 18:27	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:27	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:27	
gamma-Chlordane [2C]	**6.1**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:27	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 18:27	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:27	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 18:27	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 18:27	
Surrogate: Decachlorobiphenyl	*50.7 %*	*27 - 123*			B7A0366	01/12/2017	*01/12/17 18:27*	
Surrogate: Tetrachloro-m-xylene	*48.1 %*	*26 - 108*			B7A0366	01/12/2017	*01/12/17 18:27*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-3-0.5

Lab ID: 1700028-51

Polychlorinated Biphenyls by EPA 8082 **Analyst: RL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 21:10	
Aroclor 1221	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 21:10	
Aroclor 1232	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 21:10	
Aroclor 1242	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 21:10	
Aroclor 1248	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 21:10	
Aroclor 1254	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 21:10	
Aroclor 1260	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 21:10	
Aroclor 1262	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 21:10	
Aroclor 1268	ND	16	1.5	1	B7A0339	01/11/2017	01/11/17 21:10	
Surrogate: Decachlorobiphenyl	*93.8 %*	*26 - 137*			B7A0339	01/11/2017	*01/11/17 21:10*	
Surrogate: Tetrachloro-m-xylene	*89.4 %*	*28 - 102*			B7A0339	01/11/2017	*01/11/17 21:10*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-3-1.5
Lab ID: 1700028-52

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**7.1**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:43	
Lead	**20**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:43	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:38	
4,4´-DDE	**0.92**	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:38	J
4,4´-DDT	**0.35**	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 18:38	J
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 18:38	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:38	
alpha-Chlordane	**23**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:38	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:38	
Chlordane	**170**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 18:38	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:38	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 18:38	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:38	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:38	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:38	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:38	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 18:38	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:38	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:38	
gamma-Chlordane [2C]	**15**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:38	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 18:38	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:38	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 18:38	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 18:38	
Surrogate: Decachlorobiphenyl	*66.2 %*		*27 - 123*		B7A0366	01/12/2017	*01/12/17 18:38*	
Surrogate: Tetrachloro-m-xylene	*64.7 %*		*26 - 108*		B7A0366	01/12/2017	*01/12/17 18:38*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-3-2.5
Lab ID: 1700028-53

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**9.6**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:44	
Lead	**27**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:44	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:48	
4,4´-DDE	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:48	
4,4´-DDT	ND	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 18:48	
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 18:48	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:48	
alpha-Chlordane	**38**	2.0	0.43	2	B7A0366	01/12/2017	01/13/17 15:08	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:48	
Chlordane	**280**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 18:48	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:48	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 18:48	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:48	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:48	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:48	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:48	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 18:48	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:48	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:48	
gamma-Chlordane	**29**	2.0	0.45	2	B7A0366	01/12/2017	01/13/17 15:08	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 18:48	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:48	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 18:48	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 18:48	
Surrogate: Decachlorobiphenyl	*63.5 %*	*27 - 123*			B7A0366	01/12/2017	*01/13/17 15:08*	
Surrogate: Decachlorobiphenyl	*56.6 %*	*27 - 123*			B7A0366	01/12/2017	*01/12/17 18:48*	
Surrogate: Tetrachloro-m-xylene	*52.7 %*	*26 - 108*			B7A0366	01/12/2017	*01/13/17 15:08*	
Surrogate: Tetrachloro-m-xylene	*52.3 %*	*26 - 108*			B7A0366	01/12/2017	*01/12/17 18:48*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-4-0.5
Lab ID: 1700028-54

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.6**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:46	
Lead	**17**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:46	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:59	
4,4´-DDE	**2.2**	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:59	
4,4´-DDT	**1.2**	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 18:59	J
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 18:59	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:59	
alpha-Chlordane [2C]	**0.75**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:59	J
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:59	
Chlordane	**8.2**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 18:59	J
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:59	
Dieldrin	**0.85**	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 18:59	J
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:59	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 18:59	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 18:59	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:59	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 18:59	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:59	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:59	
gamma-Chlordane	**0.92**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 18:59	J
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 18:59	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 18:59	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 18:59	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 18:59	
Surrogate: Decachlorobiphenyl	*35.4 %*	*27 - 123*			B7A0366	01/12/2017	*01/12/17 18:59*	
Surrogate: Tetrachloro-m-xylene	*32.9 %*	*26 - 108*			B7A0366	01/12/2017	*01/12/17 18:59*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-4-1.5
Lab ID: 1700028-55

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:47	
Lead	**23**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:47	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 19:09	
4,4´-DDE	**3.2**	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 19:09	
4,4´-DDT	**0.93**	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 19:09	J
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 19:09	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 19:09	
alpha-Chlordane	**9.2**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 19:09	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 19:09	
Chlordane	**71**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 19:09	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 19:09	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 19:09	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 19:09	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 19:09	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 19:09	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 19:09	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 19:09	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 19:09	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 19:09	
gamma-Chlordane	**6.2**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 19:09	
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 19:09	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 19:09	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 19:09	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 19:09	
Surrogate: Decachlorobiphenyl	*64.5 %*		*27 - 123*		B7A0366	01/12/2017	*01/12/17 19:09*	
Surrogate: Tetrachloro-m-xylene	*60.8 %*		*26 - 108*		B7A0366	01/12/2017	*01/12/17 19:09*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Client Sample ID FB15-4-2.5
Lab ID: 1700028-56

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.9**	1.0	0.70	1	B7A0284	01/10/2017	01/11/17 17:48	
Lead	**6.0**	1.0	0.11	1	B7A0284	01/10/2017	01/11/17 17:48	

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.37**	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 19:20	J
4,4´-DDE	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 19:20	
4,4´-DDT	ND	2.0	0.13	1	B7A0366	01/12/2017	01/12/17 19:20	
Aldrin	ND	1.0	0.27	1	B7A0366	01/12/2017	01/12/17 19:20	
alpha-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 19:20	
alpha-Chlordane	**1.6**	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 19:20	
beta-BHC	ND	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 19:20	
Chlordane	**12**	8.5	0.90	1	B7A0366	01/12/2017	01/12/17 19:20	
delta-BHC	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 19:20	
Dieldrin	ND	2.0	0.25	1	B7A0366	01/12/2017	01/12/17 19:20	
Endosulfan I	ND	1.0	0.21	1	B7A0366	01/12/2017	01/12/17 19:20	
Endosulfan II	ND	2.0	0.22	1	B7A0366	01/12/2017	01/12/17 19:20	
Endosulfan sulfate	ND	2.0	0.21	1	B7A0366	01/12/2017	01/12/17 19:20	
Endrin	ND	2.0	0.23	1	B7A0366	01/12/2017	01/12/17 19:20	
Endrin aldehyde	ND	2.0	0.28	1	B7A0366	01/12/2017	01/12/17 19:20	
Endrin ketone	ND	2.0	0.20	1	B7A0366	01/12/2017	01/12/17 19:20	
gamma-BHC	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 19:20	
gamma-Chlordane	**0.99**	1.0	0.23	1	B7A0366	01/12/2017	01/12/17 19:20	J
Heptachlor	ND	1.0	0.19	1	B7A0366	01/12/2017	01/12/17 19:20	
Heptachlor epoxide	ND	1.0	0.20	1	B7A0366	01/12/2017	01/12/17 19:20	
Methoxychlor	ND	5.0	0.18	1	B7A0366	01/12/2017	01/12/17 19:20	
Toxaphene	ND	50	8.2	1	B7A0366	01/12/2017	01/12/17 19:20	
Surrogate: Decachlorobiphenyl	*57.8 %*	*27 - 123*			B7A0366	01/12/2017	*01/12/17 19:20*	
Surrogate: Tetrachloro-m-xylene	*69.5 %*	*26 - 108*			B7A0366	01/12/2017	*01/12/17 19:20*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0281 - EPA 3050B_S									
Blank (B7A0281-BLK1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0281-BS1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	47.4830	1.0	50.0000		95.0	80 - 120			
Lead	47.5397	1.0	50.0000		95.1	80 - 120			
Duplicate (B7A0281-DUP1)		**Source: 1700027-50**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	3.04478	1.0		2.98772	NR		1.89	20	
Lead	141.044	1.0		116.209	NR		19.3	20	
Matrix Spike (B7A0281-MS1)		**Source: 1700027-50**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	91.6419	1.0	125.000	2.98772	70.9	59 - 103			
Lead	226.385	1.0	125.000	116.209	88.1	34 - 129			
Matrix Spike Dup (B7A0281-MSD1)		**Source: 1700027-50**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	69.7916	1.0	125.000	2.98772	53.4	59 - 103	27.1	20	M1, R
Lead	177.672	1.0	125.000	116.209	49.2	34 - 129	24.1	20	M1, R

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0282 - EPA 3050B_S									
Blank (B7A0282-BLK1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0282-BS1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	48.3377	1.0	50.0000		96.7	80 - 120			
Lead	48.0049	1.0	50.0000		96.0	80 - 120			
Duplicate (B7A0282-DUP1)		**Source: 1700028-02**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	1.57666	1.0		1.87553	NR		17.3	20	
Lead	3.22505	1.0		3.44539	NR		6.61	20	
Matrix Spike (B7A0282-MS1)		**Source: 1700028-02**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	86.2016	1.0	125.000	1.87553	67.5	59 - 103			
Lead	85.3998	1.0	125.000	3.44539	65.6	34 - 129			
Matrix Spike Dup (B7A0282-MSD1)		**Source: 1700028-02**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	89.8182	1.0	125.000	1.87553	70.4	59 - 103	4.11	20	
Lead	89.5645	1.0	125.000	3.44539	68.9	34 - 129	4.76	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0283 - EPA 3050B_S									
Blank (B7A0283-BLK1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0283-BS1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	46.0503	1.0	50.0000		92.1	80 - 120			
Lead	45.9360	1.0	50.0000		91.9	80 - 120			
Duplicate (B7A0283-DUP1)		**Source: 1700028-22**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	1.58635	1.0		1.83042	NR		14.3	20	
Lead	3.40643	1.0		3.25414	NR		4.57	20	
Matrix Spike (B7A0283-MS1)		**Source: 1700028-22**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	94.3380	1.0	125.000	1.83042	74.0	59 - 103			
Lead	94.7650	1.0	125.000	3.25414	73.2	34 - 129			
Matrix Spike Dup (B7A0283-MSD1)		**Source: 1700028-22**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	99.9030	1.0	125.000	1.83042	78.5	59 - 103	5.73	20	
Lead	99.0992	1.0	125.000	3.25414	76.7	34 - 129	4.47	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0284 - EPA 3050B_S									
Blank (B7A0284-BLK1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B7A0284-BS1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	45.6230	1.0	50.0000		91.2	80 - 120			
Lead	45.1108	1.0	50.0000		90.2	80 - 120			
Duplicate (B7A0284-DUP1)		**Source: 1700028-41**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	2.21201	1.0		2.19192	NR		0.912	20	
Lead	62.3461	1.0		11.8072	NR		136	20	R
Matrix Spike (B7A0284-MS1)		**Source: 1700028-41**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	84.9987	1.0	125.000	2.19192	66.2	59 - 103			
Lead	89.6602	1.0	125.000	11.8072	62.3	34 - 129			
Matrix Spike Dup (B7A0284-MSD1)		**Source: 1700028-41**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Arsenic	91.5234	1.0	125.000	2.19192	71.5	59 - 103	7.39	20	
Lead	95.6894	1.0	125.000	11.8072	67.1	34 - 129	6.51	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0271 - GCSEMI_PCB/PEST_S									
Blank (B7A0271-BLK1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0271 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0271-BLK1) - Continued				Prepared: 1/10/2017 Analyzed: 1/11/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*15.86*		*16.6667*		*95.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*18.32*		*16.6667*		*110*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*16.39*		*16.6667*		*98.3*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*18.11*		*16.6667*		*109*	*26 - 108*			S1
LCS (B7A0271-BS1)				Prepared: 1/10/2017 Analyzed: 1/11/2017					
4,4´-DDD	16.6802	2.0	16.6667		100	53 - 125			
4,4´-DDD [2C]	17.5698	2.0	16.6667		105	53 - 125			
4,4´-DDE	15.6987	2.0	16.6667		94.2	54 - 113			
4,4´-DDE [2C]	17.7738	2.0	16.6667		107	54 - 113			
4,4´-DDT	16.1805	2.0	16.6667		97.1	25 - 127			
4,4´-DDT [2C]	17.4002	2.0	16.6667		104	25 - 127			
Aldrin	15.7473	1.0	16.6667		94.5	59 - 107			
Aldrin [2C]	16.7227	1.0	16.6667		100	59 - 107			
alpha-BHC	15.7948	1.0	16.6667		94.8	59 - 104			
alpha-BHC [2C]	17.6397	1.0	16.6667		106	59 - 104			L3
alpha-Chlordane	15.7620	1.0	16.6667		94.6	54 - 110			
alpha-Chlordane [2C]	17.8692	1.0	16.6667		107	54 - 110			
beta-BHC	15.9252	1.0	16.6667		95.6	57 - 103			
beta-BHC [2C]	17.5410	1.0	16.6667		105	57 - 103			L3
delta-BHC	13.1528	1.0	16.6667		78.9	16 - 120			
delta-BHC [2C]	14.2803	1.0	16.6667		85.7	16 - 120			
Dieldrin	16.0255	2.0	16.6667		96.2	61 - 109			
Dieldrin [2C]	18.0205	2.0	16.6667		108	61 - 109			
Endosulfan I	15.5210	1.0	16.6667		93.1	60 - 106			
Endosulfan I [2C]	17.8160	1.0	16.6667		107	60 - 106			L3
Endosulfan II	15.4972	2.0	16.6667		93.0	59 - 108			
Endosulfan II [2C]	16.6075	2.0	16.6667		99.6	59 - 108			
Endosulfan sulfate	14.9758	2.0	16.6667		89.9	54 - 110			
Endosulfan Sulfate [2C]	15.2262	2.0	16.6667		91.4	54 - 110			
Endrin	16.7770	2.0	16.6667		101	63 - 112			
Endrin [2C]	18.8748	2.0	16.6667		113	63 - 112			L3
Endrin aldehyde	16.0958	2.0	16.6667		96.6	64 - 119			
Endrin aldehyde [2C]	15.0058	2.0	16.6667		90.0	64 - 119			
Endrin ketone	16.4545	2.0	16.6667		98.7	54 - 115			
Endrin ketone [2C]	17.1097	2.0	16.6667		103	54 - 115			
gamma-BHC	16.5055	1.0	16.6667		99.0	60 - 107			
gamma-BHC [2C]	18.0387	1.0	16.6667		108	60 - 107			L3

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0271 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0271-BS1) - Continued				Prepared: 1/10/2017 Analyzed: 1/11/2017					
gamma-Chlordane	15.7083	1.0	16.6667		94.2	57 - 106			
gamma-Chlordane [2C]	16.7985	1.0	16.6667		101	57 - 106			
Heptachlor	16.6528	1.0	16.6667		99.9	54 - 114			
Heptachlor [2C]	19.2370	1.0	16.6667		115	54 - 114			L3
Heptachlor epoxide	15.7798	1.0	16.6667		94.7	61 - 106			
Heptachlor epoxide [2C]	17.2168	1.0	16.6667		103	61 - 106			
Methoxychlor	16.2637	5.0	16.6667		97.6	18 - 138			
Methoxychlor [2C]	18.2377	5.0	16.6667		109	18 - 138			
Surrogate: Decachlorobiphenyl	*15.23*		*16.6667*		*91.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.80*		*16.6667*		*94.8*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*16.75*		*16.6667*		*100*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.74*		*16.6667*		*100*	*26 - 108*			
Duplicate (B7A0271-DUP1)			**Source: 1700028-15**	Prepared: 1/10/2017 Analyzed: 1/11/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0271 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0271-DUP1) - Continued		**Source: 1700028-15**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*14.32*		*16.6667*		*85.9*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.27*		*16.6667*		*97.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.69*		*16.6667*		*88.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.93*		*16.6667*		*95.6*	*26 - 108*			
Matrix Spike (B7A0271-MS1)		**Source: 1700028-15**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
4,4´-DDD	17.6068	2.0	16.6667	ND	106	25 - 141			
4,4´-DDD [2C]	16.9658	2.0	16.6667	ND	102	25 - 141			
4,4´-DDE	16.7160	2.0	16.6667	ND	100	22 - 141			
4,4´-DDE [2C]	17.4397	2.0	16.6667	ND	105	22 - 141			
4,4´-DDT	18.1802	2.0	16.6667	ND	109	15 - 136			
4,4´-DDT [2C]	17.7577	2.0	16.6667	ND	107	15 - 136			
Aldrin	16.3727	1.0	16.6667	ND	98.2	33 - 118			
Aldrin [2C]	17.4478	1.0	16.6667	ND	105	33 - 118			
alpha-BHC	16.3973	1.0	16.6667	ND	98.4	30 - 116			
alpha-BHC [2C]	16.6182	1.0	16.6667	ND	99.7	30 - 116			
alpha-Chlordane	16.6243	1.0	16.6667	ND	99.7	30 - 123			
alpha-Chlordane [2C]	17.2737	1.0	16.6667	ND	104	30 - 123			
beta-BHC	16.7407	1.0	16.6667	ND	100	24 - 121			
beta-BHC [2C]	16.9242	1.0	16.6667	ND	102	24 - 121			
delta-BHC	13.8558	1.0	16.6667	ND	83.1	7 - 120			
delta-BHC [2C]	14.5188	1.0	16.6667	ND	87.1	7 - 120			
Dieldrin	16.9425	2.0	16.6667	ND	102	25 - 136			
Dieldrin [2C]	17.6628	2.0	16.6667	ND	106	25 - 136			
Endosulfan I	16.3507	1.0	16.6667	ND	98.1	18 - 134			
Endosulfan I [2C]	16.9242	1.0	16.6667	ND	102	18 - 134			
Endosulfan II	16.5342	2.0	16.6667	ND	99.2	28 - 128			
Endosulfan II [2C]	15.9827	2.0	16.6667	ND	95.9	28 - 128			

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0271 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0271-MS1) - Continued		**Source: 1700028-15**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Endosulfan sulfate	15.9867	2.0	16.6667	ND	95.9	5 - 145			
Endosulfan Sulfate [2C]	15.7395	2.0	16.6667	ND	94.4	5 - 145			
Endrin	17.9812	2.0	16.6667	ND	108	26 - 142			
Endrin [2C]	18.3993	2.0	16.6667	ND	110	26 - 142			
Endrin aldehyde	16.8707	2.0	16.6667	ND	101	8 - 146			
Endrin aldehyde [2C]	14.3420	2.0	16.6667	ND	86.1	8 - 146			
Endrin ketone	18.0737	2.0	16.6667	ND	108	16 - 139			
Endrin ketone [2C]	15.5942	2.0	16.6667	ND	93.6	16 - 139			
gamma-BHC	17.0577	1.0	16.6667	ND	102	30 - 122			
gamma-BHC [2C]	17.1420	1.0	16.6667	ND	103	30 - 122			
gamma-Chlordane	16.4818	1.0	16.6667	ND	98.9	18 - 132			
gamma-Chlordane [2C]	16.7110	1.0	16.6667	ND	100	18 - 132			
Heptachlor	17.3923	1.0	16.6667	ND	104	34 - 122			
Heptachlor [2C]	19.2675	1.0	16.6667	ND	116	34 - 122			
Heptachlor epoxide	16.5342	1.0	16.6667	ND	99.2	21 - 135			
Heptachlor epoxide [2C]	16.9848	1.0	16.6667	ND	102	21 - 135			
Methoxychlor	18.0037	5.0	16.6667	ND	108	8 - 162			
Methoxychlor [2C]	20.1190	5.0	16.6667	ND	121	8 - 162			
Surrogate: Decachlorobiphenyl	*15.11*		*16.6667*		*90.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.37*		*16.6667*		*92.2*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*16.92*		*16.6667*		*102*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.54*		*16.6667*		*93.2*	*26 - 108*			
Matrix Spike Dup (B7A0271-MSD1)		**Source: 1700028-15**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
4,4´-DDD	17.3028	2.0	16.6667	ND	104	25 - 141	1.74	20	
4,4´-DDD [2C]	16.7327	2.0	16.6667	ND	100	25 - 141	1.38	20	
4,4´-DDE	16.2782	2.0	16.6667	ND	97.7	22 - 141	2.65	20	
4,4´-DDE [2C]	16.9022	2.0	16.6667	ND	101	22 - 141	3.13	20	
4,4´-DDT	17.8917	2.0	16.6667	ND	107	15 - 136	1.60	20	
4,4´-DDT [2C]	17.5945	2.0	16.6667	ND	106	15 - 136	0.923	20	
Aldrin	16.0472	1.0	16.6667	ND	96.3	33 - 118	2.01	20	
Aldrin [2C]	16.9498	1.0	16.6667	ND	102	33 - 118	2.90	20	
alpha-BHC	16.0710	1.0	16.6667	ND	96.4	30 - 116	2.01	20	
alpha-BHC [2C]	16.5473	1.0	16.6667	ND	99.3	30 - 116	0.427	20	
alpha-Chlordane	16.2792	1.0	16.6667	ND	97.7	30 - 123	2.10	20	
alpha-Chlordane [2C]	16.8482	1.0	16.6667	ND	101	30 - 123	2.49	20	
beta-BHC	16.5200	1.0	16.6667	ND	99.1	24 - 121	1.33	20	
beta-BHC [2C]	16.0380	1.0	16.6667	ND	96.2	24 - 121	5.38	20	
delta-BHC	13.7012	1.0	16.6667	ND	82.2	7 - 120	1.12	20	
delta-BHC [2C]	13.6337	1.0	16.6667	ND	81.8	7 - 120	6.29	20	
Dieldrin	16.5997	2.0	16.6667	ND	99.6	25 - 136	2.04	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0271 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0271-MSD1) - Continued		**Source: 1700028-15**		Prepared: 1/10/2017 Analyzed: 1/11/2017					
Dieldrin [2C]	17.1418	2.0	16.6667	ND	103	25 - 136	2.99	20	
Endosulfan I	15.9930	1.0	16.6667	ND	96.0	18 - 134	2.21	20	
Endosulfan I [2C]	16.4567	1.0	16.6667	ND	98.7	18 - 134	2.80	20	
Endosulfan II	16.2547	2.0	16.6667	ND	97.5	28 - 128	1.70	20	
Endosulfan II [2C]	15.7205	2.0	16.6667	ND	94.3	28 - 128	1.65	20	
Endosulfan sulfate	15.8425	2.0	16.6667	ND	95.1	5 - 145	0.906	20	
Endosulfan Sulfate [2C]	15.9412	2.0	16.6667	ND	95.6	5 - 145	1.27	20	
Endrin	17.6420	2.0	16.6667	ND	106	26 - 142	1.90	20	
Endrin [2C]	18.0273	2.0	16.6667	ND	108	26 - 142	2.04	20	
Endrin aldehyde	16.6415	2.0	16.6667	ND	99.8	8 - 146	1.37	20	
Endrin aldehyde [2C]	14.7728	2.0	16.6667	ND	88.6	8 - 146	2.96	20	
Endrin ketone	17.8792	2.0	16.6667	ND	107	16 - 139	1.08	20	
Endrin ketone [2C]	16.6595	2.0	16.6667	ND	100	16 - 139	6.61	20	
gamma-BHC	16.8212	1.0	16.6667	ND	101	30 - 122	1.40	20	
gamma-BHC [2C]	16.9795	1.0	16.6667	ND	102	30 - 122	0.952	20	
gamma-Chlordane	16.1198	1.0	16.6667	ND	96.7	18 - 132	2.22	20	
gamma-Chlordane [2C]	16.1388	1.0	16.6667	ND	96.8	18 - 132	3.48	20	
Heptachlor	17.0427	1.0	16.6667	ND	102	34 - 122	2.03	20	
Heptachlor [2C]	17.5392	1.0	16.6667	ND	105	34 - 122	9.39	20	
Heptachlor epoxide	16.1407	1.0	16.6667	ND	96.8	21 - 135	2.41	20	
Heptachlor epoxide [2C]	16.4148	1.0	16.6667	ND	98.5	21 - 135	3.41	20	
Methoxychlor	17.8310	5.0	16.6667	ND	107	8 - 162	0.964	20	
Methoxychlor [2C]	19.9665	5.0	16.6667	ND	120	8 - 162	0.761	20	
Surrogate: Decachlorobiphenyl	*15.64*		*16.6667*		*93.8*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.59*		*16.6667*		*93.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*16.60*		*16.6667*		*99.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.25*		*16.6667*		*91.5*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0339 - GCSEMI_PCB/PEST_S									
Blank (B7A0339-BLK1)				Prepared: 1/11/2017 Analyzed: 1/12/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0339 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0339-BLK1) - Continued				Prepared: 1/11/2017 Analyzed: 1/12/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*14.44*		*16.6667*		*86.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.82*		*16.6667*		*88.9*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.23*		*16.6667*		*91.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.89*		*16.6667*		*95.3*	*26 - 108*			
LCS (B7A0339-BS1)				Prepared: 1/11/2017 Analyzed: 1/12/2017					
4,4´-DDD	16.2718	2.0	16.6667		97.6	53 - 125			
4,4´-DDD [2C]	16.2917	2.0	16.6667		97.8	53 - 125			
4,4´-DDE	15.3100	2.0	16.6667		91.9	54 - 113			
4,4´-DDE [2C]	14.8897	2.0	16.6667		89.3	54 - 113			
4,4´-DDT	17.6367	2.0	16.6667		106	25 - 127			
4,4´-DDT [2C]	16.4917	2.0	16.6667		99.0	25 - 127			
Aldrin	15.0823	1.0	16.6667		90.5	59 - 107			
Aldrin [2C]	14.8200	1.0	16.6667		88.9	59 - 107			
alpha-BHC	14.9183	1.0	16.6667		89.5	59 - 104			
alpha-BHC [2C]	14.8843	1.0	16.6667		89.3	59 - 104			
alpha-Chlordane	15.4005	1.0	16.6667		92.4	54 - 110			
alpha-Chlordane [2C]	14.8950	1.0	16.6667		89.4	54 - 110			
beta-BHC	14.7445	1.0	16.6667		88.5	57 - 103			
beta-BHC [2C]	14.4698	1.0	16.6667		86.8	57 - 103			
delta-BHC	12.2018	1.0	16.6667		73.2	16 - 120			
delta-BHC [2C]	12.1653	1.0	16.6667		73.0	16 - 120			
Dieldrin	16.2345	2.0	16.6667		97.4	61 - 109			
Dieldrin [2C]	15.3872	2.0	16.6667		92.3	61 - 109			
Endosulfan I	15.4020	1.0	16.6667		92.4	60 - 106			
Endosulfan I [2C]	14.6410	1.0	16.6667		87.8	60 - 106			
Endosulfan II	15.4392	2.0	16.6667		92.6	59 - 108			
Endosulfan II [2C]	14.7735	2.0	16.6667		88.6	59 - 108			
Endosulfan sulfate	14.9260	2.0	16.6667		89.6	54 - 110			
Endosulfan Sulfate [2C]	14.3287	2.0	16.6667		86.0	54 - 110			
Endrin	16.3752	2.0	16.6667		98.3	63 - 112			
Endrin [2C]	15.7763	2.0	16.6667		94.7	63 - 112			
Endrin aldehyde	15.9545	2.0	16.6667		95.7	64 - 119			
Endrin aldehyde [2C]	15.3058	2.0	16.6667		91.8	64 - 119			
Endrin ketone	16.7095	2.0	16.6667		100	54 - 115			
Endrin ketone [2C]	15.3985	2.0	16.6667		92.4	54 - 115			
gamma-BHC	15.6428	1.0	16.6667		93.9	60 - 107			
gamma-BHC [2C]	15.3580	1.0	16.6667		92.1	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0339 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0339-BS1) - Continued					Prepared: 1/11/2017 Analyzed: 1/12/2017				
gamma-Chlordane	15.0670	1.0	16.6667		90.4	57 - 106			
gamma-Chlordane [2C]	14.7945	1.0	16.6667		88.8	57 - 106			
Heptachlor	15.8733	1.0	16.6667		95.2	54 - 114			
Heptachlor [2C]	15.2712	1.0	16.6667		91.6	54 - 114			
Heptachlor epoxide	15.1195	1.0	16.6667		90.7	61 - 106			
Heptachlor epoxide [2C]	14.6208	1.0	16.6667		87.7	61 - 106			
Methoxychlor	16.2965	5.0	16.6667		97.8	18 - 138			
Methoxychlor [2C]	16.0128	5.0	16.6667		96.1	18 - 138			
Surrogate: Decachlorobiphenyl	*13.23*		*16.6667*		*79.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*12.28*		*16.6667*		*73.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.38*		*16.6667*		*86.3*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.37*		*16.6667*		*92.2*	*26 - 108*			
Duplicate (B7A0339-DUP1)		**Source: 1700028-32**			Prepared: 1/11/2017 Analyzed: 1/12/2017				
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0339 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0339-DUP1) - Continued		**Source: 1700028-32**		Prepared: 1/11/2017 Analyzed: 1/12/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*14.79*		*16.6667*		*88.7*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.05*		*16.6667*		*90.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.01*		*16.6667*		*84.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.27*		*16.6667*		*91.6*	*26 - 108*			
Matrix Spike (B7A0339-MS1)		**Source: 1700028-32**		Prepared: 1/11/2017 Analyzed: 1/12/2017					
4,4´-DDD	16.8062	2.0	16.6667	ND	101	25 - 141			
4,4´-DDD [2C]	16.9617	2.0	16.6667	ND	102	25 - 141			
4,4´-DDE	15.5940	2.0	16.6667	ND	93.6	22 - 141			
4,4´-DDE [2C]	15.7817	2.0	16.6667	ND	94.7	22 - 141			
4,4´-DDT	19.5305	2.0	16.6667	ND	117	15 - 136			
4,4´-DDT [2C]	19.2895	2.0	16.6667	ND	116	15 - 136			
Aldrin	15.4960	1.0	16.6667	ND	93.0	33 - 118			
Aldrin [2C]	15.4060	1.0	16.6667	ND	92.4	33 - 118			
alpha-BHC	15.3382	1.0	16.6667	ND	92.0	30 - 116			
alpha-BHC [2C]	15.5220	1.0	16.6667	ND	93.1	30 - 116			
alpha-Chlordane	16.0412	1.0	16.6667	ND	96.2	30 - 123			
alpha-Chlordane [2C]	15.7293	1.0	16.6667	ND	94.4	30 - 123			
beta-BHC	15.3690	1.0	16.6667	ND	92.2	24 - 121			
beta-BHC [2C]	15.5112	1.0	16.6667	ND	93.1	24 - 121			
delta-BHC	12.7003	1.0	16.6667	ND	76.2	7 - 120			
delta-BHC [2C]	13.0460	1.0	16.6667	ND	78.3	7 - 120			
Dieldrin	16.8505	2.0	16.6667	ND	101	25 - 136			
Dieldrin [2C]	16.2942	2.0	16.6667	ND	97.8	25 - 136			
Endosulfan I	15.9060	1.0	16.6667	ND	95.4	18 - 134			
Endosulfan I [2C]	15.3368	1.0	16.6667	ND	92.0	18 - 134			
Endosulfan II	15.9262	2.0	16.6667	ND	95.6	28 - 128			
Endosulfan II [2C]	15.7518	2.0	16.6667	ND	94.5	28 - 128			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0339 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0339-MS1) - Continued		**Source: 1700028-32**		Prepared: 1/11/2017 Analyzed: 1/12/2017					
Endosulfan sulfate	15.4643	2.0	16.6667	ND	92.8	5 - 145			
Endosulfan Sulfate [2C]	15.7952	2.0	16.6667	ND	94.8	5 - 145			
Endrin	17.9693	2.0	16.6667	ND	108	26 - 142			
Endrin [2C]	17.5108	2.0	16.6667	ND	105	26 - 142			
Endrin aldehyde	15.9140	2.0	16.6667	ND	95.5	8 - 146			
Endrin aldehyde [2C]	15.3453	2.0	16.6667	ND	92.1	8 - 146			
Endrin ketone	17.0420	2.0	16.6667	ND	102	16 - 139			
Endrin ketone [2C]	16.9743	2.0	16.6667	ND	102	16 - 139			
gamma-BHC	16.2962	1.0	16.6667	ND	97.8	30 - 122			
gamma-BHC [2C]	16.1308	1.0	16.6667	ND	96.8	30 - 122			
gamma-Chlordane	15.8012	1.0	16.6667	ND	94.8	18 - 132			
gamma-Chlordane [2C]	15.5375	1.0	16.6667	ND	93.2	18 - 132			
Heptachlor	16.4982	1.0	16.6667	ND	99.0	34 - 122			
Heptachlor [2C]	16.1095	1.0	16.6667	ND	96.7	34 - 122			
Heptachlor epoxide	15.6618	1.0	16.6667	ND	94.0	21 - 135			
Heptachlor epoxide [2C]	15.2500	1.0	16.6667	ND	91.5	21 - 135			
Methoxychlor	18.3918	5.0	16.6667	ND	110	8 - 162			
Methoxychlor [2C]	19.0322	5.0	16.6667	ND	114	8 - 162			
Surrogate: Decachlorobiphenyl	*14.39*		*16.6667*		*86.3*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.01*		*16.6667*		*90.1*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.68*		*16.6667*		*82.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.19*		*16.6667*		*91.1*	*26 - 108*			
Matrix Spike Dup (B7A0339-MSD1)		**Source: 1700028-32**		Prepared: 1/11/2017 Analyzed: 1/12/2017					
4,4´-DDD	16.6662	2.0	16.6667	ND	100	25 - 141	0.837	20	
4,4´-DDD [2C]	16.8010	2.0	16.6667	ND	101	25 - 141	0.952	20	
4,4´-DDE	15.4283	2.0	16.6667	ND	92.6	22 - 141	1.07	20	
4,4´-DDE [2C]	15.6235	2.0	16.6667	ND	93.7	22 - 141	1.01	20	
4,4´-DDT	19.0432	2.0	16.6667	ND	114	15 - 136	2.53	20	
4,4´-DDT [2C]	19.1127	2.0	16.6667	ND	115	15 - 136	0.921	20	
Aldrin	15.4445	1.0	16.6667	ND	92.7	33 - 118	0.333	20	
Aldrin [2C]	15.2937	1.0	16.6667	ND	91.8	33 - 118	0.732	20	
alpha-BHC	15.2957	1.0	16.6667	ND	91.8	30 - 116	0.277	20	
alpha-BHC [2C]	15.4432	1.0	16.6667	ND	92.7	30 - 116	0.509	20	
alpha-Chlordane	15.9615	1.0	16.6667	ND	95.8	30 - 123	0.498	20	
alpha-Chlordane [2C]	15.5293	1.0	16.6667	ND	93.2	30 - 123	1.28	20	
beta-BHC	15.3093	1.0	16.6667	ND	91.9	24 - 121	0.389	20	
beta-BHC [2C]	15.4053	1.0	16.6667	ND	92.4	24 - 121	0.685	20	
delta-BHC	12.5968	1.0	16.6667	ND	75.6	7 - 120	0.818	20	
delta-BHC [2C]	12.9500	1.0	16.6667	ND	77.7	7 - 120	0.739	20	
Dieldrin	16.7472	2.0	16.6667	ND	100	25 - 136	0.615	20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0339 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0339-MSD1) - Continued		**Source: 1700028-32**		Prepared: 1/11/2017 Analyzed: 1/12/2017					
Dieldrin [2C]	16.1347	2.0	16.6667	ND	96.8	25 - 136	0.984	20	
Endosulfan I	15.8342	1.0	16.6667	ND	95.0	18 - 134	0.453	20	
Endosulfan I [2C]	15.1533	1.0	16.6667	ND	90.9	18 - 134	1.20	20	
Endosulfan II	15.7547	2.0	16.6667	ND	94.5	28 - 128	1.08	20	
Endosulfan II [2C]	15.5987	2.0	16.6667	ND	93.6	28 - 128	0.977	20	
Endosulfan sulfate	14.7373	2.0	16.6667	ND	88.4	5 - 145	4.81	20	
Endosulfan Sulfate [2C]	15.3107	2.0	16.6667	ND	91.9	5 - 145	3.12	20	
Endrin	17.8357	2.0	16.6667	ND	107	26 - 142	0.747	20	
Endrin [2C]	17.3365	2.0	16.6667	ND	104	26 - 142	1.00	20	
Endrin aldehyde	15.3985	2.0	16.6667	ND	92.4	8 - 146	3.29	20	
Endrin aldehyde [2C]	15.1495	2.0	16.6667	ND	90.9	8 - 146	1.28	20	
Endrin ketone	16.2552	2.0	16.6667	ND	97.5	16 - 139	4.73	20	
Endrin ketone [2C]	16.4728	2.0	16.6667	ND	98.8	16 - 139	3.00	20	
gamma-BHC	16.2275	1.0	16.6667	ND	97.4	30 - 122	0.422	20	
gamma-BHC [2C]	16.0152	1.0	16.6667	ND	96.1	30 - 122	0.720	20	
gamma-Chlordane	15.7332	1.0	16.6667	ND	94.4	18 - 132	0.431	20	
gamma-Chlordane [2C]	15.3237	1.0	16.6667	ND	91.9	18 - 132	1.39	20	
Heptachlor	16.4358	1.0	16.6667	ND	98.6	34 - 122	0.379	20	
Heptachlor [2C]	15.9870	1.0	16.6667	ND	95.9	34 - 122	0.763	20	
Heptachlor epoxide	15.5638	1.0	16.6667	ND	93.4	21 - 135	0.628	20	
Heptachlor epoxide [2C]	15.1230	1.0	16.6667	ND	90.7	21 - 135	0.836	20	
Methoxychlor	17.4980	5.0	16.6667	ND	105	8 - 162	4.98	20	
Methoxychlor [2C]	18.2002	5.0	16.6667	ND	109	8 - 162	4.47	20	
Surrogate: Decachlorobiphenyl	*14.52*		*16.6667*		*87.1*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.09*		*16.6667*		*90.5*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.60*		*16.6667*		*81.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.09*		*16.6667*		*90.6*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0366 - GCSEMI_PCB/PEST_S									
Blank (B7A0366-BLK1)				Prepared: 1/12/2017 Analyzed: 1/12/2017					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0366 - GCSEMI_PCB/PEST_S (continued)									
Blank (B7A0366-BLK1) - Continued				Prepared: 1/12/2017 Analyzed: 1/12/2017					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*16.13*		*16.6667*		*96.8*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.92*		*16.6667*		*89.5*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.57*		*16.6667*		*93.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.77*		*16.6667*		*101*	*26 - 108*			
LCS (B7A0366-BS1)				Prepared: 1/12/2017 Analyzed: 1/12/2017					
4,4´-DDD	17.2418	2.0	16.6667		103	53 - 125			
4,4´-DDD [2C]	17.5173	2.0	16.6667		105	53 - 125			
4,4´-DDE	16.4047	2.0	16.6667		98.4	54 - 113			
4,4´-DDE [2C]	16.1018	2.0	16.6667		96.6	54 - 113			
4,4´-DDT	19.5473	2.0	16.6667		117	25 - 127			
4,4´-DDT [2C]	18.2835	2.0	16.6667		110	25 - 127			
Aldrin	15.9505	1.0	16.6667		95.7	59 - 107			
Aldrin [2C]	15.9132	1.0	16.6667		95.5	59 - 107			
alpha-BHC	15.5722	1.0	16.6667		93.4	59 - 104			
alpha-BHC [2C]	15.6740	1.0	16.6667		94.0	59 - 104			
alpha-Chlordane	16.2605	1.0	16.6667		97.6	54 - 110			
alpha-Chlordane [2C]	16.0152	1.0	16.6667		96.1	54 - 110			
beta-BHC	15.3723	1.0	16.6667		92.2	57 - 103			
beta-BHC [2C]	15.3575	1.0	16.6667		92.1	57 - 103			
delta-BHC	12.5438	1.0	16.6667		75.3	16 - 120			
delta-BHC [2C]	12.7643	1.0	16.6667		76.6	16 - 120			
Dieldrin	17.3168	2.0	16.6667		104	61 - 109			
Dieldrin [2C]	16.7272	2.0	16.6667		100	61 - 109			
Endosulfan I	16.4240	1.0	16.6667		98.5	60 - 106			
Endosulfan I [2C]	15.9843	1.0	16.6667		95.9	60 - 106			
Endosulfan II	16.5165	2.0	16.6667		99.1	59 - 108			
Endosulfan II [2C]	16.1202	2.0	16.6667		96.7	59 - 108			
Endosulfan sulfate	16.0442	2.0	16.6667		96.3	54 - 110			
Endosulfan Sulfate [2C]	16.1065	2.0	16.6667		96.6	54 - 110			
Endrin	18.4445	2.0	16.6667		111	63 - 112			
Endrin [2C]	18.1083	2.0	16.6667		109	63 - 112			
Endrin aldehyde	16.8188	2.0	16.6667		101	64 - 119			
Endrin aldehyde [2C]	16.5850	2.0	16.6667		99.5	64 - 119			
Endrin ketone	17.7395	2.0	16.6667		106	54 - 115			
Endrin ketone [2C]	16.8547	2.0	16.6667		101	54 - 115			
gamma-BHC	16.3598	1.0	16.6667		98.2	60 - 107			
gamma-BHC [2C]	16.1857	1.0	16.6667		97.1	60 - 107			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0366 - GCSEMI_PCB/PEST_S (continued)									
LCS (B7A0366-BS1) - Continued				Prepared: 1/12/2017 Analyzed: 1/12/2017					
gamma-Chlordane	15.9575	1.0	16.6667		95.7	57 - 106			
gamma-Chlordane [2C]	15.8555	1.0	16.6667		95.1	57 - 106			
Heptachlor	17.1855	1.0	16.6667		103	54 - 114			
Heptachlor [2C]	16.6177	1.0	16.6667		99.7	54 - 114			
Heptachlor epoxide	16.1788	1.0	16.6667		97.1	61 - 106			
Heptachlor epoxide [2C]	15.9128	1.0	16.6667		95.5	61 - 106			
Methoxychlor	18.5188	5.0	16.6667		111	18 - 138			
Methoxychlor [2C]	17.8682	5.0	16.6667		107	18 - 138			
Surrogate: Decachlorobiphenyl	*14.89*		*16.6667*		*89.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*14.02*		*16.6667*		*84.1*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.71*		*16.6667*		*88.3*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.09*		*16.6667*		*96.6*	*26 - 108*			
Duplicate (B7A0366-DUP1)			**Source: 1700028-42**	Prepared: 1/12/2017 Analyzed: 1/12/2017					
4,4´-DDD	ND	2.0		ND	NR			20	
4,4´-DDD [2C]	ND	2.0		ND	NR			20	
4,4´-DDE	ND	2.0		ND	NR			20	
4,4´-DDE [2C]	ND	2.0		ND	NR			20	
4,4´-DDT	ND	2.0		ND	NR			20	
4,4´-DDT [2C]	ND	2.0		ND	NR			20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
alpha-BHC	ND	1.0		ND	NR			20	
alpha-BHC [2C]	ND	1.0		ND	NR			20	
alpha-Chlordane	ND	1.0		ND	NR			20	
alpha-Chlordane [2C]	ND	1.0		ND	NR			20	
beta-BHC	ND	1.0		ND	NR			20	
beta-BHC [2C]	ND	1.0		ND	NR			20	
delta-BHC	ND	1.0		ND	NR			20	
delta-BHC [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endosulfan I	ND	1.0		ND	NR			20	
Endosulfan I [2C]	ND	1.0		ND	NR			20	
Endosulfan II	ND	2.0		ND	NR			20	
Endosulfan II [2C]	ND	2.0		ND	NR			20	
Endosulfan sulfate	ND	2.0		ND	NR			20	
Endosulfan Sulfate [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
Endrin aldehyde	ND	2.0		ND	NR			20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0366 - GCSEMI_PCB/PEST_S (continued)									
Duplicate (B7A0366-DUP1) - Continued		**Source: 1700028-42**		Prepared: 1/12/2017 Analyzed: 1/12/2017					
Endrin aldehyde [2C]	ND	2.0		ND	NR			20	
Endrin ketone	ND	2.0		ND	NR			20	
Endrin ketone [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
gamma-Chlordane	ND	1.0		ND	NR			20	
gamma-Chlordane [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
Heptachlor epoxide	ND	1.0		ND	NR			20	
Heptachlor epoxide [2C]	ND	1.0		ND	NR			20	
Methoxychlor	ND	5.0		ND	NR			20	
Methoxychlor [2C]	ND	5.0		ND	NR			20	
Surrogate: Decachlorobiphenyl	*15.42*		*16.6667*		*92.5*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.12*		*16.6667*		*96.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*14.14*		*16.6667*		*84.8*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.09*		*16.6667*		*90.6*	*26 - 108*			
Matrix Spike (B7A0366-MS1)		**Source: 1700028-42**		Prepared: 1/12/2017 Analyzed: 1/12/2017					
4,4´-DDD	16.1842	2.0	16.6667	ND	97.1	25 - 141			
4,4´-DDD [2C]	16.7747	2.0	16.6667	ND	101	25 - 141			
4,4´-DDE	15.2817	2.0	16.6667	ND	91.7	22 - 141			
4,4´-DDE [2C]	15.5863	2.0	16.6667	ND	93.5	22 - 141			
4,4´-DDT	19.3058	2.0	16.6667	ND	116	15 - 136			
4,4´-DDT [2C]	19.0840	2.0	16.6667	ND	115	15 - 136			
Aldrin	14.7100	1.0	16.6667	ND	88.3	33 - 118			
Aldrin [2C]	15.1330	1.0	16.6667	ND	90.8	33 - 118			
alpha-BHC	14.5182	1.0	16.6667	ND	87.1	30 - 116			
alpha-BHC [2C]	15.8610	1.0	16.6667	ND	95.2	30 - 116			
alpha-Chlordane	15.3343	1.0	16.6667	ND	92.0	30 - 123			
alpha-Chlordane [2C]	15.4790	1.0	16.6667	ND	92.9	30 - 123			
beta-BHC	14.7747	1.0	16.6667	ND	88.6	24 - 121			
beta-BHC [2C]	15.9428	1.0	16.6667	ND	95.7	24 - 121			
delta-BHC	11.9687	1.0	16.6667	ND	71.8	7 - 120			
delta-BHC [2C]	13.0717	1.0	16.6667	ND	78.4	7 - 120			
Dieldrin	16.2632	2.0	16.6667	ND	97.6	25 - 136			
Dieldrin [2C]	16.1210	2.0	16.6667	ND	96.7	25 - 136			
Endosulfan I	15.2575	1.0	16.6667	ND	91.5	18 - 134			
Endosulfan I [2C]	15.2460	1.0	16.6667	ND	91.5	18 - 134			
Endosulfan II	15.4760	2.0	16.6667	ND	92.9	28 - 128			
Endosulfan II [2C]	15.7248	2.0	16.6667	ND	94.3	28 - 128			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 603378.006
Report To : Julie Harriman
Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0366 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B7A0366-MS1) - Continued		**Source: 1700028-42**		Prepared: 1/12/2017 Analyzed: 1/12/2017					
Endosulfan sulfate	15.0910	2.0	16.6667	ND	90.5	5 - 145			
Endosulfan Sulfate [2C]	15.7915	2.0	16.6667	ND	94.7	5 - 145			
Endrin	17.5468	2.0	16.6667	ND	105	26 - 142			
Endrin [2C]	17.5863	2.0	16.6667	ND	106	26 - 142			
Endrin aldehyde	15.1498	2.0	16.6667	ND	90.9	8 - 146			
Endrin aldehyde [2C]	14.9230	2.0	16.6667	ND	89.5	8 - 146			
Endrin ketone	16.7020	2.0	16.6667	ND	100	16 - 139			
Endrin ketone [2C]	17.2740	2.0	16.6667	ND	104	16 - 139			
gamma-BHC	15.4267	1.0	16.6667	ND	92.6	30 - 122			
gamma-BHC [2C]	16.1010	1.0	16.6667	ND	96.6	30 - 122			
gamma-Chlordane	15.2812	1.0	16.6667	ND	91.7	18 - 132			
gamma-Chlordane [2C]	15.3120	1.0	16.6667	ND	91.9	18 - 132			
Heptachlor	15.8460	1.0	16.6667	ND	95.1	34 - 122			
Heptachlor [2C]	15.9902	1.0	16.6667	ND	95.9	34 - 122			
Heptachlor epoxide	15.0218	1.0	16.6667	ND	90.1	21 - 135			
Heptachlor epoxide [2C]	15.2297	1.0	16.6667	ND	91.4	21 - 135			
Methoxychlor	19.0038	5.0	16.6667	ND	114	8 - 162			
Methoxychlor [2C]	19.3122	5.0	16.6667	ND	116	8 - 162			
Surrogate: Decachlorobiphenyl	*14.23*		*16.6667*		*85.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*15.89*		*16.6667*		*95.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.04*		*16.6667*		*78.3*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.82*		*16.6667*		*88.9*	*26 - 108*			
Matrix Spike Dup (B7A0366-MSD1)		**Source: 1700028-42**		Prepared: 1/12/2017 Analyzed: 1/12/2017					
4,4´-DDD	16.1858	2.0	16.6667	ND	97.1	25 - 141	0.0103	20	
4,4´-DDD [2C]	16.8472	2.0	16.6667	ND	101	25 - 141	0.431	20	
4,4´-DDE	15.2505	2.0	16.6667	ND	91.5	22 - 141	0.204	20	
4,4´-DDE [2C]	15.6012	2.0	16.6667	ND	93.6	22 - 141	0.0952	20	
4,4´-DDT	19.1617	2.0	16.6667	ND	115	15 - 136	0.750	20	
4,4´-DDT [2C]	19.1937	2.0	16.6667	ND	115	15 - 136	0.573	20	
Aldrin	14.8130	1.0	16.6667	ND	88.9	33 - 118	0.698	20	
Aldrin [2C]	15.2198	1.0	16.6667	ND	91.3	33 - 118	0.572	20	
alpha-BHC	15.2613	1.0	16.6667	ND	91.6	30 - 116	4.99	20	
alpha-BHC [2C]	15.2485	1.0	16.6667	ND	91.5	30 - 116	3.94	20	
alpha-Chlordane	15.3428	1.0	16.6667	ND	92.1	30 - 123	0.0554	20	
alpha-Chlordane [2C]	15.5133	1.0	16.6667	ND	93.1	30 - 123	0.222	20	
beta-BHC	15.6235	1.0	16.6667	ND	93.7	24 - 121	5.58	20	
beta-BHC [2C]	15.2992	1.0	16.6667	ND	91.8	24 - 121	4.12	20	
delta-BHC	12.0825	1.0	16.6667	ND	72.5	7 - 120	0.947	20	
delta-BHC [2C]	12.7913	1.0	16.6667	ND	76.7	7 - 120	2.17	20	
Dieldrin	16.2593	2.0	16.6667	ND	97.6	25 - 136	0.0236	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0366 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B7A0366-MSD1) - Continued		**Source: 1700028-42**		Prepared: 1/12/2017 Analyzed: 1/12/2017					
Dieldrin [2C]	16.1438	2.0	16.6667	ND	96.9	25 - 136	0.142	20	
Endosulfan I	15.2748	1.0	16.6667	ND	91.6	18 - 134	0.114	20	
Endosulfan I [2C]	15.2457	1.0	16.6667	ND	91.5	18 - 134	0.00216	20	
Endosulfan II	15.4035	2.0	16.6667	ND	92.4	28 - 128	0.470	20	
Endosulfan II [2C]	15.7370	2.0	16.6667	ND	94.4	28 - 128	0.0774	20	
Endosulfan sulfate	14.7190	2.0	16.6667	ND	88.3	5 - 145	2.50	20	
Endosulfan Sulfate [2C]	15.5047	2.0	16.6667	ND	93.0	5 - 145	1.83	20	
Endrin	17.5042	2.0	16.6667	ND	105	26 - 142	0.243	20	
Endrin [2C]	17.6857	2.0	16.6667	ND	106	26 - 142	0.563	20	
Endrin aldehyde	14.8992	2.0	16.6667	ND	89.4	8 - 146	1.67	20	
Endrin aldehyde [2C]	14.6655	2.0	16.6667	ND	88.0	8 - 146	1.74	20	
Endrin ketone	16.4100	2.0	16.6667	ND	98.5	16 - 139	1.76	20	
Endrin ketone [2C]	16.7965	2.0	16.6667	ND	101	16 - 139	2.80	20	
gamma-BHC	15.9435	1.0	16.6667	ND	95.7	30 - 122	3.30	20	
gamma-BHC [2C]	15.8785	1.0	16.6667	ND	95.3	30 - 122	1.39	20	
gamma-Chlordane	15.3368	1.0	16.6667	ND	92.0	18 - 132	0.364	20	
gamma-Chlordane [2C]	15.3368	1.0	16.6667	ND	92.0	18 - 132	0.162	20	
Heptachlor	15.9830	1.0	16.6667	ND	95.9	34 - 122	0.861	20	
Heptachlor [2C]	15.9687	1.0	16.6667	ND	95.8	34 - 122	0.135	20	
Heptachlor epoxide	15.0487	1.0	16.6667	ND	90.3	21 - 135	0.179	20	
Heptachlor epoxide [2C]	15.2718	1.0	16.6667	ND	91.6	21 - 135	0.276	20	
Methoxychlor	18.6925	5.0	16.6667	ND	112	8 - 162	1.65	20	
Methoxychlor [2C]	18.9503	5.0	16.6667	ND	114	8 - 162	1.89	20	
Surrogate: Decachlorobiphenyl	*14.57*		*16.6667*		*87.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2C]	*16.10*		*16.6667*		*96.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*12.94*		*16.6667*		*77.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.88*		*16.6667*		*89.3*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0272 - GCSEMI_PCB/PEST_S									
Blank (B7A0272-BLK1)				Prepared: 1/10/2017 Analyzed: 1/10/2017					
Aroclor 1016	ND	16			NR				
Aroclor 1221	ND	16			NR				
Aroclor 1232	ND	16			NR				
Aroclor 1242	ND	16			NR				
Aroclor 1248	ND	16			NR				
Aroclor 1254	ND	16			NR				
Aroclor 1260	ND	16			NR				
Aroclor 1262	ND	16			NR				
Aroclor 1268	ND	16			NR				
Surrogate: Decachlorobiphenyl	*18.74*		*16.6667*		*112*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*20.01*		*16.6667*		*120*	*28 - 102*			S1
LCS (B7A0272-BS1)				Prepared: 1/10/2017 Analyzed: 1/10/2017					
Aroclor 1016	163.502	16	166.667		98.1	70 - 107			
Aroclor 1260	185.546	16	166.667		111	69 - 120			
Surrogate: Decachlorobiphenyl	*16.18*		*16.6667*		*97.1*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.40*		*16.6667*		*104*	*28 - 102*			S12
Duplicate (B7A0272-DUP1)		**Source: 1700028-25**		Prepared: 1/10/2017 Analyzed: 1/10/2017					
Aroclor 1016	ND	16		ND	NR			20	
Aroclor 1260	ND	16		ND	NR			20	
Surrogate: Decachlorobiphenyl	*17.78*		*16.6667*		*107*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.64*		*16.6667*		*106*	*28 - 102*			S1
Matrix Spike (B7A0272-MS1)		**Source: 1700028-14**		Prepared: 1/10/2017 Analyzed: 1/10/2017					
Aroclor 1016	178.009	16	166.667	ND	107	34 - 120			
Aroclor 1260	201.664	16	166.667	ND	121	39 - 128			
Surrogate: Decachlorobiphenyl	*18.65*		*16.6667*		*112*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*18.61*		*16.6667*		*112*	*28 - 102*			S12
Matrix Spike Dup (B7A0272-MSD1)		**Source: 1700028-14**		Prepared: 1/10/2017 Analyzed: 1/10/2017					
Aroclor 1016	172.199	16	166.667	ND	103	34 - 120	3.32	20	
Aroclor 1260	195.735	16	166.667	ND	117	39 - 128	2.98	20	
Surrogate: Decachlorobiphenyl	*18.13*		*16.6667*		*109*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.99*		*16.6667*		*108*	*28 - 102*			S12

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7A0339 - GCSEMI_PCB/PEST_S									
Blank (B7A0339-BLK2)				Prepared: 1/11/2017 Analyzed: 1/11/2017					
Aroclor 1016	ND	16			NR				
Aroclor 1221	ND	16			NR				
Aroclor 1232	ND	16			NR				
Aroclor 1242	ND	16			NR				
Aroclor 1248	ND	16			NR				
Aroclor 1254	ND	16			NR				
Aroclor 1260	ND	16			NR				
Aroclor 1262	ND	16			NR				
Aroclor 1268	ND	16			NR				
Surrogate: Decachlorobiphenyl	*19.61*		*16.6667*		*118*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*19.16*		*16.6667*		*115*	*28 - 102*			S1
LCS (B7A0339-BS2)				Prepared: 1/11/2017 Analyzed: 1/11/2017					
Aroclor 1016	153.593	16	166.667		92.2	70 - 107			
Aroclor 1260	169.272	16	166.667		102	69 - 120			
Surrogate: Decachlorobiphenyl	*16.97*		*16.6667*		*102*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*17.13*		*16.6667*		*103*	*28 - 102*			S12
Duplicate (B7A0339-DUP2)		**Source: 1700028-51**		Prepared: 1/11/2017 Analyzed: 1/11/2017					
Aroclor 1016	ND	16		ND	NR			20	
Aroclor 1260	ND	16		ND	NR			20	
Surrogate: Decachlorobiphenyl	*16.04*		*16.6667*		*96.2*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*14.56*		*16.6667*		*87.4*	*28 - 102*			
Matrix Spike (B7A0339-MS2)		**Source: 1700028-51**		Prepared: 1/11/2017 Analyzed: 1/11/2017					
Aroclor 1016	151.237	16	166.667	ND	90.7	34 - 120			
Aroclor 1260	175.912	16	166.667	ND	106	39 - 128			
Surrogate: Decachlorobiphenyl	*16.43*		*16.6667*		*98.6*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*15.24*		*16.6667*		*91.4*	*28 - 102*			
Matrix Spike Dup (B7A0339-MSD2)		**Source: 1700028-51**		Prepared: 1/11/2017 Analyzed: 1/11/2017					
Aroclor 1016	145.155	16	166.667	ND	87.1	34 - 120	4.10	20	
Aroclor 1260	167.751	16	166.667	ND	101	39 - 128	4.75	20	
Surrogate: Decachlorobiphenyl	*15.94*		*16.6667*		*95.6*	*26 - 137*			
Surrogate: Tetrachloro-m-xylene	*14.73*		*16.6667*		*88.4*	*28 - 102*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 01/13/2017

Notes and Definitions

S12	Surrogate recovery outside in-house established limit but within method default criteria.
S1	Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L3	Laboratory control sample outside in-house established limits but within method criteria.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver: 20130715
Method of Transport	**Sample Conditions Upon Receipt**			
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	5.4, 5.5	
☐ Other: _____	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc. (LCI)	Address: 17781 Cowan		Tel: 949-250-1421
	City: Irvine	State: CA Zip: 92614	Fax: 949-250-1114

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Julie Hamman Email: jhamman@leightongroup.com	Attn: Accounts Payable Email: acctpayable@leightongroup.com
Company: LCI	Company: Leighton
Address: 17781 Cowan	Address: 17781 Cowan
City: Irvine State: CA Zip: 92614	City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS	Quote No: —	Special Instructions/Comments: Standard TAT
Project No.: 603378.006	PO #: —	
Sampler: LC. Sconiers		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010/7000 Arsenic	6010/7000 Lead	Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Container: Type	Container: Material	Preservative	REMARKS
1	1700028 - 1	FB2-2-0.5	1-3-17	1000					X				X	X	X					5	1	5	1	—	
2	- 2	FB2-2-1.5		1001																					
3	- 3	~~FB2-2-2~~ (OBS 1-3-17) FB2-2-2.5		1002																					
4	- 4	FB2-4-0.5		1004																					
5	- 5	FB2-4-1.5		1005																					
6	- 6	FB2-4-2.5		1006																					
7	- 7	FB2-3-0.5		1010																					
8	- 8	FB2-3-1.5		1011																					
9	- 9	FB2-3-2.5		1012																					
10	- 10	FB2-1-0.5		1013																					

SUBMITTAL

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and Solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sconiers — Submitter Print Name

Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Sconiers	1-3-17	1835		1-3-17	1835
	1-3-17	1735		1/3/17	1935

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Lead/Toxic/CCC Arsenic; Lead/Toxic/Toxic Lead

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE/ FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

Container: TAT; # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	8260	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead/Toxic/CCC Arsenic	Lead/Toxic/Toxic Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	#	Type	Material	Preservative	REMARKS
1	1700028 -11	FB2-1-1.5'	1-3-17	1014					X				X	X	X					5	1	5	1	1	
2	-12	FB2-1-2.5		1015					X				X	X											
3	-13	FB1-7-0.5		1330					X				X	X											
4	-14	FB1-7-0.5-D		1330					X	X			X	X											
5	-15	FB1-5-0.5		1336					X				X	X											
6	-16	FB1-5-0.5-D		1336					X				X	X											
7	-17	FB1-5-1.5		1337					X				X	X											
8	-18	FB1-5-1.5-D		1337					X				X	X											
9	-19	FB1-5-2.5		1338					X				X	X											
10	-20	FB1-6-1.5		1340					X				X	X											

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformat ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scorvies — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
T. Wallace Scorvies	1-3-17	1835		1-3-17	1835
	1-3-17	1935		1/3/17	1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:

City: | State: | Zip: | Fax:

SEND REPORT TO:

Attn: | Email:

Company:

Address:

City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO

Attn: | Email:

Company:

Address:

City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:

Project No.: | PO #:

Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Title 22 Arsenic	Title 22 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	#	Type	Material	Preservative	REMARKS
1	1700028-21	FB1-6-0.5-D	1-3-17	1340									X	X	X					5	1	5	1	-	HOLD
2	-22	FB1-6-1.5		1341					X				X	X											
3	-23	FB1-6-1.5-D		1341					X				X	X											
4	-24	FB1-6-2.5		1342					X				X	X											
5	-25	FB1-3-0.5		1350					X	X			X	X											
6	-26	FB1-3-0.5-D		1350					X				X	X											
7	-27	FB1-3-1.5		1351					X				X	X											
8	-28	FB1-3-1.5-D		1351					X				X	X											
9	-29	FB1-3-2.5		1352					X				X	X											
10	-30	FB1-4-0.5	↓	1400					X				X	X	↓					↓	↓	↓	↓	↓	

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister | Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

SUBMITTAL

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Stevens — Submitter Print Name | Signature

Relinquished by: (Signature and Printed Name) Wallace Stevens	Date: 1-3-17	Time: 1835	Received by: (Signature and Printed Name) Joanna Lee	Date: 1-3-17	Time: 1835
Relinquished by: (Signature and Printed Name) Joanna Lee	Date: 1-3-17	Time: 1935	Received by: (Signature and Printed Name) FEDEX	Date: 1/3/17	Time: 1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver: 20130715			
Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL		1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac		2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:		4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State:	Zip: Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead/Total Arsenic	Lead/Total Lead	Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1700028 - 31	FB1-4-0.5-D	1-3-17	1400					X				X	X	X					5	1	5	—	—	
2	-32	FB1-4-0.5-1.5		1401					X				X	X											
3	-33	FB1-4-1.5-D		1401					X				X	X											
4	-34	FB1-4-2.5		1402					X				X	X											
5	-35	FB1-1-0.5		1404					X	X			X	X											
6	-36	FB1-1-0.5-D		1404					X				X	X											
7	-37	FB1-1-1.5		1406					X				X	X											
8	-38	FB1-1-1.5-D		1406					X				X	X											
9	-39	FB1-1-2.5		1407					X				X	X											
10	-40	FB1-2-0.5	↓	1409					X				X	X	↓					↓	↓	↓	↓	↓	

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scovich — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name) Wallace Scovich	Date: 1-3-17	Time: 1835	Received by: (Signature and Printed Name)	Date: 1-3-17	Time: 1835
Relinquished by: (Signature and Printed Name)	Date: 1-3-17	Time: 1935	Received by: (Signature and Printed Name)	Date: 1/3/17	Time: 1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lab/Tech Arsenic	Lab/Tech Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1700028-41	FB1-2-0.5-D	1-3-17	1409					X				X	X	X					5	1	5	1	-	
2	-42	FB1-2-1.5		1410					X				X	X											
3	-43	FB1-2-1.5-D		1410					X				X	X											
4	-44	FB1-2-2.5		1411					X				X	X											
5	-45	FB15-1-0.5		1500					X	X			X	X											
6	-46	FB15-1-1.5		1501					X				X	X											
7	-47	FB15-1-2.5		1502					X				X	X											
8	-48	FB15-2-0.5		1503					X				X	X											
9	-49	FB15-2-1.5		1504					X				X	X											
10	-50	FB15-2-2.5	↓	1505					X				X	X	↓					↓	↓	↓	↓	↓	

SUBMITTAL

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seaniels — Submitter Print Name

Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seaniels	1-3-17	1835	Jonathan Lee	1-3-17	1835
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	1-3-17	1935	Fedex	1/3/17	1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:

City: | State: | Zip: | Fax:

SEND REPORT TO:

Attn: | Email:

Company:

Address: See Page #1

City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO

Attn: | Email:

Company:

Address:

City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:

Project No.: | PO #:

Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Cd/Tcc/Arsenic	Cd/Tcc/Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	170022 - 01	FB15-3-0.5	1-3-17	1506					X	X			X	X	X					5	1	5	1	1	
2	- 02	FB15-3-1.5		1507																					
3	- 03	FB15-3-2.5		1508																					
4	- 04	FB15-4-0.5		1509																					
5	- 05	FB15-4-1.5		1510																					
6	- 06	FB15-4-2.5		1511																					
7																									
8																									
9																									
10																									

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister

Material: 1=Glass; 2=Plastic; 3=Metal

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamens — Submitter Print Name

Signature

SIGNATURES

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seamens WBS 1-3-17	1-3-17	1835	Jonathan Lee	1-3-17	1835
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	1-3-17	1955	FedEx	1/3/17	1935
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

APRIL 2017 LABORATORY REPORTS

April 18, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1701509
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April 10, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB9-4-N5-0.5	1701509-01	Soil	4/10/17 7:30	4/10/17 15:25
FB9-4-N5-1.5	1701509-02	Soil	4/10/17 7:32	4/10/17 15:25
FB9-4-N5-2.5	1701509-03	Soil	4/10/17 7:37	4/10/17 15:25
FB9-4-W5-0.5	1701509-04	Soil	4/10/17 7:39	4/10/17 15:25
FB9-4-W5-1.5	1701509-05	Soil	4/10/17 7:42	4/10/17 15:25
FB9-4-W5-2.5	1701509-06	Soil	4/10/17 7:52	4/10/17 15:25
FB9-4-W10-0.5	1701509-07	Soil	4/10/17 7:57	4/10/17 15:25
FB9-4-W10-1.5	1701509-08	Soil	4/10/17 8:00	4/10/17 15:25
FB9-4-W10-2.5	1701509-09	Soil	4/10/17 8:03	4/10/17 15:25
EB-2017-04-10	1701509-10	Water	4/10/17 15:00	4/10/17 15:25
FB9-1-N5-0.5	1701509-11	Soil	4/10/17 8:10	4/10/17 15:25
FB9-1-N5-1.5	1701509-12	Soil	4/10/17 8:12	4/10/17 15:25
FB9-1-N5-2.5	1701509-13	Soil	4/10/17 8:14	4/10/17 15:25
FB9-1-W5-0.5	1701509-14	Soil	4/10/17 8:20	4/10/17 15:25
FB9-1-W5-1.5	1701509-15	Soil	4/10/17 8:22	4/10/17 15:25
FB9-1-W5-2.5	1701509-16	Soil	4/10/17 8:24	4/10/17 15:25
FB9-1-W10-0.5	1701509-17	Soil	4/10/17 8:27	4/10/17 15:25
FB9-1-W10-0.5-D	1701509-18	Soil	4/10/17 8:27	4/10/17 15:25
FB9-1-W10-1.5	1701509-19	Soil	4/10/17 8:29	4/10/17 15:25
FB9-1-W10-2.5	1701509-20	Soil	4/10/17 8:31	4/10/17 15:25
FB9-1-S5-0.5	1701509-21	Soil	4/10/17 8:37	4/10/17 15:25
FB9-1-S5-1.5	1701509-22	Soil	4/10/17 8:39	4/10/17 15:25
FB9-1-S5-2.5	1701509-23	Soil	4/10/17 8:43	4/10/17 15:25
FB9-1-S10-0.5	1701509-24	Soil	4/10/17 8:49	4/10/17 15:25
FB9-1-S10-1.5	1701509-25	Soil	4/10/17 8:52	4/10/17 15:25
FB9-1-S10-1.5-D	1701509-26	Soil	4/10/17 8:52	4/10/17 15:25
FB9-1-S10-2.5	1701509-27	Soil	4/10/17 8:55	4/10/17 15:25
EB9-6-N10-0.5	1701509-28	Soil	4/10/17 9:10	4/10/17 15:25
EB9-6-N10-1.5	1701509-29	Soil	4/10/17 9:12	4/10/17 15:25
EB9-6-N10-2.5	1701509-30	Soil	4/10/17 9:20	4/10/17 15:25
EB9-6-N5-0.5	1701509-31	Soil	4/10/17 9:12	4/10/17 15:25
EB9-6-N5-1.5	1701509-32	Soil	4/10/17 9:15	4/10/17 15:25
EB9-6-N5-2.5	1701509-33	Soil	4/10/17 9:17	4/10/17 15:25
EB9-6-E10-0.5	1701509-34	Soil	4/10/17 9:20	4/10/17 15:25
EB9-6-E10-0.5-D	1701509-35	Soil	4/10/17 9:20	4/10/17 15:25
EB9-6-E10-1.5	1701509-36	Soil	4/10/17 9:22	4/10/17 15:25
EB9-6-E10-2.5	1701509-37	Soil	4/10/17 9:25	4/10/17 15:25

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

EB9-6-E5-0.5	1701509-38	Soil	4/10/17 9:22	4/10/17 15:25
EB9-6-E5-1.5	1701509-39	Soil	4/10/17 9:25	4/10/17 15:25
EB9-6-E5-1.5-D	1701509-40	Soil	4/10/17 9:25	4/10/17 15:25
EB9-6-E5-2.5	1701509-41	Soil	4/10/17 9:26	4/10/17 15:25
EB9-6-S5-0.5	1701509-42	Soil	4/10/17 9:30	4/10/17 15:25
EB9-6-S5-1.5	1701509-43	Soil	4/10/17 9:35	4/10/17 15:25
EB9-6-S5-2.5	1701509-44	Soil	4/10/17 9:37	4/10/17 15:25
EB9-6-S10-0.5	1701509-45	Soil	4/10/17 9:40	4/10/17 15:25
EB9-6-S10-1.5	1701509-46	Soil	4/10/17 9:42	4/10/17 15:25
EB9-6-S10-2.5	1701509-47	Soil	4/10/17 9:45	4/10/17 15:25

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-4-N5-0.5

Lab ID: 1701509-01

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.9**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:22	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-4-N5-1.5

Lab ID: 1701509-02

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**11**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:29	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID FB9-4-N5-2.5

Lab ID: 1701509-03

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**33**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:30	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-4-W5-0.5

Lab ID: 1701509-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**34**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:31	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-4-W5-1.5

Lab ID: 1701509-05

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.6**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:32	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-4-W5-2.5

Lab ID: 1701509-06

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**200**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:33	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-4-W10-0.5

Lab ID: 1701509-07

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**12**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:35	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-4-W10-1.5

Lab ID: 1701509-08

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.6**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:36	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-4-W10-2.5

Lab ID: 1701509-09

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**17**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:37	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID EB-2017-04-10

Lab ID: 1701509-10

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	0.010	0.0067	1	B7D0418	04/14/2017	04/14/17 15:03	
Lead	ND	0.0050	0.0028	1	B7D0418	04/14/2017	04/14/17 15:03	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-N5-0.5

Lab ID: 1701509-11

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**52**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:38	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-N5-1.5

Lab ID: 1701509-12

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**63**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:39	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-N5-2.5

Lab ID: 1701509-13

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.2**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:43	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-W5-0.5

Lab ID: 1701509-14

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.0**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:44	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-W5-1.5

Lab ID: 1701509-15

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.9**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:45	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID FB9-1-W5-2.5

Lab ID: 1701509-16

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.2**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:46	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-W10-0.5

Lab ID: 1701509-17

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**27**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:47	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-W10-0.5-D

Lab ID: 1701509-18

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**20**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:48	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-W10-1.5

Lab ID: 1701509-19

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**26**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:49	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-W10-2.5

Lab ID: 1701509-20

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.7**	1.0	0.11	1	B7D0388	04/14/2017	04/14/17 15:51	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-S5-0.5

Lab ID: 1701509-21

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**67**	1.0	0.11	1	B7D0389	04/14/2017	04/14/17 15:57	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID FB9-1-S5-1.5

Lab ID: 1701509-22

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**340**	1.0	0.11	1	B7D0389	04/14/2017	04/14/17 16:01	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-S5-2.5

Lab ID: 1701509-23

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**140**	1.0	0.11	1	B7D0389	04/14/2017	04/14/17 16:02	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-S10-0.5

Lab ID: 1701509-24

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**47**	1.0	0.11	1	B7D0389	04/14/2017	04/14/17 16:03	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-S10-1.5

Lab ID: 1701509-25

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**55**	1.0	0.11	1	B7D0389	04/14/2017	04/14/17 16:04	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID FB9-1-S10-1.5-D

Lab ID: 1701509-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**58**	1.0	0.11	1	B7D0389	04/14/2017	04/14/17 16:05	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID FB9-1-S10-2.5

Lab ID: 1701509-27

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**43**	1.0	0.11	1	B7D0389	04/14/2017	04/14/17 16:06	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID EB9-6-N10-0.5

Lab ID: 1701509-28

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:10	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-N10-1.5

Lab ID: 1701509-29

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:11	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID EB9-6-N10-2.5

Lab ID: 1701509-30

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.7**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:12	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID EB9-6-N5-0.5

Lab ID: 1701509-31

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**78**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:13	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID EB9-6-N5-1.5

Lab ID: 1701509-32

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**29**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:15	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-N5-2.5

Lab ID: 1701509-33

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**39**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:16	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID EB9-6-E10-0.5

Lab ID: 1701509-34

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:17	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID EB9-6-E10-0.5-D

Lab ID: 1701509-35

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:18	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID EB9-6-E10-1.5

Lab ID: 1701509-36

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.98**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:19	J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-E10-2.5

Lab ID: 1701509-37

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.0**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:20	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID EB9-6-E5-0.5

Lab ID: 1701509-38

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**8.6**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:24	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-E5-1.5

Lab ID: 1701509-39

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**13**	1.0	0.70	1	B7D0389	04/14/2017	04/14/17 16:25	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-E5-1.5-D

Lab ID: 1701509-40

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**8.5**	1.0	0.70	1	B7D0390	04/14/2017	04/14/17 16:29	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-E5-2.5

Lab ID: 1701509-41

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7D0390	04/14/2017	04/14/17 16:33	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-S5-0.5

Lab ID: 1701509-42

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7D0390	04/14/2017	04/14/17 16:34	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-S5-1.5

Lab ID: 1701509-43

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	0.70	1	B7D0390	04/14/2017	04/14/17 16:37	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-S5-2.5

Lab ID: 1701509-44

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.5**	1.0	0.70	1	B7D0390	04/14/2017	04/14/17 16:38	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-S10-0.5

Lab ID: 1701509-45

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.70	1	B7D0390	04/14/2017	04/14/17 16:40	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/18/2017

Client Sample ID EB9-6-S10-1.5

Lab ID: 1701509-46

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	0.70	1	B7D0390	04/14/2017	04/14/17 16:41	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Client Sample ID EB9-6-S10-2.5

Lab ID: 1701509-47

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	0.70	1	B7D0390	04/14/2017	04/14/17 16:42	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0388 - EPA 3050B_S										
Blank (B7D0388-BLK1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0388-BS1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	44.6583	1.0	0.70	50.0000		89.3	80 - 120			
Lead	45.1174	1.0	0.11	50.0000		90.2	80 - 120			
Duplicate (B7D0388-DUP1)			**Source: 1701509-01**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	1.32016	1.0	0.70		1.40067			5.92	20	
Lead	3.75171	1.0	0.11		4.87239			26.0	20	R
Matrix Spike (B7D0388-MS1)			**Source: 1701509-01**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	91.0580	1.0	0.70	125.000	1.40067	71.7	59 - 103			
Lead	94.6476	1.0	0.11	125.000	4.87239	71.8	34 - 129			
Matrix Spike Dup (B7D0388-MSD1)			**Source: 1701509-01**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	89.4588	1.0	0.70	125.000	1.40067	70.4	59 - 103	1.77	20	
Lead	104.857	1.0	0.11	125.000	4.87239	80.0	34 - 129	10.2	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0389 - EPA 3050B_S										
Blank (B7D0389-BLK1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0389-BS1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	45.1810	1.0	0.70	50.0000		90.4	80 - 120			
Lead	45.9882	1.0	0.11	50.0000		92.0	80 - 120			
Duplicate (B7D0389-DUP1)			**Source: 1701509-21**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	2.82644	1.0	0.70		2.63039			7.19	20	
Lead	63.6344	1.0	0.11		67.0130			5.17	20	
Matrix Spike (B7D0389-MS1)			**Source: 1701509-21**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	96.1092	1.0	0.70	125.000	2.63039	74.8	59 - 103			
Lead	155.254	1.0	0.11	125.000	67.0130	70.6	34 - 129			
Matrix Spike Dup (B7D0389-MSD1)			**Source: 1701509-21**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	97.2620	1.0	0.70	125.000	2.63039	75.7	59 - 103	1.19	20	
Lead	197.894	1.0	0.11	125.000	67.0130	105	34 - 129	24.1	20	R

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0390 - EPA 3050B_S										
Blank (B7D0390-BLK1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0390-BS1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	44.0331	1.0	0.70	50.0000		88.1	80 - 120			
Lead	44.8843	1.0	0.11	50.0000		89.8	80 - 120			
Duplicate (B7D0390-DUP1)			**Source: 1701509-40**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	7.79903	1.0	0.70		8.46315			8.17	20	
Lead	57.9878	1.0	0.11		58.5847			1.02	20	
Matrix Spike (B7D0390-MS1)			**Source: 1701509-40**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	98.3634	1.0	0.70	125.000	8.46315	71.9	59 - 103			
Lead	153.792	1.0	0.11	125.000	58.5847	76.2	34 - 129			
Matrix Spike Dup (B7D0390-MSD1)			**Source: 1701509-40**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	93.7955	1.0	0.70	125.000	8.46315	68.3	59 - 103	4.75	20	
Lead	121.410	1.0	0.11	125.000	58.5847	50.3	34 - 129	23.5	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0418 - EPA 3010A_W										
Blank (B7D0418-BLK1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	ND	0.010	0.0067							
Lead	ND	0.0050	0.0028							
LCS (B7D0418-BS1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	0.961476	0.010	0.0067	1.00000		96.1	80 - 120			
Lead	0.968250	0.0050	0.0028	1.00000		96.8	80 - 120			
Duplicate (B7D0418-DUP1)			**Source: 1701542-52**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	ND	0.010	0.0067		ND			NR	20	
Lead	ND	0.0050	0.0028		ND			NR	20	
Matrix Spike (B7D0418-MS1)			**Source: 1701542-52**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	2.23020	0.010	0.0067	2.50000	ND	89.2	74 - 123			
Lead	2.28637	0.0050	0.0028	2.50000	ND	91.5	78 - 109			
Matrix Spike Dup (B7D0418-MSD1)			**Source: 1701542-52**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	2.25391	0.010	0.0067	2.50000	ND	90.2	74 - 123	1.06	20	
Lead	2.32601	0.0050	0.0028	2.50000	ND	93.0	78 - 109	1.72	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/18/2017

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 5

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc (LCI)
Address: 17781 Cowan
Tel: 949-250-1421
City: Irvine State: CA Zip: 92614 Fax: 949-250-1114

SEND REPORT TO:
Attn: Julie Harriman Email: jharriman@leightongroup.com
Company: LCI
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: acctpayable@leightongroup.com
Company: Leighton
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS-LAUSD
Project No.: 603378-006
Sampler: W. Sconiers
Quote No: —
PO #: —
Special Instructions/Comments: —

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1701509-1	FB9-4-NS-0.5	4-10-17	0730									X		X					5	1	5	1	—	
2	-2	FB9-4-NS-1.5		0732									X												
3	-3	FB9-4-NS-2.5		0737									X												
4	-4	FB9-4-WS-0.5		0739									X												
5	-5	FB9-4-WS-1.5		0742									X												
6	-6	FB9-4-WS-2.5		0752									X												
7	-7	FB9-4-W10-0.5		0757									X												
8	-8	FB9-4-W10-1.5		0800									X												
9	-9	FB9-4-W10-2.5		0803									X												
10	-10	FB-2017-04-10	4-10-17	1500									X	X			X			5	1	4	2	2	

Encircle or Write Requested Analysis
Encircle Sample Matrix
Container
QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Redlar; 7= Canister
Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (IAc)2; 6=NaOH; 7=NA2S2O3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sconiers — Submitter Print Name
Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Sconiers	4-10-17	1525	Erick Franca	04/10/17	15:25
Erick Franca	4/10/17	16:39		4/10/17	1639

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State:	Zip: Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page #1	Company: See Page #1
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	QA/QC / REMARKS
1	1701509 -1	FB9-1-NS-0.5	4-10-17	0810									X	X					5	1	5	1	i	
2	-12	FB9-1-NS-1.5		0812																				
3	-13	FB9-1-NS-2.5		0814																				
4	-14	FB9-1-WS-0.5		0820																				
5	-15	FB9-1-WS-1.5		0822																				
6	-16	FB9-1-WS-2.5		0824																				
7	-17	FB9-1-W10-0.5		0827																				
8	-18	FB9-1-W10-0.5-D		0827																				
9	-19	FB9-1-W10-1.5		0829																				
10	-20	FB9-1-W10-2.5		0831																				

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab — ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Stevens — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Stevens	4-10-17	15:25		04/10/17	15:26
Erick Francia	4/10/17	16:39		4/10/17	16:39

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 5

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State:	Zip: Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page #1	Company: See Page #1
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; 6010B Lead; 6010B Arsenic

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

Container: TAT; # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	8260	8015(GRO)	8015(DRO)	8270	8081	8082	6010/7000	TO-15	6010B Lead	6010B Arsenic	SOIL	SOLIDS	WATER-DRINKING	WATER-STORM	AQUEOUS	TAT	#	Type	Material	Preservative	REMARKS
1	1701509-21	FB9-1-SS-0.5	4-10-17	0837									X		X					5	1	5	1	-	
2	-22	FB9-1-SS-1.5		0839																					
3	-23	FB9-1-SS-2.5		0843																					
4	-24	FB9-1-S10-0.5		0849																					
5	-25	FB9-1-S10-1.5		0852																					
6	-26	FB9-1-S10-1.5-D		0852																					
7	-27	FB9-1-S10-2.5		0855																					
8	-28	EB9-6-N10-0.5		0910										X											
9	-29	EB9-6-N10-1.5		0912																					
10	-30	EB9-6-N10-2.5		0920																					

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scomies — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scomies	4-10-17	1525	Erick Franco	04/10/18	15:26
Erick Franco	4/10/17	16:39	FEDEX	4/10/17	1639
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 5

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address: See Page #1
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address: See Page #1
City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1701509 -31	EB9-6-N5-0.5	4-10-17	0912										X	X					5	1	5	1	-	
2	-32	EB9-6-N5-1.5		0915										X											
3	-33	EB9-6-N5-2.5		0917										X											
4	-34	EB9-6-E10-0.5		0920										X											
5	-35	EB9-6-E10-0.5-D		0920										X											
6	-36	EB9-6-E10-1.5		0922										X											
7	-37	EB9-6-E10-2.5		0925										X											
8	-38	EB9-6-E5-0.5		0922										X											
9	-39	EB9-6-E5-1.5		0925										X											
10	-40	EB9-6-E5-1.5-D		0925										X											

Encircle or Write Requested Analysis | Encircle Sample Matrix | Container

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister
Container Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab — ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Somers — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Somers	4-10-17	1525	Erick Franca	04/10/17	15:26
Erick Franca	4/10/17	16:40	Fedex	4/10/17	1640
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 5

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State:	Zip: Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page #1	Company: See Page #1
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead (LUFT Arsenic)	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1701509-41	EB9-6-ES-2.5	4-10-17	0926									X	X					5	1	5	1	-	
2	-42	EB9-6-SS-0.5		0930									X											
3	-43	EB9-6-SS-1.5		0935									X											
4	-44	EB9-6-SS-2.5		0937									X											
5	-45	EB9-6-S10-0.5		0940									X											
6	-46	EB9-6-S10-1.5		0942									X											
7	-47	EB9-6-S10-2.5		0945									X											
8																								
9																								
10																								

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sconiers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name) Wallace Sconiers	Date: 4-10-17	Time: 1525	Received by: (Signature and Printed Name) Erick Franco	Date: 04/10/17	Time: 15:26
Relinquished by: (Signature and Printed Name) Erick Franco	Date: 4/10/17	Time: 16:40	Received by: (Signature and Printed Name)	Date: 4/10/17	Time: 1640
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

April 26, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1701509
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April 10, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB9-4-W5-2.5	1701509-06	Soil	4/10/17 7:52	4/10/17 15:25
FB9-1-N5-0.5	1701509-11	Soil	4/10/17 8:10	4/10/17 15:25
FB9-1-N5-1.5	1701509-12	Soil	4/10/17 8:12	4/10/17 15:25
FB9-1-S5-0.5	1701509-21	Soil	4/10/17 8:37	4/10/17 15:25
FB9-1-S5-1.5	1701509-22	Soil	4/10/17 8:39	4/10/17 15:25
FB9-1-S5-2.5	1701509-23	Soil	4/10/17 8:43	4/10/17 15:25
FB9-1-S10-1.5	1701509-25	Soil	4/10/17 8:52	4/10/17 15:25
FB9-1-S10-1.5-D	1701509-26	Soil	4/10/17 8:52	4/10/17 15:25
EB9-6-N5-0.5	1701509-31	Soil	4/10/17 9:12	4/10/17 15:25

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID FB9-4-W5-2.5

Lab ID: 1701509-06

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.7**	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 14:35	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.0**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:31	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID FB9-1-N5-0.5

Lab ID: 1701509-11

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.069**	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 14:37	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.5**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:33	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID FB9-1-N5-1.5

Lab ID: 1701509-12

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 14:38	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.24**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:34	D1, J

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID FB9-1-S5-0.5

Lab ID: 1701509-21

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.18**	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 14:39	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**12**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:36	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID FB9-1-S5-1.5

Lab ID: 1701509-22

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.71**	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 14:40	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**30**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:37	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID FB9-1-S5-2.5

Lab ID: 1701509-23

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 16:19	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.1**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:38	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID FB9-1-S10-1.5

Lab ID: 1701509-25

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 16:20	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.7**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:40	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID FB9-1-S10-1.5-D

Lab ID: 1701509-26

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 16:22	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.6**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:41	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID EB9-6-N5-0.5

Lab ID: 1701509-31

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.12**	0.25	0.033	5	B7D0616	04/21/2017	04/21/17 16:26	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.1**	1.0	0.13	20	B7D0630	04/22/2017	04/24/17 11:43	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0616 - EPA 3010A_S										
Blank (B7D0616-BLK1)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	ND	0.050	0.0067							
Lead	ND	0.050	0.0028							
Blank (B7D0616-BLK2)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	ND	0.050	0.0067							
Lead	ND	0.050	0.0028							
LCS (B7D0616-BS1)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	1.00688	0.050	0.0067	1.00000		101	80 - 120			
Lead	1.01408	0.050	0.0028	1.00000		101	80 - 120			
Duplicate (B7D0616-DUP1)			**Source: 1701523-13**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	0.045818	0.25	0.033		ND			NR	20	J
Lead	ND	0.25	0.014		ND			NR	20	
Duplicate (B7D0616-DUP2)			**Source: 1701509-26**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	ND	0.25	0.033		ND			NR	20	
Lead	0.021209	0.25	0.014		ND			NR	20	J
Matrix Spike (B7D0616-MS1)			**Source: 1701523-13**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	2.29631	0.25	0.033	2.50000	ND	91.9	74 - 123			
Lead	2.21253	0.25	0.014	2.50000	ND	88.5	78 - 109			
Matrix Spike (B7D0616-MS2)			**Source: 1701509-26**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	2.33957	0.25	0.033	2.50000	ND	93.6	74 - 123			
Lead	2.30072	0.25	0.014	2.50000	ND	92.0	78 - 109			
Matrix Spike Dup (B7D0616-MSD1)			**Source: 1701523-13**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	2.32711	0.25	0.033	2.50000	ND	93.1	74 - 123	1.33	20	
Lead	2.25410	0.25	0.014	2.50000	ND	90.2	78 - 109	1.86	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0630 - STLC_S Extraction										
Blank (B7D0630-BLK1)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	ND	1.0	0.13							
Lead	ND	1.0	0.057							
Blank (B7D0630-BLK2)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	ND	1.0	0.13							
Lead	ND	1.0	0.057							
LCS (B7D0630-BS1)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	1.89804			2.00000		94.9	80 - 120			
Lead	1.83421			2.00000		91.7	80 - 120			
Duplicate (B7D0630-DUP1)			**Source: 1701509-31**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	2.00415	1.0	0.13		2.08395			3.90	20	
Lead	1.02776	1.0	0.057		1.03059			0.275	20	
Duplicate (B7D0630-DUP2)			**Source: 1701649-01**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	0.162251	1.0	0.13		ND			NR	20	J
Lead	2.42897	1.0	0.057		2.47254			1.78	20	
Matrix Spike (B7D0630-MS1)			**Source: 1701509-31**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	4.22886			2.50000	2.08395	85.8	90 - 110			M1
Lead	3.12915			2.50000	1.03059	83.9	44 - 130			
Matrix Spike (B7D0630-MS2)			**Source: 1701649-01**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	2.42197			2.50000	0.128690	91.7	90 - 110			
Lead	4.65936			2.50000	2.47254	87.5	44 - 130			
Matrix Spike Dup (B7D0630-MSD1)			**Source: 1701509-31**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	4.06811			2.50000	2.08395	79.4	90 - 110	3.88	20	M1
Lead	3.03420			2.50000	1.03059	80.1	44 - 130	3.08	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Wednesday, April 19, 2017 3:06 PM
To: Rachelle Arada
Cc: customer.relations@atlglobal.com
Subject: RE: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Rachelle,

For the Burroughs samples:
- for all samples that exceed 50 mg/kg arsenic, we request STLC-arsenic and TCLP-arsenic.
-for all samples that exceed 50 mg/kg lead, we request STLC-lead and TCLP-lead.

Thank you,
Julie

-------- Original message --------
From: Rachelle Arada <Rachelle@atlglobal.com>
Date: 4/19/17 12:36 PM (GMT-08:00)
To: Julie Harriman <jharriman@leightongroup.com>
Cc: customer.relations@atlglobal.com
Subject: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Julie,

Please find your results for the above project attached. If I can further assist, please let me know. Thanks.

Rachelle Arada
Project Manager
Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*
This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.

May 15, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1701523
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April 11, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB11-2-N10-1.5	1701523-02	Soil	4/10/17 10:52	4/11/17 15:27
EB11-2-E5-0.5	1701523-07	Soil	4/10/17 10:52	4/11/17 15:27
EB11-2-S5-0.5	1701523-11	Soil	4/10/17 11:06	4/11/17 15:27
EB11-2-S5-1.5	1701523-12	Soil	4/10/17 11:08	4/11/17 15:27
EB11-2-S5-2.5	1701523-13	Soil	4/10/17 11:10	4/11/17 15:27
EB10-2-W10-1.5	1701523-15	Soil	4/10/17 10:18	4/11/17 15:27
EB10-2-W5-0.5	1701523-18	Soil	4/10/17 10:11	4/11/17 15:27
EB10-2-W5-1.5	1701523-19	Soil	4/10/17 10:15	4/11/17 15:27
EB10-2-S5-1.5	1701523-22	Soil	4/10/17 10:32	4/11/17 15:27
EB10-2-S10-0.5	1701523-24	Soil	4/10/17 10:33	4/11/17 15:27
EB10-2-S10-1.5	1701523-25	Soil	4/10/17 10:35	4/11/17 15:27
EB10-2-S10-2.5	1701523-26	Soil	4/10/17 10:40	4/11/17 15:27
EB11-1-S5-0.5	1701523-27	Soil	4/10/17 11:05	4/11/17 15:27
EB11-1-S5-1.5	1701523-28	Soil	4/10/17 11:07	4/11/17 15:27
EB11-1-S5-2.5	1701523-29	Soil	4/10/17 11:10	4/11/17 15:27
EB11-1-W5-1.5	1701523-31	Soil	4/10/17 11:00	4/11/17 15:27
EB11-1-W10-0.5	1701523-33	Soil	4/10/17 11:10	4/11/17 15:27
EB11-2-S10-0.5	1701523-37	Soil	4/10/17 11:19	4/11/17 15:27
EB11-2-S10-1.5	1701523-38	Soil	4/10/17 11:20	4/11/17 15:27
EB15-1-S5-0.5	1701523-41	Soil	4/10/17 13:56	4/11/17 15:27
EB12-1-S10-1.5	1701523-45	Soil	4/10/17 13:50	4/11/17 15:27
EB12-1-S5-1.5	1701523-48	Soil	4/10/17 13:41	4/11/17 15:27
EB11-1-S10-0.5	1701523-53	Soil	4/10/17 11:15	4/11/17 15:27
EB12-1-N10-0.5	1701523-56	Soil	4/10/17 13:30	4/11/17 15:27

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-N10-1.5

Lab ID: 1701523-02

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 16:35	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.8**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:56	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-E5-0.5

Lab ID: 1701523-07

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 16:37	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.2**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:57	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-S5-0.5

Lab ID: 1701523-11

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.017**	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 16:38	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.7**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:59	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-S5-1.5

Lab ID: 1701523-12

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.019**	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 16:39	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.0**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 12:00	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-S5-2.5

Lab ID: 1701523-13

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0616	04/21/2017	04/21/17 16:41	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.6**	1.0	0.057	20	B7D0630	04/22/2017	04/24/17 11:23	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB10-2-W10-1.5

Lab ID: 1701523-15

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 17:21	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.5**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:08	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB10-2-W5-0.5

Lab ID: 1701523-18

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.044**	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 17:22	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.2**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:09	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB10-2-W5-1.5

Lab ID: 1701523-19

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 17:23	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1.6**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:10	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB10-2-S5-1.5

Lab ID: 1701523-22

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.070**	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 17:25	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.7**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:12	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB10-2-S10-0.5

Lab ID: 1701523-24

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.042**	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 17:26	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.6**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:13	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB10-2-S10-1.5

Lab ID: 1701523-25

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.042**	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 17:28	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.8**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:14	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB10-2-S10-2.5

Lab ID: 1701523-26

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 17:29	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.0**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:46	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-1-S5-0.5

Lab ID: 1701523-27

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 17:30	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.5**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:20	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-1-S5-1.5

Lab ID: 1701523-28

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 17:34	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.0**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:21	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-1-S5-2.5

Lab ID: 1701523-29

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 17:36	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.6**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:22	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-1-W5-1.5

Lab ID: 1701523-31

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 18:00	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.5**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:28	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-1-W10-0.5

Lab ID: 1701523-33

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 18:01	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.6**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:29	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-S10-0.5

Lab ID: 1701523-37

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.019**	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 18:03	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.7**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:30	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-S10-1.5

Lab ID: 1701523-38

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 18:04	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.5**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:32	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB15-1-S5-0.5

Lab ID: 1701523-41

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.97**	0.25	0.033	5	B7D0617	04/21/2017	04/21/17 18:05	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.8**	1.0	0.13	20	B7D0631	04/22/2017	04/24/17 12:35	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB12-1-S10-1.5

Lab ID: 1701523-45

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.32**	0.25	0.033	5	B7D0617	04/21/2017	04/21/17 18:07	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	0.13	20	B7D0631	04/22/2017	04/24/17 12:37	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB12-1-S5-1.5

Lab ID: 1701523-48

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.39**	0.25	0.033	5	B7D0617	04/21/2017	04/21/17 18:11	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.4**	1.0	0.13	20	B7D0631	04/22/2017	04/24/17 12:38	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-1-S10-0.5

Lab ID: 1701523-53

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.043**	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 18:12	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**10**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:40	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB12-1-N10-0.5

Lab ID: 1701523-56

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**0.12**	0.25	0.033	5	B7D0617	04/21/2017	04/21/17 18:14	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	0.13	20	B7D0631	04/22/2017	04/24/17 12:41	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0616 - EPA 3010A_S										
Blank (B7D0616-BLK1)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	ND	0.050	0.0067							
Lead	ND	0.050	0.0028							
Blank (B7D0616-BLK2)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	ND	0.050	0.0067							
Lead	ND	0.050	0.0028							
LCS (B7D0616-BS1)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	1.00688	0.050	0.0067	1.00000		101	80 - 120			
Lead	1.01408	0.050	0.0028	1.00000		101	80 - 120			
Duplicate (B7D0616-DUP1)			**Source: 1701523-13**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	0.045818	0.25	0.033		ND			NR	20	J
Lead	ND	0.25	0.014		ND			NR	20	
Duplicate (B7D0616-DUP2)			**Source: 1701509-26**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	ND	0.25	0.033		ND			NR	20	
Lead	0.021209	0.25	0.014		ND			NR	20	J
Matrix Spike (B7D0616-MS1)			**Source: 1701523-13**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	2.29631	0.25	0.033	2.50000	ND	91.9	74 - 123			
Lead	2.21253	0.25	0.014	2.50000	ND	88.5	78 - 109			
Matrix Spike (B7D0616-MS2)			**Source: 1701509-26**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	2.33957	0.25	0.033	2.50000	ND	93.6	74 - 123			
Lead	2.30072	0.25	0.014	2.50000	ND	92.0	78 - 109			
Matrix Spike Dup (B7D0616-MSD1)			**Source: 1701523-13**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	2.32711	0.25	0.033	2.50000	ND	93.1	74 - 123	1.33	20	
Lead	2.25410	0.25	0.014	2.50000	ND	90.2	78 - 109	1.86	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0617 - EPA 3010A_S										
Blank (B7D0617-BLK1)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	ND	0.050	0.0067							
Lead	ND	0.050	0.0028							
Blank (B7D0617-BLK2)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	ND	0.050	0.0067							
Lead	ND	0.050	0.0028							
LCS (B7D0617-BS1)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	0.910191	0.050	0.0067	1.00000		91.0	80 - 120			
Lead	0.925834	0.050	0.0028	1.00000		92.6	80 - 120			
Duplicate (B7D0617-DUP1)			**Source: 1701542-01**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	ND	0.25	0.033		ND			NR	20	
Lead	0.026931	0.25	0.014		0.025576			5.16	20	J
Duplicate (B7D0617-DUP2)			**Source: 1701523-29**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	0.052348	0.25	0.033		ND			NR	20	J
Lead	ND	0.25	0.014		ND			NR	20	
Matrix Spike (B7D0617-MS1)			**Source: 1701542-01**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	2.35283	0.25	0.033	2.50000	ND	94.1	74 - 123			
Lead	2.31296	0.25	0.014	2.50000	0.025576	91.5	78 - 109			
Matrix Spike (B7D0617-MS2)			**Source: 1701523-29**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	2.30487	0.25	0.033	2.50000	ND	92.2	74 - 123			
Lead	2.25855	0.25	0.014	2.50000	ND	90.3	78 - 109			
Matrix Spike Dup (B7D0617-MSD1)			**Source: 1701542-01**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Arsenic	2.36177	0.25	0.033	2.50000	ND	94.5	74 - 123	0.379	20	
Lead	2.33791	0.25	0.014	2.50000	0.025576	92.5	78 - 109	1.07	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0630 - STLC_S Extraction										
Blank (B7D0630-BLK1)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	ND	1.0	0.13							
Lead	ND	1.0	0.057							
Blank (B7D0630-BLK2)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	ND	1.0	0.13							
Lead	ND	1.0	0.057							
LCS (B7D0630-BS1)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	1.89804			2.00000		94.9	80 - 120			
Lead	1.83421			2.00000		91.7	80 - 120			
Duplicate (B7D0630-DUP1)			**Source: 1701509-31**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	2.00415	1.0	0.13		2.08395			3.90	20	
Lead	1.02776	1.0	0.057		1.03059			0.275	20	
Duplicate (B7D0630-DUP2)			**Source: 1701649-01**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	0.162251	1.0	0.13		ND			NR	20	J
Lead	2.42897	1.0	0.057		2.47254			1.78	20	
Matrix Spike (B7D0630-MS1)			**Source: 1701509-31**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	4.22886			2.50000	2.08395	85.8	90 - 110			M1
Lead	3.12915			2.50000	1.03059	83.9	44 - 130			
Matrix Spike (B7D0630-MS2)			**Source: 1701649-01**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	2.42197			2.50000	0.128690	91.7	90 - 110			
Lead	4.65936			2.50000	2.47254	87.5	44 - 130			
Matrix Spike Dup (B7D0630-MSD1)			**Source: 1701509-31**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	4.06811			2.50000	2.08395	79.4	90 - 110	3.88	20	M1
Lead	3.03420			2.50000	1.03059	80.1	44 - 130	3.08	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0631 - STLC_S Extraction										
Blank (B7D0631-BLK1)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	ND	1.0	0.13							
Lead	ND	1.0	0.057							
Blank (B7D0631-BLK2)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	ND	1.0	0.13							
Lead	ND	1.0	0.057							
LCS (B7D0631-BS1)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	1.94962			2.00000		97.5	80 - 120			
Lead	1.86197			2.00000		93.1	80 - 120			
Duplicate (B7D0631-DUP1)			**Source: 1701523-29**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	0.528295	1.0	0.13		0.454783			15.0	20	J
Lead	3.70726	1.0	0.057		3.61836			2.43	20	
Duplicate (B7D0631-DUP2)			**Source: 1701542-01**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	0.270294	1.0	0.13		0.189854			35.0	20	R, J
Lead	7.85846	1.0	0.057		7.77845			1.02	20	
Matrix Spike (B7D0631-MS1)			**Source: 1701523-29**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	2.76625			2.50000	0.454783	92.5	90 - 110			
Lead	5.56463			2.50000	3.61836	77.9	44 - 130			
Matrix Spike (B7D0631-MS2)			**Source: 1701542-01**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	2.25652			2.50000	0.189854	82.7	90 - 110			M1
Lead	9.39855			2.50000	7.77845	64.8	44 - 130			
Matrix Spike Dup (B7D0631-MSD1)			**Source: 1701523-29**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Arsenic	2.73057			2.50000	0.454783	91.0	90 - 110	1.30	20	
Lead	5.72461			2.50000	3.61836	84.3	44 - 130	2.83	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Wednesday, April 19, 2017 3:06 PM
To: Rachelle Arada
Cc: customer.relations@atlglobal.com
Subject: RE: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Rachelle,

For the Burroughs samples:
- for all samples that exceed 50 mg/kg arsenic, we request STLC-arsenic and TCLP-arsenic.
-for all samples that exceed 50 mg/kg lead, we request STLC-lead and TCLP-lead.

Thank you,
Julie

-------- Original message --------
From: Rachelle Arada <Rachelle@atlglobal.com>
Date: 4/19/17 12:36 PM (GMT-08:00)
To: Julie Harriman <jharriman@leightongroup.com>
Cc: customer.relations@atlglobal.com
Subject: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Julie,

Please find your results for the above project attached. If I can further assist, please let me know. Thanks.

Rachelle Arada
Project Manager
Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*
This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.

May 15, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1701523
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April 11, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB11-2-N10-0.5	1701523-01	Soil	4/10/17 10:50	4/11/17 15:27
EB11-2-N10-1.5	1701523-02	Soil	4/10/17 10:52	4/11/17 15:27
EB11-2-N10-2.5	1701523-03	Soil	4/10/17 10:57	4/11/17 15:27
EB11-2-N5-0.5	1701523-04	Soil	4/10/17 10:40	4/11/17 15:27
EB11-2-N5-1.5	1701523-05	Soil	4/10/17 10:43	4/11/17 15:27
EB11-2-N5-2.5	1701523-06	Soil	4/10/17 10:46	4/11/17 15:27
EB11-2-E5-0.5	1701523-07	Soil	4/10/17 10:52	4/11/17 15:27
EB11-2-E5-1.5	1701523-08	Soil	4/10/17 10:55	4/11/17 15:27
EB11-2-E5-2.5	1701523-09	Soil	4/10/17 11:00	4/11/17 15:27
EB11-2-E5-2.5-D	1701523-10	Soil	4/10/17 11:00	4/11/17 15:27
EB11-2-S5-0.5	1701523-11	Soil	4/10/17 11:06	4/11/17 15:27
EB11-2-S5-1.5	1701523-12	Soil	4/10/17 11:08	4/11/17 15:27
EB11-2-S5-2.5	1701523-13	Soil	4/10/17 11:10	4/11/17 15:27
EB10-2-W10-0.5	1701523-14	Soil	4/10/17 10:15	4/11/17 15:27
EB10-2-W10-1.5	1701523-15	Soil	4/10/17 10:18	4/11/17 15:27
EB10-2-W10-2.5	1701523-16	Soil	4/10/17 10:21	4/11/17 15:27
EB10-2-W10-2.5-D	1701523-17	Soil	4/10/17 10:21	4/11/17 15:27
EB10-2-W5-0.5	1701523-18	Soil	4/10/17 10:11	4/11/17 15:27
EB10-2-W5-1.5	1701523-19	Soil	4/10/17 10:15	4/11/17 15:27
EB10-2-W5-2.5	1701523-20	Soil	4/10/17 10:19	4/11/17 15:27
EB10-2-S5-0.5	1701523-21	Soil	4/10/17 10:30	4/11/17 15:27
EB10-2-S5-1.5	1701523-22	Soil	4/10/17 10:32	4/11/17 15:27
EB10-2-S5-2.5	1701523-23	Soil	4/10/17 10:35	4/11/17 15:27
EB10-2-S10-0.5	1701523-24	Soil	4/10/17 10:33	4/11/17 15:27
EB10-2-S10-1.5	1701523-25	Soil	4/10/17 10:35	4/11/17 15:27
EB10-2-S10-2.5	1701523-26	Soil	4/10/17 10:40	4/11/17 15:27
EB11-1-S5-0.5	1701523-27	Soil	4/10/17 11:05	4/11/17 15:27
EB11-1-S5-1.5	1701523-28	Soil	4/10/17 11:07	4/11/17 15:27
EB11-1-S5-2.5	1701523-29	Soil	4/10/17 11:10	4/11/17 15:27
EB11-1-W5-0.5	1701523-30	Soil	4/10/17 10:58	4/11/17 15:27
EB11-1-W5-1.5	1701523-31	Soil	4/10/17 11:00	4/11/17 15:27
EB11-1-W5-2.5	1701523-32	Soil	4/10/17 11:04	4/11/17 15:27
EB11-1-W10-0.5	1701523-33	Soil	4/10/17 11:10	4/11/17 15:27
EB11-1-W10-0.5-D	1701523-34	Soil	4/10/17 11:10	4/11/17 15:27
EB11-1-W10-1.5	1701523-35	Soil	4/10/17 11:15	4/11/17 15:27
EB11-1-W10-2.5	1701523-36	Soil	4/10/17 11:17	4/11/17 15:27
EB11-2-S10-0.5	1701523-37	Soil	4/10/17 11:19	4/11/17 15:27

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

EB11-2-S10-1.5	1701523-38	Soil	4/10/17 11:20	4/11/17 15:27
EB11-2-S10-2.5	1701523-39	Soil	4/10/17 11:25	4/11/17 15:27
EB11-2-S10-2.5-D	1701523-40	Soil	4/10/17 11:25	4/11/17 15:27
EB15-1-S5-0.5	1701523-41	Soil	4/10/17 13:56	4/11/17 15:27
EB15-1-S5-1.5	1701523-42	Soil	4/10/17 13:58	4/11/17 15:27
EB15-1-S5-2.5	1701523-43	Soil	4/10/17 14:00	4/11/17 15:27
EB12-1-S10-0.5	1701523-44	Soil	4/10/17 13:45	4/11/17 15:27
EB12-1-S10-1.5	1701523-45	Soil	4/10/17 13:50	4/11/17 15:27
EB12-1-S10-2.5	1701523-46	Soil	4/10/17 13:52	4/11/17 15:27
EB12-1-S5-0.5	1701523-47	Soil	4/10/17 13:39	4/11/17 15:27
EB12-1-S5-1.5	1701523-48	Soil	4/10/17 13:41	4/11/17 15:27
EB12-1-S5-2.5	1701523-49	Soil	4/10/17 13:43	4/11/17 15:27
EB12-1-N5-0.5	1701523-50	Soil	4/10/17 13:20	4/11/17 15:27
EB12-1-N5-1.5	1701523-51	Soil	4/10/17 13:22	4/11/17 15:27
EB12-1-N5-2.5	1701523-52	Soil	4/10/17 13:25	4/11/17 15:27
EB11-1-S10-0.5	1701523-53	Soil	4/10/17 11:15	4/11/17 15:27
EB11-1-S10-1.5	1701523-54	Soil	4/10/17 11:19	4/11/17 15:27
EB11-1-S10-2.5	1701523-55	Soil	4/10/17 11:22	4/11/17 15:27
EB12-1-N10-0.5	1701523-56	Soil	4/10/17 13:30	4/11/17 15:27
EB-2017-04-11	1701523-57	Water	4/11/17 14:50	4/11/17 15:27

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-N10-0.5

Lab ID: 1701523-01

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**36**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:20	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-N10-1.5

Lab ID: 1701523-02

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**75**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:24	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-N10-2.5

Lab ID: 1701523-03

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**27**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:25	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-N5-0.5

Lab ID: 1701523-04

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**44**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:27	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-N5-1.5

Lab ID: 1701523-05

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**47**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:28	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-N5-2.5

Lab ID: 1701523-06

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.7**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:31	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-E5-0.5

Lab ID: 1701523-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**110**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:32	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-E5-1.5

Lab ID: 1701523-08

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**44**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:34	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-E5-2.5

Lab ID: 1701523-09

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**42**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:35	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-E5-2.5-D

Lab ID: 1701523-10

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**25**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:36	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-S5-0.5

Lab ID: 1701523-11

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**56**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:37	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-S5-1.5

Lab ID: 1701523-12

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**82**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:38	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-S5-2.5

Lab ID: 1701523-13

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**83**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:39	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB10-2-W10-0.5

Lab ID: 1701523-14

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**24**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:40	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB10-2-W10-1.5

Lab ID: 1701523-15

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**92**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:41	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB10-2-W10-2.5

Lab ID: 1701523-16

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.3**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:45	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB10-2-W10-2.5-D

Lab ID: 1701523-17

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.2**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:46	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB10-2-W5-0.5

Lab ID: 1701523-18

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**85**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:47	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB10-2-W5-1.5

Lab ID: 1701523-19

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**110**	1.0	0.11	1	B7D0415	04/14/2017	04/17/17 11:48	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB10-2-W5-2.5

Lab ID: 1701523-20

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.5**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 11:52	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB10-2-S5-0.5

Lab ID: 1701523-21

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**38**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 11:58	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB10-2-S5-1.5

Lab ID: 1701523-22

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**100**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 11:59	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB10-2-S5-2.5

Lab ID: 1701523-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.0**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:00	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB10-2-S10-0.5

Lab ID: 1701523-24

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**55**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:01	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB10-2-S10-1.5

Lab ID: 1701523-25

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**110**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:03	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB10-2-S10-2.5

Lab ID: 1701523-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**61**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:04	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-1-S5-0.5

Lab ID: 1701523-27

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**70**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:05	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-1-S5-1.5

Lab ID: 1701523-28

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**100**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:06	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-1-S5-2.5

Lab ID: 1701523-29

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**66**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:07	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-1-W5-0.5

Lab ID: 1701523-30

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**50**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:08	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-1-W5-1.5

Lab ID: 1701523-31

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**110**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:09	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-1-W5-2.5

Lab ID: 1701523-32

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.3**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:15	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-1-W10-0.5

Lab ID: 1701523-33

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**54**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:16	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-1-W10-0.5-D

Lab ID: 1701523-34

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**26**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:17	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-1-W10-1.5

Lab ID: 1701523-35

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**18**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:18	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-1-W10-2.5

Lab ID: 1701523-36

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.4**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:19	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-S10-0.5

Lab ID: 1701523-37

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**110**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-S10-1.5

Lab ID: 1701523-38

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**72**	1.0	0.11	1	B7D0416	04/14/2017	04/17/17 12:21	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-2-S10-2.5

Lab ID: 1701523-39

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.7**	1.0	0.11	1	B7D0417	04/14/2017	04/17/17 12:27	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-2-S10-2.5-D

Lab ID: 1701523-40

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.4**	1.0	0.11	1	B7D0417	04/14/2017	04/17/17 12:32	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB15-1-S5-0.5

Lab ID: 1701523-41

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**82**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:33	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB15-1-S5-1.5

Lab ID: 1701523-42

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**32**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:34	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB15-1-S5-2.5

Lab ID: 1701523-43

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**32**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:35	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB12-1-S10-0.5

Lab ID: 1701523-44

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**45**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:36	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB12-1-S10-1.5

Lab ID: 1701523-45

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**53**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:37	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB12-1-S10-2.5

Lab ID: 1701523-46

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:42	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB12-1-S5-0.5

Lab ID: 1701523-47

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**30**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:43	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB12-1-S5-1.5

Lab ID: 1701523-48

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**77**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:44	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB12-1-S5-2.5

Lab ID: 1701523-49

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**11**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:45	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB12-1-N5-0.5

Lab ID: 1701523-50

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**48**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:46	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB12-1-N5-1.5

Lab ID: 1701523-51

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**25**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:48	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB12-1-N5-2.5

Lab ID: 1701523-52

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.2**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:49	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-1-S10-0.5

Lab ID: 1701523-53

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**110**	1.0	0.11	1	B7D0417	04/14/2017	04/17/17 12:50	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/15/2017

Client Sample ID EB11-1-S10-1.5

Lab ID: 1701523-54

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**37**	1.0	0.11	1	B7D0417	04/14/2017	04/17/17 12:51	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB11-1-S10-2.5

Lab ID: 1701523-55

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.5**	1.0	0.11	1	B7D0417	04/14/2017	04/17/17 12:55	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB12-1-N10-0.5

Lab ID: 1701523-56

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**51**	1.0	0.70	1	B7D0417	04/14/2017	04/17/17 12:56	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Client Sample ID EB-2017-04-11

Lab ID: 1701523-57

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	0.010	0.0067	1	B7D0418	04/14/2017	04/14/17 15:07	
Copper	ND	0.0090	0.0023	1	B7D0418	04/14/2017	04/14/17 15:07	
Lead	ND	0.0050	0.0028	1	B7D0418	04/14/2017	04/14/17 15:07	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0415 - EPA 3050B_S										
Blank (B7D0415-BLK1)					Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0415-BS1)					Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	44.0293	1.0	0.70	50.0000		88.1	80 - 120			
Lead	44.9864	1.0	0.11	50.0000		90.0	80 - 120			
Duplicate (B7D0415-DUP1)			**Source: 1701523-01**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	59.1344	1.0	0.70		37.3589			45.1	20	
Lead	55.0500	1.0	0.11		35.6522			42.8	20	R
Matrix Spike (B7D0415-MS1)			**Source: 1701523-01**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	170.387	1.0	0.70	125.000	37.3589	106	59 - 103			
Lead	132.290	1.0	0.11	125.000	35.6522	77.3	34 - 129			
Matrix Spike Dup (B7D0415-MSD1)			**Source: 1701523-01**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	148.342	1.0	0.70	125.000	37.3589	88.8	59 - 103	13.8	20	
Lead	125.781	1.0	0.11	125.000	35.6522	72.1	34 - 129	5.04	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0416 - EPA 3050B_S										
Blank (B7D0416-BLK1)					Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0416-BS1)					Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	42.7891	1.0	0.70	50.0000		85.6	80 - 120			
Lead	44.1274	1.0	0.11	50.0000		88.3	80 - 120			
Duplicate (B7D0416-DUP1)			**Source: 1701523-20**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	1.38484	1.0	0.70		0.983391			33.9	20	
Lead	5.18154	1.0	0.11		6.50792			22.7	20	R
Matrix Spike (B7D0416-MS1)			**Source: 1701523-20**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	85.6039	1.0	0.70	125.000	0.983391	67.7	59 - 103			
Lead	90.4412	1.0	0.11	125.000	6.50792	67.1	34 - 129			
Matrix Spike Dup (B7D0416-MSD1)			**Source: 1701523-20**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	87.6174	1.0	0.70	125.000	0.983391	69.3	59 - 103	2.32	20	
Lead	92.7335	1.0	0.11	125.000	6.50792	69.0	34 - 129	2.50	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0417 - EPA 3050B_S										
Blank (B7D0417-BLK1)					Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0417-BS1)					Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	44.5612	1.0	0.70	50.0000		89.1	80 - 120			
Lead	45.0892	1.0	0.11	50.0000		90.2	80 - 120			
Duplicate (B7D0417-DUP1)			**Source: 1701523-39**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	1.68792	1.0	0.70		1.57658			6.82	20	
Lead	5.22279	1.0	0.11		4.71426			10.2	20	
Matrix Spike (B7D0417-MS1)			**Source: 1701523-39**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	85.3304	1.0	0.70	125.000	1.57658	67.0	59 - 103			
Lead	91.0567	1.0	0.11	125.000	4.71426	69.1	34 - 129			
Matrix Spike Dup (B7D0417-MSD1)			**Source: 1701523-39**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Arsenic	83.3541	1.0	0.70	125.000	1.57658	65.4	59 - 103	2.34	20	
Lead	88.2014	1.0	0.11	125.000	4.71426	66.8	34 - 129	3.19	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0418 - EPA 3010A_W										
Blank (B7D0418-BLK1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	ND	0.010	0.0067							
Copper	ND	0.0090	0.0023							
Lead	ND	0.0050	0.0028							
LCS (B7D0418-BS1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	0.961476	0.010	0.0067	1.00000		96.1	80 - 120			
Copper	1.02935	0.0090	0.0023	1.00000		103	80 - 120			
Lead	0.968250	0.0050	0.0028	1.00000		96.8	80 - 120			
Duplicate (B7D0418-DUP1)			**Source: 1701542-52**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	ND	0.010	0.0067		ND			NR	20	
Copper	ND	0.0090	0.0023		ND			NR	20	
Lead	ND	0.0050	0.0028		ND			NR	20	
Matrix Spike (B7D0418-MS1)			**Source: 1701542-52**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	2.23020	0.010	0.0067	2.50000	ND	89.2	74 - 123			
Copper	2.49113	0.0090	0.0023	2.50000	ND	99.6	70 - 132			
Lead	2.28637	0.0050	0.0028	2.50000	ND	91.5	78 - 109			
Matrix Spike Dup (B7D0418-MSD1)			**Source: 1701542-52**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	2.25391	0.010	0.0067	2.50000	ND	90.2	74 - 123	1.06	20	
Copper	2.48042	0.0090	0.0023	2.50000	ND	99.2	70 - 132	0.431	20	
Lead	2.32601	0.0050	0.0028	2.50000	ND	93.0	78 - 109	1.72	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/15/2017

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	5.9	
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc. (LCI)
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel: 949-250-1421 Fax: 949-250-1114

SEND REPORT TO:
Attn: Julie Hamman Email: jhamman@leightongroup.com
Company: LCI
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: acctpayable@leightongroup.com
Company: Leighton
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS - LAUSD
Project No.: 603378-006
Sampler: W. Sconiers
Quote No: —
PO #: —
Special Instructions/Comments: —

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	LeadBlead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	QA/QC / REMARKS
1	1701523 - 1	EB11-2-N10-0.5	1-10-17	1050									X	X					5	1	S	1	—	
2	- 2	EB11-2-N10-1.5		1052									X											
3	- 3	EB11-2-N10-2.5		1057									X											
4	- 4	EB11-2-N5-0.5		1040									X											
5	- 5	EB11-2-N5-1.5		1043									X											
6	- 6	EB11-2-N5-2.5		1046									X											
7	- 7	EB11-2-E5-0.5		1052									X											
8	- 8	EB11-2-E5-1.5		1055									X											
9	- 9	EB11-2-E5-2.5		1100									X											
10	- 10	EB11-2-E5-2.5-D		1100									X											

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container: # / Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister / Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sconiers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Sconiers	4-11-17	1529	Erick Franco	4/11/17	15:27
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/11/17	16:56		4/11/17	1656
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☒ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address: See Page #1
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address: See Page #1
City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	LUFT 5 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1701523 -01	EB11-2-SS-0.5	4-10-17	1106									X	X					5	1	5	1	i	
2	-02	EB11-2-SS-1.5		1108									X										
3	-03	EB11-2-SS-2.5		1110									X										
4	-04	EB10-2-W10-0.5		1015									X										
5	-05	EB10-2-W10-1.5		1018									X										
6	-06	EB10-2-W10-2.5		1021									X										
7	-07	EB10-2-W10-2.5-D		1021									X										
8	-08	EB10-2-WS-0.5		1011									X										
9	-09	EB10-2-WS-1.5		1015									X										
10	-20	EB10-2-WS-2.5		1019									X										

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sommers — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Sommers	4-11-17	1527	Erick Franco	4/11/17	15:27
Erick Franco	4/11/17	16:56	MPR	4/11/17	1656

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:

Address:

Tel:

City: State: Zip: Fax:

SEND REPORT TO:

Attn: Email:

Company:

Address: See Page #1

City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO

Attn: Email:

Company: See Page #1

Address:

City: State: Zip:

PROJECT SAMPLES

Project Name:

Project No.:

Sampler:

Quote No:

PO #:

Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1701523-21	EB10-2-SS-0.5	4-10-17	1030									X	X					5	1	5	1	-	
2	-22	EB10-2-SS-1.5		1032																				
3	-23	EB10-2-SS-2.5		1035																				
4	-24	EB10-2-S10-0.5		1033																				
5	-25	EB10-2-S10-1.5		1035																				
6	-26	EB10-2-S10-2.5		1040																				
7	-27	EB11-1-SS-0.5		1105																				
8	-28	EB11-1-SS-1.5		1107																				
9	-29	EB11-1-SS-2.5		1110																				
10	-30	EB11-1-WS-0.5		1058																				

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister

Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seamers	4-11-17	1527	Erick Franca	4/11/17	15:27
Erick Franca	4/11/17	16:56	MPP	4/11/17	16:56

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State: Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address: See Page #1
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; LUFT 5 Lead

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

Container: TAT; # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	8260	8015(GRO)	8015(DRO)	8270	8081	8082	6010	TO-15	LUFT 5 Lead	SOIL	SOLIDS	WATER-DRINKING	WATER-STORM	AQUEOUS	TAT	#	Type	Material	Preservative	REMARKS
1	1701523-31	EB11-1-W5-1.5	4-10-17	1100									X	X					5	1	5	1	-	
2	-32	EB11-1-W5-2.5		1104									X											
3	WBS 4-11-17 -33	EB11-~~W~~-1-W10-0.5		1110									X											
4	-34	EB11-1-W10-0.5-D		1110									X											
5	-35	EB11-1-W10-1.5		1115									X											
6	-36	EB11-1-W10-2.5		1117									X											
7	-37	EB11-2-S10-0.5		1119									X											
8	-38	EB11-2-S10-1.5		1120									X											
9	-39	EB11-2-S10-2.5		1125									X											
10	-40	EB11-2-S10-2.5-D		1125									X											

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamiers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seamiers	4-11-17	1527	Erick Franca	4/11/17	15:27
Erick Franca	4/11/17	16:56	MTR	4/11/17	1656
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver: 20130715			
Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL		1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac		2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:		4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page #1	Company: See Page #1
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead 6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2SO3	REMARKS
1	1701523 -41	EB15-1-S5-0.5	4-10-17	1356									X	X					5	1	5	1	—	
2	-42	EB15-1-S5-1.5		1358									X											
3	-43	EB15-1-S5-2.5		1400									X											
4	-44	EB12-1-S10-0.5		1345									X											
5	-45	EB12-1-S10-1.5		1350									X											
6	-46	EB12-1-S10-2.5		1352									X											
7	-47	EB12-1-S5-0.5		1339									X											
8	-48	EB12-1-S5-1.5		1341									X											
9	-49	EB12-1-S5-2.5		1343									X											
10	-50	EB12-1-N5-0.5		1320									X											

SUBMITTAL

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sconiers — Submitter Print Name

Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Sconiers	4-11-17	1527	Erick Franco	4/11/17	15:27
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/11/17	16:56		4/11/17	16:56
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State:	Zip: Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page #1	Company: See Page #1
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:
Project No.:
Sampler:
Quote No:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; GOOB Arsenic; GOOB Lead

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE/ FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

Container: TAT; # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic	Lead	SOIL / SEDIMENT / SLUDGE	WATER - DRINKING / GROUND	TAT	#	Type	Material	Preservative	REMARKS
1	1701523 -51	EB12-1-N5-1.5	4-10-17	1322	X		X		5	1	S	1	-	
2	-52	EB12-1-N5-2.5		1325	X									
3	-53	EB11-1-S10-0.5		1115		X								
4	-54	EB11-1-S10-1.5		1119		X								
5	-55	EB11-1-S10-2.5		1122		X								
6	-56	EB12-1-N10-0.5		1330	X									
7	-57	EB-2017-04-11	4-11-17	1450	X	X		X	5	1	4	2	2	
8														
9														
10														

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seamers	4-11-17	1527	Erick Franca	4/11/17	15:27
Erick Franca	4/11/17	16:56	MPR	4/11/17	16:56
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

Rachelle Arada

From: Wallace Sconiers [wsconiers@leightongroup.com]
Sent: Wednesday, April 12, 2017 8:55 AM
To: Rachelle Arada
Cc: Julie Harriman
Subject: Additional analysis for water sample submitted 4-11-2017

Rachelle,

In addition to 6010B lead and arsenic analyses for sample EB-2017-04-11, please add method 6010B for copper to that sample.

Thank you, and please call me 661-302-3169 if you have any questions.

- Wallace.

Sent from my Verizon, Samsung Galaxy smartphone

April 19, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1701542
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April 12, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB13-1-W10-0.5	1701542-01	Soil	4/11/17 9:10	4/12/17 14:22
EB13-1-W10-0.5-D	1701542-02	Soil	4/11/17 9:10	4/12/17 14:22
EB13-1-W10-1.5	1701542-03	Soil	4/11/17 9:13	4/12/17 14:22
EB13-1-W10-2.5	1701542-04	Soil	4/11/17 9:16	4/12/17 14:22
EB13-2-W10-0.5	1701542-05	Soil	4/11/17 8:55	4/12/17 14:22
EB13-2-W10-1.5	1701542-06	Soil	4/11/17 8:57	4/12/17 14:22
EB13-2-W10-2.5	1701542-07	Soil	4/11/17 9:00	4/12/17 14:22
EB13-2-W10-2.5-D	1701542-08	Soil	4/11/17 9:00	4/12/17 14:22
EB13-2-S5-0.5	1701542-09	Soil	4/11/17 9:02	4/12/17 14:22
EB13-2-S5-1.5	1701542-10	Soil	4/11/17 9:05	4/12/17 14:22
EB13-2-S5-1.5-D	1701542-11	Soil	4/11/17 9:05	4/12/17 14:22
EB13-2-S5-2.5	1701542-12	Soil	4/11/17 9:09	4/12/17 14:22
EB23-2-N5-0.5	1701542-13	Soil	4/11/17 13:50	4/12/17 14:22
EB23-2-N5-1.5	1701542-14	Soil	4/11/17 13:52	4/12/17 14:22
EB23-2-N5-2.5	1701542-15	Soil	4/11/17 13:55	4/12/17 14:22
EB23-2-N8-0.5	1701542-16	Soil	4/11/17 14:00	4/12/17 14:22
EB23-2-N8-1.5	1701542-17	Soil	4/11/17 14:02	4/12/17 14:22
EB23-2-N8-2.5	1701542-18	Soil	4/11/17 14:05	4/12/17 14:22
EB23-2-W10-0.5	1701542-19	Soil	4/11/17 14:20	4/12/17 14:22
EB23-2-W10-1.5	1701542-20	Soil	4/11/17 14:22	4/12/17 14:22
EB23-2-W10-2.5	1701542-21	Soil	4/11/17 14:24	4/12/17 14:22
EB23-2-ES-0.5	1701542-22	Soil	4/11/17 14:10	4/12/17 14:22
EB23-2-ES-1.5	1701542-23	Soil	4/11/17 14:11	4/12/17 14:22
EB23-2-ES-2.5	1701542-24	Soil	4/11/17 14:15	4/12/17 14:22
EB23-2-W5-0.5	1701542-25	Soil	4/11/17 14:07	4/12/17 14:22
EB23-2-W5-1.5	1701542-26	Soil	4/11/17 14:09	4/12/17 14:22
EB23-2-W5-2.5	1701542-27	Soil	4/11/17 14:12	4/12/17 14:22
EB23-2-S5-0.5	1701542-28	Soil	4/11/17 13:40	4/12/17 14:22
EB23-2-S5-1.5	1701542-29	Soil	4/11/17 13:42	4/12/17 14:22
EB23-2-S5-2.5	1701542-30	Soil	4/11/17 13:47	4/12/17 14:22
EB23-2-S10-0.5	1701542-31	Soil	4/11/17 14:27	4/12/17 14:22
EB23-2-S10-1.5	1701542-32	Soil	4/11/17 14:29	4/12/17 14:22
EB23-2-S10-2.5	1701542-33	Soil	4/11/17 14:33	4/12/17 14:22
EB13-2-N10-0.5	1701542-34	Soil	4/11/17 8:00	4/12/17 14:22
EB13-2-N10-1.5	1701542-35	Soil	4/11/17 8:02	4/12/17 14:22
EB13-2-N10-2.5	1701542-36	Soil	4/11/17 8:06	4/12/17 14:22
EB13-2-N5-0.5	1701542-37	Soil	4/11/17 8:10	4/12/17 14:22

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

EB13-2-N5-1.5	1701542-38	Soil	4/11/17 8:12	4/12/17 14:22
EB13-2-N5-2.5	1701542-39	Soil	4/11/17 8:15	4/12/17 14:22
EB13-2-W5-0.5	1701542-40	Soil	4/11/17 8:22	4/12/17 14:22
EB13-2-W5-1.5	1701542-41	Soil	4/11/17 8:25	4/12/17 14:22
EB13-2-W5-2.5	1701542-42	Soil	4/11/17 8:27	4/12/17 14:22
EB13-2-S10-0.5	1701542-43	Soil	4/11/17 9:16	4/12/17 14:22
EB13-2-S10-1.5	1701542-44	Soil	4/11/17 9:18	4/12/17 14:22
EB13-2-S10-2.5	1701542-45	Soil	4/11/17 9:20	4/12/17 14:22
EB13-1-E5-0.5	1701542-46	Soil	4/11/17 9:45	4/12/17 14:22
EB13-1-E5-1.5	1701542-47	Soil	4/11/17 9:47	4/12/17 14:22
EB13-1-E5-2.5	1701542-48	Soil	4/11/17 9:50	4/12/17 14:22
EB13-1-W5-0.5	1701542-49	Soil	4/11/17 9:30	4/12/17 14:22
EB13-1-W5-1.5	1701542-50	Soil	4/11/17 9:32	4/12/17 14:22
EB13-1-W5-2.5	1701542-51	Soil	4/11/17 9:34	4/12/17 14:22
EB-2017-04-12	1701542-52	Water	4/12/17 14:15	4/12/17 14:22

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-1-W10-0.5

Lab ID: 1701542-01

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**61**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 13:44	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-1-W10-0.5-D

Lab ID: 1701542-02

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**120**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 13:56	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-1-W10-1.5

Lab ID: 1701542-03

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.5**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 13:59	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-1-W10-2.5

Lab ID: 1701542-04

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.1**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:02	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-2-W10-0.5

Lab ID: 1701542-05

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**140**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:05	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-2-W10-1.5

Lab ID: 1701542-06

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**140**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:15	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-2-W10-2.5

Lab ID: 1701542-07

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.8**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:18	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-2-W10-2.5-D

Lab ID: 1701542-08

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.8**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:21	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-2-S5-0.5

Lab ID: 1701542-09

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**110**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:24	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-2-S5-1.5

Lab ID: 1701542-10

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.4**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:27	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-2-S5-1.5-D

Lab ID: 1701542-11

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**12**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:30	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-2-S5-2.5

Lab ID: 1701542-12

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.4**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:33	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB23-2-N5-0.5

Lab ID: 1701542-13

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.7**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:36	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-N5-1.5

Lab ID: 1701542-14

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.0**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:39	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-N5-2.5

Lab ID: 1701542-15

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.5**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:42	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB23-2-N8-0.5

Lab ID: 1701542-16

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.4**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:52	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-N8-1.5

Lab ID: 1701542-17

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.5**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:55	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-N8-2.5

Lab ID: 1701542-18

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.8**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 14:57	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-W10-0.5

Lab ID: 1701542-19

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.5**	1.0	0.11	1	B7D0468	04/18/2017	04/18/17 15:00	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-W10-1.5

Lab ID: 1701542-20

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**12**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:10	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-W10-2.5

Lab ID: 1701542-21

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.3**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:29	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-ES-0.5

Lab ID: 1701542-22

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.8**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:32	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-ES-1.5

Lab ID: 1701542-23

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.5**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:35	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB23-2-ES-2.5

Lab ID: 1701542-24

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.2**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:38	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB23-2-W5-0.5

Lab ID: 1701542-25

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**27**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:41	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-W5-1.5

Lab ID: 1701542-26

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.1**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:44	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-W5-2.5

Lab ID: 1701542-27

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.8**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:47	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-S5-0.5

Lab ID: 1701542-28

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.5**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:49	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB23-2-S5-1.5

Lab ID: 1701542-29

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.2**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:53	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-S5-2.5

Lab ID: 1701542-30

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.1**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 15:55	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB23-2-S10-0.5

Lab ID: 1701542-31

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**12**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 16:05	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB23-2-S10-1.5

Lab ID: 1701542-32

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.8**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 16:08	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB23-2-S10-2.5

Lab ID: 1701542-33

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.7**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 16:11	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-2-N10-0.5

Lab ID: 1701542-34

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**82**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 16:14	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-2-N10-1.5

Lab ID: 1701542-35

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**22**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 16:17	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-2-N10-2.5

Lab ID: 1701542-36

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.1**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 16:20	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-2-N5-0.5

Lab ID: 1701542-37

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**210**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 16:23	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-2-N5-1.5

Lab ID: 1701542-38

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**12**	1.0	0.11	1	B7D0469	04/18/2017	04/18/17 16:26	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-2-N5-2.5

Lab ID: 1701542-39

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.8**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 16:42	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-2-W5-0.5

Lab ID: 1701542-40

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**350**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 16:54	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-2-W5-1.5

Lab ID: 1701542-41

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**190**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 16:57	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-2-W5-2.5

Lab ID: 1701542-42

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.2**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 17:00	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-2-S10-0.5

Lab ID: 1701542-43

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**84**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 17:03	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-2-S10-1.5

Lab ID: 1701542-44

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.9**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 17:06	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-2-S10-2.5

Lab ID: 1701542-45

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.6**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 17:09	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-1-E5-0.5

Lab ID: 1701542-46

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**150**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 17:19	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-1-E5-1.5

Lab ID: 1701542-47

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**11**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 17:22	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-1-E5-2.5

Lab ID: 1701542-48

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**14**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 17:25	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-1-W5-0.5

Lab ID: 1701542-49

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**220**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 17:27	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Client Sample ID EB13-1-W5-1.5

Lab ID: 1701542-50

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.1**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 17:30	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB13-1-W5-2.5

Lab ID: 1701542-51

Total Metals by ICP-AES EPA 6010B **Analyst: KEK**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.5**	1.0	0.11	1	B7D0470	04/18/2017	04/18/17 17:33	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/19/2017

Client Sample ID EB-2017-04-12

Lab ID: 1701542-52

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	0.010	0.0067	1	B7D0418	04/14/2017	04/14/17 15:15	
Lead	ND	0.0050	0.0028	1	B7D0418	04/14/2017	04/14/17 15:15	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0418 - EPA 3010A_W										
Blank (B7D0418-BLK1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	ND	0.010	0.0067							
Lead	ND	0.0050	0.0028							
LCS (B7D0418-BS1)					Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	0.961476	0.010	0.0067	1.00000		96.1	80 - 120			
Lead	0.968250	0.0050	0.0028	1.00000		96.8	80 - 120			
Duplicate (B7D0418-DUP1)			**Source: 1701542-52**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	ND	0.010	0.0067		ND			NR	20	
Lead	ND	0.0050	0.0028		ND			NR	20	
Matrix Spike (B7D0418-MS1)			**Source: 1701542-52**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	2.23020	0.010	0.0067	2.50000	ND	89.2	74 - 123			
Lead	2.28637	0.0050	0.0028	2.50000	ND	91.5	78 - 109			
Matrix Spike Dup (B7D0418-MSD1)			**Source: 1701542-52**		Prepared: 4/14/2017 Analyzed: 4/14/2017					
Arsenic	2.25391	0.010	0.0067	2.50000	ND	90.2	74 - 123	1.06	20	
Lead	2.32601	0.0050	0.0028	2.50000	ND	93.0	78 - 109	1.72	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0468 - EPA 3050B_S										
Blank (B7D0468-BLK1)					Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	ND	1.0	0.11							
LCS (B7D0468-BS1)					Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	46.0094	1.0	0.11	50.0000		92.0	80 - 120			
Duplicate (B7D0468-DUP1)			**Source: 1701542-01**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	134.849	1.0	0.11		61.3832			74.9	20	R
Matrix Spike (B7D0468-MS1)			**Source: 1701542-01**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	180.195	1.0	0.11	125.000	61.3832	95.0	34 - 129			
Matrix Spike Dup (B7D0468-MSD1)			**Source: 1701542-01**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	223.645	1.0	0.11	125.000	61.3832	130	34 - 129	21.5	20	M1, R

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0469 - EPA 3050B_S										
Blank (B7D0469-BLK1)					Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	ND	1.0	0.11							
LCS (B7D0469-BS1)					Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	46.0117	1.0	0.11	50.0000		92.0	80 - 120			
Duplicate (B7D0469-DUP1)			**Source: 1701542-20**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	8.25829	1.0	0.11		12.1654			38.3	20	R
Matrix Spike (B7D0469-MS1)			**Source: 1701542-20**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	94.0354	1.0	0.11	125.000	12.1654	65.5	34 - 129			
Matrix Spike Dup (B7D0469-MSD1)			**Source: 1701542-20**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	96.1724	1.0	0.11	125.000	12.1654	67.2	34 - 129	2.25	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0470 - EPA 3050B_S										
Blank (B7D0470-BLK1)					Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	ND	1.0	0.11							
LCS (B7D0470-BS1)					Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	44.4131	1.0	0.11	50.0000		88.8	80 - 120			
Duplicate (B7D0470-DUP1)			**Source: 1701542-39**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	6.77962	1.0	0.11		9.81284			36.6	20	R
Matrix Spike (B7D0470-MS1)			**Source: 1701542-39**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	93.4870	1.0	0.11	125.000	9.81284	66.9	34 - 129			
Matrix Spike Dup (B7D0470-MSD1)			**Source: 1701542-39**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Lead	86.6403	1.0	0.11	125.000	9.81284	61.5	34 - 129	7.60	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/19/2017

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 10

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☑	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	5.C	
☐ Other: _____	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc. (LCI)		Address: 17781 Cowan		Tel: 949-250-1421	
		City: Irvine	State: CA	Zip: 92614	Fax: 949-250-1114

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Julie Harriman	Attn: Accounts Payable
Email: jharriman@leightongroup.com	Email: acctpayable@leightongroup.com
Company: LCI	Company: Leighton
Address: 17781 Cowan	Address: 17781 Cowan
City: Irvine State: CA Zip: 92614	City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS-LAUSD
Project No.: 603378-006
Sampler: W. Seamers
Quote No: –
PO #: –
Special Instructions/Comments: –

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	#	Type	Material	Preservative	REMARKS
1	1705742 -1	EB13-1-W10-0.5	4-11-17	0910								X	X		X					5	1	5	1	–	
2	-2	EB13-1-W10-0.5-D		0910								X	X												
3	-3	EB13-1-W10-1.5		0913								X	X												
4	-4	EB13-1-W10-2.5		0916								X	X												
5	-5	EB13-2-W10-0.5		0855								X	X												
6	-6	EB13-2-W10-1.5		0857								X	X												
7	-7	EB13-2-W10-2.5		0900								X	X												
8	-8	EB13-2-W10-2.5-D		0900								X	X												
9	-9	EB13-2-SS-0.5		0902								X	X												
10	-10	EB13-2-SS-1.5		0905								X	X												

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2SO3

Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister

Material: 1=Glass; 2=Plastic; 3=Metal

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name) Wallace Seamers	Date: 4-12-17	Time: 1422	Received by: (Signature and Printed Name)	Date: 4/12/17	Time: 1422
Relinquished by: (Signature and Printed Name)	Date: 4/12/17	Time: 1815	Received by: (Signature and Printed Name)	Date: 4/12/17	Time: 1815
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☐ Client	☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx	☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:		4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address: See Page #1
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address: See Page #1
City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead / 6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1701542-11	EB13-2-SS-1.5-D	4-11-17	0905								X	X	X					5	1	5	1	-	
2	-12	EB13-2-SS-2.5		0909								X	X											
3	-13	EB23-2-N5-0.5		1350								X	X											
4	-14	EB23-2-N5-1.5		1352								X	X											
5	-15	EB23-2-N5-2.5		1355								X	X											
6	-16	EB23-2-N8-0.5		1400								X	X											
7	-17	EB23-2-N8-1.5		1402								X	X											
8	-18	EB23-2-N8-2.5		1405								X	X											
9	-19	EB23-2-W10-0.5		1420								X	X											
10	-20	EB23-2-W10-1.5		1422								X	X											

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seomes — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name) Wallace Seomes	Date: 4-12-17	Time: 1422	Received by: (Signature and Printed Name)	Date: 4/12/17	Time: 1422
Relinquished by: (Signature and Printed Name)	Date: 4/12/17	Time: 1815	Received by: (Signature and Printed Name)	Date: 4/12/17	Time: 1815
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address: See Page #1
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address: See Page #1
City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	LUFT Lead	LUFT Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1701542-21	EB23-2-W10-2.5	4-11-17	1424									X		X					5	1	5	1	—	
2	-22	EB23-2-ES-0.5		1410																					
3	-23	EB23-2-ES-1.5		1411																					
4	-24	EB23-2-ES-2.5		1415																					
5	-25	EB23-2-W5-0.5		1407																					
6	-26	EB23-2-W5-1.5		1409																					
7	-27	EB23-2-W5-2.5		1412																					
8	-28	EB23-2-SS-0.5		1340																					
9	-29	EB23-2-SS-1.5		1342																					
10	-30	EB23-2-SS-2.5		1347																					

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Encircle or Write Requested Analysis — Encircle Sample Matrix — Container

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn((Ac)2; 6=NaOH; 7=NA2S2O3
Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister
Material: 1=Glass; 2=Plastic; 3=Metal

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamons — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seamons	4-12-17	1422		4/12/17	1422
	4/12/17	1815	FEDEX	4/12/17	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address: See Page #1
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address: See Page #1
City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1701542-31	EB23-2-S10-0.5	4-11-17	1427								X	X		X					5	1	5	1	–	
2	-32	EB23-2-S10-1.5		1429								X	X												
3	-33	EB23-2-S10-2.5		1433								X	X												
4	-34	EB13-2-N10-0.5		0800								X	X												
5	-35	EB13-2-N10-1.5		0802								X	X												
6	-36	EB13-2-N10-2.5		0806								X	X												
7	-37	EB13-2-N5-0.5		0810								X	X												
8	-38	EB13-2-N5-1.5		0812								X	X												
9	-39	EB13-2-N5-2.5		0815								X	X												
10	-40	EB13-2-W5-0.5	↓	0822								X	X		↓					↓	↓	↓	↓	↓	

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister
Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn((Ac)2; 6=NaOH; 7=NA2S2O3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seamans — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seamans	4-12-17	1422		4/12/17	1422
	4/12/17	1815		4/12/17	1815

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address: See Page #1
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Container: Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container: Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((AcI2; 6=NaOH; 7=NA2S2O3	REMARKS
1	170542-41	EB13-2-W5-1.5	4-11-17	0825									X		X					5	1	5	1	—	
2	-42	EB13-2-W5-2.5		0827									X												
3	-43	EB13-2-S10-0.5		0916									X												
4	-44	EB13-2-S10-1.5		0918									X												
5	-45	EB13-2-S10-2.5		0920									X												
6	-46	EB13-1-E5-0.5		0945									X												
7	-47	EB13-1-E5-1.5		0947									X												
8	-48	EB13-1-E5-2.5		0950									X												
9	-49	EB13-1-W5-0.5		0930									X												
10	-50	EB13-1-W5-1.5		0932									X												

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scowcroft — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scowcroft	4-12-17	1422		4/12/17	1422
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/12/17	1815		4/12/17	1815
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:	Tel:
	City: State: Zip:	Fax:

SEND REPORT TO:

Attn: Email:

Company:

Address: See Page #1

City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO

Attn: Email:

Company:

Address: See Page #1

City: State: Zip:

PROJECT SAMPLES

Project Name:

Project No.:

Sampler:

Quote No:

PO #:

Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Container Preservative	REMARKS
1	1701574-01	EB13-1-WS-2.5	4-11-17	0934									X		X					5	1	5	1	--	
2	-02	EB-2017-04-12	4-12-17	1415									X	X			X			5	1	4	2	2	
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

QA/QC
- ☐ Routine
- ☐ Caltrans
- ☐ Legal
- ☐ RWQCB
- ☐ Level IV

Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister
Container Material: 1=Glass; 2=Plastic; 3=Metal
Container Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Siemens — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Siemens	4-12-17	1422		4/12/17	1422
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/12/17	1815	Proxima	4/12/17	1815
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

April 26, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1701542
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April 12, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB13-1-W10-0.5	1701542-01	Soil	4/11/17 9:10	4/12/17 14:22
EB13-1-W10-0.5-D	1701542-02	Soil	4/11/17 9:10	4/12/17 14:22
EB13-2-W10-0.5	1701542-05	Soil	4/11/17 8:55	4/12/17 14:22
EB13-2-W10-1.5	1701542-06	Soil	4/11/17 8:57	4/12/17 14:22
EB13-2-S5-0.5	1701542-09	Soil	4/11/17 9:02	4/12/17 14:22
EB13-2-N10-0.5	1701542-34	Soil	4/11/17 8:00	4/12/17 14:22
EB13-2-N5-0.5	1701542-37	Soil	4/11/17 8:10	4/12/17 14:22
EB13-2-W5-0.5	1701542-40	Soil	4/11/17 8:22	4/12/17 14:22
EB13-2-W5-1.5	1701542-41	Soil	4/11/17 8:25	4/12/17 14:22
EB13-2-S10-0.5	1701542-43	Soil	4/11/17 9:16	4/12/17 14:22
EB13-1-E5-0.5	1701542-46	Soil	4/11/17 9:45	4/12/17 14:22
EB13-1-W5-0.5	1701542-49	Soil	4/11/17 9:30	4/12/17 14:22

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID EB13-1-W10-0.5

Lab ID: 1701542-01

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.026**	0.25	0.014	5	B7D0617	04/21/2017	04/21/17 18:15	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.8**	1.0	0.057	20	B7D0631	04/22/2017	04/24/17 12:42	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID EB13-1-W10-0.5-D

Lab ID: 1701542-02

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.017**	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:27	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**11**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:19	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID EB13-2-W10-0.5

Lab ID: 1701542-05

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.060**	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:28	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.8**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:20	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID EB13-2-W10-1.5

Lab ID: 1701542-06

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:30	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.8**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:22	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

Client Sample ID EB13-2-S5-0.5

Lab ID: 1701542-09

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.047**	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:31	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.0**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:23	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

Client Sample ID EB13-2-N10-0.5

Lab ID: 1701542-34

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:33	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.1**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:25	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID EB13-2-N5-0.5

Lab ID: 1701542-37

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.028**	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:34	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**15**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:26	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID EB13-2-W5-0.5

Lab ID: 1701542-40

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.69**	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:35	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**30**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:28	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

Client Sample ID EB13-2-W5-1.5

Lab ID: 1701542-41

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.19**	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:37	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**15**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:32	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID EB13-2-S10-0.5

Lab ID: 1701542-43

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.036**	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:38	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.6**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:33	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/26/2017

Client Sample ID EB13-1-E5-0.5

Lab ID: 1701542-46

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.021**	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:40	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.5**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:34	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

Client Sample ID EB13-1-W5-0.5

Lab ID: 1701542-49

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.022**	0.25	0.014	5	B7D0618	04/21/2017	04/21/17 18:46	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.5**	1.0	0.057	20	B7D0632	04/22/2017	04/24/17 10:37	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0617 - EPA 3010A_S										
Blank (B7D0617-BLK1)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	ND	0.050	0.0028							
Blank (B7D0617-BLK2)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	ND	0.050	0.0028							
LCS (B7D0617-BS1)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	0.925834	0.050	0.0028	1.00000		92.6	80 - 120			
Duplicate (B7D0617-DUP1)			**Source: 1701542-01**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	0.026931	0.25	0.014		0.025576			5.16	20	J
Duplicate (B7D0617-DUP2)			**Source: 1701523-29**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	ND	0.25	0.014		ND			NR	20	
Matrix Spike (B7D0617-MS1)			**Source: 1701542-01**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	2.31296	0.25	0.014	2.50000	0.025576	91.5	78 - 109			
Matrix Spike (B7D0617-MS2)			**Source: 1701523-29**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	2.25855	0.25	0.014	2.50000	ND	90.3	78 - 109			
Matrix Spike Dup (B7D0617-MSD1)			**Source: 1701542-01**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	2.33791	0.25	0.014	2.50000	0.025576	92.5	78 - 109	1.07	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0618 - EPA 3010A_S										
Blank (B7D0618-BLK1)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	ND	0.050	0.0028							
Blank (B7D0618-BLK2)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	ND	0.050	0.0028							
LCS (B7D0618-BS1)					Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	0.869360	0.050	0.0028	1.00000		86.9	80 - 120			
Duplicate (B7D0618-DUP1)			**Source: 1701542-49**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	0.020297	0.25	0.014		0.022032			8.20	20	J
Duplicate (B7D0618-DUP2)			**Source: 1701542-46**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	0.023636	0.25	0.014		0.021310			10.4	20	J
Matrix Spike (B7D0618-MS1)			**Source: 1701542-49**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	2.16763	0.25	0.014	2.50000	0.022032	85.8	78 - 109			
Matrix Spike (B7D0618-MS2)			**Source: 1701542-46**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	2.25538	0.25	0.014	2.50000	0.021310	89.4	78 - 109			
Matrix Spike Dup (B7D0618-MSD1)			**Source: 1701542-49**		Prepared: 4/21/2017 Analyzed: 4/21/2017					
Lead	2.18453	0.25	0.014	2.50000	0.022032	86.5	78 - 109	0.776	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0631 - STLC_S Extraction										
Blank (B7D0631-BLK1)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	ND	1.0	0.057							
Blank (B7D0631-BLK2)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	ND	1.0	0.057							
LCS (B7D0631-BS1)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	1.86197			2.00000		93.1	80 - 120			
Duplicate (B7D0631-DUP1)			**Source: 1701523-29**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	3.70726	1.0	0.057		3.61836			2.43	20	
Duplicate (B7D0631-DUP2)			**Source: 1701542-01**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	7.85846	1.0	0.057		7.77845			1.02	20	
Matrix Spike (B7D0631-MS1)			**Source: 1701523-29**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	5.56463			2.50000	3.61836	77.9	44 - 130			
Matrix Spike (B7D0631-MS2)			**Source: 1701542-01**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	9.39855			2.50000	7.77845	64.8	44 - 130			
Matrix Spike Dup (B7D0631-MSD1)			**Source: 1701523-29**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	5.72461			2.50000	3.61836	84.3	44 - 130	2.83	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0632 - STLC_S Extraction										
Blank (B7D0632-BLK1)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	ND	1.0	0.057							
Blank (B7D0632-BLK2)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	ND	1.0	0.057							
LCS (B7D0632-BS1)					Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	1.82891			2.00000		91.4	80 - 120			
Duplicate (B7D0632-DUP1)			**Source: 1701542-46**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	7.52641	1.0	0.057		7.53679			0.138	20	
Duplicate (B7D0632-DUP2)			**Source: 1701542-49**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	7.31865	1.0	0.057		7.49713			2.41	20	
Matrix Spike (B7D0632-MS1)			**Source: 1701542-46**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	9.29415			2.50000	7.53679	70.3	44 - 130			
Matrix Spike (B7D0632-MS2)			**Source: 1701542-49**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	9.69158			2.50000	7.49713	87.8	44 - 130			
Matrix Spike Dup (B7D0632-MSD1)			**Source: 1701542-46**		Prepared: 4/22/2017 Analyzed: 4/24/2017					
Lead	9.33102			2.50000	7.53679	71.8	44 - 130	0.396	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/26/2017

Notes and Definitions

J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Wednesday, April 19, 2017 3:06 PM
To: Rachelle Arada
Cc: customer.relations@atlglobal.com
Subject: RE: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Rachelle,

For the Burroughs samples:
- for all samples that exceed 50 mg/kg arsenic, we request STLC-arsenic and TCLP-arsenic.
-for all samples that exceed 50 mg/kg lead, we request STLC-lead and TCLP-lead.

Thank you,
Julie

-------- Original message --------
From: Rachelle Arada <Rachelle@atlglobal.com>
Date: 4/19/17 12:36 PM (GMT-08:00)
To: Julie Harriman <jharriman@leightongroup.com>
Cc: customer.relations@atlglobal.com
Subject: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Julie,

Please find your results for the above project attached. If I can further assist, please let me know. Thanks.

Rachelle Arada
Project Manager
Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*
This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.

April 24, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

RE: ATL Work Order Number : 1701565
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April, 13 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB9-1-S5-0.5	1701565-01	Soil	4/11/17 10:00	4/13/17 15:23
EB9-1-S5-1.5	1701565-02	Soil	4/11/17 10:02	4/13/17 15:23
EB9-1-S5-2.5	1701565-03	Soil	4/11/17 10:07	4/13/17 15:23
EB9-1-W5-0.5	1701565-04	Soil	4/11/17 10:12	4/13/17 15:23
EB9-1-W5-1.5	1701565-05	Soil	4/11/17 10:14	4/13/17 15:23
EB9-1-W5-2.5	1701565-06	Soil	4/11/17 10:16	4/13/17 15:23
EB9-1-S10-0.5	1701565-07	Soil	4/11/17 10:06	4/13/17 15:23
EB9-1-S10-1.5	1701565-08	Soil	4/11/17 10:08	4/13/17 15:23
EB9-1-S10-2.5	1701565-09	Soil	4/11/17 10:10	4/13/17 15:23
EB9-1-E9-0.5	1701565-10	Soil	4/11/17 9:47	4/13/17 15:23

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-1-S5-0.5

Lab ID: 1701565-01

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**99**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:38	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-1-S5-1.5

Lab ID: 1701565-02

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2700**	5.0	0.56	5	B7D0526	04/19/2017	04/20/17 15:00	D6

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-1-S5-2.5

Lab ID: 1701565-03

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.9**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:44	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-1-W5-0.5

Lab ID: 1701565-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**260**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:45	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-1-W5-1.5

Lab ID: 1701565-05

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**21**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:46	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-1-W5-2.5

Lab ID: 1701565-06

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.5**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:50	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-1-S10-0.5

Lab ID: 1701565-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**34**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:51	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-1-S10-1.5

Lab ID: 1701565-08

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**36**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:52	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-1-S10-2.5

Lab ID: 1701565-09

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.6**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:53	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-1-E9-0.5
Lab ID: 1701565-10

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**26**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:54	

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0526 - EPA 3050B_S										
Blank (B7D0526-BLK1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Lead	ND	1.0	0.11							
LCS (B7D0526-BS1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Lead	44.9924	1.0	0.11	50.0000		90.0	80 - 120			
Duplicate (B7D0526-DUP1)			**Source: 1701565-01**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Lead	115.773	1.0	0.11		99.4774			15.1	20	
Matrix Spike (B7D0526-MS1)			**Source: 1701565-01**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Lead	224.334	1.0	0.11	125.000	99.4774	99.9	34 - 129			
Matrix Spike Dup (B7D0526-MSD1)			**Source: 1701565-01**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Lead	213.233	1.0	0.11	125.000	99.4774	91.0	34 - 129	5.07	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Notes and Definitions

D6	Sample required dilution due to high concentration of target analyte.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	5.6	
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc. (LCI) — Address: 17781 Cowan — Tel: 949-250-1421
City: Irvine — State: CA — Zip: 92614 — Fax: 949-250-1114

SEND REPORT TO:
Attn: Julie Harriman — Email: jharriman@leightongroup.com
Company: LCI
Address: 17781 Cowan
City: Irvine — State: CA — Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable — Email: acctpayable@leightongroup.com
Company: Leighton
Address: 17781 Cowan
City: Irvine — State: CA — Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS-LAUSD
Project No.: 603378-006
Sampler: W. Stevens
Quote No: —
PO #: —
Special Instructions/Comments: —

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1701565 - 1	EB9-1-S5 0.5	4-11-17	1000									X		X					5	1	5	1	—	
2	- 2	EB9-1-S5-1.5		1002									X												
3	- 3	EB9-1-S5-2.5		1007									X												
4	- 4	EB9-1-W5-0.5		1012									X												
5	- 5	EB9-1-W5-1.5		1014									X												
6	- 6	EB9-1-W5-2.5		1016									X												
7	- 7	EB9-1-S10-0.5		1006									X												
8	- 8	EB9-1-S10-1.5		1008									X												
9	- 9	EB9-1-S10-2.5		1010									X												
10	- 10	EB9-1-EB-0.5		0947									X												

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3
Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Redlar; 7 = Canister
Material: 1=Glass; 2=Plastic; 3=Metal

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Stevens — Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Stevens	4-13-17	15:23	Erick Francis	4/13/17	15:23
Erick Francis	4/13/17	17:07	MFR	4/13/17	1707
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

April 28, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1701565
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April 13, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/28/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB9-1-S5-0.5	1701565-01	Soil	4/11/17 10:00	4/13/17 15:23
EB9-1-S5-1.5	1701565-02	Soil	4/11/17 10:02	4/13/17 15:23
EB9-1-W5-0.5	1701565-04	Soil	4/11/17 10:12	4/13/17 15:23

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/28/2017

Client Sample ID EB9-1-S5-0.5

Lab ID: 1701565-01

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.10**	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:37	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.3**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:27	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/28/2017

Client Sample ID EB9-1-S5-1.5

Lab ID: 1701565-02

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:38	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.3**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:29	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/28/2017

Client Sample ID EB9-1-W5-0.5

Lab ID: 1701565-04

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.35**	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:39	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.6**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:30	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/28/2017

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0747 - EPA 3010A_S										
Blank (B7D0747-BLK1)					Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	ND	0.050	0.0028							
Blank (B7D0747-BLK2)					Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	ND	0.050	0.0028							
LCS (B7D0747-BS1)					Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	0.968051	0.050	0.0028	1.00000		96.8	80 - 120			
Duplicate (B7D0747-DUP1)			**Source: 1701567-36**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	ND	0.25	0.014		ND			NR	20	
Duplicate (B7D0747-DUP2)			**Source: 1701567-62**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	0.675978	0.25	0.014		0.654948			3.16	20	
Matrix Spike (B7D0747-MS1)			**Source: 1701567-36**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	2.51553	0.25	0.014	2.50000	ND	101	78 - 109			
Matrix Spike (B7D0747-MS2)			**Source: 1701567-62**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	3.10911	0.25	0.014	2.50000	0.654948	98.2	78 - 109			
Matrix Spike Dup (B7D0747-MSD1)			**Source: 1701567-36**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	2.48512	0.25	0.014	2.50000	ND	99.4	78 - 109	1.22	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/28/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0802 - STLC_S Extraction										
Blank (B7D0802-BLK1)					Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	ND	1.0	0.057							
LCS (B7D0802-BS1)					Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	1.83514			2.00000		91.8	80 - 120			
Duplicate (B7D0802-DUP1)			**Source: 1701567-62**		Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	3.32208	1.0	0.057		3.27259			1.50	20	
Matrix Spike (B7D0802-MS1)			**Source: 1701567-62**		Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	5.28083			2.50000	3.27259	80.3	44 - 130			
Matrix Spike Dup (B7D0802-MSD1)			**Source: 1701567-62**		Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	5.20516			2.50000	3.27259	77.3	44 - 130	1.44	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/28/2017

Notes and Definitions

J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Wednesday, April 19, 2017 3:06 PM
To: Rachelle Arada
Cc: customer.relations@atlglobal.com
Subject: RE: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Rachelle,

For the Burroughs samples:
- for all samples that exceed 50 mg/kg arsenic, we request STLC-arsenic and TCLP-arsenic.
-for all samples that exceed 50 mg/kg lead, we request STLC-lead and TCLP-lead.

Thank you,
Julie

-------- Original message --------
From: Rachelle Arada <Rachelle@atlglobal.com>
Date: 4/19/17 12:36 PM (GMT-08:00)
To: Julie Harriman <jharriman@leightongroup.com>
Cc: customer.relations@atlglobal.com
Subject: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Julie,

Please find your results for the above project attached. If I can further assist, please let me know. Thanks.

Rachelle Arada
Project Manager
Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*
This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.

April 24, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

RE: ATL Work Order Number : 1701566
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April, 13 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB5-4-N5-0.5	1701566-01	Soil	4/11/17 13:00	4/13/17 15:23
EB5-4-N5-1.5	1701566-02	Soil	4/11/17 13:04	4/13/17 15:23
EB5-4-N5-2.5	1701566-03	Soil	4/11/17 13:05	4/13/17 15:23
EB5-4-N10-0.5	1701566-04	Soil	4/11/17 13:10	4/13/17 15:23
EB5-4-N10-1.5	1701566-05	Soil	4/11/17 13:12	4/13/17 15:23
EB5-4-N10-2.5	1701566-06	Soil	4/11/17 13:15	4/13/17 15:23
EB5-4-S7.5-0.5	1701566-07	Soil	4/11/17 12:55	4/13/17 15:23
EB5-4-S7.5-1.5	1701566-08	Soil	4/11/17 12:57	4/13/17 15:23
EB5-4-S7.5-2.5	1701566-09	Soil	4/11/17 12:59	4/13/17 15:23
EB5-3-E5-0.5	1701566-10	Soil	4/11/17 13:24	4/13/17 15:23
EB5-3-E5-1.5	1701566-11	Soil	4/11/17 13:26	4/13/17 15:23
EB5-3-E5-2.5	1701566-12	Soil	4/11/17 13:30	4/13/17 15:23
EB5-3-W5-0.5	1701566-13	Soil	4/11/17 13:24	4/13/17 15:23
EB5-3-W5-1.5	1701566-14	Soil	4/11/17 13:26	4/13/17 15:23
EB5-3-W5-2.5	1701566-15	Soil	4/11/17 13:31	4/13/17 15:23
EB5-3-W10-0.5	1701566-16	Soil	4/11/17 13:37	4/13/17 15:23
EB5-3-W10-1.5	1701566-17	Soil	4/11/17 13:39	4/13/17 15:23
EB5-3-W10-2.5	1701566-18	Soil	4/11/17 13:41	4/13/17 15:23
EB9-1-E9-1.5	1701566-19	Soil	4/11/17 9:50	4/13/17 15:23
EB9-1-E9-2.5	1701566-20	Soil	4/11/17 9:53	4/13/17 15:23
EB9-1-E5-0.5	1701566-21	Soil	4/11/17 9:55	4/13/17 15:23
EB9-1-E5-1.5	1701566-22	Soil	4/11/17 9:57	4/13/17 15:23
EB9-1-E5-2.5	1701566-23	Soil	4/11/17 9:59	4/13/17 15:23
EB9-7-W6-0.5	1701566-24	Soil	4/11/17 10:40	4/13/17 15:23
EB9-7-W6-1.5	1701566-25	Soil	4/11/17 10:41	4/13/17 15:23
EB9-7-W6-2.5	1701566-26	Soil	4/11/17 10:45	4/13/17 15:23
EB9-6-N10-3	1701566-27	Soil	4/11/17 10:00	4/13/17 15:23
EB9-6-S5-3	1701566-28	Soil	4/11/17 10:32	4/13/17 15:23
EB9-6-S5-4	1701566-29	Soil	4/11/17 10:35	4/13/17 15:23
EB9-6-E5-3	1701566-30	Soil	4/11/17 10:20	4/13/17 15:23
EB9-6-E5-3-D	1701566-31	Soil	4/11/17 10:20	4/13/17 15:23
EB9-6-E5-4	1701566-32	Soil	4/11/17 10:23	4/13/17 15:23
EB9-6-N5-3	1701566-33	Soil	4/11/17 10:10	4/13/17 15:23
EB9-6-N5-4	1701566-34	Soil	4/11/17 10:10	4/13/17 15:23
EB9-6-S10-3	1701566-35	Soil	4/11/17 10:40	4/13/17 15:23
EB9-6-E10-3	1701566-36	Soil	4/11/17 10:27	4/13/17 15:23
EB9-6-E10-4	1701566-37	Soil	4/11/17 10:29	4/13/17 15:23

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

DRUM-1	1701566-38	Soil	4/13/17 14:55	4/13/17 15:23
DRUM-1	1701566-38	Soil	4/13/17 14:55	4/13/17 15:23

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-4-N5-0.5

Lab ID: 1701566-01

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**15**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:55	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB5-4-N5-1.5

Lab ID: 1701566-02

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.6**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:56	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-4-N5-2.5

Lab ID: 1701566-03

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.1**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:57	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-4-N10-0.5

Lab ID: 1701566-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**17**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:58	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-4-N10-1.5

Lab ID: 1701566-05

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.8**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 10:59	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-4-N10-2.5

Lab ID: 1701566-06

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.8**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 11:06	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-4-S7.5-0.5

Lab ID: 1701566-07

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**21**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 11:07	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-4-S7.5-1.5

Lab ID: 1701566-08

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.6**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 11:08	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-4-S7.5-2.5

Lab ID: 1701566-09

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.3**	1.0	0.11	1	B7D0526	04/19/2017	04/20/17 11:11	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-3-E5-0.5

Lab ID: 1701566-10

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**34**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:31	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB5-3-E5-1.5

Lab ID: 1701566-11

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.3**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:35	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-3-E5-2.5

Lab ID: 1701566-12

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.2**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:37	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-3-W5-0.5

Lab ID: 1701566-13

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**22**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:38	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB5-3-W5-1.5

Lab ID: 1701566-14

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.7**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:39	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB5-3-W5-2.5

Lab ID: 1701566-15

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.7**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:42	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-3-W10-0.5

Lab ID: 1701566-16

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**14**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:43	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-3-W10-1.5

Lab ID: 1701566-17

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.9**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:44	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB5-3-W10-2.5

Lab ID: 1701566-18

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.8**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:46	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-1-E9-1.5

Lab ID: 1701566-19

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**110**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:47	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-1-E9-2.5

Lab ID: 1701566-20

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**40**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:48	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-1-E5-0.5

Lab ID: 1701566-21

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**230**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:49	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-1-E5-1.5

Lab ID: 1701566-22

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**20**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:50	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-1-E5-2.5

Lab ID: 1701566-23

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.6**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:51	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-7-W6-0.5

Lab ID: 1701566-24

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**12**	2.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:52	
Lead	**6.4**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:52	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-7-W6-1.5

Lab ID: 1701566-25

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**18**	2.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:56	
Lead	**9.6**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:56	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-7-W6-2.5

Lab ID: 1701566-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**13**	2.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:57	
Lead	**3.1**	1.0	0.11	1	B7D0527	04/19/2017	04/20/17 11:57	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-6-N10-3

Lab ID: 1701566-27

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.8**	1.0	0.70	1	B7D0527	04/19/2017	04/20/17 11:58	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-6-S5-3

Lab ID: 1701566-28

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.1**	1.0	0.70	1	B7D0527	04/19/2017	04/20/17 11:59	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-6-S5-4

Lab ID: 1701566-29

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.1**	1.0	0.70	1	B7D0528	04/19/2017	04/20/17 12:02	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-6-E5-3

Lab ID: 1701566-30

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	0.70	1	B7D0528	04/19/2017	04/20/17 12:09	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-6-E5-3-D

Lab ID: 1701566-31

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.1**	1.0	0.70	1	B7D0528	04/19/2017	04/20/17 12:10	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-6-E5-4

Lab ID: 1701566-32

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.1**	1.0	0.70	1	B7D0528	04/19/2017	04/20/17 12:11	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-6-N5-3

Lab ID: 1701566-33

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**48**	1.0	0.70	1	B7D0528	04/19/2017	04/20/17 12:13	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-6-N5-4

Lab ID: 1701566-34

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**24**	1.0	0.70	1	B7D0528	04/19/2017	04/20/17 12:14	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB9-6-S10-3

Lab ID: 1701566-35

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.0**	1.0	0.70	1	B7D0528	04/19/2017	04/20/17 14:09	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-6-E10-3

Lab ID: 1701566-36

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	0.70	1	B7D0528	04/19/2017	04/20/17 14:10	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB9-6-E10-4

Lab ID: 1701566-37

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	0.70	1	B7D0528	04/19/2017	04/20/17 14:11	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID DRUM-1
Lab ID: 1701566-38

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.32	1	B7D0535	04/19/2017	04/20/17 16:52	
Arsenic	**2.3**	1.0	0.70	1	B7D0535	04/19/2017	04/20/17 16:52	
Barium	**71**	1.0	0.10	1	B7D0535	04/19/2017	04/20/17 16:52	
Beryllium	ND	1.0	0.04	1	B7D0535	04/19/2017	04/20/17 16:52	
Cadmium	**0.11**	1.0	0.09	1	B7D0535	04/19/2017	04/20/17 16:52	J
Chromium	**11**	1.0	0.12	1	B7D0535	04/19/2017	04/20/17 16:52	
Cobalt	**6.1**	1.0	0.10	1	B7D0535	04/19/2017	04/20/17 16:52	
Copper	**13**	2.0	0.11	1	B7D0535	04/19/2017	04/20/17 16:52	
Lead	**17**	1.0	0.11	1	B7D0535	04/19/2017	04/20/17 16:52	
Molybdenum	ND	1.0	0.13	1	B7D0535	04/19/2017	04/20/17 16:52	
Nickel	**11**	1.0	0.10	1	B7D0535	04/19/2017	04/20/17 16:52	
Selenium	ND	1.0	0.88	1	B7D0535	04/19/2017	04/20/17 16:52	
Silver	ND	1.0	0.04	1	B7D0535	04/19/2017	04/20/17 16:52	
Thallium	ND	1.0	0.42	1	B7D0535	04/19/2017	04/20/17 16:52	
Vanadium	**25**	1.0	0.19	1	B7D0535	04/19/2017	04/20/17 16:52	
Zinc	**39**	1.0	0.18	1	B7D0535	04/19/2017	04/20/17 16:52	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.05**	0.10	0.005	1	B7D0537	04/19/2017	04/20/17 10:47	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	**0.72**	1.0	0.20	1	B7D0465	04/18/2017	04/18/17 10:08	J
Surrogate: 4-Bromofluorobenzene	*94.3 %*		*36 - 125*		B7D0465	04/18/2017	*04/18/17 10:08*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**320**	20	20	20	B7D0439	04/14/2017	04/19/17 18:17	
ORO	**1100**	20	20	20	B7D0439	04/14/2017	04/19/17 18:17	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID DRUM-1
Lab ID: 1701566-38

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	*0%*	*18 - 130*		B7D0439	04/14/2017	*04/19/17 18:17*	S4

Organochlorine Pesticides by EPA 8081

Analyst: RL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.53**	2.0	0.22	1	B7D0426	04/14/2017	04/17/17 17:50	J
4,4´-DDE	**2.9**	2.0	0.20	1	B7D0426	04/14/2017	04/17/17 17:50	
4,4´-DDT	**2.3**	2.0	0.13	1	B7D0426	04/14/2017	04/17/17 17:50	
Aldrin	ND	1.0	0.27	1	B7D0426	04/14/2017	04/17/17 17:50	
alpha-BHC	ND	1.0	0.20	1	B7D0426	04/14/2017	04/17/17 17:50	
alpha-Chlordane	ND	1.0	0.21	1	B7D0426	04/14/2017	04/17/17 17:50	
beta-BHC	ND	1.0	0.23	1	B7D0426	04/14/2017	04/17/17 17:50	
Chlordane	ND	8.5	0.90	1	B7D0426	04/14/2017	04/17/17 17:50	
delta-BHC	ND	1.0	0.21	1	B7D0426	04/14/2017	04/17/17 17:50	
Dieldrin	ND	2.0	0.25	1	B7D0426	04/14/2017	04/17/17 17:50	
Endosulfan I	ND	1.0	0.21	1	B7D0426	04/14/2017	04/17/17 17:50	
Endosulfan II	ND	2.0	0.22	1	B7D0426	04/14/2017	04/17/17 17:50	
Endosulfan sulfate	ND	2.0	0.21	1	B7D0426	04/14/2017	04/17/17 17:50	
Endrin	ND	2.0	0.23	1	B7D0426	04/14/2017	04/17/17 17:50	
Endrin aldehyde	ND	2.0	0.28	1	B7D0426	04/14/2017	04/17/17 17:50	
Endrin ketone	ND	2.0	0.20	1	B7D0426	04/14/2017	04/17/17 17:50	
gamma-BHC	ND	1.0	0.20	1	B7D0426	04/14/2017	04/17/17 17:50	
gamma-Chlordane	ND	1.0	0.23	1	B7D0426	04/14/2017	04/17/17 17:50	
Heptachlor	ND	1.0	0.19	1	B7D0426	04/14/2017	04/17/17 17:50	
Heptachlor epoxide	ND	1.0	0.20	1	B7D0426	04/14/2017	04/17/17 17:50	
Methoxychlor	ND	5.0	0.18	1	B7D0426	04/14/2017	04/17/17 17:50	
Toxaphene	ND	50	8.2	1	B7D0426	04/14/2017	04/17/17 17:50	
Surrogate: Decachlorobiphenyl	*28.0 %*	*27 - 123*		B7D0426	04/14/2017	*04/17/17 17:50*		
Surrogate: Tetrachloro-m-xylene	*26.1 %*	*26 - 108*		B7D0426	04/14/2017	*04/17/17 17:50*		

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0526 - EPA 3050B_S										
Blank (B7D0526-BLK1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	ND	1.0	0.70							
Copper	ND	2.0	0.11							
Lead	ND	1.0	0.11							
LCS (B7D0526-BS1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	43.8814	1.0	0.70	50.0000		87.8	80 - 120			
Copper	46.8745	2.0	0.11	50.0000		93.7	80 - 120			
Lead	44.9924	1.0	0.11	50.0000		90.0	80 - 120			
Duplicate (B7D0526-DUP1)			**Source: 1701565-01**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	5.37928	1.0	0.70		4.64989			14.5	20	
Copper	72.9598	2.0	0.11		76.6644			4.95	20	
Lead	115.773	1.0	0.11		99.4774			15.1	20	
Matrix Spike (B7D0526-MS1)			**Source: 1701565-01**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	90.5297	1.0	0.70	125.000	4.64989	68.7	59 - 103			
Copper	198.830	2.0	0.11	125.000	76.6644	97.7	53 - 126			
Lead	224.334	1.0	0.11	125.000	99.4774	99.9	34 - 129			
Matrix Spike Dup (B7D0526-MSD1)			**Source: 1701565-01**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	95.1112	1.0	0.70	125.000	4.64989	72.4	59 - 103	4.94	20	
Copper	169.061	2.0	0.11	125.000	76.6644	73.9	53 - 126	16.2	20	
Lead	213.233	1.0	0.11	125.000	99.4774	91.0	34 - 129	5.07	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0527 - EPA 3050B_S										
Blank (B7D0527-BLK1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	ND	1.0	0.70							
Copper	0.446243	2.0	0.11							J
Lead	ND	1.0	0.11							
LCS (B7D0527-BS1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	43.4046	1.0	0.70	50.0000		86.8	80 - 120			
Copper	47.4455	2.0	0.11	50.0000		94.9	80 - 120			
Lead	44.3618	1.0	0.11	50.0000		88.7	80 - 120			
Duplicate (B7D0527-DUP1)			**Source: 1701566-10**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	4.12177	1.0	0.70		4.19008			1.64	20	
Copper	22.5070	2.0	0.11		20.3615			10.0	20	
Lead	32.5004	1.0	0.11		33.5587			3.20	20	
Matrix Spike (B7D0527-MS1)			**Source: 1701566-10**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	98.7422	1.0	0.70	125.000	4.19008	75.6	59 - 103			
Copper	121.219	2.0	0.11	125.000	20.3615	80.7	53 - 126			
Lead	122.422	1.0	0.11	125.000	33.5587	71.1	34 - 129			
Matrix Spike Dup (B7D0527-MSD1)			**Source: 1701566-10**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	85.0208	1.0	0.70	125.000	4.19008	64.7	59 - 103	14.9	20	
Copper	118.692	2.0	0.11	125.000	20.3615	78.7	53 - 126	2.11	20	
Lead	113.946	1.0	0.11	125.000	33.5587	64.3	34 - 129	7.17	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0528 - EPA 3050B_S										
Blank (B7D0528-BLK1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	ND	1.0	0.70							
Copper	0.503539	2.0	0.11							J
Lead	ND	1.0	0.11							
LCS (B7D0528-BS1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	42.4417	1.0	0.70	50.0000		84.9	80 - 120			
Copper	46.5882	2.0	0.11	50.0000		93.2	80 - 120			
Lead	42.5134	1.0	0.11	50.0000		85.0	80 - 120			
Duplicate (B7D0528-DUP1)			**Source: 1701566-29**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	3.41420	1.0	0.70		3.14130			8.33	20	
Copper	11.3909	2.0	0.11		10.5796			7.38	20	
Lead	8.06575	1.0	0.11		5.16330			43.9	20	R
Matrix Spike (B7D0528-MS1)			**Source: 1701566-29**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	86.8025	1.0	0.70	125.000	3.14130	66.9	59 - 103			
Copper	108.632	2.0	0.11	125.000	10.5796	78.4	53 - 126			
Lead	88.4072	1.0	0.11	125.000	5.16330	66.6	34 - 129			
Matrix Spike Dup (B7D0528-MSD1)			**Source: 1701566-29**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	88.1229	1.0	0.70	125.000	3.14130	68.0	59 - 103	1.51	20	
Copper	110.042	2.0	0.11	125.000	10.5796	79.6	53 - 126	1.29	20	
Lead	90.5414	1.0	0.11	125.000	5.16330	68.3	34 - 129	2.39	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0535 - EPA 3050B_S										
Blank (B7D0535-BLK1)					Prepared: 4/19/2017 Analyzed: 4/21/2017					
Antimony	ND	2.0	0.32							
Arsenic	ND	1.0	0.70							
Barium	0.125108	1.0	0.10							J
Beryllium	ND	1.0	0.04							
Cadmium	ND	1.0	0.09							
Chromium	0.172879	1.0	0.12							J
Cobalt	0.153452	1.0	0.10							J
Copper	ND	2.0	0.11							
Lead	0.334573	1.0	0.11							J
Molybdenum	ND	1.0	0.13							
Nickel	0.118493	1.0	0.10							J
Selenium	ND	1.0	0.88							
Silver	0.128423	1.0	0.04							J
Thallium	ND	1.0	0.42							
Vanadium	ND	1.0	0.19							
Zinc	ND	1.0	0.18							
LCS (B7D0535-BS1)					Prepared: 4/19/2017 Analyzed: 4/21/2017					
Antimony	44.6704	2.0	0.32	50.0000		89.3	80 - 120			
Arsenic	44.1682	1.0	0.70	50.0000		88.3	80 - 120			
Barium	44.9971	1.0	0.10	50.0000		90.0	80 - 120			
Beryllium	43.4288	1.0	0.04	50.0000		86.9	80 - 120			
Cadmium	42.2623	1.0	0.09	50.0000		84.5	80 - 120			
Chromium	46.2971	1.0	0.12	50.0000		92.6	80 - 120			
Cobalt	47.5754	1.0	0.10	50.0000		95.2	80 - 120			
Copper	48.2584	2.0	0.11	50.0000		96.5	80 - 120			
Lead	45.1230	1.0	0.11	50.0000		90.2	80 - 120			
Molybdenum	44.7143	1.0	0.13	50.0000		89.4	80 - 120			
Nickel	44.1599	1.0	0.10	50.0000		88.3	80 - 120			
Selenium	42.6160	1.0	0.88	50.0000		85.2	80 - 120			
Silver	43.3835	1.0	0.04	50.0000		86.8	80 - 120			
Thallium	45.3358	1.0	0.42	50.0000		90.7	80 - 120			
Vanadium	45.3832	1.0	0.19	50.0000		90.8	80 - 120			
Zinc	41.6581	1.0	0.18	50.0000		83.3	80 - 120			
Duplicate (B7D0535-DUP1)				**Source: 1701566-38**	Prepared: 4/19/2017 Analyzed: 4/20/2017					
Antimony	ND	2.0	0.32		ND			NR	20	
Arsenic	2.09643	1.0	0.70		2.29439			9.02	20	
Barium	71.4672	1.0	0.10		70.5851			1.24	20	
Beryllium	ND	1.0	0.04		ND			NR	20	
Cadmium	0.102950	1.0	0.09		0.110102			6.71	20	J
Chromium	9.07020	1.0	0.12		11.4407			23.1	20	R

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0535 - EPA 3050B_S (continued)										
Duplicate (B7D0535-DUP1) - Continued			**Source: 1701566-38**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Cobalt	5.95976	1.0	0.10		6.06400			1.73	20	
Copper	14.2813	2.0	0.11		12.6548			12.1	20	
Lead	12.6377	1.0	0.11		16.6774			27.6	20	R
Molybdenum	ND	1.0	0.13		ND			NR	20	
Nickel	7.91104	1.0	0.10		11.1967			34.4	20	R
Selenium	ND	1.0	0.88		ND			NR	20	
Silver	ND	1.0	0.04		ND			NR	20	
Thallium	ND	1.0	0.42		ND			NR	20	
Vanadium	19.1723	1.0	0.19		25.0121			26.4	20	R
Zinc	39.7674	1.0	0.18		38.8452			2.35	20	
Matrix Spike (B7D0535-MS1)			**Source: 1701566-38**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Antimony	65.0671	2.0	0.32	125.000	ND	52.1	34 - 103			
Arsenic	82.2384	1.0	0.70	125.000	2.29439	64.0	59 - 103			
Barium	156.444	1.0	0.10	125.000	70.5851	68.7	30 - 134			
Beryllium	85.4198	1.0	0.04	125.000	ND	68.3	62 - 105			
Cadmium	78.7389	1.0	0.09	125.000	0.110102	62.9	53 - 102			
Chromium	94.6728	1.0	0.12	125.000	11.4407	66.6	51 - 111			
Cobalt	83.5392	1.0	0.10	125.000	6.06400	62.0	55 - 105			
Copper	109.322	2.0	0.11	125.000	12.6548	77.3	53 - 126			
Lead	90.7563	1.0	0.11	125.000	16.6774	59.3	34 - 129			
Molybdenum	78.1069	1.0	0.13	125.000	ND	62.5	57 - 105			
Nickel	86.3464	1.0	0.10	125.000	11.1967	60.1	49 - 109			
Selenium	78.2716	1.0	0.88	125.000	ND	62.6	57 - 99			
Silver	91.3550	1.0	0.04	125.000	ND	73.1	64 - 105			
Thallium	74.8711	1.0	0.42	125.000	ND	59.9	46 - 105			
Vanadium	109.416	1.0	0.19	125.000	25.0121	67.5	60 - 109			
Zinc	116.852	1.0	0.18	125.000	38.8452	62.4	29 - 122			
Matrix Spike Dup (B7D0535-MSD1)			**Source: 1701566-38**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Antimony	52.3305	2.0	0.32	125.000	ND	41.9	34 - 103	21.7	20	R
Arsenic	67.3304	1.0	0.70	125.000	2.29439	52.0	59 - 103	19.9	20	M1
Barium	142.486	1.0	0.10	125.000	70.5851	57.5	30 - 134	9.34	20	
Beryllium	69.1006	1.0	0.04	125.000	ND	55.3	62 - 105	21.1	20	M1, R
Cadmium	67.1150	1.0	0.09	125.000	0.110102	53.6	53 - 102	15.9	20	
Chromium	86.0042	1.0	0.12	125.000	11.4407	59.7	51 - 111	9.60	20	
Cobalt	69.9930	1.0	0.10	125.000	6.06400	51.1	55 - 105	17.6	20	M1
Copper	89.7430	2.0	0.11	125.000	12.6548	61.7	53 - 126	19.7	20	
Lead	76.7048	1.0	0.11	125.000	16.6774	48.0	34 - 129	16.8	20	
Molybdenum	64.8630	1.0	0.13	125.000	ND	51.9	57 - 105	18.5	20	M1
Nickel	73.8502	1.0	0.10	125.000	11.1967	50.1	49 - 109	15.6	20	
Selenium	64.1899	1.0	0.88	125.000	ND	51.4	57 - 99	19.8	20	M1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0535 - EPA 3050B_S (continued)										
Matrix Spike Dup (B7D0535-MSD1) - Continued			**Source: 1701566-38**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Silver	78.7722	1.0	0.04	125.000	ND	63.0	64 - 105	14.8	20	M1
Thallium	63.9610	1.0	0.42	125.000	ND	51.2	46 - 105	15.7	20	
Vanadium	92.6960	1.0	0.19	125.000	25.0121	54.1	60 - 109	16.5	20	M1
Zinc	98.7486	1.0	0.18	125.000	38.8452	47.9	29 - 122	16.8	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0537 - EPA 7471_S										
Blank (B7D0537-BLK1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Mercury	ND	0.10	0.005							
LCS (B7D0537-BS1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Mercury	0.758226	0.10	0.005	0.833333		91.0	80 - 120			
Duplicate (B7D0537-DUP1)			**Source: 1701566-38**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Mercury	0.048109	0.10	0.005		0.053844			11.3	20	J
Matrix Spike (B7D0537-MS1)			**Source: 1701566-38**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Mercury	0.926889	0.10	0.005	0.833333	0.053844	105	70 - 130			
Matrix Spike Dup (B7D0537-MSD1)			**Source: 1701566-38**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Mercury	0.976224	0.10	0.005	0.833333	0.053844	111	70 - 130	5.18	20	
Post Spike (B7D0537-PS1)			**Source: 1701566-38**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Mercury	0.005554			5.00000E-3	0.000646	98.2	85 - 115			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0465 - GCVOA_S										
Blank (B7D0465-BLK1)					Prepared: 4/18/2017 Analyzed: 4/18/2017					
Gasoline Range Organics	ND	1.0	0.20							
C6-C12	ND	1.0	0.20							
Surrogate: 4-Bromofluorobenzene	*0.1772*			*0.200000*		*88.6*	*36 - 125*			
LCS (B7D0465-BS1)					Prepared: 4/18/2017 Analyzed: 4/18/2017					
Gasoline Range Organics	5.63500	1.0	0.20	5.00000		113	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.1949*			*0.200000*		*97.4*	*36 - 125*			
Duplicate (B7D0465-DUP1)			**Source: 1701566-38**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Gasoline Range Organics	0.705000	1.0	0.20		0.722000			2.38	20	J
Surrogate: 4-Bromofluorobenzene	*0.1901*			*0.200000*		*95.1*	*36 - 125*			
Matrix Spike (B7D0465-MS1)			**Source: 1701566-38**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Gasoline Range Organics	3.73400	1.0	0.20	5.00000	0.722000	60.2	32 - 161			
Surrogate: 4-Bromofluorobenzene	*0.1785*			*0.200000*		*89.2*	*36 - 125*			
Matrix Spike Dup (B7D0465-MSD1)			**Source: 1701566-38**		Prepared: 4/18/2017 Analyzed: 4/18/2017					
Gasoline Range Organics	3.61000	1.0	0.20	5.00000	0.722000	57.8	32 - 161	3.38	20	
Surrogate: 4-Bromofluorobenzene	*0.1989*			*0.200000*		*99.4*	*36 - 125*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0439 - GCSEMI_DRO_LL_S										
Blank (B7D0439-BLK1)						Prepared: 4/14/2017 Analyzed: 4/18/2017				
DRO	ND	1.0	1.0							
ORO	ND	1.0	1.0							
Surrogate: p-Terphenyl	*2.568*			*2.66667*		*96.3*	*18 - 130*			
LCS (B7D0439-BS1)						Prepared: 4/14/2017 Analyzed: 4/18/2017				
DRO	26.9620	1.0	1.0	33.3333		80.9	34 - 120			
Surrogate: p-Terphenyl	*2.543*			*2.66667*		*95.4*	*18 - 130*			
Duplicate (B7D0439-DUP1)			**Source: 1701566-38**			Prepared: 4/14/2017 Analyzed: 4/19/2017				
DRO	532.553	20	20		323.053			49.0	20	R2
Surrogate: p-Terphenyl	*0.000*			*2.66667*		*NR*	*18 - 130*			S4
Matrix Spike (B7D0439-MS1)			**Source: 1701566-38**			Prepared: 4/14/2017 Analyzed: 4/19/2017				
DRO	566.307	20	20	33.3333	323.053	730	12 - 132			M2
Surrogate: p-Terphenyl	*0.000*			*2.66667*		*NR*	*18 - 130*			S4
Matrix Spike Dup (B7D0439-MSD1)			**Source: 1701566-38**			Prepared: 4/14/2017 Analyzed: 4/19/2017				
DRO	551.720	20	20	33.3333	323.053	686	12 - 132	2.61	20	M2
Surrogate: p-Terphenyl	*0.000*			*2.66667*		*NR*	*18 - 130*			S4

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0426 - GCSEMI_PCB/PEST_S										
Blank (B7D0426-BLK1)							Prepared: 4/14/2017 Analyzed: 4/17/2017			
4,4´-DDD	ND	2.0	0.22							
4,4´-DDD [2C]	ND	2.0	0.22							
4,4´-DDE	ND	2.0	0.20							
4,4´-DDE [2C]	ND	2.0	0.20							
4,4´-DDT	ND	2.0	0.13							
4,4´-DDT [2C]	ND	2.0	0.13							
Aldrin	ND	1.0	0.27							
Aldrin [2C]	ND	1.0	0.27							
alpha-BHC	ND	1.0	0.20							
alpha-BHC [2C]	ND	1.0	0.20							
alpha-Chlordane	ND	1.0	0.21							
alpha-Chlordane [2C]	ND	1.0	0.21							
beta-BHC	ND	1.0	0.23							
beta-BHC [2C]	ND	1.0	0.23							
Chlordane	ND	8.5	0.90							
Chlordane [2C]	ND	8.5	0.90							
delta-BHC	ND	1.0	0.21							
delta-BHC [2C]	ND	1.0	0.21							
Dieldrin	ND	2.0	0.25							
Dieldrin [2C]	ND	2.0	0.25							
Endosulfan I	ND	1.0	0.21							
Endosulfan I [2C]	ND	1.0	0.21							
Endosulfan II	ND	2.0	0.22							
Endosulfan II [2C]	ND	2.0	0.22							
Endosulfan sulfate	ND	2.0	0.21							
Endosulfan Sulfate [2C]	ND	2.0	0.21							
Endrin	ND	2.0	0.23							
Endrin [2C]	ND	2.0	0.23							
Endrin aldehyde	ND	2.0	0.28							
Endrin aldehyde [2C]	ND	2.0	0.28							
Endrin ketone	ND	2.0	0.20							
Endrin ketone [2C]	ND	2.0	0.20							
gamma-BHC	ND	1.0	0.20							
gamma-BHC [2C]	ND	1.0	0.20							
gamma-Chlordane	ND	1.0	0.23							
gamma-Chlordane [2C]	ND	1.0	0.23							
Heptachlor	ND	1.0	0.19							
Heptachlor [2C]	ND	1.0	0.19							
Heptachlor epoxide	ND	1.0	0.20							
Heptachlor epoxide [2C]	ND	1.0	0.20							
Methoxychlor	ND	5.0	0.18							

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0426 - GCSEMI_PCB/PEST_S (continued)										
Blank (B7D0426-BLK1) - Continued					Prepared: 4/14/2017 Analyzed: 4/17/2017					
Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	8.2							
Toxaphene [2C]	ND	50	8.2							
Surrogate: Decachlorobiphenyl	*12.15*			*16.6667*		*72.9*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2	*12.30*			*16.6667*		*73.8*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*15.01*			*16.6667*		*90.1*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [	*15.10*			*16.6667*		*90.6*	*26 - 108*			
LCS (B7D0426-BS1)					Prepared: 4/14/2017 Analyzed: 4/17/2017					
4,4´-DDD	15.7835	2.0	0.22	16.6667		94.7	53 - 125			
4,4´-DDD [2C]	16.4917	2.0	0.22	16.6667		99.0	53 - 125			
4,4´-DDE	16.2935	2.0	0.20	16.6667		97.8	54 - 113			
4,4´-DDE [2C]	14.3695	2.0	0.20	16.6667		86.2	54 - 113			
4,4´-DDT	14.8480	2.0	0.13	16.6667		89.1	25 - 127			
4,4´-DDT [2C]	16.3647	2.0	0.13	16.6667		98.2	25 - 127			
Aldrin	16.2392	1.0	0.27	16.6667		97.4	59 - 107			
Aldrin [2C]	15.7210	1.0	0.27	16.6667		94.3	59 - 107			
alpha-BHC	16.5517	1.0	0.20	16.6667		99.3	59 - 104			
alpha-BHC [2C]	16.2627	1.0	0.20	16.6667		97.6	59 - 104			
alpha-Chlordane	16.9882	1.0	0.21	16.6667		102	54 - 110			
alpha-Chlordane [2C]	16.2660	1.0	0.21	16.6667		97.6	54 - 110			
beta-BHC	16.4027	1.0	0.23	16.6667		98.4	57 - 103			
beta-BHC [2C]	15.6707	1.0	0.23	16.6667		94.0	57 - 103			
delta-BHC	15.7592	1.0	0.21	16.6667		94.6	16 - 120			
delta-BHC [2C]	15.8637	1.0	0.21	16.6667		95.2	16 - 120			
Dieldrin	16.9317	2.0	0.25	16.6667		102	61 - 109			
Dieldrin [2C]	15.6850	2.0	0.25	16.6667		94.1	61 - 109			
Endosulfan I	16.4617	1.0	0.21	16.6667		98.8	60 - 106			
Endosulfan I [2C]	17.0247	1.0	0.21	16.6667		102	60 - 106			
Endosulfan II	18.6303	2.0	0.22	16.6667		112	59 - 108			L3
Endosulfan II [2C]	16.8212	2.0	0.22	16.6667		101	59 - 108			
Endosulfan sulfate	16.5657	2.0	0.21	16.6667		99.4	54 - 110			
Endosulfan Sulfate [2C]	16.1845	2.0	0.21	16.6667		97.1	54 - 110			
Endrin	17.7447	2.0	0.23	16.6667		106	63 - 112			
Endrin [2C]	17.7043	2.0	0.23	16.6667		106	63 - 112			
Endrin aldehyde	16.6300	2.0	0.28	16.6667		99.8	64 - 119			
Endrin aldehyde [2C]	16.2312	2.0	0.28	16.6667		97.4	64 - 119			
Endrin ketone	15.5378	2.0	0.20	16.6667		93.2	54 - 115			
Endrin ketone [2C]	15.4843	2.0	0.20	16.6667		92.9	54 - 115			
gamma-BHC	16.2885	1.0	0.20	16.6667		97.7	60 - 107			
gamma-BHC [2C]	16.1593	1.0	0.20	16.6667		97.0	60 - 107			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0426 - GCSEMI_PCB/PEST_S (continued)										
LCS (B7D0426-BS1) - Continued						Prepared: 4/14/2017 Analyzed: 4/17/2017				
gamma-Chlordane	16.4947	1.0	0.23	16.6667		99.0	57 - 106			
gamma-Chlordane [2C]	15.9988	1.0	0.23	16.6667		96.0	57 - 106			
Heptachlor	16.8713	1.0	0.19	16.6667		101	54 - 114			
Heptachlor [2C]	16.3550	1.0	0.19	16.6667		98.1	54 - 114			
Heptachlor epoxide	15.6200	1.0	0.20	16.6667		93.7	61 - 106			
Heptachlor epoxide [2C]	15.2282	1.0	0.20	16.6667		91.4	61 - 106			
Methoxychlor	15.2128	5.0	0.18	16.6667		91.3	18 - 138			
Methoxychlor [2C]	17.1605	5.0	0.18	16.6667		103	18 - 138			
Surrogate: Decachlorobiphenyl	*15.81*			*16.6667*		*94.8*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2	*16.47*			*16.6667*		*98.8*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*16.57*			*16.6667*		*99.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [	*17.37*			*16.6667*		*104*	*26 - 108*			
Duplicate (B7D0426-DUP1)			**Source: 1701566-38**			Prepared: 4/14/2017 Analyzed: 4/17/2017				
4,4´-DDD	0.456333	2.0	0.22		0.527333			14.4	20	J
4,4´-DDD [2C]	0.451833	2.0	0.22		0.548667			19.4	20	J
4,4´-DDE	2.60133	2.0	0.20		2.86250			9.56	20	
4,4´-DDE [2C]	2.07700	2.0	0.20		2.33800			11.8	20	
4,4´-DDT	2.07983	2.0	0.13		2.31900			10.9	20	
4,4´-DDT [2C]	2.02100	2.0	0.13		2.17667			7.42	20	
Aldrin	ND	1.0	0.27		ND				20	
Aldrin [2C]	ND	1.0	0.27		ND				20	
alpha-BHC	ND	1.0	0.20		ND				20	
alpha-BHC [2C]	ND	1.0	0.20		ND				20	
alpha-Chlordane	ND	1.0	0.21		ND				20	
alpha-Chlordane [2C]	ND	1.0	0.21		ND				20	
beta-BHC	ND	1.0	0.23		ND				20	
beta-BHC [2C]	ND	1.0	0.23		ND				20	
delta-BHC	ND	1.0	0.21		ND				20	
delta-BHC [2C]	ND	1.0	0.21		ND				20	
Dieldrin	ND	2.0	0.25		ND				20	
Dieldrin [2C]	ND	2.0	0.25		ND				20	
Endosulfan I	ND	1.0	0.21		ND				20	
Endosulfan I [2C]	ND	1.0	0.21		ND				20	
Endosulfan II	ND	2.0	0.22		ND				20	
Endosulfan II [2C]	ND	2.0	0.22		ND				20	
Endosulfan sulfate	ND	2.0	0.21		ND				20	
Endosulfan Sulfate [2C]	ND	2.0	0.21		ND				20	
Endrin	ND	2.0	0.23		ND				20	
Endrin [2C]	ND	2.0	0.23		ND				20	
Endrin aldehyde	ND	2.0	0.28		ND				20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS-LAUSD, 603378.006
Report To : Julie Harriman
Reported : 04/24/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0426 - GCSEMI_PCB/PEST_S (continued)										
Duplicate (B7D0426-DUP1) - Continued			**Source: 1701566-38**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Endrin aldehyde [2C]	ND	2.0	0.28		ND				20	
Endrin ketone	ND	2.0	0.20		ND				20	
Endrin ketone [2C]	ND	2.0	0.20		ND				20	
gamma-BHC	ND	1.0	0.20		ND				20	
gamma-BHC [2C]	ND	1.0	0.20		ND				20	
gamma-Chlordane	ND	1.0	0.23		ND				20	
gamma-Chlordane [2C]	ND	1.0	0.23		ND				20	
Heptachlor	ND	1.0	0.19		ND				20	
Heptachlor [2C]	ND	1.0	0.19		ND				20	
Heptachlor epoxide	ND	1.0	0.20		ND				20	
Heptachlor epoxide [2C]	ND	1.0	0.20		ND				20	
Methoxychlor	ND	5.0	0.18		ND				20	
Methoxychlor [2C]	ND	5.0	0.18		ND				20	
Surrogate: Decachlorobiphenyl	*4.426*			*16.6667*		*26.6*	*27 - 123*			S13
Surrogate: Decachlorobiphenyl [2	*2.961*			*16.6667*		*17.8*	*27 - 123*			S13
Surrogate: Tetrachloro-m-xylene	*3.873*			*16.6667*		*23.2*	*26 - 108*			S13
Surrogate: Tetrachloro-m-xylene [	*3.283*			*16.6667*		*19.7*	*26 - 108*			S13
Matrix Spike (B7D0426-MS1)			**Source: 1701572-02**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
4,4´-DDD	11.6982	2.0	0.22	16.6667	2.36900	56.0	25 - 141			
4,4´-DDD [2C]	11.1825	2.0	0.22	16.6667	2.20233	53.9	25 - 141			
4,4´-DDE	17.6425	2.0	0.20	16.6667	5.54850	72.6	22 - 141			
4,4´-DDE [2C]	15.7603	2.0	0.20	16.6667	5.17350	63.5	22 - 141			
4,4´-DDT	12.0813	2.0	0.13	16.6667	0.281833	70.8	15 - 136			
4,4´-DDT [2C]	11.9882	2.0	0.13	16.6667	0.359667	69.8	15 - 136			
Aldrin	10.9267	1.0	0.27	16.6667	ND	65.6	33 - 118			
Aldrin [2C]	10.5145	1.0	0.27	16.6667	ND	63.1	33 - 118			
alpha-BHC	8.79867	1.0	0.20	16.6667	ND	52.8	30 - 116			
alpha-BHC [2C]	8.53033	1.0	0.20	16.6667	ND	51.2	30 - 116			
alpha-Chlordane	9.86267	1.0	0.21	16.6667	ND	59.2	30 - 123			
alpha-Chlordane [2C]	9.14583	1.0	0.21	16.6667	ND	54.9	30 - 123			
beta-BHC	5.59283	1.0	0.23	16.6667	ND	33.6	24 - 121			
beta-BHC [2C]	5.46300	1.0	0.23	16.6667	ND	32.8	24 - 121			
delta-BHC	3.49317	1.0	0.21	16.6667	ND	21.0	7 - 120			
delta-BHC [2C]	3.49367	1.0	0.21	16.6667	ND	21.0	7 - 120			
Dieldrin	3.99667	2.0	0.25	16.6667	ND	24.0	25 - 136			M2
Dieldrin [2C]	3.61700	2.0	0.25	16.6667	ND	21.7	25 - 136			M2
Endosulfan I	4.99483	1.0	0.21	16.6667	ND	30.0	18 - 134			
Endosulfan I [2C]	5.07167	1.0	0.21	16.6667	ND	30.4	18 - 134			
Endosulfan II	2.24000	2.0	0.22	16.6667	ND	13.4	28 - 128			M2
Endosulfan II [2C]	1.73283	2.0	0.22	16.6667	ND	10.4	28 - 128			M2, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0426 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike (B7D0426-MS1) - Continued			**Source: 1701572-02**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Endosulfan sulfate	1.43567	2.0	0.21	16.6667	ND	8.61	5 - 145			J
Endosulfan Sulfate [2C]	1.28967	2.0	0.21	16.6667	ND	7.74	5 - 145			J
Endrin	4.25383	2.0	0.23	16.6667	ND	25.5	26 - 142			M2
Endrin [2C]	4.04983	2.0	0.23	16.6667	ND	24.3	26 - 142			M2
Endrin aldehyde	1.42000	2.0	0.28	16.6667	ND	8.52	8 - 146			J
Endrin aldehyde [2C]	1.30950	2.0	0.28	16.6667	ND	7.86	8 - 146			M2, J
Endrin ketone	1.33983	2.0	0.20	16.6667	ND	8.04	16 - 139			M2, J
Endrin ketone [2C]	1.23717	2.0	0.20	16.6667	ND	7.42	16 - 139			M2, J
gamma-BHC	7.54650	1.0	0.20	16.6667	ND	45.3	30 - 122			
gamma-BHC [2C]	7.39733	1.0	0.20	16.6667	ND	44.4	30 - 122			
gamma-Chlordane	15.0507	1.0	0.23	16.6667	ND	90.3	18 - 132			
gamma-Chlordane [2C]	8.48367	1.0	0.23	16.6667	ND	50.9	18 - 132			
Heptachlor	11.1077	1.0	0.19	16.6667	ND	66.6	34 - 122			
Heptachlor [2C]	10.8563	1.0	0.19	16.6667	ND	65.1	34 - 122			
Heptachlor epoxide	5.58433	1.0	0.20	16.6667	ND	33.5	21 - 135			
Heptachlor epoxide [2C]	5.54967	1.0	0.20	16.6667	ND	33.3	21 - 135			
Methoxychlor	2.50483	5.0	0.18	16.6667	ND	15.0	8 - 162			J
Methoxychlor [2C]	2.48250	5.0	0.18	16.6667	ND	14.9	8 - 162			J
Surrogate: Decachlorobiphenyl	*9.956*			*16.6667*		*59.7*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2	*9.665*			*16.6667*		*58.0*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*11.07*			*16.6667*		*66.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [	*11.19*			*16.6667*		*67.2*	*26 - 108*			
Matrix Spike (B7D0426-MS2)			**Source: 1701566-38**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
4,4´-DDD	4.29117	2.0	0.22	16.6667	0.527333	22.6	25 - 141			M2
4,4´-DDD [2C]	4.36067	2.0	0.22	16.6667	0.548667	22.9	25 - 141			M2
4,4´-DDE	8.98233	2.0	0.20	16.6667	2.86250	36.7	22 - 141			
4,4´-DDE [2C]	8.29550	2.0	0.20	16.6667	2.33800	35.7	22 - 141			
4,4´-DDT	10.0042	2.0	0.13	16.6667	2.31900	46.1	15 - 136			
4,4´-DDT [2C]	9.38400	2.0	0.13	16.6667	2.17667	43.2	15 - 136			
Aldrin	5.79900	1.0	0.27	16.6667	ND	34.8	33 - 118			
Aldrin [2C]	5.83067	1.0	0.27	16.6667	ND	35.0	33 - 118			
alpha-BHC	4.36383	1.0	0.20	16.6667	ND	26.2	30 - 116			M2
alpha-BHC [2C]	4.63867	1.0	0.20	16.6667	ND	27.8	30 - 116			M2
alpha-Chlordane	5.13883	1.0	0.21	16.6667	ND	30.8	30 - 123			
alpha-Chlordane [2C]	5.37000	1.0	0.21	16.6667	ND	32.2	30 - 123			
beta-BHC	2.08250	1.0	0.23	16.6667	ND	12.5	24 - 121			M2
beta-BHC [2C]	1.72433	1.0	0.23	16.6667	ND	10.3	24 - 121			M2
delta-BHC	2.39183	1.0	0.21	16.6667	ND	14.4	7 - 120			
delta-BHC [2C]	1.83533	1.0	0.21	16.6667	ND	11.0	7 - 120			
Dieldrin	3.37250	2.0	0.25	16.6667	ND	20.2	25 - 136			M2

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0426 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike (B7D0426-MS2) - Continued			**Source: 1701566-38**			Prepared: 4/14/2017 Analyzed: 4/17/2017				
Dieldrin [2C]	2.82483	2.0	0.25	16.6667	ND	16.9	25 - 136			M2
Endosulfan I	3.28500	1.0	0.21	16.6667	ND	19.7	18 - 134			
Endosulfan I [2C]	2.62050	1.0	0.21	16.6667	ND	15.7	18 - 134			M2
Endosulfan II	1.87017	2.0	0.22	16.6667	ND	11.2	28 - 128			M2, J
Endosulfan II [2C]	1.70600	2.0	0.22	16.6667	ND	10.2	28 - 128			M2, J
Endosulfan sulfate	1.75300	2.0	0.21	16.6667	ND	10.5	5 - 145			J
Endosulfan Sulfate [2C]	1.40283	2.0	0.21	16.6667	ND	8.42	5 - 145			J
Endrin	3.27433	2.0	0.23	16.6667	ND	19.6	26 - 142			M2
Endrin [2C]	3.01667	2.0	0.23	16.6667	ND	18.1	26 - 142			M2
Endrin aldehyde	1.98900	2.0	0.28	16.6667	ND	11.9	8 - 146			J
Endrin aldehyde [2C]	1.66133	2.0	0.28	16.6667	ND	9.97	8 - 146			J
Endrin ketone	1.43950	2.0	0.20	16.6667	ND	8.64	16 - 139			M2, J
Endrin ketone [2C]	1.31167	2.0	0.20	16.6667	ND	7.87	16 - 139			M2, J
gamma-BHC	3.91667	1.0	0.20	16.6667	ND	23.5	30 - 122			M2
gamma-BHC [2C]	3.54383	1.0	0.20	16.6667	ND	21.3	30 - 122			M2
gamma-Chlordane	51.5935	1.0	0.23	16.6667	ND	310	18 - 132			M2
gamma-Chlordane [2C]	6.07367	1.0	0.23	16.6667	ND	36.4	18 - 132			
Heptachlor	6.42850	1.0	0.19	16.6667	ND	38.6	34 - 122			
Heptachlor [2C]	5.89600	1.0	0.19	16.6667	ND	35.4	34 - 122			
Heptachlor epoxide	4.72733	1.0	0.20	16.6667	ND	28.4	21 - 135			
Heptachlor epoxide [2C]	3.06733	1.0	0.20	16.6667	ND	18.4	21 - 135			M2
Methoxychlor	2.60533	5.0	0.18	16.6667	ND	15.6	8 - 162			J
Methoxychlor [2C]	2.88633	5.0	0.18	16.6667	ND	17.3	8 - 162			J
Surrogate: Decachlorobiphenyl	*6.496*			*16.6667*		*39.0*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2	*6.691*			*16.6667*		*40.1*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*6.532*			*16.6667*		*39.2*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [	*6.267*			*16.6667*		*37.6*	*26 - 108*			
Matrix Spike Dup (B7D0426-MSD1)			**Source: 1701572-02**			Prepared: 4/14/2017 Analyzed: 4/17/2017				
4,4´-DDD	7.52467	2.0	0.22	16.6667	2.36900	30.9	25 - 141	43.4	20	R3
4,4´-DDD [2C]	7.54633	2.0	0.22	16.6667	2.20233	32.1	25 - 141	38.8	20	R3
4,4´-DDE	14.9440	2.0	0.20	16.6667	5.54850	56.4	22 - 141	16.6	20	
4,4´-DDE [2C]	14.1523	2.0	0.20	16.6667	5.17350	53.9	22 - 141	10.8	20	
4,4´-DDT	9.07467	2.0	0.13	16.6667	0.281833	52.8	15 - 136	28.4	20	R3
4,4´-DDT [2C]	9.24767	2.0	0.13	16.6667	0.359667	53.3	15 - 136	25.8	20	R3
Aldrin	9.23350	1.0	0.27	16.6667	ND	55.4	33 - 118	16.8	20	
Aldrin [2C]	9.77467	1.0	0.27	16.6667	ND	58.6	33 - 118	7.29	20	
alpha-BHC	6.01750	1.0	0.20	16.6667	ND	36.1	30 - 116	37.5	20	R3
alpha-BHC [2C]	6.06617	1.0	0.20	16.6667	ND	36.4	30 - 116	33.8	20	R3
alpha-Chlordane	6.95700	1.0	0.21	16.6667	ND	41.7	30 - 123	34.6	20	R3
alpha-Chlordane [2C]	6.80267	1.0	0.21	16.6667	ND	40.8	30 - 123	29.4	20	R3

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0426 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B7D0426-MSD1) - Continued			**Source: 1701572-02**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
beta-BHC	2.77517	1.0	0.23	16.6667	ND	16.7	24 - 121	67.3	20	M2, R3
beta-BHC [2C]	3.86067	1.0	0.23	16.6667	ND	23.2	24 - 121	34.4	20	M2, R3
delta-BHC	1.37900	1.0	0.21	16.6667	ND	8.27	7 - 120	86.8	20	R3
delta-BHC [2C]	1.53617	1.0	0.21	16.6667	ND	9.22	7 - 120	77.8	20	R3
Dieldrin	1.67933	2.0	0.25	16.6667	ND	10.1	25 - 136	81.7	20	M2, R3, J
Dieldrin [2C]	1.47383	2.0	0.25	16.6667	ND	8.84	25 - 136	84.2	20	M2, R3, J
Endosulfan I	2.19583	1.0	0.21	16.6667	ND	13.2	18 - 134	77.9	20	M2, R3
Endosulfan I [2C]	2.52050	1.0	0.21	16.6667	ND	15.1	18 - 134	67.2	20	M2, R3
Endosulfan II	0.854333	2.0	0.22	16.6667	ND	5.13	28 - 128	89.6	20	M2, R3, J
Endosulfan II [2C]	0.591333	2.0	0.22	16.6667	ND	3.55	28 - 128	98.2	20	M2, R3, J
Endosulfan sulfate	0.462833	2.0	0.21	16.6667	ND	2.78	5 - 145	102	20	M2, R3, J
Endosulfan Sulfate [2C]	0.447000	2.0	0.21	16.6667	ND	2.68	5 - 145	97.0	20	M2, R3, J
Endrin	1.67483	2.0	0.23	16.6667	ND	10.0	26 - 142	87.0	20	M2, R3, J
Endrin [2C]	1.62217	2.0	0.23	16.6667	ND	9.73	26 - 142	85.6	20	M2, R3, J
Endrin aldehyde	0.464333	2.0	0.28	16.6667	ND	2.79	8 - 146	101	20	M2, R3, J
Endrin aldehyde [2C]	0.436167	2.0	0.28	16.6667	ND	2.62	8 - 146	100	20	M2, R3, J
Endrin ketone	0.412167	2.0	0.20	16.6667	ND	2.47	16 - 139	106	20	M2, R3, J
Endrin ketone [2C]	0.396833	2.0	0.20	16.6667	ND	2.38	16 - 139	103	20	M2, R3, J
gamma-BHC	4.48300	1.0	0.20	16.6667	ND	26.9	30 - 122	50.9	20	M2, R3
gamma-BHC [2C]	5.21417	1.0	0.20	16.6667	ND	31.3	30 - 122	34.6	20	R3
gamma-Chlordane	12.9673	1.0	0.23	16.6667	ND	77.8	18 - 132	14.9	20	
gamma-Chlordane [2C]	5.93700	1.0	0.23	16.6667	ND	35.6	18 - 132	35.3	20	R3
Heptachlor	9.18083	1.0	0.19	16.6667	ND	55.1	34 - 122	19.0	20	
Heptachlor [2C]	9.55117	1.0	0.19	16.6667	ND	57.3	34 - 122	12.8	20	
Heptachlor epoxide	2.68450	1.0	0.20	16.6667	ND	16.1	21 - 135	70.1	20	M2, R3
Heptachlor epoxide [2C]	2.84667	1.0	0.20	16.6667	ND	17.1	21 - 135	64.4	20	M2, R3
Methoxychlor	0.906333	5.0	0.18	16.6667	ND	5.44	8 - 162	93.7	20	M2, R3, J
Methoxychlor [2C]	0.971000	5.0	0.18	16.6667	ND	5.83	8 - 162	87.5	20	M2, R3, J
Surrogate: Decachlorobiphenyl	*8.765*			*16.6667*		*52.6*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2	*8.922*			*16.6667*		*53.5*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*9.234*			*16.6667*		*55.4*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [	*10.06*			*16.6667*		*60.4*	*26 - 108*			
Matrix Spike Dup (B7D0426-MSD2)			**Source: 1701566-38**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
4,4´-DDD	5.34667	2.0	0.22	16.6667	0.527333	28.9	25 - 141	21.9	20	R3
4,4´-DDD [2C]	5.39417	2.0	0.22	16.6667	0.548667	29.1	25 - 141	21.2	20	R3
4,4´-DDE	10.1767	2.0	0.20	16.6667	2.86250	43.9	22 - 141	12.5	20	
4,4´-DDE [2C]	9.30133	2.0	0.20	16.6667	2.33800	41.8	22 - 141	11.4	20	
4,4´-DDT	9.53200	2.0	0.13	16.6667	2.31900	43.3	15 - 136	4.83	20	
4,4´-DDT [2C]	9.07833	2.0	0.13	16.6667	2.17667	41.4	15 - 136	3.31	20	
Aldrin	6.67517	1.0	0.27	16.6667	ND	40.1	33 - 118	14.0	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0426 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B7D0426-MSD2) - Continued			**Source: 1701566-38**		Prepared: 4/14/2017 Analyzed: 4/17/2017					
Aldrin [2C]	6.71583	1.0	0.27	16.6667	ND	40.3	33 - 118	14.1	20	
alpha-BHC	5.32250	1.0	0.20	16.6667	ND	31.9	30 - 116	19.8	20	
alpha-BHC [2C]	5.35750	1.0	0.20	16.6667	ND	32.1	30 - 116	14.4	20	
alpha-Chlordane	5.78117	1.0	0.21	16.6667	ND	34.7	30 - 123	11.8	20	
alpha-Chlordane [2C]	6.00733	1.0	0.21	16.6667	ND	36.0	30 - 123	11.2	20	
beta-BHC	2.36100	1.0	0.23	16.6667	ND	14.2	24 - 121	12.5	20	M2
beta-BHC [2C]	2.29833	1.0	0.23	16.6667	ND	13.8	24 - 121	28.5	20	M2, R3
delta-BHC	2.71650	1.0	0.21	16.6667	ND	16.3	7 - 120	12.7	20	
delta-BHC [2C]	2.11300	1.0	0.21	16.6667	ND	12.7	7 - 120	14.1	20	
Dieldrin	3.51300	2.0	0.25	16.6667	ND	21.1	25 - 136	4.08	20	M2
Dieldrin [2C]	3.03533	2.0	0.25	16.6667	ND	18.2	25 - 136	7.18	20	M2
Endosulfan I	3.63067	1.0	0.21	16.6667	ND	21.8	18 - 134	10.0	20	
Endosulfan I [2C]	3.31367	1.0	0.21	16.6667	ND	19.9	18 - 134	23.4	20	R3
Endosulfan II	1.95767	2.0	0.22	16.6667	ND	11.7	28 - 128	4.57	20	M2, J
Endosulfan II [2C]	1.92433	2.0	0.22	16.6667	ND	11.5	28 - 128	12.0	20	M2, J
Endosulfan sulfate	1.96917	2.0	0.21	16.6667	ND	11.8	5 - 145	11.6	20	J
Endosulfan Sulfate [2C]	2.14283	2.0	0.21	16.6667	ND	12.9	5 - 145	41.7	20	R3
Endrin	3.36717	2.0	0.23	16.6667	ND	20.2	26 - 142	2.80	20	M2
Endrin [2C]	3.31267	2.0	0.23	16.6667	ND	19.9	26 - 142	9.35	20	M2
Endrin aldehyde	1.99000	2.0	0.28	16.6667	ND	11.9	8 - 146	0.0503	20	J
Endrin aldehyde [2C]	1.62450	2.0	0.28	16.6667	ND	9.75	8 - 146	2.24	20	J
Endrin ketone	1.46050	2.0	0.20	16.6667	ND	8.76	16 - 139	1.45	20	M2, J
Endrin ketone [2C]	1.37783	2.0	0.20	16.6667	ND	8.27	16 - 139	4.92	20	M2, J
gamma-BHC	4.56383	1.0	0.20	16.6667	ND	27.4	30 - 122	15.3	20	M2
gamma-BHC [2C]	4.13450	1.0	0.20	16.6667	ND	24.8	30 - 122	15.4	20	M2
gamma-Chlordane	68.9985	1.0	0.23	16.6667	ND	414	18 - 132	28.9	20	M2, R3
gamma-Chlordane [2C]	6.78200	1.0	0.23	16.6667	ND	40.7	18 - 132	11.0	20	
Heptachlor	7.44217	1.0	0.19	16.6667	ND	44.7	34 - 122	14.6	20	
Heptachlor [2C]	6.69417	1.0	0.19	16.6667	ND	40.2	34 - 122	12.7	20	
Heptachlor epoxide	3.68917	1.0	0.20	16.6667	ND	22.1	21 - 135	24.7	20	R3
Heptachlor epoxide [2C]	3.43717	1.0	0.20	16.6667	ND	20.6	21 - 135	11.4	20	M2
Methoxychlor	3.72500	5.0	0.18	16.6667	ND	22.4	8 - 162	35.4	20	R3, J
Methoxychlor [2C]	2.76600	5.0	0.18	16.6667	ND	16.6	8 - 162	4.26	20	J
Surrogate: Decachlorobiphenyl	*9.238*			*16.6667*		*55.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [2	*7.769*			*16.6667*		*46.6*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*8.130*			*16.6667*		*48.8*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene [	*7.092*			*16.6667*		*42.6*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Notes and Definitions

S4	Surrogate was diluted out.
S13	Surrogate recovery was below laboratory acceptance limit. Sample reanalysis showed the same low recovery.
R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
R2	RPD value outside acceptance criteria due to possible matrix interference.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L3	Laboratory control sample outside in-house established limits but within method criteria.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 4

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☐	☑	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	5.6	
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc. (LCI)	Address: 17781 Cowan		Tel: 949-250-1421
	City: Irvine	State: CA Zip: 92614	Fax: 949-250-1114

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Julie Harriman	Attn: Accounts Payable
Email: jharriman@leightongroup.com	Email: acctpayable@leightongroup.com
Company: LCI	Company: Leighton
Address: 17781 Cowan	Address: 17781 Cowan
City: Irvine State: CA Zip: 92614	City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS - LAUSD
Project No.: 603378-006
Sampler: W. Scomers
Quote No: —
PO #: —
Special Instructions/Comments: —

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	LUFT 5 Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	QA/QC / REMARKS
1	1701566-1	EBS-4-NS-0.5	4-11-17	1300									X	X					5	1	5	1	-	
2	-2	EBS-4-NS-1.5		1304																				
3	-3	EBS-4-NS-2.5		1305																				
4	-4	EBS-4-N10-0.5		1310																				
5	-5	EBS-4-N10-1.5		1312																				
6	-6	EBS-4-N10-2.5		1315																				
7	-7	EBS-4-S7.5-0.5 WBS 4-11-17		1255																				
8	-8	EBS-4-S7.5-~~0.5~~ 1.5		1257																				
9	-9	EBS-4-S7.5-2.5		1259																				
10	-10	EBS-3-ES-0.5		1324																				

Encircle or Write Requested Analysis

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal | Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scomers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
W. Wallace Scomers	4/13/17	15:23	Erick Franco	4/13/17	15:23
Erick Franco	4/13/17	17:07	MPL CR	4/13/17	1707
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 4

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State: Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address: See Page #1
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	LUFT Metals	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1701566-1	EB5-3-E5-1.5	4-11-17	1326									X	X					5	1	5	1	—	
2	-2	EB5-3-E5-2.5		1330																				
3	-3	EB5-3-W5-0.5		1324																				
4	-4	EB5-3-W5-1.5		1326																				
5	-5	EB5-3-W5-2.5		1331																				
6	-6	EB5-3-W10-0.5		1337																				
7	-7	EB5-3-W10-1.5		1339																				
8	-8	EB5-3-W10-2.5		1341																				
9	-9	EB9-1-E9-1.5		0950																				
10	-10	EB9-1-E9-2.5		0953																				

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container: # = #; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister; Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NAZSO3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scowcis
Submitter Print Name

Signature

CUSTODY

	Date:	Time:		Date:	Time:
Relinquished by: (Signature and Printed Name) Wallace Scowcis	4/13/17	15:23	Received by: (Signature and Printed Name) Erick Franco	4/13/17	15:23
Relinquished by: (Signature and Printed Name) Erick Franco	4/13/17	17:07	Received by: (Signature and Printed Name) MPR	4/13/17	1707
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 4

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☐	☑	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company:	Address:		Tel:
	City:	State: Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address: See Page #1
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Co10Blead	Co10Bcopper	Co10Barsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1701566-21	EB9-1-ES-0.5	4-11-17	0955									X			X					5	1	5	1	—	
2	-22	EB9-1-ES-1.5		0957									X												
3	-23	EB9-1-ES-2.5		0959									X												
4	-24	EB9-7-W06-0.5		1040									X	X											
5	-25	EB9-7-W06-1.5		1041									X	X											
6	-26	EB9-7-W06-2.5 WBS 4-13-17		1045									X	X											
7	-27	EB9-6-N10-3		1000											X										
8	-28	EB9-6-SS-3		1032											X										
9	-29	EB9-6-SS-4		1035											X										
10	-30	EB9-6-ES-3		1020											X										

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Stevens — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Stevens	4/13/16	15:23	Erick Franco	4/13/16	15:23
Erick Franco	4/13/17	17:07	MPR	4/13/17	1707
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 4

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☐ Client	☑ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx	☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
☐ GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:		4. SEALED	☐	☐			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address: See Page #1
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Arsenic	6010M Hg, Cd, Pb	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2 6=NaOH; 7=NA2S2O3	REMARKS
1	1701526-31	EB9-6-ES-3-D	4-11-17	1020									X		X					5	1	5	1	-	
2	-32	EB9-6-ES-4		1023																					
3	-33	EB9-6-NS-3		1010																					
4	-34	EB9-6-NS-4		1010																					
5	-35	EB9-6-S10-3		1040																					
6	-36	EB9-6-E10-3		1027																					
7	-37	EB9-6-E10-4		1029																					
8	-38	DRUM-1	4-13-17	1455					X		X			X						4	5	1	-		
9																									
10																									

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scomics — Submitter Print Name

Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scomics	4/13/17	15:23	Erick Franco	4/13/17	15:23
Erick Franco	4/13/17	17:07	MPR	4/13/17	1707
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

May 01, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

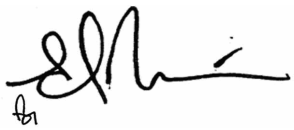
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1701566
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April 13, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/01/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB9-1-E9-1.5	1701566-19	Soil	4/11/17 9:50	4/13/17 15:23
EB9-1-E5-0.5	1701566-21	Soil	4/11/17 9:55	4/13/17 15:23

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/01/2017

Client Sample ID EB9-1-E9-1.5

Lab ID: 1701566-19

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.019**	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:41	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.5**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:31	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/01/2017

Client Sample ID EB9-1-E5-0.5

Lab ID: 1701566-21

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.74**	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:42	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**51**	1.0	0.057	20	B7E0009	05/01/2017	05/01/17 11:52	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0747 - EPA 3010A_S										
Blank (B7D0747-BLK1)					Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	ND	0.050	0.0028							
Blank (B7D0747-BLK2)					Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	ND	0.050	0.0028							
LCS (B7D0747-BS1)					Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	0.968051	0.050	0.0028	1.00000		96.8	80 - 120			
Duplicate (B7D0747-DUP1)			**Source: 1701567-36**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	ND	0.25	0.014		ND			NR	20	
Duplicate (B7D0747-DUP2)			**Source: 1701567-62**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	0.675978	0.25	0.014		0.654948			3.16	20	
Matrix Spike (B7D0747-MS1)			**Source: 1701567-36**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	2.51553	0.25	0.014	2.50000	ND	101	78 - 109			
Matrix Spike (B7D0747-MS2)			**Source: 1701567-62**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	3.10911	0.25	0.014	2.50000	0.654948	98.2	78 - 109			
Matrix Spike Dup (B7D0747-MSD1)			**Source: 1701567-36**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	2.48512	0.25	0.014	2.50000	ND	99.4	78 - 109	1.22	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0802 - STLC_S Extraction										
Blank (B7D0802-BLK1)					Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	ND	1.0	0.057							
LCS (B7D0802-BS1)					Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	1.83514			2.00000		91.8	80 - 120			
Duplicate (B7D0802-DUP1)			**Source: 1701567-62**		Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	3.32208	1.0	0.057		3.27259			1.50	20	
Matrix Spike (B7D0802-MS1)			**Source: 1701567-62**		Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	5.28083			2.50000	3.27259	80.3	44 - 130			
Matrix Spike Dup (B7D0802-MSD1)			**Source: 1701567-62**		Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	5.20516			2.50000	3.27259	77.3	44 - 130	1.44	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7E0009 - STLC_S Extraction										
Blank (B7E0009-BLK1)					Prepared: 5/1/2017 Analyzed: 5/1/2017					
Lead	ND	1.0	0.057							
LCS (B7E0009-BS1)					Prepared: 5/1/2017 Analyzed: 5/1/2017					
Lead	1.93342			2.00000		96.7	80 - 120			
Duplicate (B7E0009-DUP1)			**Source: 1701566-21RE1**		Prepared: 5/1/2017 Analyzed: 5/1/2017					
Lead	51.1119	1.0	0.057		51.2241			0.219	20	
Matrix Spike (B7E0009-MS1)			**Source: 1701566-21RE1**		Prepared: 5/1/2017 Analyzed: 5/1/2017					
Lead	53.0480			2.50000	51.2241	73.0	44 - 130			
Matrix Spike Dup (B7E0009-MSD1)			**Source: 1701566-21RE1**		Prepared: 5/1/2017 Analyzed: 5/1/2017					
Lead	51.6272			2.50000	51.2241	16.1	44 - 130	2.71	20	M1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Wednesday, April 19, 2017 3:06 PM
To: Rachelle Arada
Cc: customer.relations@atlglobal.com
Subject: RE: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Rachelle,

For the Burroughs samples:
- for all samples that exceed 50 mg/kg arsenic, we request STLC-arsenic and TCLP-arsenic.
-for all samples that exceed 50 mg/kg lead, we request STLC-lead and TCLP-lead.

Thank you,
Julie

-------- Original message --------
From: Rachelle Arada <Rachelle@atlglobal.com>
Date: 4/19/17 12:36 PM (GMT-08:00)
To: Julie Harriman <jharriman@leightongroup.com>
Cc: customer.relations@atlglobal.com
Subject: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Julie,

Please find your results for the above project attached. If I can further assist, please let me know. Thanks.

Rachelle Arada
Project Manager
Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*
This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.

ADVANCED TECHNOLOGY LABORATORIES

April 24, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

RE: ATL Work Order Number : 1701567
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April, 13 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB20-6-N5-0.5	1701567-01	Soil	4/12/17 12:20	4/13/17 15:23
EB20-6-N5-1.5	1701567-02	Soil	4/12/17 12:22	4/13/17 15:23
EB20-6-N5-2.5	1701567-03	Soil	4/12/17 12:24	4/13/17 15:23
EB20-6-N10-0.5	1701567-04	Soil	4/12/17 12:07	4/13/17 15:23
EB20-6-N10-1.5	1701567-05	Soil	4/12/17 12:09	4/13/17 15:23
EB20-6-N10-1.5-D	1701567-06	Soil	4/12/17 12:09	4/13/17 15:23
EB20-6-N10-2.5	1701567-07	Soil	4/12/17 12:12	4/13/17 15:23
EB20-6-S5-0.5	1701567-08	Soil	4/12/17 12:40	4/13/17 15:23
EB20-6-S5-1.5	1701567-09	Soil	4/12/17 12:43	4/13/17 15:23
EB20-6-S5-2.5	1701567-10	Soil	4/12/17 12:46	4/13/17 15:23
EB20-6-W5-0.5	1701567-11	Soil	4/12/17 12:10	4/13/17 15:23
EB20-6-W5-1.5	1701567-12	Soil	4/12/17 12:12	4/13/17 15:23
EB20-6-W5-2.5	1701567-13	Soil	4/12/17 12:14	4/13/17 15:23
EB20-6-W8-0.5	1701567-14	Soil	4/12/17 12:17	4/13/17 15:23
EB20-6-W8-1.5	1701567-15	Soil	4/12/17 12:19	4/13/17 15:23
EB20-6-W8-2.5	1701567-16	Soil	4/12/17 12:21	4/13/17 15:23
EB20-6-W8-2.5-D	1701567-17	Soil	4/12/17 12:21	4/13/17 15:23
FB14-4-N10-0.5	1701567-18	Soil	4/12/17 8:10	4/13/17 15:23
FB14-4-N10-1.5	1701567-19	Soil	4/12/17 8:12	4/13/17 15:23
FB14-4-N10-2.5	1701567-20	Soil	4/12/17 8:17	4/13/17 15:23
FB14-4-W5-0.5	1701567-21	Soil	4/12/17 8:51	4/13/17 15:23
FB14-4-W5-1.5	1701567-22	Soil	4/12/17 8:52	4/13/17 15:23
FB14-4-W5-1.5-D	1701567-23	Soil	4/12/17 8:52	4/13/17 15:23
FB14-4-W5-2.5	1701567-24	Soil	4/12/17 8:55	4/13/17 15:23
FB14-4-W10-0.5	1701567-25	Soil	4/12/17 9:00	4/13/17 15:23
FB14-4-W10-1.5	1701567-26	Soil	4/12/17 9:02	4/13/17 15:23
FB14-4-W10-2.5	1701567-27	Soil	4/12/17 9:04	4/13/17 15:23
EB15-1-S5-3-D	1701567-28	Soil	4/12/17 7:55	4/13/17 15:23
EB15-1-S5-3	1701567-29	Soil	4/12/17 7:55	4/13/17 15:23
EB15-1-S5-4	1701567-30	Soil	4/12/17 8:02	4/13/17 15:23
FB14-4-N5-0.5	1701567-31	Soil	4/12/17 8:20	4/13/17 15:23
FB14-4-N5-1.5	1701567-32	Soil	4/12/17 8:23	4/13/17 15:23
FB14-4-N5-1.5-D	1701567-33	Soil	4/12/17 8:23	4/13/17 15:23
FB14-4-N5-2.5	1701567-34	Soil	4/12/17 8:26	4/13/17 15:23
FB14-4-E8.5-0.5	1701567-35	Soil	4/12/17 8:33	4/13/17 15:23
FB14-4-E8.5-1.5	1701567-36	Soil	4/12/17 8:35	4/13/17 15:23
FB14-4-E8.5-2.5	1701567-37	Soil	4/12/17 8:40	4/13/17 15:23

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

FB14-4-E8.5-2.5-D	1701567-38	Soil	4/12/17 8:40	4/13/17 15:23
FB14-4-E5-0.5	1701567-39	Soil	4/12/17 8:30	4/13/17 15:23
FB14-4-E5-1.5	1701567-40	Soil	4/12/17 8:32	4/13/17 15:23
FB14-4-E5-2.5	1701567-41	Soil	4/12/17 8:35	4/13/17 15:23
FB14-4-E5-2.5-D	1701567-42	Soil	4/12/17 8:35	4/13/17 15:23
FB16-1-E10-0.5	1701567-43	Soil	4/12/17 11:10	4/13/17 15:23
FB16-1-E10-1.5	1701567-44	Soil	4/12/17 11:12	4/13/17 15:23
FB16-1-E10-1.5-D	1701567-45	Soil	4/12/17 11:12	4/13/17 15:23
FB16-1-E10-2.5	1701567-46	Soil	4/12/17 11:15	4/13/17 15:23
FB16-1-E5-0.5	1701567-47	Soil	4/12/17 11:07	4/13/17 15:23
FB16-1-E5-1.5	1701567-48	Soil	4/12/17 11:09	4/13/17 15:23
FB16-1-E5-2.5	1701567-49	Soil	4/12/17 11:13	4/13/17 15:23
FB16-1-E5-2.5-D	1701567-50	Soil	4/12/17 11:13	4/13/17 15:23
FB16-1-W10-0.5	1701567-51	Soil	4/12/17 11:25	4/13/17 15:23
FB16-1-W10-0.5-D	1701567-52	Soil	4/12/17 11:25	4/13/17 15:23
FB16-1-W10-1.5	1701567-53	Soil	4/12/17 11:29	4/13/17 15:23
FB16-1-W10-2.5	1701567-54	Soil	4/12/17 11:32	4/13/17 15:23
FB16-1-W5-0.5	1701567-55	Soil	4/12/17 11:35	4/13/17 15:23
FB16-1-W5-0.5-D	1701567-56	Soil	4/12/17 11:35	4/13/17 15:23
FB16-1-W5-1.5	1701567-57	Soil	4/12/17 11:37	4/13/17 15:23
FB16-1-W5-2.5	1701567-58	Soil	4/12/17 11:40	4/13/17 15:23
FB16-1-S5-0.5	1701567-59	Soil	4/12/17 12:10	4/13/17 15:23
FB16-1-S5-1.5	1701567-60	Soil	4/12/17 12:13	4/13/17 15:23
FB16-1-S5-2.5	1701567-61	Soil	4/12/17 12:15	4/13/17 15:23
FB16-1-S5-2.5-D	1701567-62	Soil	4/12/17 12:15	4/13/17 15:23
FB16-1-S10-0.5	1701567-63	Soil	4/12/17 12:20	4/13/17 15:23
FB16-1-S10-1.5	1701567-64	Soil	4/12/17 12:22	4/13/17 15:23
FB16-1-S10-2.5	1701567-65	Soil	4/12/17 12:24	4/13/17 15:23
FB16-1-N10-0.5	1701567-66	Soil	4/12/17 12:26	4/13/17 15:23
FB16-1-N10-0.5-D	1701567-67	Soil	4/12/17 12:26	4/13/17 15:23
FB16-1-N10-1.5	1701567-68	Soil	4/12/17 12:28	4/13/17 15:23
FB16-1-N10-2.5	1701567-69	Soil	4/12/17 12:31	4/13/17 15:23
FB16-1-N5-0.5	1701567-70	Soil	4/12/17 12:34	4/13/17 15:23
FB16-1-N5-1.5	1701567-71	Soil	4/12/17 12:37	4/13/17 15:23
FB16-1-N5-1.5-D	1701567-72	Soil	4/12/17 12:37	4/13/17 15:23
FB16-1-N5-2.5	1701567-73	Soil	4/12/17 12:40	4/13/17 15:23

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-N5-0.5

Lab ID: 1701567-01

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**99**	1.0	0.11	1	B7D0528	04/19/2017	04/20/17 14:12	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB20-6-N5-1.5

Lab ID: 1701567-02

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**13**	1.0	0.11	1	B7D0528	04/19/2017	04/20/17 14:13	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB20-6-N5-2.5

Lab ID: 1701567-03

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.4**	1.0	0.11	1	B7D0528	04/19/2017	04/20/17 12:55	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-N10-0.5

Lab ID: 1701567-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**23**	1.0	0.11	1	B7D0528	04/19/2017	04/20/17 12:56	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-N10-1.5

Lab ID: 1701567-05

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**13**	1.0	0.11	1	B7D0528	04/19/2017	04/20/17 12:57	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-N10-1.5-D

Lab ID: 1701567-06

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**19**	1.0	0.11	1	B7D0528	04/19/2017	04/20/17 12:58	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-N10-2.5

Lab ID: 1701567-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.1**	1.0	0.11	1	B7D0528	04/19/2017	04/20/17 12:59	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-S5-0.5

Lab ID: 1701567-08

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**54**	1.0	0.11	1	B7D0528	04/19/2017	04/20/17 13:00	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB20-6-S5-1.5

Lab ID: 1701567-09

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**12**	1.0	0.11	1	B7D0528	04/19/2017	04/20/17 13:01	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-S5-2.5

Lab ID: 1701567-10

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.1**	1.0	0.11	1	B7D0528	04/19/2017	04/20/17 13:03	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-W5-0.5

Lab ID: 1701567-11

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**33**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:08	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-W5-1.5

Lab ID: 1701567-12

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**15**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:13	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-W5-2.5

Lab ID: 1701567-13

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.4**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:14	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-W8-0.5

Lab ID: 1701567-14

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**27**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:15	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-W8-1.5

Lab ID: 1701567-15

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**16**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:16	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB20-6-W8-2.5

Lab ID: 1701567-16

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.6**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:17	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB20-6-W8-2.5-D

Lab ID: 1701567-17

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.9**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:18	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-N10-0.5

Lab ID: 1701567-18

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**17**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:33	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-N10-1.5

Lab ID: 1701567-19

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.9**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:34	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB14-4-N10-2.5

Lab ID: 1701567-20

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.6**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:35	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-W5-0.5

Lab ID: 1701567-21

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**35**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:36	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB14-4-W5-1.5

Lab ID: 1701567-22

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**18**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 15:55	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-W5-1.5-D

Lab ID: 1701567-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**13**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:38	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB14-4-W5-2.5

Lab ID: 1701567-24

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**56**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:39	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-W10-0.5

Lab ID: 1701567-25

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**17**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:41	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-W10-1.5

Lab ID: 1701567-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**20**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:42	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-W10-2.5

Lab ID: 1701567-27

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**24**	1.0	0.11	1	B7D0529	04/19/2017	04/20/17 13:43	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID EB15-1-S5-3-D

Lab ID: 1701567-28

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**16**	1.0	0.70	1	B7D0529	04/19/2017	04/20/17 14:07	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB15-1-S5-3

Lab ID: 1701567-29

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**25**	1.0	0.70	1	B7D0529	04/19/2017	04/20/17 14:08	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID EB15-1-S5-4

Lab ID: 1701567-30

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	0.70	1	B7D0532	04/19/2017	04/20/17 15:16	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-N5-0.5

Lab ID: 1701567-31

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**21**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:20	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-N5-1.5

Lab ID: 1701567-32

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**18**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:21	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-N5-1.5-D

Lab ID: 1701567-33

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**29**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:24	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-N5-2.5

Lab ID: 1701567-34

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.4**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:26	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-E8.5-0.5

Lab ID: 1701567-35

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**20**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:27	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB14-4-E8.5-1.5

Lab ID: 1701567-36

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**89**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:28	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB14-4-E8.5-2.5

Lab ID: 1701567-37

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.4**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:29	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB14-4-E8.5-2.5-D

Lab ID: 1701567-38

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**36**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:30	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB14-4-E5-0.5

Lab ID: 1701567-39

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.2**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:31	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-E5-1.5

Lab ID: 1701567-40

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**110**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:32	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-E5-2.5

Lab ID: 1701567-41

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**53**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:33	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB14-4-E5-2.5-D

Lab ID: 1701567-42

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**40**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:34	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-E10-0.5

Lab ID: 1701567-43

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**16**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:38	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-E10-1.5

Lab ID: 1701567-44

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.0**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:39	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-E10-1.5-D

Lab ID: 1701567-45

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.6**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:40	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-E10-2.5

Lab ID: 1701567-46

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.9**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:41	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-E5-0.5

Lab ID: 1701567-47

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1.3**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:42	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-E5-1.5

Lab ID: 1701567-48

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.9**	1.0	0.11	1	B7D0532	04/19/2017	04/20/17 15:44	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-E5-2.5

Lab ID: 1701567-49

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.9**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 15:47	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-E5-2.5-D

Lab ID: 1701567-50

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.3**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 15:58	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-W10-0.5

Lab ID: 1701567-51

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**42**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:00	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-W10-0.5-D

Lab ID: 1701567-52

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.7**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:01	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-W10-1.5

Lab ID: 1701567-53

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.3**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:02	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-W10-2.5

Lab ID: 1701567-54

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.4**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:03	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-W5-0.5

Lab ID: 1701567-55

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.3**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:04	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-W5-0.5-D

Lab ID: 1701567-56

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**56**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:08	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-W5-1.5

Lab ID: 1701567-57

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.0**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:09	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-W5-2.5

Lab ID: 1701567-58

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.7**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:10	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-S5-0.5

Lab ID: 1701567-59

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**20**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:11	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-S5-1.5

Lab ID: 1701567-60

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**11**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:12	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-S5-2.5

Lab ID: 1701567-61

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**82**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:13	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-S5-2.5-D

Lab ID: 1701567-62

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**62**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:14	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-S10-0.5

Lab ID: 1701567-63

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**21**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:15	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-S10-1.5

Lab ID: 1701567-64

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**12**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:17	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-S10-2.5

Lab ID: 1701567-65

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.5**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:18	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-N10-0.5

Lab ID: 1701567-66

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**22**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:22	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-N10-0.5-D

Lab ID: 1701567-67

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**25**	1.0	0.11	1	B7D0533	04/19/2017	04/20/17 16:23	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-N10-1.5

Lab ID: 1701567-68

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.1**	1.0	0.11	1	B7D0534	04/19/2017	04/20/17 16:29	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Client Sample ID FB16-1-N10-2.5

Lab ID: 1701567-69

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.2**	1.0	0.11	1	B7D0534	04/19/2017	04/20/17 16:36	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-N5-0.5

Lab ID: 1701567-70

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**15**	1.0	0.11	1	B7D0534	04/19/2017	04/20/17 16:38	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-N5-1.5

Lab ID: 1701567-71

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.9**	1.0	0.11	1	B7D0534	04/19/2017	04/20/17 16:39	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-N5-1.5-D

Lab ID: 1701567-72

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.2**	1.0	0.11	1	B7D0534	04/19/2017	04/20/17 16:40	

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	04/24/2017

Client Sample ID FB16-1-N5-2.5

Lab ID: 1701567-73

Total Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.4**	1.0	0.11	1	B7D0534	04/19/2017	04/20/17 16:42	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0528 - EPA 3050B_S										
Blank (B7D0528-BLK1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0528-BS1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	42.4417	1.0	0.70	50.0000		84.9	80 - 120			
Lead	42.5134	1.0	0.11	50.0000		85.0	80 - 120			
Duplicate (B7D0528-DUP1)			**Source: 1701566-29**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	3.41420	1.0	0.70		3.14130			8.33	20	
Lead	8.06575	1.0	0.11		5.16330			43.9	20	R
Matrix Spike (B7D0528-MS1)			**Source: 1701566-29**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	86.8025	1.0	0.70	125.000	3.14130	66.9	59 - 103			
Lead	88.4072	1.0	0.11	125.000	5.16330	66.6	34 - 129			
Matrix Spike Dup (B7D0528-MSD1)			**Source: 1701566-29**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	88.1229	1.0	0.70	125.000	3.14130	68.0	59 - 103	1.51	20	
Lead	90.5414	1.0	0.11	125.000	5.16330	68.3	34 - 129	2.39	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0529 - EPA 3050B_S										
Blank (B7D0529-BLK1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0529-BS1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	40.2993	1.0	0.70	50.0000		80.6	80 - 120			
Lead	42.4234	1.0	0.11	50.0000		84.8	80 - 120			
Duplicate (B7D0529-DUP1)			**Source: 1701567-11**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	7.43695	1.0	0.70		7.29050			1.99	20	
Lead	34.8074	1.0	0.11		33.1349			4.92	20	
Matrix Spike (B7D0529-MS1)			**Source: 1701567-11**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	96.6070	1.0	0.70	125.000	7.29050	71.5	59 - 103			
Lead	123.834	1.0	0.11	125.000	33.1349	72.6	34 - 129			
Matrix Spike Dup (B7D0529-MSD1)			**Source: 1701567-11**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	93.8578	1.0	0.70	125.000	7.29050	69.3	59 - 103	2.89	20	
Lead	118.235	1.0	0.11	125.000	33.1349	68.1	34 - 129	4.63	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0532 - EPA 3050B_S										
Blank (B7D0532-BLK1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0532-BS1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	44.6135	1.0	0.70	50.0000		89.2	80 - 120			
Lead	45.0206	1.0	0.11	50.0000		90.0	80 - 120			
Duplicate (B7D0532-DUP1)			**Source: 1701567-30**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	2.24431	1.0	0.70		3.04505			30.3	20	R
Lead	3.69798	1.0	0.11		3.18674			14.9	20	
Matrix Spike (B7D0532-MS1)			**Source: 1701567-30**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	95.1329	1.0	0.70	125.000	3.04505	73.7	59 - 103			
Lead	92.4884	1.0	0.11	125.000	3.18674	71.4	34 - 129			
Matrix Spike Dup (B7D0532-MSD1)			**Source: 1701567-30**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	104.305	1.0	0.70	125.000	3.04505	81.0	59 - 103	9.20	20	
Lead	89.4257	1.0	0.11	125.000	3.18674	69.0	34 - 129	3.37	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0533 - EPA 3050B_S										
Blank (B7D0533-BLK1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0533-BS1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	44.2432	1.0	0.70	50.0000		88.5	80 - 120			
Lead	44.6589	1.0	0.11	50.0000		89.3	80 - 120			
Duplicate (B7D0533-DUP1)			**Source: 1701567-49**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	0.792802	1.0	0.70		0.801102			1.04	20	J
Lead	2.71772	1.0	0.11		2.89042			6.16	20	
Matrix Spike (B7D0533-MS1)			**Source: 1701567-49**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	88.0040	1.0	0.70	125.000	0.801102	69.8	59 - 103			
Lead	92.1822	1.0	0.11	125.000	2.89042	71.4	34 - 129			
Matrix Spike Dup (B7D0533-MSD1)			**Source: 1701567-49**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	89.8267	1.0	0.70	125.000	0.801102	71.2	59 - 103	2.05	20	
Lead	92.5210	1.0	0.11	125.000	2.89042	71.7	34 - 129	0.367	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0534 - EPA 3050B_S										
Blank (B7D0534-BLK1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	ND	1.0	0.70							
Lead	ND	1.0	0.11							
LCS (B7D0534-BS1)					Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	40.9289	1.0	0.70	50.0000		81.9	80 - 120			
Lead	42.0465	1.0	0.11	50.0000		84.1	80 - 120			
Duplicate (B7D0534-DUP1)			**Source: 1701567-68**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	1.97925	1.0	0.70		1.67537			16.6	20	
Lead	8.29736	1.0	0.11		5.10290			47.7	20	R
Matrix Spike (B7D0534-MS1)			**Source: 1701567-68**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	79.3623	1.0	0.70	125.000	1.67537	62.1	59 - 103			
Lead	82.7338	1.0	0.11	125.000	5.10290	62.1	34 - 129			
Matrix Spike Dup (B7D0534-MSD1)			**Source: 1701567-68**		Prepared: 4/19/2017 Analyzed: 4/20/2017					
Arsenic	87.5214	1.0	0.70	125.000	1.67537	68.7	59 - 103	9.78	20	
Lead	91.5306	1.0	0.11	125.000	5.10290	69.1	34 - 129	10.1	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 04/24/2017

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	5.5	
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company: Leighton Consulting, Inc (LCI)
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel: 949-250-1421 Fax: 949-250-1114

SEND REPORT TO:
Attn: Julie Harriman Email: jharriman@leightongroup.com
Company: LCI
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: acctpayable@leightongroup.com
Company: Leighton
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS - LAUSD
Project No.: 603378-006
Sampler: W. Sconiers
Quote No: —
PO #: —
Special Instructions/Comments: —

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1701507-1	EB20-6-N5-0.5	4-12-17	1220								X	X		X					5	1	5	1	—	
2	-2	EB20-6-N5-1.5		1222																					
3	-3	EB20-6-N5-2.5		1224																					
4	-4	EB20-6-N10-0.5		1209																					
5	-5	EB20-6-N10-1.5		1209																					
6	-6	EB20-6-N10-1.5-D		1209																					
7	-7	EB20-6-N10-2.5		1212																					
8	-8	EB20-6-S5-0.5		1240																					
9	-9	EB20-6-S5-1.5		1243																					
10	-10	EB20-6-S5-2.5		1246																					

Encircle or Write Requested Analysis

Encircle Sample Matrix

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Sconiers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Sconiers	4-13-17	1523	Erick Franco	4/13/17	15:22
Erick Franco	4/13/17	17:07	MPR	4/13/17	1707

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☐ Client	☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx	☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO		3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other:		4. SEALED	☐	☑			

CUSTOMER

Company:
Address:
City: State: Zip:
Tel:
Fax:

SEND REPORT TO:
Attn: Email:
Company: See Page #1
Address:
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:
Company: See Page #1
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name:
Project No.:
Sampler:
Quote No:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	LOW B Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	REMARKS
1	570157 -11	EB20-6-WS-0.5	4-12-17	1210									X	X					5	1	5	1	WB3S 4-12-17
2	-12	EB20-6-WS-1.5		1212																			
3	-13	EB20-6-WS-2.5		1214																			
4	-14	EB20-6-WS-0.5		1217																			
5	-15	EB20-6-WS-1.5		1219																			
6	-16	EB20-6-WS-2.5		1221																			
7	-17	EB20-6-WS-2.5-D		1221																			
8	-18	FB14-4-N10-0.5		0810																			
9	-19	FB14-4-N10-1.5		0812																			
10	-20	FB14-4-N10-2.5		0817																			

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC
☐ Routine
☐ Caltrans
☐ Legal
☐ RWQCB
☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Siomicis — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Siomicis	4-13-17	1523	Erick Franca	4/13/17	15:23
Erick Franca	4/13/17	17:07	MPR	4/13/17	1707

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company:
Address:
City: State: Zip:
Tel:
Fax:

SEND REPORT TO:
Attn: Email:
Company: See Page #1
Address:
City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:
Company: See Page #1
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name:
Project No.:
Sampler:
Quote No:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	6010B Arsenic	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1701567 -21	FB144-WS-0.5	4-12-17	0851									X		X					5	1	5	1	-	
2	-22	FB144-WS-1.5		0852																					
3	-23	FB144-WS-1.5-D		0852																					
4	-24	FB144-WS-2.5		0855																					
5	-25	FB144-W10-0.5		0900																					
6	-26	FB144-W10-1.5		0902																					
7	-27	FB144-W10-2.5		0904																					
8	-28	EB15-1-SS-3-D		0755										X											
9	-29	EB15-1-SS-3		0755										X											
10	-30	EB15-1-SS-4		0802										X											

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Encircle or Write Requested Analysis
Encircle Sample Matrix
TAT
Container: # / Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister / Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seomeis — Submitter Print Name
Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seomeis	4-13-17	1523	Erick Franca	4/13/17	15:23
Erick Franca	4/13/17	17:07	MPR	4/13/17	1707

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only					ATLCOC Ver: 20130715
Method of Transport		**Sample Conditions Upon Receipt**			
		Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL		1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac		2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO		3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other: _____		4. SEALED	☐	☑			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address: See Page #1
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1701567-31	FB14-4-NS-0.5	4-12-17	0820									X	X					5	1	5	1	—	
2	-32	FB14-4-NS-1.5		0823																				
3	-33	FB14-4-NS-1.5-D		0823																				
4	-34	FB14-4-NS-2.5		0826																				
5	-35	FB14-4-E8.5-0.5		0833																				
6	-36	FB14-4-E8.5-1.5		0835																				
7	-37	FB14-4-E8.5-2.5		0840																				
8	-38	FB14-4-E8.5-2.5-D		0840																				
9	-39	FB14-4-E5-0.5		0830																				
10	-40	FB14-4-E5-1.5		0832																				

Encircle or Write Requested Analysis

Encircle Sample Matrix

Container: # = Container #; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scomiers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scomiers	4-13-17	1523	Erick Franco	4/13/17	15:23
Erick Franco	4/13/17	17:07	MTR	4/13/17	1707
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company:

Address:

City: State: Zip:

Tel:

Fax:

SEND REPORT TO:

Attn: Email:

Company:

Address: See Page #1

City: State: Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO

Attn: Email:

Company:

Address: See Page #1

City: State: Zip:

PROJECT SAMPLES

Project Name:

Project No.:

Sampler:

Quote No:

PO #:

Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead	Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Ziplar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn([Ac]2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1701527-41	FB144-ES-2.5	4-12-17	0835									X	X					5	1	5	1	—	
2	-42	FB144-ES-2.5-D		0835																				
3	-43	FB16-1-E10-0.5		1110																				
4	-44	FB16-1-E10-1.5		1112																				
5	-45	FB16-1-E10-1.5-D		1112																				
6	-46	FB16-1-E10-2.5		1115																				
7	-47	FB16-1-ES-0.5		1107																				
8	-48	FB16-1-ES-1.5		1109																				
9	-49	FB16-1-ES-2.5		1113																				
10	-50	FB16-1-ES-2.5-D		1113																				

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Stevens — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Stevens	4-13-17	1523	Erick Franco	4/13/17	15:23
Erick Franco	4/13/17	17:07	MFR	4/13/17	1707

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company: | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company: See Page #1
Address:
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company: See Page #1
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1701527-51	FB16-1-W10-0.5	4-12-17	1125									X	X					5	1	5	1	–	
2	-52	FB16-1-W10-0.5-D		1125																				
3	-53	FB16-1-W10-1.5		1129																				
4	-54	FB16-1-W10-2.5		1132																				
5	-55	FB16-1-W5-0.5		1135																				
6	-56	FB16-1-W5-0.5-D		1135																				
7	-57	FB16-1-W5-1.5		1137																				
8	-58	FB16-1-W5-2.5		1140																				
9	-59	FB16-1-S5-0.5		1210																				
10	-60	FB16-1-S5-1.5		1213																				

Encircle or Write Requested Analysis | Encircle Sample Matrix | Container

QA/QC
☐ Routine
☐ Caltrans
☐ Legal
☐ RWQCB
☐ Level IV

Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister
Container Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for fi ve (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-fi ve (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Seomics
Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Seomics	4-13-17	1523	Erick Franca	4/13/17	1523
Erick Franca	4/13/17	17:07	MAR	4/13/17	1707
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 7 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☑			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company: See Page #1	Company: See Page #1
Address:	Address:
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1701587-01	FB16-1-SS-2.5	4-12-17	1215									X	X					5	1	5	1	-	
2	-02	FB16-1-SS-2.5-D		1215																				
3	-03	FB16-1-S10-0.5		1220																				
4	-04	FB16-1-S10-1.5		1222																				
5	-05	FB16-1-S10-2.5		1224																				
6	-06	FB16-1-N10-0.5		1226																				
7	-07	FB16-1-N10-0.5-D		1226																				
8	-08	FB16-1-N10-1.5		1228																				
9	-09	FB16-1-N10-2.5		1231																				
10	-10	FB16-1-N5-0.5		1234																				

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scorcio — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
J. Wallace Scorcio	4-13-17	1523	Erick France	4/13/17	15:23
Erick France	4/13/17	17:07	MFR	4/13/17	1707
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 8 of 8

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☑ ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☑
☐ GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☑			

CUSTOMER

Company:	Address:			Tel:
	City:	State:	Zip:	Fax:

SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Email:	Attn: Email:
Company:	Company:
Address: See Page #1	Address: See Page #1
City: State: Zip:	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote No:	Special Instructions/Comments:
Project No.:	PO #:	
Sampler:		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	6010B Lead	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=TedlarBag; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1701537 -71	FB16-1-NS-1.5	4-12-17	1237									X	X					5	1	5	1	-	
2	-72	FB16-1-NS-1.5-D	↓	1237									X	X					↓	↓	↓	↓	↓	
3	-73	FB16-1-NS-2.5	↓	1240									X	X					↓	↓	↓	↓	↓	
4																								
5																								
6																								
7																								
8																								
9																								
10																								

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scomers — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scomers	4-13-17	1503	Erick France	4/13/17	15:27
Relinquished by: (Signature and Printed Name) Erick France	Date: 4/13/17	Time: 17:07	Received by: (Signature and Printed Name) MPR	Date: 4/13/17	Time: 1707
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

May 01, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

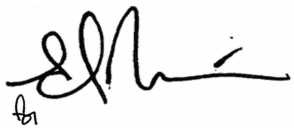
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1701567
Client Reference : Burroughs MS-LAUSD, 603378.006

Enclosed are the results for sample(s) received on April 13, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/01/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB20-6-N5-0.5	1701567-01	Soil	4/12/17 12:20	4/13/17 15:23
EB20-6-S5-0.5	1701567-08	Soil	4/12/17 12:40	4/13/17 15:23
FB14-4-W5-2.5	1701567-24	Soil	4/12/17 8:55	4/13/17 15:23
FB14-4-E8.5-1.5	1701567-36	Soil	4/12/17 8:35	4/13/17 15:23
FB14-4-E5-1.5	1701567-40	Soil	4/12/17 8:32	4/13/17 15:23
FB14-4-E5-2.5	1701567-41	Soil	4/12/17 8:35	4/13/17 15:23
FB16-1-W5-0.5-D	1701567-56	Soil	4/12/17 11:35	4/13/17 15:23
FB16-1-S5-2.5	1701567-61	Soil	4/12/17 12:15	4/13/17 15:23
FB16-1-S5-2.5-D	1701567-62	Soil	4/12/17 12:15	4/13/17 15:23

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

Client Sample ID EB20-6-N5-0.5

Lab ID: 1701567-01

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.091**	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:44	D1, J

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.1**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:34	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/01/2017

Client Sample ID EB20-6-S5-0.5

Lab ID: 1701567-08

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:48	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.3**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:36	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

Client Sample ID FB14-4-W5-2.5

Lab ID: 1701567-24

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:49	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**2.2**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:37	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

Client Sample ID FB14-4-E8.5-1.5

Lab ID: 1701567-36

TCLP Metals by ICP-AES EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:51	D1

STLC Metals by ICP-AES by EPA 6010B **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1.0**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:41	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

Client Sample ID FB14-4-E5-1.5

Lab ID: 1701567-40

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.17**	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:56	D1, J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.9**	1.0	0.057	20	B7E0009	05/01/2017	05/01/17 11:58	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/01/2017

Client Sample ID FB14-4-E5-2.5

Lab ID: 1701567-41

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:57	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1.9**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:44	D1

Certificate of Analysis

Leighton Consulting, Inc.		Project Number :	Burroughs MS-LAUSD, 603378.006
17781 Cowan Street		Report To :	Julie Harriman
Irvine , CA 92614		Reported :	05/01/2017

Client Sample ID FB16-1-W5-0.5-D

Lab ID: 1701567-56

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 12:59	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.40**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:45	D1, J

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

Client Sample ID FB16-1-S5-2.5

Lab ID: 1701567-61

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1.6**	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 13:00	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.1**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:47	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

Client Sample ID FB16-1-S5-2.5-D

Lab ID: 1701567-62

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.65**	0.25	0.014	5	B7D0747	04/26/2017	04/26/17 13:04	D1

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.3**	1.0	0.057	20	B7D0802	04/27/2017	04/27/17 13:48	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0747 - EPA 3010A_S										
Blank (B7D0747-BLK1)					Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	ND	0.050	0.0028							
Blank (B7D0747-BLK2)					Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	ND	0.050	0.0028							
LCS (B7D0747-BS1)					Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	0.968051	0.050	0.0028	1.00000		96.8	80 - 120			
Duplicate (B7D0747-DUP1)			**Source: 1701567-36**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	ND	0.25	0.014		ND			NR	20	
Duplicate (B7D0747-DUP2)			**Source: 1701567-62**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	0.675978	0.25	0.014		0.654948			3.16	20	
Matrix Spike (B7D0747-MS1)			**Source: 1701567-36**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	2.51553	0.25	0.014	2.50000	ND	101	78 - 109			
Matrix Spike (B7D0747-MS2)			**Source: 1701567-62**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	3.10911	0.25	0.014	2.50000	0.654948	98.2	78 - 109			
Matrix Spike Dup (B7D0747-MSD1)			**Source: 1701567-36**		Prepared: 4/26/2017 Analyzed: 4/26/2017					
Lead	2.48512	0.25	0.014	2.50000	ND	99.4	78 - 109	1.22	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7D0802 - STLC_S Extraction										
Blank (B7D0802-BLK1)					Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	ND	1.0	0.057							
LCS (B7D0802-BS1)					Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	1.83514			2.00000		91.8	80 - 120			
Duplicate (B7D0802-DUP1)			**Source: 1701567-62**		Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	3.32208	1.0	0.057		3.27259			1.50	20	
Matrix Spike (B7D0802-MS1)			**Source: 1701567-62**		Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	5.28083			2.50000	3.27259	80.3	44 - 130			
Matrix Spike Dup (B7D0802-MSD1)			**Source: 1701567-62**		Prepared: 4/27/2017 Analyzed: 4/27/2017					
Lead	5.20516			2.50000	3.27259	77.3	44 - 130	1.44	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7E0009 - STLC_S Extraction										
Blank (B7E0009-BLK1)					Prepared: 5/1/2017 Analyzed: 5/1/2017					
Lead	ND	1.0	0.057							
LCS (B7E0009-BS1)					Prepared: 5/1/2017 Analyzed: 5/1/2017					
Lead	1.93342			2.00000		96.7	80 - 120			
Duplicate (B7E0009-DUP1)			**Source: 1701566-21RE1**		Prepared: 5/1/2017 Analyzed: 5/1/2017					
Lead	51.1119	1.0	0.057		51.2241			0.219	20	
Matrix Spike (B7E0009-MS1)			**Source: 1701566-21RE1**		Prepared: 5/1/2017 Analyzed: 5/1/2017					
Lead	53.0480			2.50000	51.2241	73.0	44 - 130			
Matrix Spike Dup (B7E0009-MSD1)			**Source: 1701566-21RE1**		Prepared: 5/1/2017 Analyzed: 5/1/2017					
Lead	51.6272			2.50000	51.2241	16.1	44 - 130	2.71	20	M1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS-LAUSD, 603378.006
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 05/01/2017

Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Wednesday, April 19, 2017 3:06 PM
To: Rachelle Arada
Cc: customer.relations@atlglobal.com
Subject: RE: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Rachelle,

For the Burroughs samples:
- for all samples that exceed 50 mg/kg arsenic, we request STLC-arsenic and TCLP-arsenic.
-for all samples that exceed 50 mg/kg lead, we request STLC-lead and TCLP-lead.

Thank you,
Julie

-------- Original message --------
From: Rachelle Arada <Rachelle@atlglobal.com>
Date: 4/19/17 12:36 PM (GMT-08:00)
To: Julie Harriman <jharriman@leightongroup.com>
Cc: customer.relations@atlglobal.com
Subject: Results - Burroughs MS-LAUSD, 603378.006 (ATL# 1701542)

Hi Julie,

Please find your results for the above project attached. If I can further assist, please let me know. Thanks.

Rachelle Arada
Project Manager
Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*
This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.

JULY 2017 LABORATORY REPORTS

ADVANCED TECHNOLOGY LABORATORIES

July 28, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

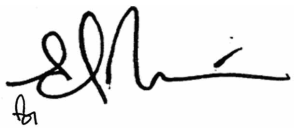
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1702649
Client Reference : Burroughs MS, 11640.001

Enclosed are the results for sample(s) received on July 17, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IDW-S	1702649-01	Soil	7/17/17 9:42	7/17/17 15:15
IDW-L	1702649-02	Water	7/17/17 9:45	7/17/17 15:15

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Client Sample ID IDW-S
Lab ID: 1702649-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.44	1	B7G0486	07/20/2017	07/21/17 10:12	
Arsenic	**20**	1.0	0.70	1	B7G0486	07/20/2017	07/21/17 10:12	
Barium	**120**	1.0	0.10	1	B7G0486	07/20/2017	07/21/17 10:12	
Beryllium	ND	1.0	0.04	1	B7G0486	07/20/2017	07/21/17 10:12	
Cadmium	**0.53**	1.0	0.09	1	B7G0486	07/20/2017	07/21/17 10:12	J
Chromium	**23**	1.0	0.12	1	B7G0486	07/20/2017	07/21/17 10:12	
Cobalt	**8.9**	1.0	0.10	1	B7G0486	07/20/2017	07/21/17 10:12	
Copper	**22**	2.0	0.11	1	B7G0486	07/20/2017	07/21/17 10:12	
Lead	**110**	1.0	0.19	1	B7G0486	07/20/2017	07/21/17 10:12	
Molybdenum	ND	1.0	0.13	1	B7G0486	07/20/2017	07/21/17 10:12	
Nickel	**20**	1.0	0.10	1	B7G0486	07/20/2017	07/21/17 10:12	
Selenium	ND	1.0	0.88	1	B7G0486	07/20/2017	07/21/17 10:12	
Silver	ND	1.0	0.07	1	B7G0486	07/20/2017	07/21/17 10:12	
Thallium	ND	1.0	0.42	1	B7G0486	07/20/2017	07/21/17 10:12	
Vanadium	**28**	1.0	0.19	1	B7G0486	07/20/2017	07/21/17 10:12	
Zinc	**130**	1.0	0.18	1	B7G0486	07/20/2017	07/21/17 10:12	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.11**	0.10	0.005	1	B7G0488	07/20/2017	07/21/17 09:54	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B7G0426	07/19/2017	07/19/17 10:33	
Surrogate: 4-Bromofluorobenzene	*106 %*		*36 - 125*		B7G0426	07/19/2017	*07/19/17 10:33*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**120**	5.0	5.0	5	B7G0589	07/24/2017	07/24/17 16:39	
ORO	**440**	5.0	5.0	5	B7G0589	07/24/2017	07/24/17 16:39	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Client Sample ID IDW-S
Lab ID: 1702649-01

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	*76.2 %*	*18 - 130*		B7G0589	07/24/2017	*07/24/17 16:39*	

Organochlorine Pesticides by EPA 8081

Analyst: CO

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**0.80**	4.0	0.44	2	B7G0514	07/20/2017	07/23/17 15:38	J
4,4´-DDE	**0.42**	4.0	0.39	2	B7G0514	07/20/2017	07/23/17 15:38	J
4,4´-DDT [2C]	**1.3**	4.0	0.27	2	B7G0514	07/20/2017	07/23/17 15:38	J
Aldrin	ND	2.0	0.54	2	B7G0514	07/20/2017	07/23/17 15:38	
alpha-BHC	ND	2.0	0.39	2	B7G0514	07/20/2017	07/23/17 15:38	
alpha-Chlordane [2C]	**1.1**	2.0	0.43	2	B7G0514	07/20/2017	07/23/17 15:38	J
beta-BHC	ND	2.0	0.45	2	B7G0514	07/20/2017	07/23/17 15:38	
Chlordane [2C]	**11**	17	1.8	2	B7G0514	07/20/2017	07/23/17 15:38	J
delta-BHC	ND	2.0	0.41	2	B7G0514	07/20/2017	07/23/17 15:38	
Dieldrin	ND	4.0	0.50	2	B7G0514	07/20/2017	07/23/17 15:38	
Endosulfan I	ND	2.0	0.43	2	B7G0514	07/20/2017	07/23/17 15:38	
Endosulfan II	ND	4.0	0.43	2	B7G0514	07/20/2017	07/23/17 15:38	
Endosulfan sulfate	ND	4.0	0.43	2	B7G0514	07/20/2017	07/23/17 15:38	
Endrin	ND	4.0	0.45	2	B7G0514	07/20/2017	07/23/17 15:38	
Endrin aldehyde	ND	4.0	0.55	2	B7G0514	07/20/2017	07/23/17 15:38	
Endrin ketone	ND	4.0	0.41	2	B7G0514	07/20/2017	07/23/17 15:38	
gamma-BHC	ND	2.0	0.40	2	B7G0514	07/20/2017	07/23/17 15:38	
gamma-Chlordane [2C]	**1.6**	2.0	0.45	2	B7G0514	07/20/2017	07/23/17 15:38	J
Heptachlor	ND	2.0	0.38	2	B7G0514	07/20/2017	07/23/17 15:38	
Heptachlor epoxide	ND	2.0	0.41	2	B7G0514	07/20/2017	07/23/17 15:38	
Methoxychlor	ND	10	0.36	2	B7G0514	07/20/2017	07/23/17 15:38	
Toxaphene	ND	100	16	2	B7G0514	07/20/2017	07/23/17 15:38	
Surrogate: Decachlorobiphenyl	*29.5 %*	*27 - 123*			B7G0514	07/20/2017	*07/23/17 15:38*	
Surrogate: Tetrachloro-m-xylene	*33.7 %*	*26 - 108*			B7G0514	07/20/2017	*07/23/17 15:38*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Client Sample ID IDW-L

Lab ID: 1702649-02

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	**0.010**	0.010	0.0021	1	B7G0459	07/19/2017	07/19/17 16:28	
Arsenic	**0.025**	0.010	0.0067	1	B7G0459	07/19/2017	07/19/17 16:28	
Barium	**0.16**	0.0030	0.0008	1	B7G0459	07/19/2017	07/19/17 16:28	
Beryllium	ND	0.0030	0.0004	1	B7G0459	07/19/2017	07/19/17 16:28	
Cadmium	**0.0011**	0.0030	0.0002	1	B7G0459	07/19/2017	07/19/17 16:28	J
Chromium	**0.031**	0.0030	0.0016	1	B7G0459	07/19/2017	07/19/17 16:28	
Cobalt	**0.034**	0.0030	0.0007	1	B7G0459	07/19/2017	07/19/17 16:28	
Copper	**0.064**	0.0090	0.0023	1	B7G0459	07/19/2017	07/19/17 16:28	
Lead	**0.13**	0.0050	0.0028	1	B7G0459	07/19/2017	07/19/17 16:28	
Molybdenum	**0.0009**	0.0050	0.0007	1	B7G0459	07/19/2017	07/19/17 16:28	J
Nickel	**0.023**	0.0050	0.0024	1	B7G0459	07/19/2017	07/19/17 16:28	
Selenium	ND	0.010	0.0034	1	B7G0459	07/19/2017	07/19/17 16:28	
Silver	ND	0.0030	0.0006	1	B7G0459	07/19/2017	07/19/17 16:28	
Thallium	ND	0.015	0.0026	1	B7G0459	07/19/2017	07/19/17 16:28	
Vanadium	**0.028**	0.0030	0.0011	1	B7G0459	07/19/2017	07/19/17 16:28	
Zinc	**0.26**	0.025	0.0021	1	B7G0459	07/19/2017	07/19/17 16:28	

Mercury by AA (Cold Vapor) EPA 7470A

Analyst: KEK

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.20	0.05	1	B7G0461	07/19/2017	07/20/17 10:43	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	0.05	0.05	1	B7G0470	07/20/2017	07/20/17 14:19	
Surrogate: 4-Bromofluorobenzene	*91.8 %*		*70 - 130*		B7G0470	07/20/2017	*07/20/17 14:19*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**0.39**	0.05	0.05	1	B7G0548	07/21/2017	07/21/17 18:07	
ORO	**0.46**	0.05	0.05	1	B7G0548	07/21/2017	07/21/17 18:07	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Client Sample ID IDW-L
Lab ID: 1702649-02

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	*59.0 %*	*20 - 150*		B7G0548	07/21/2017	*07/21/17 18:07*	

Organochlorine Pesticides by EPA 8081

Analyst: CO

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	0.05	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
4,4´-DDE	ND	0.05	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
4,4´-DDT [2C]	**0.02**	0.05	0.004	1	B7G0534	07/21/2017	07/23/17 01:52	J
Aldrin	ND	0.02	0.004	1	B7G0534	07/21/2017	07/23/17 01:52	
alpha-BHC	ND	0.02	0.004	1	B7G0534	07/21/2017	07/23/17 01:52	
alpha-Chlordane	ND	0.02	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
beta-BHC	ND	0.02	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
Chlordane	ND	0.25	0.03	1	B7G0534	07/21/2017	07/23/17 01:52	
delta-BHC	ND	0.02	0.004	1	B7G0534	07/21/2017	07/23/17 01:52	
Dieldrin	ND	0.05	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
Endosulfan I	ND	0.02	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
Endosulfan II	ND	0.05	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
Endosulfan sulfate	ND	0.05	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
Endrin	ND	0.05	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
Endrin aldehyde	ND	0.05	0.006	1	B7G0534	07/21/2017	07/23/17 01:52	
Endrin ketone	ND	0.05	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
gamma-BHC	ND	0.02	0.004	1	B7G0534	07/21/2017	07/23/17 01:52	
gamma-Chlordane	ND	0.02	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
Heptachlor	ND	0.02	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
Heptachlor epoxide	ND	0.02	0.005	1	B7G0534	07/21/2017	07/23/17 01:52	
Methoxychlor	ND	0.25	0.004	1	B7G0534	07/21/2017	07/23/17 01:52	
Toxaphene	ND	2.5	0.23	1	B7G0534	07/21/2017	07/23/17 01:52	
Surrogate: Decachlorobiphenyl	*9.93 %*	*0 - 132*		B7G0534	07/21/2017	*07/23/17 01:52*	
Surrogate: Tetrachloro-m-xylene	*17.0 %*	*15 - 130*		B7G0534	07/21/2017	*07/23/17 01:52*	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0459 - EPA 3010A_W										
Blank (B7G0459-BLK1)					Prepared: 7/19/2017 Analyzed: 7/19/2017					
Antimony	0.003218	0.010	0.0021							J
Arsenic	ND	0.010	0.0067							
Barium	ND	0.0030	0.0008							
Beryllium	ND	0.0030	0.0004							
Cadmium	0.000187	0.0030	0.0002							J
Chromium	ND	0.0030	0.0016							
Cobalt	0.001099	0.0030	0.0007							J
Copper	ND	0.0090	0.0023							
Lead	ND	0.0050	0.0028							
Molybdenum	0.000736	0.0050	0.0007							J
Nickel	ND	0.0050	0.0024							
Selenium	0.004344	0.010	0.0034							J
Silver	ND	0.0030	0.0006							
Thallium	ND	0.015	0.0026							
Vanadium	ND	0.0030	0.0011							
Zinc	4.1571E-3	0.025	0.0021							J
LCS (B7G0459-BS1)					Prepared: 7/19/2017 Analyzed: 7/19/2017					
Antimony	0.974333	0.010	0.0021	1.00000		97.4	80 - 120			
Arsenic	0.935420	0.010	0.0067	1.00000		93.5	80 - 120			
Barium	0.972224	0.0030	0.0008	1.00000		97.2	80 - 120			
Beryllium	0.968532	0.0030	0.0004	1.00000		96.9	80 - 120			
Cadmium	0.930034	0.0030	0.0002	1.00000		93.0	80 - 120			
Chromium	0.975613	0.0030	0.0016	1.00000		97.6	80 - 120			
Cobalt	0.965338	0.0030	0.0007	1.00000		96.5	80 - 120			
Copper	0.962520	0.0090	0.0023	1.00000		96.3	80 - 120			
Lead	0.953383	0.0050	0.0028	1.00000		95.3	80 - 120			
Molybdenum	0.933606	0.0050	0.0007	1.00000		93.4	80 - 120			
Nickel	0.951306	0.0050	0.0024	1.00000		95.1	80 - 120			
Selenium	0.922274	0.010	0.0034	1.00000		92.2	80 - 120			
Silver	0.939275	0.0030	0.0006	1.00000		93.9	80 - 120			
Thallium	0.952020	0.015	0.0026	1.00000		95.2	80 - 120			
Vanadium	0.966612	0.0030	0.0011	1.00000		96.7	80 - 120			
Zinc	0.927362	0.025	0.0021	1.00000		92.7	80 - 120			
Duplicate (B7G0459-DUP1)				**Source: 1702649-02**	Prepared: 7/19/2017 Analyzed: 7/19/2017					
Antimony	0.011957	0.010	0.0021		0.010132			16.5	20	
Arsenic	0.026658	0.010	0.0067		0.025324			5.13	20	
Barium	0.130601	0.0030	0.0008		0.155732			17.6	20	
Beryllium	ND	0.0030	0.0004		ND			NR	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0459 - EPA 3010A_W (continued)										
Duplicate (B7G0459-DUP1) - Continued			**Source: 1702649-02**		Prepared: 7/19/2017 Analyzed: 7/19/2017					
Cadmium	0.001066	0.0030	0.0002		0.001105			3.64	20	J
Chromium	0.028430	0.0030	0.0016		0.030780			7.94	20	
Cobalt	0.032451	0.0030	0.0007		0.033671			3.69	20	
Copper	0.062042	0.0090	0.0023		0.063905			2.96	20	
Lead	0.130377	0.0050	0.0028		0.129757			0.476	20	
Molybdenum	1.0868E-3	0.0050	0.0007		0.000896			19.2	20	J
Nickel	0.021925	0.0050	0.0024		0.022516			2.66	20	
Selenium	ND	0.010	0.0034		ND			NR	20	
Silver	0.000683	0.0030	0.0006		ND			NR	20	J
Thallium	ND	0.015	0.0026		ND			NR	20	
Vanadium	0.026162	0.0030	0.0011		0.028271			7.75	20	
Zinc	0.253307	0.025	0.0021		0.259653			2.47	20	
Matrix Spike (B7G0459-MS1)			**Source: 1702649-02**		Prepared: 7/19/2017 Analyzed: 7/19/2017					
Antimony	2.42559	0.010	0.0021	2.50000	0.010132	96.6	76 - 118			
Arsenic	2.41919	0.010	0.0067	2.50000	0.025324	95.8	74 - 123			
Barium	2.56434	0.0030	0.0008	2.50000	0.155732	96.3	76 - 117			
Beryllium	2.42720	0.0030	0.0004	2.50000	ND	97.1	84 - 114			
Cadmium	2.35505	0.0030	0.0002	2.50000	0.001105	94.2	73 - 115			
Chromium	2.47558	0.0030	0.0016	2.50000	0.030780	97.8	76 - 117			
Cobalt	2.40617	0.0030	0.0007	2.50000	0.033671	94.9	78 - 113			
Copper	2.53596	0.0090	0.0023	2.50000	0.063905	98.9	70 - 132			
Lead	2.51125	0.0050	0.0028	2.50000	0.129757	95.3	78 - 109			
Molybdenum	2.40380	0.0050	0.0007	2.50000	0.000896	96.1	84 - 111			
Nickel	2.39545	0.0050	0.0024	2.50000	0.022516	94.9	66 - 125			
Selenium	2.33176	0.010	0.0034	2.50000	ND	93.3	76 - 117			
Silver	2.41198	0.0030	0.0006	2.50000	ND	96.5	64 - 133			
Thallium	2.36867	0.015	0.0026	2.50000	ND	94.7	63 - 118			
Vanadium	2.46826	0.0030	0.0011	2.50000	0.028271	97.6	76 - 119			
Zinc	2.57717	0.025	0.0021	2.50000	0.259653	92.7	56 - 131			
Matrix Spike Dup (B7G0459-MSD1)			**Source: 1702649-02**		Prepared: 7/19/2017 Analyzed: 7/19/2017					
Antimony	2.35905	0.010	0.0021	2.50000	0.010132	94.0	76 - 118	2.78	20	
Arsenic	2.34931	0.010	0.0067	2.50000	0.025324	93.0	74 - 123	2.93	20	
Barium	2.47993	0.0030	0.0008	2.50000	0.155732	93.0	76 - 117	3.35	20	
Beryllium	2.37119	0.0030	0.0004	2.50000	ND	94.8	84 - 114	2.33	20	
Cadmium	2.25833	0.0030	0.0002	2.50000	0.001105	90.3	73 - 115	4.19	20	
Chromium	2.38094	0.0030	0.0016	2.50000	0.030780	94.0	76 - 117	3.90	20	
Cobalt	2.30963	0.0030	0.0007	2.50000	0.033671	91.0	78 - 113	4.09	20	
Copper	2.43424	0.0090	0.0023	2.50000	0.063905	94.8	70 - 132	4.09	20	
Lead	2.43447	0.0050	0.0028	2.50000	0.129757	92.2	78 - 109	3.10	20	
Molybdenum	2.32184	0.0050	0.0007	2.50000	0.000896	92.8	84 - 111	3.47	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0459 - EPA 3010A_W (continued)										
Matrix Spike Dup (B7G0459-MSD1) - Continued			**Source: 1702649-02**		Prepared: 7/19/2017 Analyzed: 7/19/2017					
Nickel	2.30755	0.0050	0.0024	2.50000	0.022516	91.4	66 - 125	3.74	20	
Selenium	2.26397	0.010	0.0034	2.50000	ND	90.6	76 - 117	2.95	20	
Silver	2.32099	0.0030	0.0006	2.50000	ND	92.8	64 - 133	3.84	20	
Thallium	2.28378	0.015	0.0026	2.50000	ND	91.4	63 - 118	3.65	20	
Vanadium	2.37053	0.0030	0.0011	2.50000	0.028271	93.7	76 - 119	4.04	20	
Zinc	2.48464	0.025	0.0021	2.50000	0.259653	89.0	56 - 131	3.66	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0486 - EPA 3050B_S										
Blank (B7G0486-BLK1)					Prepared: 7/20/2017 Analyzed: 7/21/2017					
Antimony	ND	2.0	0.44							
Arsenic	ND	1.0	0.70							
Barium	ND	1.0	0.10							
Beryllium	ND	1.0	0.04							
Cadmium	ND	1.0	0.09							
Chromium	ND	1.0	0.12							
Cobalt	ND	1.0	0.10							
Copper	ND	2.0	0.11							
Lead	ND	1.0	0.19							
Molybdenum	ND	1.0	0.13							
Nickel	ND	1.0	0.10							
Selenium	ND	1.0	0.88							
Silver	ND	1.0	0.07							
Thallium	ND	1.0	0.42							
Vanadium	ND	1.0	0.19							
Zinc	ND	1.0	0.18							
LCS (B7G0486-BS1)					Prepared: 7/20/2017 Analyzed: 7/21/2017					
Antimony	47.1331	2.0	0.44	50.0000		94.3	80 - 120			
Arsenic	44.1001	1.0	0.70	50.0000		88.2	80 - 120			
Barium	46.2284	1.0	0.10	50.0000		92.5	80 - 120			
Beryllium	45.2512	1.0	0.04	50.0000		90.5	80 - 120			
Cadmium	43.5351	1.0	0.09	50.0000		87.1	80 - 120			
Chromium	46.9726	1.0	0.12	50.0000		93.9	80 - 120			
Cobalt	46.3382	1.0	0.10	50.0000		92.7	80 - 120			
Copper	46.2811	2.0	0.11	50.0000		92.6	80 - 120			
Lead	45.6250	1.0	0.19	50.0000		91.2	80 - 120			
Molybdenum	45.2419	1.0	0.13	50.0000		90.5	80 - 120			
Nickel	45.5069	1.0	0.10	50.0000		91.0	80 - 120			
Selenium	43.3984	1.0	0.88	50.0000		86.8	80 - 120			
Silver	44.8576	1.0	0.07	50.0000		89.7	80 - 120			
Thallium	46.6156	1.0	0.42	50.0000		93.2	80 - 120			
Vanadium	46.4723	1.0	0.19	50.0000		92.9	80 - 120			
Zinc	42.6512	1.0	0.18	50.0000		85.3	80 - 120			
Duplicate (B7G0486-DUP1)				**Source: 1702649-01**	Prepared: 7/20/2017 Analyzed: 7/21/2017					
Antimony	ND	2.0	0.44		ND			NR	20	
Arsenic	16.6710	1.0	0.70		19.6942			16.6	20	
Barium	129.440	1.0	0.10		123.413			4.77	20	
Beryllium	ND	1.0	0.04		ND			NR	20	
Cadmium	0.387918	1.0	0.09		0.531008			31.1	20	R, J
Chromium	23.0640	1.0	0.12		22.6405			1.85	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0486 - EPA 3050B_S (continued)										
Duplicate (B7G0486-DUP1) - Continued			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/21/2017					
Cobalt	8.62827	1.0	0.10		8.90114			3.11	20	
Copper	20.2936	2.0	0.11		22.3667			9.72	20	
Lead	96.4308	1.0	0.19		107.842			11.2	20	
Molybdenum	ND	1.0	0.13		ND			NR	20	
Nickel	19.2280	1.0	0.10		20.3725			5.78	20	
Selenium	ND	1.0	0.88		ND			NR	20	
Silver	ND	1.0	0.07		ND			NR	20	
Thallium	ND	1.0	0.42		ND			NR	20	
Vanadium	27.8039	1.0	0.19		28.2434			1.57	20	
Zinc	112.829	1.0	0.18		131.913			15.6	20	
Matrix Spike (B7G0486-MS1)			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/21/2017					
Antimony	75.3101	2.0	0.44	125.000	ND	60.2	34 - 103			
Arsenic	115.065	1.0	0.70	125.000	19.6942	76.3	59 - 103			
Barium	233.976	1.0	0.10	125.000	123.413	88.5	30 - 134			
Beryllium	94.8668	1.0	0.04	125.000	ND	75.9	62 - 105			
Cadmium	89.3710	1.0	0.09	125.000	0.531008	71.1	53 - 102			
Chromium	120.838	1.0	0.12	125.000	22.6405	78.6	51 - 111			
Cobalt	101.993	1.0	0.10	125.000	8.90114	74.5	55 - 105			
Copper	121.596	2.0	0.11	125.000	22.3667	79.4	53 - 126			
Lead	205.713	1.0	0.19	125.000	107.842	78.3	34 - 129			
Molybdenum	98.6078	1.0	0.13	125.000	ND	78.9	57 - 105			
Nickel	111.777	1.0	0.10	125.000	20.3725	73.1	49 - 109			
Selenium	90.9420	1.0	0.88	125.000	ND	72.8	57 - 99			
Silver	95.9850	1.0	0.07	125.000	ND	76.8	64 - 105			
Thallium	86.1432	1.0	0.42	125.000	ND	68.9	46 - 105			
Vanadium	127.734	1.0	0.19	125.000	28.2434	79.6	60 - 109			
Zinc	216.094	1.0	0.18	125.000	131.913	67.3	29 - 122			
Matrix Spike Dup (B7G0486-MSD1)			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/21/2017					
Antimony	77.0928	2.0	0.44	125.000	ND	61.7	34 - 103	2.34	20	
Arsenic	114.058	1.0	0.70	125.000	19.6942	75.5	59 - 103	0.879	20	
Barium	242.024	1.0	0.10	125.000	123.413	94.9	30 - 134	3.38	20	
Beryllium	96.0674	1.0	0.04	125.000	ND	76.9	62 - 105	1.26	20	
Cadmium	92.3565	1.0	0.09	125.000	0.531008	73.5	53 - 102	3.29	20	
Chromium	125.482	1.0	0.12	125.000	22.6405	82.3	51 - 111	3.77	20	
Cobalt	103.153	1.0	0.10	125.000	8.90114	75.4	55 - 105	1.13	20	
Copper	128.519	2.0	0.11	125.000	22.3667	84.9	53 - 126	5.54	20	
Lead	222.823	1.0	0.19	125.000	107.842	92.0	34 - 129	7.99	20	
Molybdenum	100.094	1.0	0.13	125.000	ND	80.1	57 - 105	1.50	20	
Nickel	114.155	1.0	0.10	125.000	20.3725	75.0	49 - 109	2.11	20	
Selenium	91.6209	1.0	0.88	125.000	ND	73.3	57 - 99	0.744	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0486 - EPA 3050B_S (continued)										
Matrix Spike Dup (B7G0486-MSD1) - Continued			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/21/2017					
Silver	100.731	1.0	0.07	125.000	ND	80.6	64 - 105	4.83	20	
Thallium	87.9654	1.0	0.42	125.000	ND	70.4	46 - 105	2.09	20	
Vanadium	131.901	1.0	0.19	125.000	28.2434	82.9	60 - 109	3.21	20	
Zinc	228.574	1.0	0.18	125.000	131.913	77.3	29 - 122	5.61	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Mercury by AA (Cold Vapor) EPA 7470A - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0461 - EPA 245.1/7470_W										
Blank (B7G0461-BLK1)					Prepared: 7/19/2017 Analyzed: 7/20/2017					
Mercury	ND	0.20	0.05							
LCS (B7G0461-BS1)					Prepared: 7/19/2017 Analyzed: 7/20/2017					
Mercury	10.2624	0.20	0.05	10.0000		103	80 - 120			
Duplicate (B7G0461-DUP1)			**Source: 1702649-02**		Prepared: 7/19/2017 Analyzed: 7/20/2017					
Mercury	ND	0.20	0.05		ND			NR	20	
Matrix Spike (B7G0461-MS1)			**Source: 1702649-02**		Prepared: 7/19/2017 Analyzed: 7/20/2017					
Mercury	10.2044	0.20	0.05	10.0000	ND	102	70 - 130			
Matrix Spike Dup (B7G0461-MSD1)			**Source: 1702649-02**		Prepared: 7/19/2017 Analyzed: 7/20/2017					
Mercury	10.2956	0.20	0.05	10.0000	ND	103	70 - 130	0.890	20	
Post Spike (B7G0461-PS1)			**Source: 1702649-02**		Prepared: 7/19/2017 Analyzed: 7/20/2017					
Mercury	4.93542			5.00000	0.040590	97.9	85 - 115			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0488 - EPA 7471_S										
Blank (B7G0488-BLK1)					Prepared: 7/20/2017 Analyzed: 7/21/2017					
Mercury	ND	0.10	0.005							
LCS (B7G0488-BS1)					Prepared: 7/20/2017 Analyzed: 7/21/2017					
Mercury	0.856861	0.10	0.005	0.833333		103	80 - 120			
Duplicate (B7G0488-DUP1)			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/21/2017					
Mercury	0.094660	0.10	0.005		0.111760			16.6	20	J
Matrix Spike (B7G0488-MS1)			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/21/2017					
Mercury	0.992788	0.10	0.005	0.833333	0.111760	106	70 - 130			
Matrix Spike Dup (B7G0488-MSD1)			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/21/2017					
Mercury	1.01193	0.10	0.005	0.833333	0.111760	108	70 - 130	1.91	20	
Post Spike (B7G0488-PS1)			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/21/2017					
Mercury	0.008542			5.00000E-3	0.001341	144	85 - 115			M1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0426 - GCVOA_S										
Blank (B7G0426-BLK1)					Prepared: 7/19/2017 Analyzed: 7/19/2017					
Gasoline Range Organics	ND	1.0	0.20							
Surrogate: 4-Bromofluorobenzene	*0.2113*			*0.200000*		*106*	*36 - 125*			
LCS (B7G0426-BS1)					Prepared: 7/19/2017 Analyzed: 7/19/2017					
Gasoline Range Organics	5.08800	1.0	0.20	5.00000		102	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.2144*			*0.200000*		*107*	*36 - 125*			
Duplicate (B7G0426-DUP1)			**Source: 1702649-01**		Prepared: 7/19/2017 Analyzed: 7/19/2017					
Gasoline Range Organics	ND	1.0	0.20		ND			NR	20	
Surrogate: 4-Bromofluorobenzene	*0.2096*			*0.200000*		*105*	*36 - 125*			
Matrix Spike (B7G0426-MS1)			**Source: 1702649-01**		Prepared: 7/19/2017 Analyzed: 7/19/2017					
Gasoline Range Organics	3.74700	1.0	0.20	5.00000	ND	74.9	32 - 161			
Surrogate: 4-Bromofluorobenzene	*0.2178*			*0.200000*		*109*	*36 - 125*			
Matrix Spike Dup (B7G0426-MSD1)			**Source: 1702649-01**		Prepared: 7/19/2017 Analyzed: 7/19/2017					
Gasoline Range Organics	3.79700	1.0	0.20	5.00000	ND	75.9	32 - 161	1.33	20	
Surrogate: 4-Bromofluorobenzene	*0.2182*			*0.200000*		*109*	*36 - 125*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0470 - GCVOA_W										
Blank (B7G0470-BLK1)						Prepared: 7/20/2017 Analyzed: 7/20/2017				
Gasoline Range Organics	ND	0.05	0.05							
Surrogate: 4-Bromofluorobenzene	*0.09805*			*0.100000*		*98.0*	*70 - 130*			
LCS (B7G0470-BS1)						Prepared: 7/20/2017 Analyzed: 7/20/2017				
Gasoline Range Organics	0.883000	0.05	0.05	1.00000		88.3	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.09488*			*0.100000*		*94.9*	*70 - 130*			
LCS Dup (B7G0470-BSD1)						Prepared: 7/20/2017 Analyzed: 7/20/2017				
Gasoline Range Organics	0.902000	0.05	0.05	1.00000		90.2	70 - 130	2.13	20	
Surrogate: 4-Bromofluorobenzene	*0.09718*			*0.100000*		*97.2*	*70 - 130*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0548 - GCSEMI_DRO_W										
Blank (B7G0548-BLK1)					Prepared: 7/21/2017 Analyzed: 7/21/2017					
DRO	ND	0.05	0.05							
ORO	ND	0.05	0.05							
Surrogate: p-Terphenyl	*0.07944*			*8.00000E-2*		*99.3*	*20 - 150*			
LCS (B7G0548-BS1)					Prepared: 7/21/2017 Analyzed: 7/21/2017					
DRO	1.24702	0.05	0.05	1.00000		125	42 - 142			
Surrogate: p-Terphenyl	*0.07653*			*8.00000E-2*		*95.7*	*20 - 150*			
LCS Dup (B7G0548-BSD1)					Prepared: 7/21/2017 Analyzed: 7/21/2017					
DRO	0.912970	0.05	0.05	1.00000		91.3	42 - 142	30.9	20	R
Surrogate: p-Terphenyl	*0.07791*			*8.00000E-2*		*97.4*	*20 - 150*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0589 - GCSEMI_DRO_LL_S										
Blank (B7G0589-BLK1)					Prepared: 7/24/2017 Analyzed: 7/24/2017					
DRO	ND	1.0	1.0							
ORO	ND	1.0	1.0							
Surrogate: p-Terphenyl	*2.730*			*2.66667*		*102*	*18 - 130*			
LCS (B7G0589-BS1)					Prepared: 7/24/2017 Analyzed: 7/24/2017					
DRO	23.8250	1.0	1.0	33.3333		71.5	34 - 120			
Surrogate: p-Terphenyl	*2.316*			*2.66667*		*86.8*	*18 - 130*			
Duplicate (B7G0589-DUP1)			**Source: 1702649-01**		Prepared: 7/24/2017 Analyzed: 7/24/2017					
DRO	89.9533	5.0	5.0		124.403			32.1	20	R
Surrogate: p-Terphenyl	*1.743*			*2.66667*		*65.4*	*18 - 130*			
Matrix Spike (B7G0589-MS1)			**Source: 1702649-01**		Prepared: 7/24/2017 Analyzed: 7/24/2017					
DRO	76.2550	5.0	5.0	33.3333	124.403	-144	12 - 132			M2
Surrogate: p-Terphenyl	*1.942*			*2.66667*		*72.8*	*18 - 130*			
Matrix Spike Dup (B7G0589-MSD1)			**Source: 1702649-01**		Prepared: 7/24/2017 Analyzed: 7/24/2017					
DRO	119.410	5.0	5.0	33.3333	124.403	-15.0	12 - 132	44.1	20	M2
Surrogate: p-Terphenyl	*2.098*			*2.66667*		*78.7*	*18 - 130*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0514 - GCSEMI_PCB/PEST_S										
Blank (B7G0514-BLK1)							Prepared: 7/20/2017 Analyzed: 7/23/2017			
4,4´-DDD	ND	2.0	0.22							
4,4´-DDD [2C]	ND	2.0	0.22							
4,4´-DDE	ND	2.0	0.20							
4,4´-DDE [2C]	ND	2.0	0.20							
4,4´-DDT	ND	2.0	0.13							
4,4´-DDT [2C]	ND	2.0	0.13							
Aldrin	ND	1.0	0.27							
Aldrin [2C]	ND	1.0	0.27							
alpha-BHC	ND	1.0	0.20							
alpha-BHC [2C]	ND	1.0	0.20							
alpha-Chlordane	ND	1.0	0.21							
alpha-Chlordane [2C]	ND	1.0	0.21							
beta-BHC	ND	1.0	0.23							
beta-BHC [2C]	ND	1.0	0.23							
Chlordane	ND	8.5	0.90							
Chlordane [2C]	ND	8.5	0.90							
delta-BHC	ND	1.0	0.21							
delta-BHC [2C]	ND	1.0	0.21							
Dieldrin	ND	2.0	0.25							
Dieldrin [2C]	ND	2.0	0.25							
Endosulfan I	ND	1.0	0.21							
Endosulfan I [2C]	ND	1.0	0.21							
Endosulfan II	ND	2.0	0.22							
Endosulfan II [2C]	ND	2.0	0.22							
Endosulfan sulfate	ND	2.0	0.21							
Endosulfan Sulfate [2C]	ND	2.0	0.21							
Endrin	ND	2.0	0.23							
Endrin [2C]	ND	2.0	0.23							
Endrin aldehyde	ND	2.0	0.28							
Endrin aldehyde [2C]	ND	2.0	0.28							
Endrin ketone	ND	2.0	0.20							
Endrin ketone [2C]	ND	2.0	0.20							
gamma-BHC	ND	1.0	0.20							
gamma-BHC [2C]	ND	1.0	0.20							
gamma-Chlordane	ND	1.0	0.23							
gamma-Chlordane [2C]	ND	1.0	0.23							
Heptachlor	ND	1.0	0.19							
Heptachlor [2C]	ND	1.0	0.19							
Heptachlor epoxide	ND	1.0	0.20							
Heptachlor epoxide [2C]	ND	1.0	0.20							
Methoxychlor	ND	5.0	0.18							

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0514 - GCSEMI_PCB/PEST_S (continued)										
Blank (B7G0514-BLK1) - Continued					Prepared: 7/20/2017 Analyzed: 7/23/2017					
Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	8.2							
Toxaphene [2C]	ND	50	8.2							
Surrogate: Decachlorobiphenyl	*10.62*			*16.6667*		*63.7*	*27 - 123*			
Surrogate: Decachlorobiphenyl [	*12.04*			*16.6667*		*72.3*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*11.93*			*16.6667*		*71.6*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene	*13.05*			*16.6667*		*78.3*	*26 - 108*			
LCS (B7G0514-BS1)					Prepared: 7/20/2017 Analyzed: 7/23/2017					
4,4´-DDD	12.9503	2.0	0.22	16.6667		77.7	53 - 125			
4,4´-DDD [2C]	14.1093	2.0	0.22	16.6667		84.7	53 - 125			
4,4´-DDE	13.4623	2.0	0.20	16.6667		80.8	54 - 113			
4,4´-DDE [2C]	15.0345	2.0	0.20	16.6667		90.2	54 - 113			
4,4´-DDT	13.6382	2.0	0.13	16.6667		81.8	25 - 127			
4,4´-DDT [2C]	10.0243	2.0	0.13	16.6667		60.1	25 - 127			
Aldrin	13.0273	1.0	0.27	16.6667		78.2	59 - 107			
Aldrin [2C]	14.4058	1.0	0.27	16.6667		86.4	59 - 107			
alpha-BHC	13.5518	1.0	0.20	16.6667		81.3	59 - 104			
alpha-BHC [2C]	16.2495	1.0	0.20	16.6667		97.5	59 - 104			
alpha-Chlordane	13.1315	1.0	0.21	16.6667		78.8	54 - 110			
alpha-Chlordane [2C]	13.6488	1.0	0.21	16.6667		81.9	54 - 110			
beta-BHC	13.1033	1.0	0.23	16.6667		78.6	57 - 103			
beta-BHC [2C]	14.9875	1.0	0.23	16.6667		89.9	57 - 103			
delta-BHC	12.7670	1.0	0.21	16.6667		76.6	16 - 120			
delta-BHC [2C]	12.3385	1.0	0.21	16.6667		74.0	16 - 120			
Dieldrin	12.0535	2.0	0.25	16.6667		72.3	61 - 109			
Dieldrin [2C]	13.3643	2.0	0.25	16.6667		80.2	61 - 109			
Endosulfan I	12.2777	1.0	0.21	16.6667		73.7	60 - 106			
Endosulfan I [2C]	13.5990	1.0	0.21	16.6667		81.6	60 - 106			
Endosulfan II	12.9163	2.0	0.22	16.6667		77.5	59 - 108			
Endosulfan II [2C]	13.5197	2.0	0.22	16.6667		81.1	59 - 108			
Endosulfan sulfate	11.2922	2.0	0.21	16.6667		67.8	54 - 110			
Endosulfan Sulfate [2C]	13.1095	2.0	0.21	16.6667		78.7	54 - 110			
Endrin	13.7228	2.0	0.23	16.6667		82.3	63 - 112			
Endrin [2C]	15.0182	2.0	0.23	16.6667		90.1	63 - 112			
Endrin aldehyde	10.7207	2.0	0.28	16.6667		64.3	64 - 119			
Endrin aldehyde [2C]	12.4433	2.0	0.28	16.6667		74.7	64 - 119			
Endrin ketone	11.1127	2.0	0.20	16.6667		66.7	54 - 115			
Endrin ketone [2C]	11.7950	2.0	0.20	16.6667		70.8	54 - 115			
gamma-BHC	13.1295	1.0	0.20	16.6667		78.8	60 - 107			
gamma-BHC [2C]	15.2695	1.0	0.20	16.6667		91.6	60 - 107			

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 11640.001
Report To : Julie Harriman
Reported : 07/28/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0514 - GCSEMI_PCB/PEST_S (continued)										
LCS (B7G0514-BS1) - Continued						Prepared: 7/20/2017 Analyzed: 7/23/2017				
gamma-Chlordane	12.6913	1.0	0.23	16.6667		76.1	57 - 106			
gamma-Chlordane [2C]	13.9725	1.0	0.23	16.6667		83.8	57 - 106			
Heptachlor	14.6355	1.0	0.19	16.6667		87.8	54 - 114			
Heptachlor [2C]	16.7355	1.0	0.19	16.6667		100	54 - 114			
Heptachlor epoxide	12.5060	1.0	0.20	16.6667		75.0	61 - 106			
Heptachlor epoxide [2C]	13.7505	1.0	0.20	16.6667		82.5	61 - 106			
Methoxychlor	12.9535	5.0	0.18	16.6667		77.7	18 - 138			
Methoxychlor [2C]	14.8625	5.0	0.18	16.6667		89.2	18 - 138			
Surrogate: Decachlorobiphenyl	*11.71*			*16.6667*		*70.3*	*27 - 123*			
Surrogate: Decachlorobiphenyl [	*13.11*			*16.6667*		*78.7*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*13.38*			*16.6667*		*80.3*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene	*14.84*			*16.6667*		*89.1*	*26 - 108*			
Duplicate (B7G0514-DUP1)			**Source: 1702649-01**			Prepared: 7/20/2017 Analyzed: 7/23/2017				
4,4´-DDD	0.946000	4.0	0.44		0.795333			17.3	20	J
4,4´-DDD [2C]	ND	4.0	0.44		ND			NR	20	
4,4´-DDE	0.473000	4.0	0.39		0.416667			12.7	20	J
4,4´-DDE [2C]	ND	4.0	0.39		ND			NR	20	
4,4´-DDT	1.52567	4.0	0.27		0.792333			63.3	20	R, J
4,4´-DDT [2C]	1.39200	4.0	0.27		1.27233			8.98	20	J
Aldrin	ND	2.0	0.54		ND				20	
Aldrin [2C]	ND	2.0	0.54		ND				20	
alpha-BHC	ND	2.0	0.39		ND				20	
alpha-BHC [2C]	ND	2.0	0.39		ND				20	
alpha-Chlordane	0.638667	2.0	0.43		0.536000			17.5	20	J
alpha-Chlordane [2C]	1.65633	2.0	0.43		1.12600			38.1	20	R, J
beta-BHC	ND	2.0	0.45		ND				20	
beta-BHC [2C]	ND	2.0	0.45		ND				20	
delta-BHC	ND	2.0	0.41		ND				20	
delta-BHC [2C]	ND	2.0	0.41		ND				20	
Dieldrin	ND	4.0	0.50		ND				20	
Dieldrin [2C]	ND	4.0	0.50		ND				20	
Endosulfan I	ND	2.0	0.43		ND				20	
Endosulfan I [2C]	ND	2.0	0.43		ND				20	
Endosulfan II	ND	4.0	0.43		ND				20	
Endosulfan II [2C]	ND	4.0	0.43		ND				20	
Endosulfan sulfate	ND	4.0	0.43		ND				20	
Endosulfan Sulfate [2C]	ND	4.0	0.43		ND				20	
Endrin	ND	4.0	0.45		ND			NR	20	
Endrin [2C]	ND	4.0	0.45		ND			NR	20	
Endrin aldehyde	ND	4.0	0.55		ND				20	

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 11640.001
Report To : Julie Harriman
Reported : 07/28/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0514 - GCSEMI_PCB/PEST_S (continued)										
Duplicate (B7G0514-DUP1) - Continued			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/23/2017					
Endrin aldehyde [2C]	ND	4.0	0.55		ND				20	
Endrin ketone	ND	4.0	0.41		ND				20	
Endrin ketone [2C]	ND	4.0	0.41		ND				20	
gamma-BHC	ND	2.0	0.40		ND				20	
gamma-BHC [2C]	ND	2.0	0.40		ND				20	
gamma-Chlordane	0.507000	2.0	0.45		ND			NR	20	J
gamma-Chlordane [2C]	1.83233	2.0	0.45		1.62200			12.2	20	J
Heptachlor	ND	2.0	0.38		ND				20	
Heptachlor [2C]	ND	2.0	0.38		ND				20	
Heptachlor epoxide	ND	2.0	0.41		ND				20	
Heptachlor epoxide [2C]	ND	2.0	0.41		ND				20	
Methoxychlor	ND	10	0.36		ND				20	
Methoxychlor [2C]	ND	10	0.36		ND				20	
Surrogate: Decachlorobiphenyl	*5.237*			*16.6667*		*31.4*	*27 - 123*			
Surrogate: Decachlorobiphenyl [	*4.893*			*16.6667*		*29.4*	*27 - 123*			
Surrogate: Tetrachloro-m-xylene	*6.159*			*16.6667*		*37.0*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene	*5.565*			*16.6667*		*33.4*	*26 - 108*			
Matrix Spike (B7G0514-MS1)			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/23/2017					
4,4´-DDD	5.71933	4.0	0.44	16.6667	0.795333	29.5	25 - 141			
4,4´-DDD [2C]	4.56833	4.0	0.44	16.6667	ND	27.4	25 - 141			
4,4´-DDE	6.17833	4.0	0.39	16.6667	0.416667	34.6	22 - 141			
4,4´-DDE [2C]	5.29033	4.0	0.39	16.6667	ND	31.7	22 - 141			
4,4´-DDT	9.91633	4.0	0.27	16.6667	0.792333	54.7	15 - 136			
4,4´-DDT [2C]	5.02833	4.0	0.27	16.6667	1.27233	22.5	15 - 136			
Aldrin	6.07167	2.0	0.54	16.6667	ND	36.4	33 - 118			
Aldrin [2C]	5.79033	2.0	0.54	16.6667	ND	34.7	33 - 118			
alpha-BHC	5.54400	2.0	0.39	16.6667	ND	33.3	30 - 116			
alpha-BHC [2C]	4.98833	2.0	0.39	16.6667	ND	29.9	30 - 116			M
alpha-Chlordane	6.31267	2.0	0.43	16.6667	0.536000	34.7	30 - 123			
alpha-Chlordane [2C]	8.42233	2.0	0.43	16.6667	1.12600	43.8	30 - 123			
beta-BHC	3.56467	2.0	0.45	16.6667	ND	21.4	24 - 121			M
beta-BHC [2C]	2.76467	2.0	0.45	16.6667	ND	16.6	24 - 121			M
delta-BHC	2.51733	2.0	0.41	16.6667	ND	15.1	7 - 120			
delta-BHC [2C]	2.11633	2.0	0.41	16.6667	ND	12.7	7 - 120			
Dieldrin	3.62967	4.0	0.50	16.6667	ND	21.8	25 - 136			M, J
Dieldrin [2C]	3.20933	4.0	0.50	16.6667	ND	19.3	25 - 136			M, J
Endosulfan I	4.05367	2.0	0.43	16.6667	ND	24.3	18 - 134			
Endosulfan I [2C]	3.76100	2.0	0.43	16.6667	ND	22.6	18 - 134			
Endosulfan II	2.51867	4.0	0.43	16.6667	ND	15.1	28 - 128			M, J
Endosulfan II [2C]	1.94500	4.0	0.43	16.6667	ND	11.7	28 - 128			M, J

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : Burroughs MS, 11640.001
Report To : Julie Harriman
Reported : 07/28/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0514 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike (B7G0514-MS1) - Continued			**Source: 1702649-01**			Prepared: 7/20/2017 Analyzed: 7/23/2017				
Endosulfan sulfate	1.79433	4.0	0.43	16.6667	ND	10.8	5 - 145			J
Endosulfan Sulfate [2C]	1.17867	4.0	0.43	16.6667	ND	7.07	5 - 145			J
Endrin	4.54700	4.0	0.45	16.6667	ND	27.3	26 - 142			
Endrin [2C]	3.67000	4.0	0.45	16.6667	ND	22.0	26 - 142			M, J
Endrin aldehyde	1.64067	4.0	0.55	16.6667	ND	9.84	8 - 146			J
Endrin aldehyde [2C]	1.27200	4.0	0.55	16.6667	ND	7.63	8 - 146			M, J
Endrin ketone	1.85100	4.0	0.41	16.6667	ND	11.1	16 - 139			M, J
Endrin ketone [2C]	1.33733	4.0	0.41	16.6667	ND	8.02	16 - 139			M, J
gamma-BHC	4.83833	2.0	0.40	16.6667	ND	29.0	30 - 122			M
gamma-BHC [2C]	4.24300	2.0	0.40	16.6667	ND	25.5	30 - 122			M
gamma-Chlordane	5.41167	2.0	0.45	16.6667	ND	32.5	18 - 132			
gamma-Chlordane [2C]	4.52767	2.0	0.45	16.6667	1.62200	17.4	18 - 132			M
Heptachlor	7.02667	2.0	0.38	16.6667	ND	42.2	34 - 122			
Heptachlor [2C]	6.33300	2.0	0.38	16.6667	ND	38.0	34 - 122			
Heptachlor epoxide	4.55000	2.0	0.41	16.6667	ND	27.3	21 - 135			
Heptachlor epoxide [2C]	3.94300	2.0	0.41	16.6667	ND	23.7	21 - 135			
Methoxychlor	3.89333	10	0.36	16.6667	ND	23.4	8 - 162			J
Methoxychlor [2C]	3.55600	10	0.36	16.6667	ND	21.3	8 - 162			J
Surrogate: Decachlorobiphenyl	*5.307*			*16.6667*		*31.8*	*27 - 123*			
Surrogate: Decachlorobiphenyl [	*3.969*			*16.6667*		*23.8*	*27 - 123*			M
Surrogate: Tetrachloro-m-xylene	*6.004*			*16.6667*		*36.0*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene	*5.281*			*16.6667*		*31.7*	*26 - 108*			
Matrix Spike Dup (B7G0514-MSD1)			**Source: 1702649-01**			Prepared: 7/20/2017 Analyzed: 7/23/2017				
4,4´-DDD	6.54167	4.0	0.44	16.6667	0.795333	34.5	25 - 141	13.4	20	
4,4´-DDD [2C]	5.24600	4.0	0.44	16.6667	ND	31.5	25 - 141	13.8	20	
4,4´-DDE	6.29533	4.0	0.39	16.6667	0.416667	35.3	22 - 141	1.88	20	
4,4´-DDE [2C]	5.43267	4.0	0.39	16.6667	ND	32.6	22 - 141	2.65	20	
4,4´-DDT	11.4943	4.0	0.27	16.6667	0.792333	64.2	15 - 136	14.7	20	
4,4´-DDT [2C]	5.19233	4.0	0.27	16.6667	1.27233	23.5	15 - 136	3.21	20	
Aldrin	6.32533	2.0	0.54	16.6667	ND	38.0	33 - 118	4.09	20	
Aldrin [2C]	6.52633	2.0	0.54	16.6667	ND	39.2	33 - 118	12.0	20	
alpha-BHC	6.64300	2.0	0.39	16.6667	ND	39.9	30 - 116	18.0	20	
alpha-BHC [2C]	6.31233	2.0	0.39	16.6667	ND	37.9	30 - 116	23.4	20	R3
alpha-Chlordane	6.90333	2.0	0.43	16.6667	0.536000	38.2	30 - 123	8.94	20	
alpha-Chlordane [2C]	13.1523	2.0	0.43	16.6667	1.12600	72.2	30 - 123	43.8	20	R3
beta-BHC	4.79700	2.0	0.45	16.6667	ND	28.8	24 - 121	29.5	20	R3
beta-BHC [2C]	3.94833	2.0	0.45	16.6667	ND	23.7	24 - 121	35.3	20	R3
delta-BHC	3.79433	2.0	0.41	16.6667	ND	22.8	7 - 120	40.5	20	R3
delta-BHC [2C]	3.13333	2.0	0.41	16.6667	ND	18.8	7 - 120	38.7	20	R3
Dieldrin	4.79867	4.0	0.50	16.6667	ND	28.8	25 - 136	27.7	20	R3

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0514 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B7G0514-MSD1) - Continued			**Source: 1702649-01**		Prepared: 7/20/2017 Analyzed: 7/23/2017					
Dieldrin [2C]	4.30667	4.0	0.50	16.6667	ND	25.8	25 - 136	29.2	20	R3
Endosulfan I	5.18400	2.0	0.43	16.6667	ND	31.1	18 - 134	24.5	20	R3
Endosulfan I [2C]	4.99800	2.0	0.43	16.6667	ND	30.0	18 - 134	28.2	20	R3
Endosulfan II	3.78100	4.0	0.43	16.6667	ND	22.7	28 - 128	40.1	20	R3, J
Endosulfan II [2C]	2.89233	4.0	0.43	16.6667	ND	17.4	28 - 128	39.2	20	R3, J
Endosulfan sulfate	2.57300	4.0	0.43	16.6667	ND	15.4	5 - 145	35.7	20	R3, J
Endosulfan Sulfate [2C]	1.96733	4.0	0.43	16.6667	ND	11.8	5 - 145	50.1	20	R3, J
Endrin	6.03700	4.0	0.45	16.6667	ND	36.2	26 - 142	28.2	20	R3
Endrin [2C]	4.86800	4.0	0.45	16.6667	ND	29.2	26 - 142	28.1	20	R3
Endrin aldehyde	2.40767	4.0	0.55	16.6667	ND	14.4	8 - 146	37.9	20	R3, J
Endrin aldehyde [2C]	1.97067	4.0	0.55	16.6667	ND	11.8	8 - 146	43.1	20	R3, J
Endrin ketone	2.40533	4.0	0.41	16.6667	ND	14.4	16 - 139	26.0	20	R3, J
Endrin ketone [2C]	2.30433	4.0	0.41	16.6667	ND	13.8	16 - 139	53.1	20	R3, J
gamma-BHC	6.09300	2.0	0.40	16.6667	ND	36.6	30 - 122	23.0	20	R3
gamma-BHC [2C]	5.65067	2.0	0.40	16.6667	ND	33.9	30 - 122	28.5	20	R3
gamma-Chlordane	6.02133	2.0	0.45	16.6667	ND	36.1	18 - 132	10.7	20	
gamma-Chlordane [2C]	6.14033	2.0	0.45	16.6667	1.62200	27.1	18 - 132	30.2	20	R3
Heptachlor	7.64600	2.0	0.38	16.6667	ND	45.9	34 - 122	8.44	20	
Heptachlor [2C]	6.92500	2.0	0.38	16.6667	ND	41.5	34 - 122	8.93	20	
Heptachlor epoxide	5.52533	2.0	0.41	16.6667	ND	33.2	21 - 135	19.4	20	
Heptachlor epoxide [2C]	5.28433	2.0	0.41	16.6667	ND	31.7	21 - 135	29.1	20	R3
Methoxychlor	5.22700	10	0.36	16.6667	ND	31.4	8 - 162	29.2	20	R3, J
Methoxychlor [2C]	5.06067	10	0.36	16.6667	ND	30.4	8 - 162	34.9	20	R3, J
Surrogate: Decachlorobiphenyl	*5.296*			*16.6667*		*31.8*	*27 - 123*			
Surrogate: Decachlorobiphenyl [	*4.428*			*16.6667*		*26.6*	*27 - 123*			M
Surrogate: Tetrachloro-m-xylene	*6.324*			*16.6667*		*37.9*	*26 - 108*			
Surrogate: Tetrachloro-m-xylene	*5.781*			*16.6667*		*34.7*	*26 - 108*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0534 - GCSEMI_PCB/PEST_W										
Blank (B7G0534-BLK1)							Prepared: 7/21/2017 Analyzed: 7/23/2017			
4,4´-DDD	ND	0.05	0.005							
4,4´-DDD [2C]	ND	0.05	0.005							
4,4´-DDE	ND	0.05	0.005							
4,4´-DDE [2C]	ND	0.05	0.005							
4,4´-DDT	ND	0.05	0.004							
4,4´-DDT [2C]	ND	0.05	0.004							
Aldrin	ND	0.02	0.004							
Aldrin [2C]	ND	0.02	0.004							
alpha-BHC	ND	0.02	0.004							
alpha-BHC [2C]	ND	0.02	0.004							
alpha-Chlordane	ND	0.02	0.005							
alpha-Chlordane [2C]	ND	0.02	0.005							
beta-BHC	ND	0.02	0.005							
beta-BHC [2C]	ND	0.02	0.005							
Chlordane	ND	0.25	0.03							
Chlordane [2C]	ND	0.25	0.03							
delta-BHC	ND	0.02	0.004							
delta-BHC [2C]	ND	0.02	0.004							
Dieldrin	ND	0.05	0.005							
Dieldrin [2C]	ND	0.05	0.005							
Endosulfan I	ND	0.02	0.005							
Endosulfan I [2C]	ND	0.02	0.005							
Endosulfan II	ND	0.05	0.005							
Endosulfan II [2C]	ND	0.05	0.005							
Endosulfan sulfate	ND	0.05	0.005							
Endosulfan Sulfate [2C]	ND	0.05	0.005							
Endrin	ND	0.05	0.005							
Endrin [2C]	ND	0.05	0.005							
Endrin aldehyde	ND	0.05	0.006							
Endrin aldehyde [2C]	ND	0.05	0.006							
Endrin ketone	ND	0.05	0.005							
Endrin ketone [2C]	ND	0.05	0.005							
gamma-BHC	ND	0.02	0.004							
gamma-BHC [2C]	ND	0.02	0.004							
gamma-Chlordane	ND	0.02	0.005							
gamma-Chlordane [2C]	ND	0.02	0.005							
Heptachlor	ND	0.02	0.005							
Heptachlor [2C]	ND	0.02	0.005							
Heptachlor epoxide	ND	0.02	0.005							
Heptachlor epoxide [2C]	ND	0.02	0.005							
Methoxychlor	ND	0.25	0.004							

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0534 - GCSEMI_PCB/PEST_W (continued)										
Blank (B7G0534-BLK1) - Continued					Prepared: 7/21/2017 Analyzed: 7/23/2017					
Methoxychlor [2C]	ND	0.25	0.004							
Toxaphene	ND	2.5	0.23							
Toxaphene [2C]	ND	2.5	0.23							
Surrogate: Decachlorobiphenyl	*0.3117*			*0.500000*		*62.3*	*0 - 132*			
Surrogate: Decachlorobiphenyl [	*0.3253*			*0.500000*		*65.1*	*0 - 132*			
Surrogate: Tetrachloro-m-xylene	*0.3610*			*0.500000*		*72.2*	*15 - 130*			
Surrogate: Tetrachloro-m-xylene	*0.3873*			*0.500000*		*77.5*	*15 - 130*			
LCS (B7G0534-BS1)					Prepared: 7/21/2017 Analyzed: 7/23/2017					
4,4´-DDD	0.363685	0.05	0.005	0.500000		72.7	42 - 135			
4,4´-DDD [2C]	0.388545	0.05	0.005	0.500000		77.7	42 - 135			
4,4´-DDE	0.377710	0.05	0.005	0.500000		75.5	37 - 133			
4,4´-DDE [2C]	0.404960	0.05	0.005	0.500000		81.0	37 - 133			
4,4´-DDT	0.397040	0.05	0.004	0.500000		79.4	9 - 142			
4,4´-DDT [2C]	0.281530	0.05	0.004	0.500000		56.3	9 - 142			
Aldrin	0.365675	0.02	0.004	0.500000		73.1	42 - 127			
Aldrin [2C]	0.395960	0.02	0.004	0.500000		79.2	42 - 127			
alpha-BHC	0.384770	0.02	0.004	0.500000		77.0	48 - 126			
alpha-BHC [2C]	0.442350	0.02	0.004	0.500000		88.5	48 - 126			
alpha-Chlordane	0.368190	0.02	0.005	0.500000		73.6	42 - 130			
alpha-Chlordane [2C]	0.370415	0.02	0.005	0.500000		74.1	42 - 130			
beta-BHC	0.370390	0.02	0.005	0.500000		74.1	49 - 120			
beta-BHC [2C]	0.413335	0.02	0.005	0.500000		82.7	49 - 120			
delta-BHC	0.388825	0.02	0.004	0.500000		77.8	22 - 133			
delta-BHC [2C]	0.368340	0.02	0.004	0.500000		73.7	22 - 133			
Dieldrin	0.337925	0.05	0.005	0.500000		67.6	46 - 131			
Dieldrin [2C]	0.361435	0.05	0.005	0.500000		72.3	46 - 131			
Endosulfan I	0.344240	0.02	0.005	0.500000		68.8	45 - 125			
Endosulfan I [2C]	0.370780	0.02	0.005	0.500000		74.2	45 - 125			
Endosulfan II	0.364790	0.05	0.005	0.500000		73.0	45 - 134			
Endosulfan II [2C]	0.361400	0.05	0.005	0.500000		72.3	45 - 134			
Endosulfan sulfate	0.330990	0.05	0.005	0.500000		66.2	41 - 123			
Endosulfan Sulfate [2C]	0.364480	0.05	0.005	0.500000		72.9	41 - 123			
Endrin	0.383585	0.05	0.005	0.500000		76.7	46 - 138			
Endrin [2C]	0.403755	0.05	0.005	0.500000		80.8	46 - 138			
Endrin aldehyde	0.312200	0.05	0.006	0.500000		62.4	46 - 125			
Endrin aldehyde [2C]	0.341845	0.05	0.006	0.500000		68.4	46 - 125			
Endrin ketone	0.326055	0.05	0.005	0.500000		65.2	40 - 128			
Endrin ketone [2C]	0.328220	0.05	0.005	0.500000		65.6	40 - 128			
gamma-BHC	0.372500	0.02	0.004	0.500000		74.5	48 - 129			
gamma-BHC [2C]	0.425035	0.02	0.004	0.500000		85.0	48 - 129			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0534 - GCSEMI_PCB/PEST_W (continued)										
LCS (B7G0534-BS1) - Continued						Prepared: 7/21/2017 Analyzed: 7/23/2017				
gamma-Chlordane	0.355460	0.02	0.005	0.500000		71.1	41 - 126			
gamma-Chlordane [2C]	0.380600	0.02	0.005	0.500000		76.1	41 - 126			
Heptachlor	0.413365	0.02	0.005	0.500000		82.7	41 - 132			
Heptachlor [2C]	0.451925	0.02	0.005	0.500000		90.4	41 - 132			
Heptachlor epoxide	0.350840	0.02	0.005	0.500000		70.2	45 - 123			
Heptachlor epoxide [2C]	0.376480	0.02	0.005	0.500000		75.3	45 - 123			
Methoxychlor	0.379530	0.25	0.004	0.500000		75.9	13 - 140			
Methoxychlor [2C]	0.403480	0.25	0.004	0.500000		80.7	13 - 140			
Surrogate: Decachlorobiphenyl	*0.3205*			*0.500000*		*64.1*	*0 - 132*			
Surrogate: Decachlorobiphenyl [	*0.3297*			*0.500000*		*65.9*	*0 - 132*			
Surrogate: Tetrachloro-m-xylene	*0.3745*			*0.500000*		*74.9*	*15 - 130*			
Surrogate: Tetrachloro-m-xylene	*0.4016*			*0.500000*		*80.3*	*15 - 130*			
LCS Dup (B7G0534-BSD1)						Prepared: 7/21/2017 Analyzed: 7/23/2017				
4,4´-DDD	0.354345	0.05	0.005	0.500000		70.9	42 - 135	2.60	20	
4,4´-DDD [2C]	0.376835	0.05	0.005	0.500000		75.4	42 - 135	3.06	20	
4,4´-DDE	0.369515	0.05	0.005	0.500000		73.9	37 - 133	2.19	20	
4,4´-DDE [2C]	0.389240	0.05	0.005	0.500000		77.8	37 - 133	3.96	20	
4,4´-DDT	0.389680	0.05	0.004	0.500000		77.9	9 - 142	1.87	20	
4,4´-DDT [2C]	0.313135	0.05	0.004	0.500000		62.6	9 - 142	10.6	20	
Aldrin	0.357150	0.02	0.004	0.500000		71.4	42 - 127	2.36	20	
Aldrin [2C]	0.384380	0.02	0.004	0.500000		76.9	42 - 127	2.97	20	
alpha-BHC	0.376640	0.02	0.004	0.500000		75.3	48 - 126	2.14	20	
alpha-BHC [2C]	0.427980	0.02	0.004	0.500000		85.6	48 - 126	3.30	20	
alpha-Chlordane	0.360105	0.02	0.005	0.500000		72.0	42 - 130	2.22	20	
alpha-Chlordane [2C]	0.359825	0.02	0.005	0.500000		72.0	42 - 130	2.90	20	
beta-BHC	0.361100	0.02	0.005	0.500000		72.2	49 - 120	2.54	20	
beta-BHC [2C]	0.399250	0.02	0.005	0.500000		79.8	49 - 120	3.47	20	
delta-BHC	0.379140	0.02	0.004	0.500000		75.8	22 - 133	2.52	20	
delta-BHC [2C]	0.357435	0.02	0.004	0.500000		71.5	22 - 133	3.01	20	
Dieldrin	0.329905	0.05	0.005	0.500000		66.0	46 - 131	2.40	20	
Dieldrin [2C]	0.350590	0.05	0.005	0.500000		70.1	46 - 131	3.05	20	
Endosulfan I	0.337000	0.02	0.005	0.500000		67.4	45 - 125	2.13	20	
Endosulfan I [2C]	0.360680	0.02	0.005	0.500000		72.1	45 - 125	2.76	20	
Endosulfan II	0.356590	0.05	0.005	0.500000		71.3	45 - 134	2.27	20	
Endosulfan II [2C]	0.365820	0.05	0.005	0.500000		73.2	45 - 134	1.22	20	
Endosulfan sulfate	0.334620	0.05	0.005	0.500000		66.9	41 - 123	1.09	20	
Endosulfan Sulfate [2C]	0.351315	0.05	0.005	0.500000		70.3	41 - 123	3.68	20	
Endrin	0.374545	0.05	0.005	0.500000		74.9	46 - 138	2.38	20	
Endrin [2C]	0.391705	0.05	0.005	0.500000		78.3	46 - 138	3.03	20	
Endrin aldehyde	0.347025	0.05	0.006	0.500000		69.4	46 - 125	10.6	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7G0534 - GCSEMI_PCB/PEST_W (continued)										
LCS Dup (B7G0534-BSD1) - Continued					Prepared: 7/21/2017 Analyzed: 7/23/2017					
Endrin aldehyde [2C]	0.367350	0.05	0.006	0.500000		73.5	46 - 125	7.19	20	
Endrin ketone	0.306550	0.05	0.005	0.500000		61.3	40 - 128	6.17	20	
Endrin ketone [2C]	0.320845	0.05	0.005	0.500000		64.2	40 - 128	2.27	20	
gamma-BHC	0.364300	0.02	0.004	0.500000		72.9	48 - 129	2.23	20	
gamma-BHC [2C]	0.411530	0.02	0.004	0.500000		82.3	48 - 129	3.23	20	
gamma-Chlordane	0.347295	0.02	0.005	0.500000		69.5	41 - 126	2.32	20	
gamma-Chlordane [2C]	0.367290	0.02	0.005	0.500000		73.5	41 - 126	3.56	20	
Heptachlor	0.404375	0.02	0.005	0.500000		80.9	41 - 132	2.20	20	
Heptachlor [2C]	0.438640	0.02	0.005	0.500000		87.7	41 - 132	2.98	20	
Heptachlor epoxide	0.343270	0.02	0.005	0.500000		68.7	45 - 123	2.18	20	
Heptachlor epoxide [2C]	0.365670	0.02	0.005	0.500000		73.1	45 - 123	2.91	20	
Methoxychlor	0.398955	0.25	0.004	0.500000		79.8	13 - 140	4.99	20	
Methoxychlor [2C]	0.393260	0.25	0.004	0.500000		78.7	13 - 140	2.57	20	
Surrogate: Decachlorobiphenyl	*0.3129*			*0.500000*		*62.6*	*0 - 132*			
Surrogate: Decachlorobiphenyl [	*0.3278*			*0.500000*		*65.6*	*0 - 132*			
Surrogate: Tetrachloro-m-xylene	*0.3659*			*0.500000*		*73.2*	*15 - 130*			
Surrogate: Tetrachloro-m-xylene	*0.3889*			*0.500000*		*77.8*	*15 - 130*			

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 07/28/2017

Notes and Definitions

R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
M	Matrix spike recovery outside of acceptance limit.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☒ ATL	1. CHILLED	☒	☐	5. # OF SAMPLES MATCH COC	☒	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☒	6. PRESERVED	☒	☐
☐ GSO	3. CONTAINER INTACT	☒	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☒		5.9	

CUSTOMER

Company: Leighton Consulting, Inc. (LCI)
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel: 949-250-1421 Fax: 949-250-1114

SEND REPORT TO:
Attn: Julie Harriman Email: jharriman@leightongroup.com
Company: LCI
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: acctpayable@leightongroup.com
Company: Leighton
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

PROJECT SAMPLES

Project Name: Burroughs MS
Project No.: 11640.001
Sampler: W. Scomicr
Quote No: —
PO #: —
Special Instructions/Comments: —

ITEM	Lab No. 1702649 thru 1249	Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	TPH(as gas, diesel, and oil) by 8015M	6010B/7470A-Title 22metals	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1702647-01	IDW-S	7-17-17	0942					X				X	X	X					5	2	5	1	—	
2	↓ -02	IDW-L	"	0945					X				X	X				X		5	6	3/1/3	1/2		
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Encircle or Write Requested Analysis — Encircle Sample Matrix

Container: # — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister — Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Wallace Scomicr — Submitter Print Name — Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Wallace Scomicr	7-17-17	0915	Jonathan KEO	7-17-17	1515
	7.17.17	1800	MAR	7/17/17	1800

ADVANCED TECHNOLOGY LABORATORIES

August 24, 2017

Julie Harriman
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

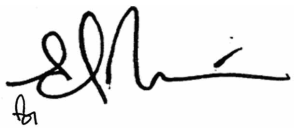
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1702649
Client Reference : Burroughs MS, 11640.001

Enclosed are the results for sample(s) received on July 17, 2017 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 08/24/2017

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IDW-S	1702649-01	Soil	7/17/17 9:42	7/17/17 15:15

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 08/24/2017

Client Sample ID IDW-S

Lab ID: 1702649-01

TCLP Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.021**	0.25	0.014	5	B7H0453	08/22/2017	08/22/17 11:21	J

STLC Metals by ICP-AES by EPA 6010B — **Analyst: GO**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.6**	1.0	0.057	20	B7H0486	08/23/2017	08/23/17 15:19	D1

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 08/24/2017

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7H0453 - EPA 3010A_S										
Blank (B7H0453-BLK1)					Prepared: 8/22/2017 Analyzed: 8/22/2017					
Lead	ND	0.050	0.0028							
LCS (B7H0453-BS1)					Prepared: 8/22/2017 Analyzed: 8/22/2017					
Lead	0.935275	0.050	0.0028	1.00000		93.5	80 - 120			
Duplicate (B7H0453-DUP1)			**Source: 1702649-01**		Prepared: 8/22/2017 Analyzed: 8/22/2017					
Lead	ND	0.25	0.014		0.020938			NR	20	
Matrix Spike (B7H0453-MS1)			**Source: 1702649-01**		Prepared: 8/22/2017 Analyzed: 8/22/2017					
Lead	2.17334	0.25	0.014	2.50000	0.020938	86.1	78 - 109			
Matrix Spike Dup (B7H0453-MSD1)			**Source: 1702649-01**		Prepared: 8/22/2017 Analyzed: 8/22/2017					
Lead	2.32455	0.25	0.014	2.50000	0.020938	92.1	78 - 109	6.72	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 08/24/2017

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B7H0486 - STLC_S Extraction										
Blank (B7H0486-BLK1)					Prepared: 8/23/2017 Analyzed: 8/23/2017					
Lead	ND	1.0	0.057							
LCS (B7H0486-BS1)					Prepared: 8/23/2017 Analyzed: 8/23/2017					
Lead	1.88292			2.00000		94.1	80 - 120			
Duplicate (B7H0486-DUP1)			**Source: 1702649-01**		Prepared: 8/23/2017 Analyzed: 8/23/2017					
Lead	4.64251	1.0	0.057		4.55612			1.88	20	
Matrix Spike (B7H0486-MS1)			**Source: 1702649-01**		Prepared: 8/23/2017 Analyzed: 8/23/2017					
Lead	6.38981			2.50000	4.55612	73.3	44 - 130			
Matrix Spike Dup (B7H0486-MSD1)			**Source: 1702649-01**		Prepared: 8/23/2017 Analyzed: 8/23/2017					
Lead	6.64953			2.50000	4.55612	83.7	44 - 130	3.98	20	

Certificate of Analysis

Leighton Consulting, Inc.	Project Number : Burroughs MS, 11640.001
17781 Cowan Street	Report To : Julie Harriman
Irvine , CA 92614	Reported : 08/24/2017

Notes and Definitions

J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Dominic Mata

From: Julie Harriman [jharriman@leightongroup.com]
Sent: Monday, August 21, 2017 12:24 PM
To: Dominic Mata
Cc: customer.relations@atlglobal.com; Aiko Mackus (Aiko.Mackus@belshire.com)
Subject: RE: Results - Burroughs MS, 11640.001 (ATL# 1702649)
Attachments: 1702649.pdf

Dominic,

Please analyze the IDW-S sample for lead-STLC and lead-TCLP on 24 hr rush. Please cc Aiko Mackus when you send the report to us.

Thank you,
Julie

From: Dominic Mata [mailto:dominic@atlglobal.com]
Sent: Friday, July 28, 2017 4:52 PM
To: Julie Harriman
Cc: customer.relations@atlglobal.com
Subject: Results - Burroughs MS, 11640.001 (ATL# 1702649)

Hi Julie,

Please find your results for the above project attached. If I can further assist, please let me know. Thanks.

Dominic Mata
Project Coordinator

Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 238
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Leighton Consulting
Address:	17781 Cowan Suite 100 Irvine, CA 92614
Attn:	Julie Harriman

Lab Request:	392713
Report Date:	07/25/2017
Date Received:	07/18/2017
Client ID:	5970

Comments: Burroughs MS
#11640.001
660 S. McCadden Place, Los Angeles, CA

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
392713-001	EB-1-2017-07-17
392713-002	EB-10-2-S15-0.5
392713-003	EB-10-2-S15-1.5
392713-004	EB-10-2-S15-2.5
392713-005	EB-10-2-S20-0.5
392713-006	EB-10-2-S20-1.5
392713-007	EB-10-2-S20-2.5
392713-008	EB-11-1-S15-0.5
392713-009	EB-11-1-S15-1.5
392713-010	EB-11-2-N15-0.5
392713-011	EB-11-2-N15-0.5-D
392713-012	EB-11-2-N15-1.5
392713-013	EB-11-2-N15-2.5
392713-014	EB-12-1-S15-0.5
392713-015	EB-12-1-S15-1.5
392713-016	EB-12-1-S15-2.5
392713-017	EB-12-1-S20-0.5
392713-018	EB-12-1-S20-0.5-D
392713-019	EB-12-1-S20-1.5
392713-020	EB-12-1-S20-2.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Diane M. Galvan

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

The reports of the Enthalpy Analytical, Inc. are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Water **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 09:40 **Site:**
Sample #: **392713-001** **Client Sample #:** EB-1-2017-07-17 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A					QCBatchID: QC1180736		
Arsenic	ND	1	0.01	mg/L	07/19/17	07/19/17	JN	
Lead	ND	1	0.005	mg/L	07/19/17	07/19/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:40 **Site:**
Sample #: **392713-002** **Client Sample #:** EB-10-2-S15-0.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**48.9**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:42 **Site:**
Sample #: **392713-003** **Client Sample #:** EB-10-2-S15-1.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**72.9**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:45 **Site:**
Sample #: **392713-004** **Client Sample #:** EB-10-2-S15-2.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**8.60**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:49 **Site:**
Sample #: **392713-005** **Client Sample #:** EB-10-2-S20-0.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**74.3**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:51 **Site:**
Sample #: **392713-006** **Client Sample #:** EB-10-2-S20-1.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**87.7**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:55 **Site:**
Sample #: **392713-007** **Client Sample #:** EB-10-2-S20-2.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**42.8**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 09:00 **Site:**
Sample #: 392713-008 **Client Sample #:** EB-11-1-S15-0.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**231**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 09:05 **Site:**
Sample #: 392713-009 **Client Sample #:** EB-11-1-S15-1.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**94.8**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:30 **Site:**
Sample #: 392713-010 **Client Sample #:** EB-11-2-N15-0.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**68.8**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:30 **Site:**
Sample #: 392713-011 **Client Sample #:** EB-11-2-N15-0.5-D **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**79.3**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:34 **Site:**
Sample #: 392713-012 **Client Sample #:** EB-11-2-N15-1.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**72.0**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:37 **Site:**
Sample #: 392713-013 **Client Sample #:** EB-11-2-N15-2.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Lead	**63.9**	1	0.5	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 09:07 **Site:**
Sample #: 392713-014 **Client Sample #:** EB-12-1-S15-0.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Arsenic	**59.7**	1	1	mg/Kg	07/19/17	07/20/17	JN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 09:10 **Site:**
Sample #: 392713-015 **Client Sample #:** EB-12-1-S15-1.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Arsenic	**44.1**	1	1	mg/Kg	07/19/17	07/20/17	JN	

Matrix:	Solid	**Client:**	Leighton Consulting	**Collector:**	Client
Sampled:	07/17/2017 09:12	**Site:**			
Sample #:	**392713-016**	**Client Sample #:**	EB-12-1-S15-2.5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Arsenic	**42.7**	1	1	mg/Kg	07/19/17	07/20/17	JN	

Matrix:	Solid	**Client:**	Leighton Consulting	**Collector:**	Client
Sampled:	07/17/2017 09:12	**Site:**			
Sample #:	**392713-017**	**Client Sample #:**	EB-12-1-S20-0.5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Arsenic	**38.2**	1	1	mg/Kg	07/19/17	07/20/17	JN	

Matrix:	Solid	**Client:**	Leighton Consulting	**Collector:**	Client
Sampled:	07/17/2017 09:12	**Site:**			
Sample #:	**392713-018**	**Client Sample #:**	EB-12-1-S20-0.5-D	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Arsenic	**78.6**	1	1	mg/Kg	07/19/17	07/20/17	JN	

Matrix:	Solid	**Client:**	Leighton Consulting	**Collector:**	Client
Sampled:	07/17/2017 09:15	**Site:**			
Sample #:	**392713-019**	**Client Sample #:**	EB-12-1-S20-1.5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Arsenic	**48.4**	1	1	mg/Kg	07/19/17	07/20/17	JN	

Matrix:	Solid	**Client:**	Leighton Consulting	**Collector:**	Client
Sampled:	07/17/2017 09:18	**Site:**			
Sample #:	**392713-020**	**Client Sample #:**	EB-12-1-S20-2.5	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B					QCBatchID: QC1180749		
Arsenic	**17.4**	1	1	mg/Kg	07/19/17	07/20/17	JN	

QCBatchID: QC1180736	**Analyst:** dswafford	**Method:** EPA 6010B	
Matrix: Water	**Analyzed:** 07/19/2017	**Instrument:** AAICP (group)	

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1180736MB1					
Antimony	ND	mg/L		0.02	
Arsenic	ND	mg/L		0.01	
Barium	ND	mg/L		0.01	
Beryllium	ND	mg/L		0.005	
Cadmium	ND	mg/L		0.005	
Calcium	ND	mg/L		0.1	
Chromium	ND	mg/L		0.01	
Cobalt	ND	mg/L		0.005	
Copper	ND	mg/L		0.01	
Lead	ND	mg/L		0.005	
Magnesium	ND	mg/L		0.1	
Molybdenum	ND	mg/L		0.01	
Nickel	ND	mg/L		0.02	
Selenium	ND	mg/L		0.01	
Silver	ND	mg/L		0.005	
Thallium	ND	mg/L		0.005	
Vanadium	ND	mg/L		0.005	
Zinc	ND	mg/L		0.02	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1180736LCS1											
Antimony	2		1.81		mg/L	91			80-120		
Arsenic	2		1.80		mg/L	90			80-120		
Barium	2		1.87		mg/L	94			80-120		
Beryllium	2		1.88		mg/L	94			80-120		
Cadmium	2		1.87		mg/L	94			80-120		
Chromium	2		1.84		mg/L	92			80-120		
Cobalt	2		1.89		mg/L	95			80-120		
Copper	2		1.84		mg/L	92			80-120		
Lead	2		1.85		mg/L	93			80-120		
Molybdenum	2		1.85		mg/L	93			80-120		
Nickel	2		1.88		mg/L	94			80-120		
Selenium	2		1.82		mg/L	91			80-120		
Silver	2		1.85		mg/L	93			80-120		
Thallium	2		1.81		mg/L	91			80-120		
Vanadium	2		1.86		mg/L	93			80-120		
Zinc	2		1.86		mg/L	93			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1180736MS1, QC1180736MSD1												**Source: 392713-001**
Antimony	ND	1	1	0.915	0.956	mg/L	92	96	4.4	75-125	20	
Arsenic	ND	1	1	0.956	0.906	mg/L	96	91	5.4	75-125	20	
Barium	ND	1	1	0.947	0.902	mg/L	95	90	4.9	75-125	20	
Beryllium	ND	1	1	0.977	0.964	mg/L	98	96	1.3	75-125	20	
Cadmium	ND	1	1	0.950	0.905	mg/L	95	91	4.9	75-125	20	
Chromium	ND	1	1	0.939	0.894	mg/L	94	89	4.9	75-125	20	
Cobalt	ND	1	1	0.959	0.918	mg/L	96	92	4.4	75-125	20	

QCBatchID: QC1180736	**Analyst:** dswafford	**Method:** EPA 6010B	
Matrix: Water	**Analyzed:** 07/19/2017	**Instrument:** AAICP (group)	

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1180736MS1, QC1180736MSD1												**Source: 392713-001**
Copper	ND	1	1	0.944	1.00	mg/L	94	100	5.8	75-125	20	
Lead	ND	1	1	0.925	0.898	mg/L	93	90	3.0	75-125	20	
Molybdenum	0.003	1	1	0.947	0.899	mg/L	94	90	5.2	75-125	20	
Nickel	ND	1	1	0.948	0.906	mg/L	95	91	4.5	75-125	20	
Selenium	ND	1	1	0.904	0.960	mg/L	90	96	6.0	75-125	20	
Silver	ND	1	1	0.930	0.923	mg/L	93	92	0.8	75-125	20	
Thallium	ND	1	1	0.961	0.904	mg/L	96	90	6.1	75-125	20	
Vanadium	ND	1	1	0.946	0.930	mg/L	95	93	1.7	75-125	20	
Zinc	ND	1	1	0.952	0.908	mg/L	95	91	4.7	75-125	20	

QCBatchID: QC1180749	**Analyst:** dswafford	**Method:** EPA 6010B	
Matrix: Solid	**Analyzed:** 07/19/2017	**Instrument:** AAICP (group)	

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1180749MB1						
Arsenic	ND	mg/Kg		1		
Lead	ND	mg/Kg		0.5		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1180749LCS1											
Arsenic	100		93.0		mg/Kg	93			80-120		
Lead	100		93.4		mg/Kg	93			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1180749MS1, QC1180749MSD1												**Source: 392713-002**
Arsenic	4.82	100	100	106	106	mg/Kg	101	101	0.0	75-125	20	
Lead	48.9	100	100	157	163	mg/Kg	108	114	3.8	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave, Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 392713 Page: 1 of 2	Standard: ✓ 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Leighton Consulting, Inc.	Name:	Burroughs MS
Report To:	Julie Harriman	Number:	11640.001
Email:	jharriman@leightongroup.com	P.O. #:	—
Address:	17781 Cowan	Address:	660 S. McCadden Place
	Irvine, CA 92614		Los Angeles, CA
Phone:	949-250-1421	Global ID:	—
Fax:	949-250-1114	Sampled By:	W. Siemers

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: EPA 6010C Lead	Analysis Request: EPA 6010C Arsenic	Test Instructions / Comments
1	EB-1-2017-07-17	7-17-17	0940	W	1	3	X	X	
2	EB-10-2-S15-0.5		0840	S		—	X		
3	EB-10-2-S15-1.5		0842				X		
4	EB-10-2-S15-2.5		0845				X		
5	EB-10-2-S20-0.5		0849				X		
6	EB-10-2-S20-1.5		0851				X		
7	EB-10-2-S20-2.5		0855				X		
8	EB-11-1-S15-0.5		0900				X		
9	EB-11-1-S15-1.5		0905				X		
10	EB-11-2-N15-0.5		0830				X		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Renee S. Morales	Renee S. Morales	Project Engineer / Leighton	7/18/17 11:37 AM
[1] Received By:	Max Montiel	Max Montiel	Enthalpy A.	7/18/17 1137
[2] Relinquished By:	Max Montiel	Max Montiel	Enthalpy A.	7/18/17 1440
[2] Received By:	G. Kim	G. Kim	EA	7/18/17 1440
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave, Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No:	Standard: 4 Day: 3 Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	Page: 2 of 2	2 Day: 1 Day: Same Day:

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:		Name:	
Report To:	See Page #1	Number:	
Email:		P.O. #:	See Page #1
Address:		Address:	
Phone:		Global ID:	
Fax:		Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: EPA 6010B Lead	Analysis Request: EPA 6020B Arsenic	Test Instructions / Comments
1	EB-11-2-N15-0.5-D	7-17-17	0830	S	1	—	X		
2	EB-11-2-N15-1.5		0834				X		
3	EB-11-2-N15-2.5		0837				X		
4	EB12-1-S15-0.5		0907					X	
5	EB12-1-S15-1.5		0910					X	
6	EB-12-1-S15-2.5		0912					X	
7	EB-12-1-S20-0.5		0912					X	
8	EB-12-1-S20-0.5-D		0912					X	
9	EB-12-1-S20-1.5		0915					X	
10	EB-12-1-S20-2.5		0-918					X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Renee S Morales	Renee S Morales	Project Engineer/ Leighton	11:37AM
[1] Received By:	Max Montiel	Max Montiel	Enthalpy A-	7/18/17 1137
[2] Relinquished By:	Max Montiel	Max Montiel	Enthalpy A.	7/18/17 1440
[2] Received By:	Cyl	Glen	EA	7/18/17 1440
[3] Relinquished By:				
[3] Received By:				

Enthalpy Analytical Field Technician Request Form

Version # 2.7
Effective 9/10/15

Client Info	
Client Name:	Leighton
Address:	26074 Avenue Hall, Suite 21
City:	Santa Clarita, CA 91355
Ordered By:	Wallace Sconiers
Client Project Manager:	Diane Galvan
Phone:	661-302-3169
Email:	

Site Info	
Address:	
City:	
Site Contact:	
Phone:	
2nd Site Contact:	
Phone:	

Request Completed By	
Enthalpy Contact:	Diane Galvan
Date / Time:	7/17/17 @ 14:00

Date(s) Needed:	7/18/17 AM				
Before:		After:		Between:	
Assigned Field Technician:					
Arrival Time:		Leave Time:			
Pick Up	✓	**Delivery**			

Micro Sampling					
1st Day:		Sampling Time:		# of samples:	
2nd Day:		Sampling Time:		# of samples:	
Verbal Notification required (ASAP):					
Primary Notification Contact Info:					
Secondary Notification Contact Info:					
Analysis:					

Water/Soil Sampling					
ISCO:		Soil:		Water:	
Meter readings (ISCO):		# of samples:			
Analysis:					

Sampling Notes					
TAT:		Return ASAP:		Return by:	
Comments/Instructions:					

Enthalpy Coordinator Use Only		Enthalpy PM Use Only	
Request Approved:		☐ Emailed ☑ Phoned ☐ No Notification	
Alternate Date/Time proposed:		Client contact notified:	Wallace Sconiers
Request Denied:			
Name / Signature:		Name / Signature:	Diane Galvan
Date/Time:		Date/Time:	7/17/17 @ 14:00

Please initial and date any changes.

ENTHALPY

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Leighton Consulting Project: Burroughs MS

Date Received: 07/18/17 Sampler's Name Present ☑ Yes ☐ No

Sample(s) received in a cooler? ☑ Yes How many? 1 ☐ No (skip section 2) Sample Temp (°C): _____

Sample Temp (°C) from each cooler: #1: 4.1 #2: _____ #3: _____ #4: _____

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information: _____

Section 2

Was the cooler packed with: ✓ Ice ____ Ice Packs ____ Bubble Wrap ____ Styrofoam ____ Paper ____None ____ Other _____

Cooler Temp (°C): #1: 1.1 #2: _____ #3: _____ #4: _____

Section 3	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 4 Explanations/Comments

Section 5

For discrepancies, how was the Project Manager notified? ☐ Verbal ☐ Email PM Initials: _____ Date/Time _____ (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 7/18/17

Enthalpy Analytical, a subsidiary of Montrose Environmental Group ,Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Leighton Consulting
Address: 17781 Cowan
Suite 100
Irvine, CA 92614
Attn: Julie Harriman

Lab Request: 392713
Report Date: 08/18/2017
Date Received: 07/18/2017
Client ID: 5970

Comments: Burroughs MS
#11640.001
660 S. McCadden Place, Los Angeles, CA

Supplemental 1

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
392713-003	EB-10-2-S15-1.5
392713-005	EB-10-2-S20-0.5
392713-006	EB-10-2-S20-1.5
392713-008	EB-11-1-S15-0.5
392713-009	EB-11-1-S15-1.5
392713-010	EB-11-2-N15-0.5
392713-011	EB-11-2-N15-0.5-D
392713-012	EB-11-2-N15-1.5
392713-013	EB-11-2-N15-2.5
392713-014	EB-12-1-S15-0.5
392713-018	EB-12-1-S20-0.5-D

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Diane M. Galvan

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

The reports of the Enthalpy Analytical, Inc. are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:42 **Site:**
Sample #: **392713-003** **Client Sample #:** EB-10-2-S15-1.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1181654		
Lead	ND	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1181660		
Lead	**3.37**	10	0.15	mg/L	08/17/17	08/17/17	KLN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:49 **Site:**
Sample #: **392713-005** **Client Sample #:** EB-10-2-S20-0.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1181654		
Lead	ND	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1181660		
Lead	**3.67**	10	0.15	mg/L	08/17/17	08/17/17	KLN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:51 **Site:**
Sample #: **392713-006** **Client Sample #:** EB-10-2-S20-1.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1181654		
Lead	ND	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1181660		
Lead	**6.40**	10	0.15	mg/L	08/17/17	08/17/17	KLN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 09:00 **Site:**
Sample #: **392713-008** **Client Sample #:** EB-11-1-S15-0.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1181654		
Lead	**0.278**	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1181660		
Lead	**10.4**	10	0.15	mg/L	08/17/17	08/17/17	KLN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 09:05 **Site:**
Sample #: **392713-009** **Client Sample #:** EB-11-1-S15-1.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1181654		
Lead	ND	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1181660		
Lead	**2.02**	10	0.15	mg/L	08/17/17	08/17/17	KLN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:30 **Site:**
Sample #: **392713-010** **Client Sample #:** EB-11-2-N15-0.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1181654		
Lead	ND	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1181660		
Lead	**3.16**	10	0.15	mg/L	08/17/17	08/17/17	KLN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:30 **Site:**
Sample #: 392713-011 **Client Sample #:** EB-11-2-N15-0.5-D **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 1311/3010A					QCBatchID: QC1181654		
Lead	ND	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B NELAC	Prep Method: STLC					QCBatchID: QC1181660		
Lead	**3.10**	10	0.15	mg/L	08/17/17	08/17/17	KLN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:34 **Site:**
Sample #: 392713-012 **Client Sample #:** EB-11-2-N15-1.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 1311/3010A					QCBatchID: QC1181654		
Lead	ND	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B NELAC	Prep Method: STLC					QCBatchID: QC1181660		
Lead	**4.15**	10	0.15	mg/L	08/17/17	08/17/17	KLN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 08:37 **Site:**
Sample #: 392713-013 **Client Sample #:** EB-11-2-N15-2.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 1311/3010A					QCBatchID: QC1181654		
Lead	ND	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B NELAC	Prep Method: STLC					QCBatchID: QC1181660		
Lead	**2.01**	10	0.15	mg/L	08/17/17	08/17/17	KLN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 09:07 **Site:**
Sample #: 392713-014 **Client Sample #:** EB-12-1-S15-0.5 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 1311/3010A					QCBatchID: QC1181654		
Arsenic	**0.095**	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B NELAC	Prep Method: STLC					QCBatchID: QC1181660		
Arsenic	**2.46**	10	0.3	mg/L	08/17/17	08/17/17	KLN	

Matrix: Solid **Client:** Leighton Consulting **Collector:** Client
Sampled: 07/17/2017 09:12 **Site:**
Sample #: 392713-018 **Client Sample #:** EB-12-1-S20-0.5-D **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 1311/3010A					QCBatchID: QC1181654		
Arsenic	**0.169**	1	0.05	mg/L	08/17/17	08/17/17	KLN	
Method: EPA 6010B NELAC	Prep Method: STLC					QCBatchID: QC1181660		
Arsenic	**2.31**	10	0.3	mg/L	08/17/17	08/17/17	KLN	

QCBatchID: QC1181654	**Analyst:** dswafford	**Method:** EPA 6010B			
Matrix: Solid	**Analyzed:** 08/17/2017	**Instrument:** AAICP (group)			

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1181654MB1						
Arsenic	ND	mg/L		0.05		
Lead	ND	mg/L		0.05		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1181654LCS1											
Arsenic	2		2.02		mg/L	101			80-120		
Lead	2		1.693		mg/L	85			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1181654MS1, QC1181654MSD1												**Source: 392713-003**
Arsenic	0.011	1	1	1.005	1.030	mg/L	99	102	2.5	75-125	20	
Lead	0.021	1	1	0.863	0.878	mg/L	84	86	1.7	75-125	20	

QCBatchID: QC1181660	**Analyst:** dswafford	**Method:** EPA 6010B			
Matrix: Solid	**Analyzed:** 08/17/2017	**Instrument:** AAICP (group)			

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1181660MB1						
Arsenic	ND	mg/L		0.03		
Lead	**0.041**	mg/L		0.015		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1181660MS1, QC1181660MSD1												**Source: 392713-003**
Arsenic	0.468	10	10	10.4	10.7	mg/L	99	102	2.8	75-125	20	
Lead	3.37	10	10	11.6	12.0	mg/L	82	86	3.4	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

From: Julie Harriman
To: "Diane Galvan"
Subject: RE: Burroughs MS, Enthalpy Analytical Final Report #392713
Date: Thursday, August 10, 2017 3:02:56 PM
Attachments: 392713-00072179-SIGNED.PDF

Diane,

Please run any results for lead exceeding 50mg/kg for STLC-lead and TCLP-lead. Please run any results for arsenic exceeding 50mg/kg for STLC-arsenic and TCLP-arsenic.

Standard TAT is fine.

Thank you,
Julie

APPENDIX E

WASTE DISPOSAL DOCUMENTATION

NO. 731657

NON-HAZARDOUS WASTE DATA FORM

BESI # 276063

GENERATOR

Generator's Name and Mailing Address
L.A.U.S.D. - OEHS
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)
LAUSD - JOHN BURROUGHS MIDDLE SCHOOL
600 S. MCCADDEN PLACE
LOS ANGELES, CA 90005

Generator's Phone: 213-241-3199

Container type removed from site:
☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 02

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS SITE INVESTIGATION (DRILL CUTTINGS)

COMPONENTS OF WASTE	PPM	%
1. SOIL		
2.		
3.		
4. 100%		

Waste Profile _____ PROPERTIES: pH _____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: [illegible] on behalf of LAUSD Kevin Hall
Signature: Kevin C. Hall
Month 01 Day 06 Year 17

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE
Phone#: 949-460-5200

Transporter 1 Printed/Typed Name: Jose Ferreyra
Signature:
Month 01 Day 06 Year 17

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name:
Phone#:

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
U.S. ECOLOGY, NEVADA OPERATIONS
HIGHWAY 95, 11 MILES S. OF BEATTY
BEATTY, NV 89003

Phone#: 775-553-2203

Printed/Typed Name:
Signature:
Month Day Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

NO. 731656

NON-HAZARDOUS WASTE DATA FORM

BESI # 276063

GENERATOR

Generator's Name and Mailing Address
L.A.U.S.D. - OEHS
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)
LAUSD - JOHN BURROUGHS MIDDLE SCHOOL
600 S. MCCADDEN PLACE
LOS ANGELES, CA 90005

Generator's Phone: 213-241-3199

Container type removed from site:
☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 01

Container type transported to receiving facility:
☐ Drums ☒ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS ~~WELL PURGING~~ / DECON WATER

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%	3.		
2. TPH		<1%	4.		

Waste Profile _____ PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: LCI OBERALL SE LAUSD Kevin Hall
Signature: Kevin C. Hall
Month 01 Day 06 Year 17

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE
Phone#: 949-460-5200

Transporter 1 Printed/Typed Name: Jose Ferreira
Signature: [signature]
Month 01 Day 06 Year 17

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC.
Phone#: 714-990-6855

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222

Phone#: 310-537-7100

Printed/Typed Name:
Signature:
Month Day Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

NO. 736365

NON-HAZARDOUS WASTE DATA FORM

BESI # 285550

GENERATOR

Generator's Name and Mailing Address

L.A.U.S.D. - OEHS
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)

LAUSD - JOHN BURROUGHS MIDDLE SCHOOL
600 S. MCCADDEN PLACE
LOS ANGELES, CA 90005

Generator's Phone: 213-241-3199

Container type removed from site:

☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck ☐ Other _____

Quantity 01

Container type transported to receiving facility:

☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck ☐ Other _____

Quantity 1 Volume 150 LBS

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS SITE INVESTIGATION (DRILL CUTTINGS)

COMPONENTS OF WASTE	PPM	%
1. SOIL		100%
2.		
3.		
4.		

Waste Profile 070128043-13448 PROPERTIES: pH _____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: Dave T Robinson AS Agent For LAUSD | Signature: Dave T Robinson | Month 9 Day 8 Year 17

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE | Phone#: 949-460-5200

Transporter 1 Printed/Typed Name: Jose Ferreyra | Signature: Jose Ferreyra | Month 09 Day 08 Year 17

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: | Phone#:

Transporter 2 Printed/Typed Name: | Signature: | Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address

U.S. ECOLOGY, NEVADA OPERATIONS
HIGHWAY 95, 11 MILES S. OF BEATTY
BEATTY, NV 89003

Phone#: 775-553-2203

Printed/Typed Name: Emily Salisbury | Signature: Emily Salisbury | Month 9 Day 13 Year 17

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

600SMCCA
1668781

APPENDIX F

METHANE SURVEY REPORT

METHANE MONITORING REPORT
BURROUGHS MIDDLE SCHOOL COMPREHENSIVE MODERNIZATION PROJECT
600 SOUTH MCCADDEN PLACE
LOS ANGELES, CALIFORNIA, 90005

Prepared For:

LOS ANGELES UNIFIED SCHOOL DISTRICT

Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Project No. 603378.006

October 5, 2017



Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

October 5, 2017

Project No. 603378.006

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Attention: Mr. Dane Robinson and Mr. Jeffery Otter

Subject: Methane Monitoring Report
Burroughs Middle School Comprehensive Modernization Project
600 South McCadden Place, Los Angeles, California, 90005

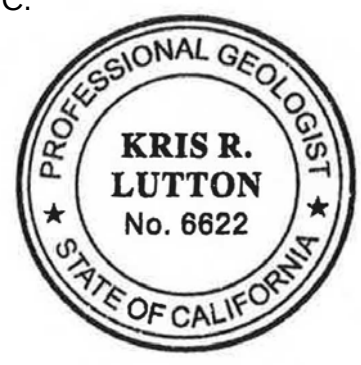
Leighton Consulting, Inc. is pleased to present this Methane Monitoring Report for the subject site which documents the field activities and results from methane and hydrogen sulfide screening at the subject site.

If you have any questions regarding this report, please do not hesitate to contact the undersigned at your earliest convenience. We appreciate the opportunity to be of service to the District.

Respectfully submitted,

LEIGHTON CONSULTING, INC.





Kris Lutton, P.G.
Senior Vice Principal

JCH/KRL/lr

Distribution: Addressees

17781 Cowan ▪ Irvine, CA 92614-6009
949.250.1421 ▪ 949.250.1114 Fax

TABLE OF CONTENTS

Section **Page**

LIST OF ABBREVIATIONS/ACRONYMS III

EXECUTIVE SUMMARY E-1

1.0 INTRODUCTION 1

1.1 Site Description and Features 1
1.2 Background 2
1.3 Regional Geology and Hydrogeology 2
1.4 Oil and Gas Review 3

2.0 SAMPLING ACTIVITIES AND RATIONALE 5

2.1 Objectives 5
2.2 Utility Clearance 5
2.3 Health & Safety Plan 6
2.4 Field Procedures 6

2.4.1 Drilling, Probe Installation and Sampling 6
2.4.2 Equipment Decontamination 8
2.4.3 Sample Handling and Storage 8
2.4.4 Sample Custody 9
2.4.5 Field Quality Assurance/Quality Control 9

2.5 Investigation Derived Waste Management 10

3.0 RESULTS 11

3.1 Subsurface Conditions 11
3.2 Field Monitoring Results - Soil Gas 11
3.3 Analytical Results – Soil Gas 13
3.4 Data Quality Assurance/Quality Control 14

4.0 INTERPRETATION AND CONCLUSIONS 15

4.1 Potential Methane Concerns 15
4.2 Opinion of Environmental Professional/Adequacy of Assessment 15
4.3 Summary of Soil Gas Results 15
4.4 Conclusions/Objectives Met 16

5.0 RECOMMENDATIONS 17

6.0 LIMITATIONS 18

Leighton

TABLE OF CONTENTS (Continued)

List of Accompanying Figures, Tables and Appendices

Figure 1 – Site Location Map
Figure 2 – Methane Probe Location Map

Table 1 – Summary of Field Results for Methane and Hydrogen Sulfide in Soil Gas
Table 2 – Summary of Laboratory Analytical Results for Methane and Hydrogen Sulfide in Soil Gas

Attachment A – References
Attachment B – DOGGR Oil Well Data – No Oil Wells Onsite
Attachment C – Boring and Probe Construction Logs
Attachment D – Laboratory Analytical Reports – Methane and Hydrogen Sulfide in Soil Gas
Attachment E – Manifests
Attachment F – Form 1, Certificate of Compliance for Methane Test Data, Parts 1 and 2

LIST OF ABBREVIATIONS/ACRONYMS

AIN	Assessor's ID Number
amsl	above mean sea level
bgs	below ground surface
Cal/EPA	California Environmental Protection Agency
CGS	California Geological Survey
District	Los Angeles Unified School District
DOGGR	Division of Oil, Gas, and Geothermal Resources
DTSC	Department of Toxic Substances Control
Enthalpy	Enthalpy Analytical
EPA	Environmental Protection Agency
HASP	Site-specific health and safety plan
HHRA	Human Health Risk Assessment
J&H	J&H Drilling Co. Inc.
LADBS	Los Angeles Department of Building and Safety
LAUSD	Los Angeles Unified School District
Leighton	Leighton Consulting Inc.
Millennium	Millennium Environmental Inc.
OEHS	Office of Environmental Health and Safety
PPE	Personal protective equipment
PQL	Laboratory practical quantitation limit
School property	Burroughs Middle School Campus
Site	Burroughs Middle School Comprehensive Modernization Project
Spectrum	Spectrum Geophysics

EXECUTIVE SUMMARY

This Methane Monitoring Report summarizes the approach utilized and data collected as part of the recently concluded methane survey for the Burroughs Middle School Comprehensive Modernization Project (the 'Site', Figures 1, 2 and 3). The Site is part of the Burroughs Middle School property (hereinafter also referred to as 'the School property'), located at 600 South McCadden Place, Los Angeles, California, 90005. The District contracted Leighton Consulting Inc. (Leighton) to perform the methane survey in general conformance with various existing guidance documents per the Scope of Services (OEHS, 2016).

The primary objectives of this methane survey were to screen soil gas for oil field gases, and to recommend a level of mitigation for new construction at the Site, per the Los Angeles Department of Building and Safety (LADBS) Methane Mitigation Standards. The Site lies within a City of Los Angeles methane zone. Additionally, the Salt Lake Oil Field lies approximately 1,500 feet north of the Site and 2,000 feet west of the Site. One plugged oil and gas production well is also located approximately 1,300 feet west/southwest of the Site (API 03720045). Based on the Site's location within a methane zone, the Project may create a new or exacerbate an existing significant safety hazard to students from a known methane zone.

For this survey, thirty soil borings were advanced between December 23 and 28, 2016 to a maximum total depth of 15.5 feet below ground surface (bgs). Dual methane probes were installed at approximately 5 and 15 feet bgs at each location in general conformance with the DTSC Advisory Active Soil Gas Investigations dated July 2015. Following probe installation, two sampling events were conducted on January 3 and 16, 2017. Field measurements, including subsurface pressure, methane and hydrogen sulfide were collected at each probe, and seven confirmation soil gas samples were collected for laboratory analysis during each sampling event as shown in Tables 1 and 2.

Maximum methane concentrations measured using field instruments and reported by the laboratory were above 12,500 parts per million (ppm). Based on field measurements and laboratory analytical results, the Site is categorized as a Level V design category per LADBS Methane Mitigation Standards (>12,500 ppm at all pressures).

It is our opinion that the objectives of the methane survey were met, and no additional assessment is necessary to meet the objectives of the methane survey. Maximum methane concentrations observed in the soil gas probes in January 2017 meet criteria for a Level V design category.

1.0 INTRODUCTION

This *Methane Monitoring Report (hereinafter also referred to as 'the report')* outlines the approach utilized and data collected as part of the recently concluded methane screening survey conducted at the Burroughs Middle School Comprehensive Modernization Project (the 'Site', Figures 1 and 2).

This report was prepared by Leighton Consulting Inc. (Leighton) on behalf of the District in general conformance with various existing guidance documents related to site assessment, characterization and investigation published by the California Environmental Protection Agency (Cal/EPA) – Department of Toxic Substances Control (DTSC, 2006, 2015, 2017). Pertinent references related to the Site are listed in Attachment A.

1.1 Site Description and Features

The School property is identified by the Los Angeles County Assessor's Office with Assessor's ID Number (AIN) 5507-017-900 and occupies approximately 10.23 acres. The property is owned and operated by the Los Angeles Unified School District (LAUSD) (hereinafter also referred to as 'the District' or LAUSD). The School property is bounded to the north by residential properties across West 6th Street, to the east by residential properties and a commercial building, to the south by residential properties, Wilshire Private School, and commercial buildings across Wilshire Boulevard, and to the west by residential properties across South McCadden Place.

The Site is part of the Burroughs Middle School property (hereinafter also referred to as 'the School property'), which is located at 600 South McCadden Place, Los Angeles, California, 90005. The majority of the Site is paved and currently developed with three two-story administrative/classroom buildings, 23 single-story multi-purpose buildings that contain such things as classrooms, restrooms, gymnasiums, lounges and storage rooms. Two paved parking areas are located in the northeast corner and the southwest corner of the Site. Two tennis courts are located in the center of the Site. A paved and dirt playground area is located in the southern portion of the Site.

1.2 Background

The school opened as “John Burroughs Junior High School” in 1924. Since 1924, various construction activities at the Site added and removed various structures, added parking lots and paved areas. From at least 1894 to 1921 the land was undeveloped with the exception of a small building located on the southern portion of the Site adjacent to Wilshire Boulevard (WorleyParsons, 2016).

The District plans to redevelop the Site as part of the Burroughs Middle School Comprehensive Modernization Project. Leighton was contracted by the District to screen for oil field gases in soil gas and recommend a level of mitigation for new construction at the Site, per the Los Angeles Department of Building and Safety (LADBS) Methane Mitigation Standards.

The current Site contact related to the soil gas matters is listed below:

Mr. Jeffery Otter
Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

1.3 Regional Geology and Hydrogeology

Geologic Setting: Locally, the Site is located in the Hollywood Basin within the central block of the Los Angeles Basin, a structural trough, characterized as a northwest-trending alluviated lowland plain approximately 50 miles long and 20 miles wide. The Santa Monica Mountains, Beverly Hills and Elysian Hills that generally expose Late Cretaceous to Late Pleistocene-age sedimentary and igneous rocks bound the Hollywood Basin along the north, northeast and east (Yerkes, 1965).

The sediments deposited in the Hollywood Basin have subsequently been faulted and folded during uplift of the Santa Monica Mountains and contraction of the basin (Tsutsumi et al., 2001; Catchings et al., 2001). Uplift of the Santa Monica Mountains is occurring along a zone of faults that comprise the Santa Monica Fault System, and include the Malibu Coast, Santa Monica and the Hollywood faults (Tsutsumi et al., 2001; Catchings et al., 2001; Dolan, et al., 2000). Deformation caused by the Hollywood Fault of the near-surface sediments has resulted in the formation of the Hollywood Basin. The Hollywood Basin is

situated between the Hollywood fault and the Santa Monica Mountains on its north, and a subsurface fold to the south, known as the Wilshire Arch, located near Wilshire Boulevard (Dolan et al., 1997 and 2000; Hildenbrand et al., 2001; Hummon et al., 1994; California Department of Water Resources, 1988).

The Site, southeast of the Salt Lake Oilfield, is underlain by surficial sediments consisting generally of clay, sand and gravel including gravel of minor stream channels (Dibblee, 1991). Older surficial sediments underlying the site can be expected to consist generally of unconsolidated to weakly consolidated, dissected alluvial fan sediments consisting chiefly of clay, silt, sand and gravels overlying the Lakewood and San Pedro Formations. At depth, petroliferous sands (tar sand) present within the San Pedro Formation can be expected.

Groundwater: The Site lies within the northeastern part of the Coastal Plain at an approximate elevation of 209 feet above mean sea level (amsl) (USGS, 1972) and located within the Hollywood sub-basin. This groundwater basin is bound on the north by the Santa Monica Mountains and the Hollywood fault, on the east by the Elysian Hills and on the west by the Newport-Inglewood fault zone. Southerly, the basin is bound by anticlinal structure termed the La Brea High were the San Pedro formation was eroded prior to deposition of the Lakewood Formation. This anticlinal structure brings less permeable bedrock close to the surface forcing groundwater to shallow depths primarily within the Pleistocene sands and gravels. Based on the approximate site elevation (El. 209 feet) and depth to groundwater recorded at 5020 to 5044 Wilshire Boulevard (1,000 feet southwest of the site) groundwater is likely to occur at approximate elevations (El.) 189 feet to El. 186 feet (Western Environmental Engineers Company, 2006). These elevations suggest groundwater may be encountered beneath the Site at approximately 20 to 23 feet below ground surface (bgs).

Historic High Groundwater: Historic groundwater levels, as interpreted from the Hollywood 7.5 Minute Quadrangle, Los Angeles County, Seismic Hazard Evaluation (California Geological Survey [CGS], 1998) indicate historic high groundwater at levels of approximately 20 feet bgs.

1.4 Oil and Gas Review

Information provided by the City of Los Angeles NavigateLA Web site, the LADBS, and the City's Public Works Departments, indicates that the Site lies within a City of Los Angeles designated methane zone.

The Salt Lake Oil Field lies approximately 1,500 feet north of the Site and 2,000 feet west of the Site. One plugged oil and gas production well is also located approximately 1,300 feet west/southwest of the Site (API 03720045). Attachment B contains Division of Oil, Gas, and Geothermal Resources (DOGGR) oil well data for this one well located offsite. No oil wells were identified on the Site and no other oil wells were identified within 1,500 feet of the Site.

Based on the site being located within a City of Los Angeles designated methane zone and its proximity to the Salt Lake Oil Field, the Project may create a new or exacerbate an existing significant safety hazard to students from a known methane zone and screening of soil gas for oil field gases was included in the Scope of Services (OEHS, 2016).

2.0 SAMPLING ACTIVITIES AND RATIONALE

To screen for oil field gases in soil gas, soil borings were advanced at thirty (30) locations between December 23 and 28, 2016 to a maximum total depth of 15.5 feet bgs. Dual methane probes were installed at approximately 5 and 15 feet bgs at each location. Probe locations are shown on Figure 2. Soil gas screening for oil field gases was conducted on January 3 and 16, 2017, as summarized in Tables 1 and 2. Attachment C contains boring and probe construction logs, and Attachment D contains laboratory analytical reports. Sampling activities consisted of the following components discussed below.

2.1 Objectives

The primary objectives of this assessment were:

- To screen soil gas for oil field gases, and
- To recommend a level of mitigation for new construction at the Site, per the LADBS Methane Mitigation Standards.

2.2 Utility Clearance

Underground Service Alert (USA) was notified more than 48-hours prior to initiation of field activities for marking subsurface utilities in and around the Site. Leighton reviewed an ALTA survey map (Surveying and Drafting Services, Inc., 2016) provided by the District indicating the anticipated locations of known sub-surface utilities at the School property prior to field activities in an effort to avoid encountering potential subsurface utilities during advancement of borings sampling. The Site boring locations were clearly marked with white water-base chalk paint on December 20, 2016 prior to USA notification. Subsurface utilities were also cleared to 5 feet bgs by hand augering between December 23 and 28, 2016, followed by direct push drilling to the total depth of approximately 15.5 feet bgs. On December 27, 2016 Spectrum Geophysics completed a geophysical survey to identify potential underground utilities or obstructions in conflict with the soil boring locations, for an added safety measure, as directed by the Office of Environmental Health and Safety (OEHS). Select proposed boring locations were adjusted in the field where necessary to minimize risk to damaging underground utilities.

2.3 Health & Safety Plan

A Site-specific health and safety plan (HASP) was prepared for the field activities. The HASP addressed issues regarding chemical exposure, personal protective equipment (PPE), physical and biological hazards that might be expected at the Site, an emergency response plan, and route to the nearest hospital. Site personnel engaged in field activities were required to read and sign the HASP. Subcontractor(s) were required to prepare and follow their own HASP during field activities, considering the Site-specific conditions.

2.4 Field Procedures

Collection of environmental samples of high integrity is important to the quality of chemical data to be generated. To this end, strict field procedures have been developed. General descriptions of field methods that were employed at various locations during various phases of the field investigation are described below.

2.4.1 Drilling, Probe Installation and Sampling

To screen for methane in soil gas, thirty (30) soil borings were advanced between December 23 and 28, 2016 to a maximum total depth of 15.5 feet bgs. Dual methane probes were installed at approximately 5 and 15 feet bgs at each location.

Soil borings were advanced by Millennium Environmental, Inc. (Millennium), a State of California licensed driller, using hand-auger tools or direct-push drilling methods (Attachment C). Additionally, J&H Drilling (J&H), a State of California licensed driller, advanced soil borings using hand-auger tools or direct-push drilling methods and installed methane probes on December 28, 2016. The addition of J&H to complete drilling on December 28, 2016 was necessary due to difficult drilling conditions encountered and to complete sampling within the winter break. Asphalt or concrete pavement was cored by the respective driller prior to advancing the soil borings. Each boring was advanced to the maximum target depth or refusal. When refusal was encountered up to three additional attempts were made to advance a soil boring in the vicinity of the original attempted boring location. Lithologic information and soil descriptions from the soil borings were recorded by Leighton's on-Site staff and reviewed by a State Certified Professional Geologist.

Upon reaching the total target depth, soil gas probes were installed per the DTSC *Advisory Active Soil Gas Investigations* dated July 2015. Soil gas probes were installed at approximately 5 and 15 feet bgs in each location for an overall total of sixty (60) individual soil gas probes. Details of soil gas probe installation include:

- Dual-nested soil gas probes were installed at approximate target depths of 5 and 15 feet bgs in each boring.

- A small-diameter, inert Nylaflow tube with an attached sampling filter was inserted into each probe upon reaching desired depths. Displaced annular space was back-filled above and below each installed sampling probe for a total of approximately one vertical foot of sand filter-pack. Hydrated granular bentonite was placed from the top of the sand filter pack up to existing grade or 6-inches below the next probe depth. Sand filter-pack and bentonite placement were repeated as necessary until all probes were installed. The probes were sealed with bentonite for a minimum of 48 hours prior to sample collection.

- Two rounds of sampling for methane and hydrogen sulfide in soil gas were conducted at each probe in accordance with the *Advisory Active Soil Gas Investigations* (July 2015):

  - Sampling took place after the appropriate equilibration time

  - Prior to collecting gas samples, the probes were monitored for the buildup of pressure. Probe pressure was recorded in the field logs and each probe was then purged a minimum of three tubing volumes prior to collecting soil gas samples.

  - Samples were then extracted at a rate of approximately 200 milliliters per minute using a Xitech 1-Liter bag sampler and transferred into Tedlar bags.

  - Field monitoring of samples collected in the Tedlar bags was conducted for oil field gases utilizing a pre-calibrated Landtec GEM-2000 Plus, Jerome 631-X H2S Analyzer, and a Photovac MicroFID.

- Approximately 10% of soil gas samples were placed in new 1-L Tedlar bags, protected from ultra-violet light in a black protective bag, and

transported using chain-of-custody protocol to Enthalpy Analytical (Enthalpy) a California Department of Public Health, Environmental Laboratory Accreditation Program-certified laboratory for analysis for methane and hydrogen sulfide, as follows:

- Methane by EPA 8015 analyzed within 24 hours of collection, and
- Hydrogen Sulfide by ASTM D5504M analyzed within 24 hours of collection.

- Upon completion of soil gas sampling and with OEHS approval, soil gas sampling points will be decommissioned in accordance with the *Advisory Active Soil Gas Investigations* (July 2015).

2.4.2 Equipment Decontamination

Any equipment that came into contact with potentially contaminated materials was decontaminated consistently to assure the quality of samples collected. Disposable equipment intended for one time use was not decontaminated, but was packaged for appropriate disposal. Decontamination occurred prior to and after each use of a reusable piece of equipment. Equipment used (e.g., hand auger, drilling equipment) was decontaminated using the following procedures:

- Non-phosphate detergent and tap water scrub, using a brush if necessary;
- Tap water rinse; and
- Final deionized/distilled water rinse.

2.4.3 Sample Handling and Storage

In the field, each sample container was marked with their unique sampling location number, date and time of sample collection. Each of the sample containers were wiped with clean paper towels, and securely packed in laboratory supplied containers, in preparation for delivery to the laboratory.

2.4.4 Sample Custody

An entry was made on a chain-of-custody form supplied by the laboratory for each sample that was submitted to the laboratory for analysis. The information recorded included the sampling date and time, sample identification number, matrix type, requested analyses and methods, preservatives, and the sampler's name. Sampling team members maintained custody of the samples until they were relinquished to laboratory personnel or professional courier service. The chain-of-custody form accompanied the samples from the time of collection until received by the laboratory. Each party in possession of the samples signed the chain-of-custody form signifying receipt.

Collected soil samples were transported using standard chain-of-custody protocol to using chain-of-custody protocol to Enthalpy Analytical (Enthalpy) a California Department of Public Health, Environmental Laboratory Accreditation Program-certified laboratory for analysis for methane and hydrogen sulfide. Upon receipt, the laboratory inspected the condition of the sample containers and reported the information on chain-of-custody or similar form.

A copy of the original completed chain-of-custody form was provided by the laboratory along with the report of results. Attachment D contains copies of the laboratory analytical reports.

2.4.5 Field Quality Assurance/Quality Control

Quality assurance and control measures implemented included the following:

- New acetate sleeves, probe tips, and tubing were used for the construction of soil gas monitoring probes.
- Approximately 10% of soil gas samples were collected and submitted to a laboratory for confirmation of field results.
- Prior to monitoring samples, the equipment calibration was checked using appropriate calibration gases. Equipment was recalibrated as necessary.

2.5 Investigation Derived Waste Management

Different types of potentially contaminated Investigation Derived Waste (IDW) were generated that included used PPE, disposable sampling equipment, excess soil cuttings, and decontamination fluids. Listed below are the procedures that were followed for handling the IDW:

- Used PPE and disposable equipment were double bagged and placed in a municipal refuse dumpster. These wastes are not considered hazardous and could be sent to a municipal landfill.

- Soil cuttings and decontamination wastewater were placed in US Department of Transportation (DOT)-approved 55-gallon drums. The drums were labeled and sealed, pending receipt of analytical results, waste profiling and off-Site disposal.

Three 55-gallon drums containing IDW were generated during field activities associated with environmental sampling in support of the proposed site development project. The IDW sample results indicate that the IDW was classified as nonhazardous waste. Two drums containing soil cuttings and one drum containing sample equipment decontamination water were removed from the Site on January 6, 2017. The two drums containing soil cuttings were transported to US Ecology in Beatty, Nevada for disposal. The one drum containing water only was transported to Demenno Kerdoon in Compton, California for disposal. Copies of the relevant manifests are included in Attachment E.

3.0 RESULTS

3.1 Subsurface Conditions

A majority of soil borings were completed in paved areas consisting of 3-4 inches of asphaltic concrete with the exception of borings completed on the athletic field and the locations adjacent to the southern margin of the Site. Methane probe locations, completed to approximately 15.5 feet bgs encountered native fine-grained soils dominated by silt and clay with varying amounts of fine to medium-grained sand as a secondary component. Artificial fill materials were identified in several deeper boring locations (M-3, M-8, M-9) primarily based on the coarse nature of the soil and presence of construction debris, brick or asphalt, observed between 0.5 and 11.5 feet in specific locations.

Varying levels of naturally occurring bitumen or tar were noted in soil from 10 methane probe locations including M-1, M-2, M-12, M-13, M-14, M-23, M-24, M-25, M-26, and M-30. These locations were generally located in the southern half of the Site and/or near the eastern Site boundary. Observations ranged from gray to black soil coloration with a distinct tar-like odor to soil saturated with black, viscous bitumen. Soils that exhibited these characteristics were noted as "bituminous" in the methane probe construction log. Natural deposits of bitumen are not uncommon for this area as seen in the nearby La Brea Tar Pits, which is located approximately one mile west of the Site. Soils exhibiting the presence of bitumen were generally encountered at depths greater than 5 feet below grade.

Groundwater was not encountered in the borings completed during this investigation with the exception of boring location M-30. The M-30 boring was advanced to 15.5 feet bgs and soil was noted as "moist" during drilling from 9 feet to total depth. Upon reaching total depth, the drill rod was removed from the borehole and water was observed pooling in the bottom of the borehole up to approximately 12 feet bgs. Methane probes were set at 5 feet bgs and 9.5 feet bgs at location M-30. This occurrence is likely an isolated zone of perched groundwater related to irrigation water infiltration taking place on the athletic field. Groundwater was not observed in any of the remaining borings (Attachment C).

3.2 Field Monitoring Results - Soil Gas

Probes were installed between December 23 and 28, 2016 using hand augering and direct-push drilling methods. Probe locations are shown in Figure 2.

Monitoring for methane and hydrogen sulfide was conducted on January 3 and 16, 2017. The probes were monitored using a magnahelic gauge for initial subsurface pressure, and a GEM2000 Plus for methane, fixed gases, and hydrogen sulfide. A Jerome 631-X H2S Analyzer was also used to monitor for hydrogen sulfide, and a Photovac MicroFID was used to monitor for methane. Table 1 summarizes field readings collected throughout the Site at the thirty (30) methane probe locations.

During the initial round of monitoring, the GEM 2000 Plus measured methane between 0.0% and 48.8% (M-17 probe set at 5 feet bgs), and hydrogen sulfide between 0.0 ppm and 1.0 ppm (M-1 and M-20 at 15 feet bgs). Methane was measured between 0.0 ppm and 3,800 ppm (M-14 at 15 feet bgs) using the MicroFID, and hydrogen sulfide was measured between 0.00 ppm and 0.78 ppm (M-14 at 15 feet bgs) using the Jerome 631-X H2S Analyzer. At some locations, the MicroFID experienced flame out conditions and the Jerome 631-X H2S Analyzer did not display a reading ("MF") preventing collection of measurements with these instruments. No flow was observed in some probes, as summarized in Table 1.

During the second round of monitoring on January 16, 2017, the GEM 2000 Plus measured methane between 0.0% and 57.8% (M-17 probe set at 5 feet bgs), and hydrogen sulfide between 0.0 ppm and 1.0 ppm (M-24 at 15 feet bgs). Methane was measured between 0.0 ppm and 2,427 ppm (M-13 at 5 feet bgs) using the MicroFID, and hydrogen sulfide was measured between 0.00 ppm and 0.02 ppm (multiple probe locations) using the Jerome 631-X H2S Analyzer. At some locations, the MicroFID did not display a reading ("MF") preventing collection of measurements with these instruments.

In addition, fixed gases in the field measurements included carbon dioxide and oxygen, using the GEM2000 Plus. On January 3, 2017, carbon dioxide was measured between 0.0% (multiple probes) and 19.2% (M-6 at 5 feet bgs), and oxygen was measured between 1.6% (M-6 at 5 feet bgs) and 21.1% (M-14 at 5 feet bgs). On January 16, 2017, carbon dioxide was measured between 0.0% (multiple probes) and 17.0% (M-15 at 15 feet bgs) and oxygen was measured between 0.6% (M-17 at 5 feet bgs) and 21.1% (M-4 at 15 feet bgs).

Background outdoor air concentrations of methane and hydrogen sulfide were:

Date Sampled	% Methane (GEM2000 Plus)	Methane (ppm) (MicroFID)	Hydrogen Sulfide (ppm) (Jerome 631-X)
January 3, 2017	0.0	0.0	0.00
January 16, 2017	0.0	0.0	0.00

A summary of the monitoring results for soil gas samples is presented in Table 1.

3.3 Analytical Results – Soil Gas

During each event conducted on January 3 and 16, 2017, seven (7) soil gas samples were collected for laboratory analysis of methane by EPA method 8015 and hydrogen sulfide by ASTM method D5504M. The January 3, 2017 samples were collected from probes M-1 at 15 feet bgs, M-7 at 5 feet bgs, M-8 at 5 feet bgs, M-14 at 15 feet bgs, M-15 at 15 feet bgs, and M-17 at 5 feet bgs (original and duplicate sample). The January 16, 2017 samples were collected from probes M-7 at 5 feet bgs, M-13 at 5 feet bgs, M-14 at 15 feet bgs, M-15 at 15 feet bgs, M-17 at 5 feet bgs (original and duplicate sample) and M-24 at 15 feet bgs. Laboratory results for methane and hydrogen sulfide in soil gas are presented in Table 2. Copies of the laboratory reports are included in Attachment D.

During the initial round of sampling on January 3, 2017, the laboratory reported methane between 124 ppm (M-7 at 5 feet bgs) and 577,000 ppm (M-17 duplicate sample at 5 feet bgs), and hydrogen sulfide between 0.008 ppm (M-8 at 5 feet bgs) and 3.5 ppm (M-1 at 15 feet bgs). samples analyzed. During the second round of sampling on January 16, 2017, the laboratory reported methane between 84,200 ppm (M-15 at 15 feet bgs) and 388,000 ppm (M-17 duplicate sample at 5 feet bgs), and hydrogen sulfide between 0.021 ppm (M-13 at 5 feet bgs) and 5.4 ppm (M-24 at 15 feet bgs).

Methane field readings were generally similar to laboratory results for methane and hydrogen sulfide. Where variability was observed between field and laboratory results, the field result was qualified in Table 1 with a J1 or J2 qualifier. The qualifier indicates that the result is an estimate based on variability between the field and laboratory results for methane, with the field result being lower (J1)

or higher (J2) than the laboratory result. As qualified, the data is usable for its intended purpose of screening the Site for methane in soil gas beneath the Site.

The maximum positive pressure measured in the probes prior to monitoring was a maximum of 1.0 inches of water column (multiple probes, Table 1). Based on the maximum methane concentrations measured above 12,500 ppm, the Site is a Level V design category per LADBS methane regulations (>12,500 ppm at all pressures). Hydrogen sulfide was detected at a maximum of 5.4 ppm.

3.4 Data Quality Assurance/Quality Control

The laboratory data package provided includes quality control sample results for blanks and laboratory control samples/laboratory control sample duplicates, as specified by the method. All samples were analyzed within their prescribed hold times. The laboratory reports indicate that the quality control sample results met quality assurance objectives for soil gas. The laboratory reports containing the quality control results are included in Attachment D.

The practical quantitation limits (PQLs) of the laboratory analytical methods and the detection limits of the field equipment were low enough to detect methane or hydrogen sulfide below any action levels.

4.0 INTERPRETATION AND CONCLUSIONS

4.1 Potential Methane Concerns

Based on the site being located within a City of Los Angeles designated methane zone and proximity to the Salt Lake Oil Field, the Project may create a new or exacerbate an existing significant safety hazard to students from a known methane zone and screening of soil gas for oil field gases was warranted to determine an appropriate mitigation level for new construction.

Methane gas is a non-poisonous, non-toxic, non-carcinogenic, and simple asphyxiant. Methane is considered for its explosive concerns and not health concerns. Accumulation of methane gas is combustible and potentially explosive at concentrations above the lower explosive limit of 50,000 ppm (equivalent to 5% v/v methane in air, and 100% of the LEL) in the presence of oxygen and an ignition source.

4.2 Opinion of Environmental Professional/Adequacy of Assessment

It is our opinion that the objectives of the methane screening survey were met, and no additional assessment is necessary to assess the objectives of the methane survey. Soil gas probes were installed per the DTSC Advisory Active Soil Gas Investigations dated July 2015, as required by the RFP (OEHS, 2016). Maximum methane concentrations observed in the soil gas probes in January 2017 trigger Design Level V, which is the highest level of mitigation LADBS specifies. Additional sampling per LADBS testing depths (5, 10 and 20 feet) does not appear warranted because the existing data indicates the highest level of mitigation.

4.3 Summary of Soil Gas Results

The maximum positive pressure measured in the soil gas probes prior to monitoring was a maximum of 1.0 inches of water column (multiple probes, Table 1). Maximum methane concentrations measured using field instruments and reported by the laboratory were above 12,500 ppm (multiple probes, Table 1 and Table 2). Review of hydrogen sulfide results in Tables 1 and 2, show that the maximum hydrogen sulfide result reported was 5.4 ppm (laboratory result for the soil gas sample collected from the 15 feet bgs M-24 probe on January 16, 2017.

Based on the maximum methane concentrations measured above 12,500 ppm, the Site is a Level V design category per LADBS methane regulations (>12,500 ppm methane at all pressures). Attachment F provides the LADBS Form 1, Certificate of Compliance for Methane Test Data, Parts 1 and 2.

4.4 Conclusions/Objectives Met

The purpose of conducting the methane screening survey was to evaluate the Site for the presence of oil field gases and determine the design level of mitigation required. The Site lies within the City of Los Angeles methane zone. The Salt Lake Oil Field lies approximately 1,500 feet north of the Site and 2,000 feet west of the Site. One plugged oil and gas production well is also located approximately 1,300 feet west/southwest of the Site. Maximum field measurements and the maximum laboratory reported concentrations from sampling events on January 3 and 16, 2017 exceeded 12,500 ppm methane. The maximum positive pressure measured in the probes prior to monitoring was a maximum of 1.0 inches of water column. Hydrogen sulfide was detected at a maximum of 5.4 ppm at the Site. Based on the field measurements and the laboratory results the Site is categorized as Design Level V at all pressures per the LADBS criteria. It is our opinion that the objectives of the methane screening survey were met, and no additional assessment is necessary to assess the objectives of the methane survey.

5.0 RECOMMENDATIONS

It is our opinion that the objectives of the methane screening survey were met, and no additional assessment is necessary to assess the objectives of the methane survey.

Based on the field measurements and the laboratory results the Site is categorized as Design Level V at all pressures per the LADBS criteria. The minimum methane mitigation measures required for a site within a Los Angeles City designated methane zone with a designation of Design Level V at all pressures typically include:

- Passive ventilation system components: de-watering system, subsurface slab passive venting system for slab-on-grade construction, and the installation of an impermeable gas membrane;
- Active ventilation system components: subsurface slab active venting system for slab-on-grade construction, lowest occupied space system (gas detection, mechanical ventilation and alarm system), and control panel; and
- Miscellaneous system components: trench dams, conduit seals, and additional vent risers.
- Exceptions and/or substitutions for select methane mitigation measures may be permitted as specified by the methane code or in consultation with LADBS, as applicable.

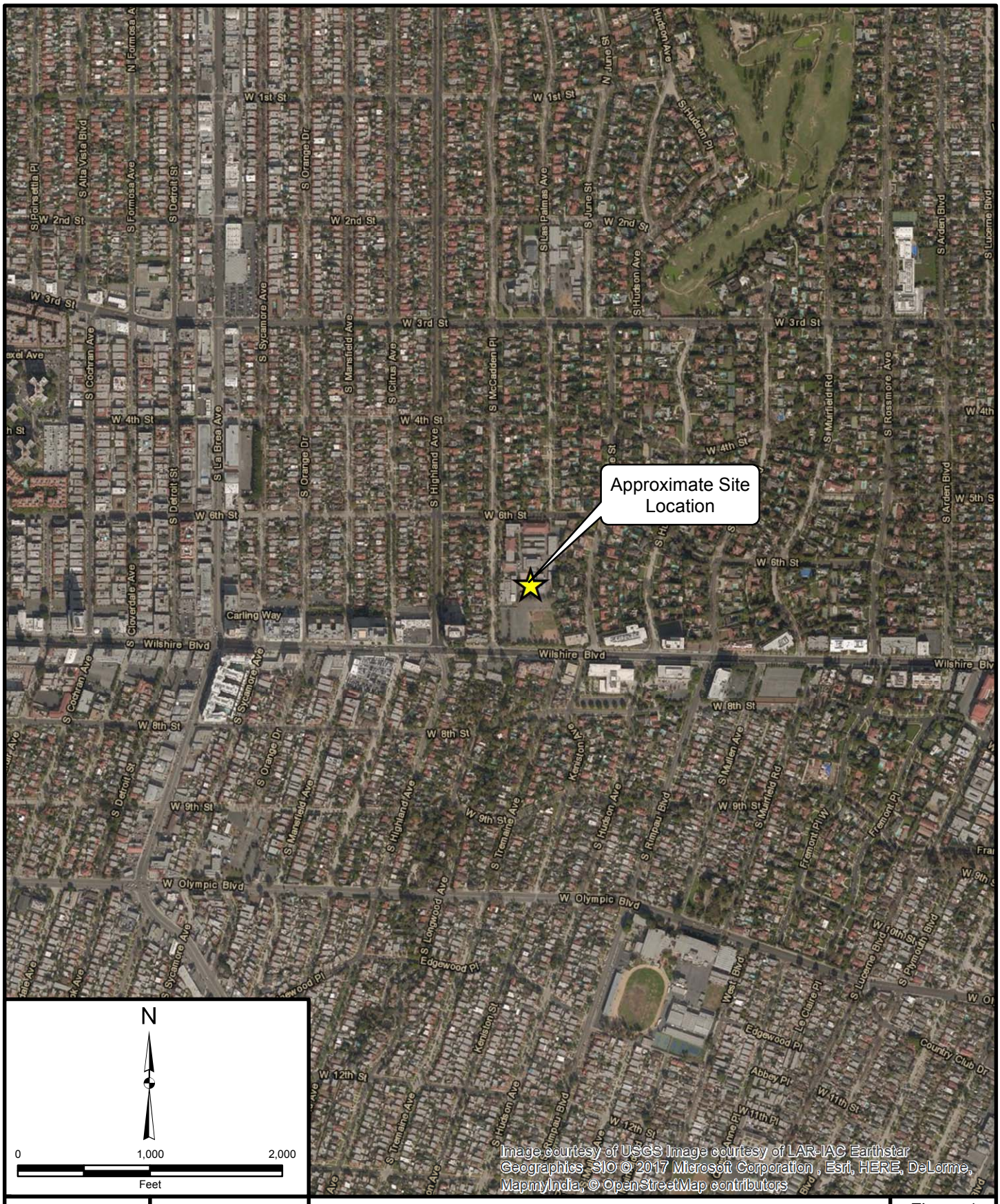
6.0 LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. Opinions, conclusions, and recommendations contained in this report apply to conditions existing when the services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. Where subsurface exploratory work, monitoring, and/or testing was performed, our professional opinions and conclusions are based in part on interpretation of data from discrete sampling or measurement locations that may not represent actual conditions at un-sampled or un-measured locations. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of the services. We assume no responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when the services were performed. We do not warranty the accuracy of information supplied by others, or the use of segregated portions of this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Leighton should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

Leighton's professional opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analyses data. Further assessment of potential adverse environmental impacts from past on-Site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between and beyond the sampling locations. Variations in subsurface conditions likely exist beyond the points explored in this assessment.

FIGURES



Project: 603378.006	Eng/Geol: JCH/RAL
Scale:1 " = 1,000 '	Date: March 2017

Base Map: ESRI ArcGIS Online 2017
Thematic Information: Leighton
Author: Leighton Geomatics (btran)

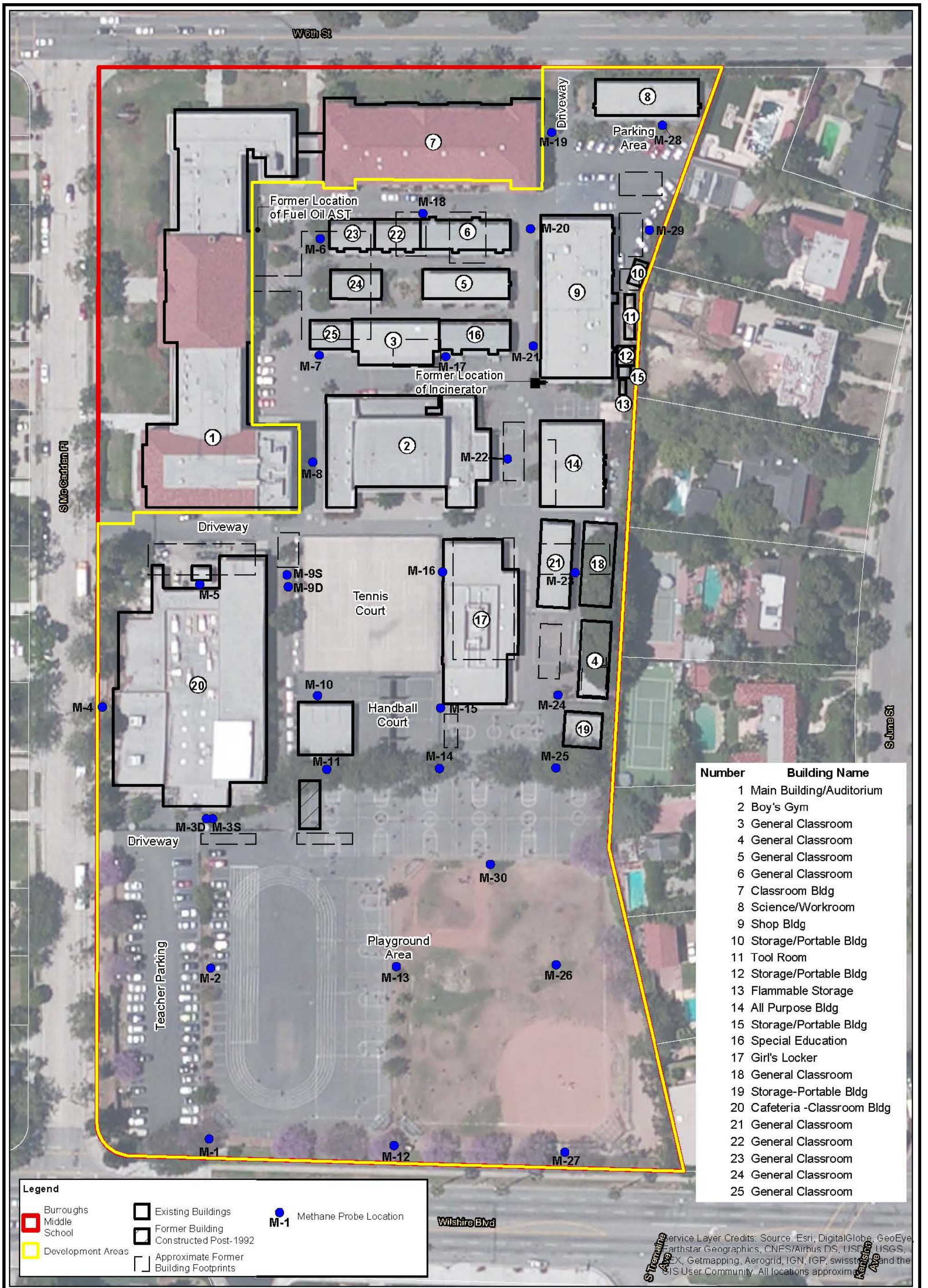
SITE LOCATION MAP

LAUSD Burroughs Middle School
600 South McCadden Place,
Los Angeles, California

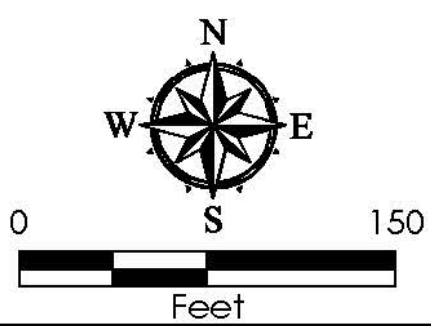
Figure 1

Leighton

Map Saved as V:\Drafting\603378\006\Maps\603378-006_F01_SLM_2017-03-28.mxd on 3/28/2017 10:16:46 AM



Number	Building Name
1	Main Building/Auditorium
2	Boy's Gym
3	General Classroom
4	General Classroom
5	General Classroom
6	General Classroom
7	Classroom Bldg
8	Science/Workroom
9	Shop Bldg
10	Storage/Portable Bldg
11	Tool Room
12	Storage/Portable Bldg
13	Flammable Storage
14	All Purpose Bldg
15	Storage/Portable Bldg
16	Special Education
17	Girl's Locker
18	General Classroom
19	Storage-Portable Bldg
20	Cafeteria -Classroom Bldg
21	General Classroom
22	General Classroom
23	General Classroom
24	General Classroom
25	General Classroom



Site Plan provided by Advisian,Worley Parsons Group. dated 10/16/2016.

METHANE PROBE LOCATION MAP

600 South McCadden Place,
Los Angeles, CA

FIGURE 2

Project: 603378.006	Eng/Geol: JCH/RL
Approx. Scale 1"=75'	Date:03/24/17
Drafted By: BES	Checked By: JCH

Leighton

TABLES



Leighton

Table 1
Summary of Field Results for Methane and Hydrogen Sulfide in Soil Gas

Soil Vapor Probe	Soil Vapor Probe Depth	Sample Date	Pressure (IN H2O) Magna-helic Gauge	Methane (CH4) Reading (%)-GEM 2K+	Methane (CH4) Reading (ppmv)-MICRO FID	Oxygen (O2) (%)	Carbon Dioxide (CO2) (%)	Hydrogen Sulfide (H2S) (ppmv)-GEM 2K+	Hydrogen Sulfide (H2S) (ppmv)-Jerome	Comments
Background Ambient Air		1/3/2017	0.0	0.0	0.0	20.7	0.0	0.0	0.00	
Background Ambient Air		1/16/2017	0.0	0.0	0.0	20.8	0.0	0.0	0.00	
M-1	5	1/3/2017	0.0	0.0	MF	11.6	5.4	0.0	LB	
M-1	5	1/16/2017	0.0	0.0	16.7	6.7	8.0	0.0	0.00	
M-1	15	1/3/2017	0.0	1.5	MF	2.6	16.9	1.0	LB	Slow flow
M-1	15	1/16/2017	0.0	0.1	1,246	19.6	1.7	0.0	0.02	
M-2	5	1/3/2017	0.0	Moisture entered sample train. No sample.						
M-2	5	1/16/2017	0.0	0.0	301	20.7	0.0	0.0	0.00	
M-2	15	1/3/2017	1.0	NF	NF	NF	NF	NF	NF	
M-2	15	1/16/2017	1.0	0.0	0.0	20.8	0.0	0.0	0.01	
M-3	5	1/3/2017	1.0	NF	NF	NF	NF	NF	NF	
M-3	5	1/16/2017	0.0	Moisture entered sample train. No sample.						
M-3	14.5	1/3/2017	Probe tip not visible in borehole/not found.							
M-3	14.5	1/16/2017	Probe tip not visible in borehole/not found.							
M-4	5	1/3/2017	1.0	NF	NF	NF	NF	NF	NF	
M-4	5	1/16/2017	0.0	NF	NF	NF	NF	NF	NF	
M-4	15	1/3/2017	1.0	NF	NF	NF	NF	NF	NF	
M-4	15	1/16/2017	0.0	0.0	MF	21.1	0.0	0.0	0.02	
M-5	5	1/3/2017	0.2	1.4	FO	13.6	3.8	0.0	MF	
M-5	5	1/16/2017	0.0	0.0	MF	11.4	4.3	0.0	0.00	
M-5	15	1/3/2017	0.0	0.1	FO	17.0	3.0	0.0	MF	
M-5	15	1/16/2017	0.2	0.0	MF	20.6	0.0	0.0	0.01	Slow flow
M-6	5	1/3/2017	0.0	0.0	FO	1.6	19.2	0.0	0.01	
M-6	5	1/16/2017	0.0	0.0	MF	20.5	0.0	0.0	0.02	Slow flow

Table 1
Summary of Field Results for Methane and Hydrogen Sulfide in Soil Gas

Soil Vapor Probe	Soil Vapor Probe Depth	Sample Date	Pressure (IN H2O) Magna-helic Gauge	Methane (CH4) Reading (%)-GEM 2K+	Methane (CH4) Reading (ppmv)-MICRO FID	Oxygen (O2) (%)	Carbon Dioxide (CO2) (%)	Hydrogen Sulfide (H2S) (ppmv)-GEM 2K+	Hydrogen Sulfide (H2S) (ppmv)-Jerome	Comments
M-6	11	1/3/2017	0.0	0.0	FO	3.1	18.1	0.0	MF	
M-6	11	1/16/2017	0.0	NF	NF	NF	NF	NF	NF	
M-7	5	1/3/2017	0.0	11.1	FO	6.7	5.0	0.0	MF	
M-7	5	1/16/2017	0.0	16.5	MF	0.9	6.9	0.0	0.00	
M-7	14.5	1/16/2017	0.0	0.0	MF	20.8	0.0	0.0	0.00	
M-7	14.5	1/3/2017	0.0	0.0	FO	20.1	0.0	0.0	MF	
M-8	5	1/3/2017	0.0	0.8 J2	FO	19.4	0.0	0.0	MF	
M-8	5	1/16/2017	0.10	0.0	MF	20.8	0.0	0.0	0.00	
M-8	14.5	1/3/2017	1.0	0.0	FO	20.6	0.0	0.0	MF	
M-8	14.5	1/16/2017	-0.02	0.0	MF	20.6	0.0	0.0	0.00	Low flow
M-9	5	1/3/2017	0.0	0.0	FO	19.4	0.8	0.0	MF	
M-9	5	1/16/2017	0.0	0.0	MF	18.5	0.8	0.0	0.00	
M-9	15	1/3/2017	Probe tip not visible in borehole/not found.							
M-9	15	1/16/2017	0.0	0.0	MF	19.4	0.4	0.0	0.01	
M-10	5	1/3/2017	0.0	0.0	FO	17.6	2.7	0.0	MF	
M-10	5	1/16/2017	0.0	0.0	MF	15.9	2.9	0.0	0.00	
M-10	13	1/3/2017	0.0	0.0	FO	17.0	3.5	0.0	MF	
M-10	13	1/16/2017	0.0	0.0	MF	15.5	3.5	0.0	0.00	
M-11	5	1/3/2017	0.0	0.0	MF	12.7	7.3	0.0	LB	
M-11	5	1/16/2017	0.0	0.0	MF	17.7	1.9	0.0	0.00	
M-11	15	1/3/2017	0.0	0.0	MF	15.6	2.9	0.0	LB	
M-11	15	1/16/2017	0.0	0.0	MF	10.0	8.1	0.0	0.00	
M-12	5	1/3/2017	0.0	0.0	MF	13.5	5.4	0.0	LB	
M-12	5	1/16/2017	0.0	0.0	12.5	18.3	1.7	0.0	0.00	

Table 1
Summary of Field Results for Methane and Hydrogen Sulfide in Soil Gas

Soil Vapor Probe	Soil Vapor Probe Depth	Sample Date	Pressure (IN H2O) Magna-helic Gauge	Methane (CH4) Reading (%)-GEM 2K+	Methane (CH4) Reading (ppmv)-MICRO FID	Oxygen (O2) (%)	Carbon Dioxide (CO2) (%)	Hydrogen Sulfide (H2S) (ppmv)-GEM 2K+	Hydrogen Sulfide (H2S) (ppmv)-Jerome	Comments
M-12	15	1/3/2017	0.0	NF	NF	NF	NF	NF	NF	
M-12	15	1/16/2017	0.0	NF	NF	NF	NF	NF	NF	
M-13	5	1/3/2017	0.1	0.0	MF	21.0	0.0	0.0	LB	
M-13	5	1/16/2017	1.0	0.5 J1	2,427 J1	20.5	0.1	0.0	0.00	
M-13	15	1/3/2017	0.0	NF	NF	NF	NF	NF	NF	
M-13	15	1/16/2017	-0.02	NF	NF	NF	NF	NF	NF	
M-14	5	1/3/2017	-0.2	0.0	0.0	21.1	0.0	0.0	0.00	
M-14	5	1/16/2017	0.0	0.1	MF	20.3	0.0	0.0	0.00	
M-14	15	1/3/2017	0.0	18.7 J1	3,800 J1	15.0	6.6	0.0	0.78	
M-14	15	1/16/2017	0.0	15.6 J1	MF	14.9	5.2	0.0	0.00	
M-15	5	1/3/2017	0.0	0.0	FO	10.9	3.8	0.0	MF	
M-15	5	1/16/2017	0.0	0.0	MF	0.7	12.3	0.0	0.00	
M-15	15	1/3/2017	0.0	9.4	FO	4.9	17.3	0.0	MF	Low flow
M-15	15	1/16/2017	0.18	9.2	MF	4.5	17.0	0.0	0.02	
M-16	5	1/3/2017	0.6	NF	NF	NF	NF	NF	NF	
M-16	5	1/16/2017	0.0	NF	NF	NF	NF	NF	NF	
M-16	14.5	1/3/2017	1.0	NF	NF	NF	NF	NF	NF	
M-16	14.5	1/16/2017	1.0	NF	NF	NF	NF	NF	NF	
M-17	5	1/3/2017	0.0	48.8	FO	4.1	3.7	0.0	MF	
M-17	5	1/16/2017	0.0	57.8 J2	MF	0.6	4.0	0.0	0.01	
M-17	15	1/3/2017	0.0	NF	NF	NF	NF	NF	NF	
M-17	15	1/16/2017	1.0	NF	NF	NF	NF	NF	NF	
M-18	5	1/3/2017	0.0	0.0	FO	20.8	0.0	0.0	0.00	
M-18	5	1/16/2017	0.0	NF	NF	NF	NF	NF	NF	

Table 1
Summary of Field Results for Methane and Hydrogen Sulfide in Soil Gas

Soil Vapor Probe	Soil Vapor Probe Depth	Sample Date	Pressure (IN H2O) Magna-helic Gauge	Methane (CH4) Reading (%)-GEM 2K+	Methane (CH4) Reading (ppmv)-MICRO FID	Oxygen (O2) (%)	Carbon Dioxide (CO2) (%)	Hydrogen Sulfide (H2S) (ppmv)-GEM 2K+	Hydrogen Sulfide (H2S) (ppmv)-Jerome	Comments
M-18	15	1/3/2017	0.0	NF	NF	NF	NF	NF	NF	
M-18	15	1/16/2017	0.0	0.1	MF	20.6	0.0	0.0	0.01	Low flow
M-19	5	1/3/2017	0.0	0.0	260	17.4	2.3	0.0	0.00	
M-19	5	1/16/2017	0.0	NF	NF	NF	NF	NF	NF	
M-19	15	1/3/2017	0.0	0.0	150	20.8	0.0	0.0	0.00	
M-19	15	1/16/2017	0.0	NF	NF	NF	NF	NF	NF	
M-20	5	1/3/2017	0.0	0.0	FO	20.8	0.0	0.0	0.00	
M-20	5	1/16/2017	0.0	0.0	MF	20.7	0.0	0.0	0.01	Low flow
M-20	15	1/3/2017	1.0	0.1	FO	20.7	0.0	1.0	LB	
M-20	15	1/16/2017	0.0	0.0	MF	20.6	0.0	0.0	0.02	Low flow
M-21	5	1/3/2017	0.0	0.0	FO	20.8	0.0	0.0	0.00	
M-21	5	1/16/2017	0.0	0.1	MF	20.4	0.0	0.0	0.00	Low flow
M-21	15	1/3/2017	0.14	0.2	FO	20.6	0.0	0.0	0.00	
M-21	15	1/16/2017	0.0	0.3	MF	20.3	0.0	0.0	0.01	Low flow
M-22	5	1/3/2017	0.0	0.3	FO	15.3	3.0	0.0	0.00	
M-22	5	1/16/2017	1.0	0.0	MF	20.0	0.0	0.0	0.01	
M-22	15	1/3/2017	1.0	0.4	FO	20.5	0.0	0.0	0.00	
M-22	15	1/16/2017	-0.02	0.0	MF	19.5	0.2	0.0	0.00	
M-23	5	1/3/2017	0.0	0.0	FO	13.2	2.7	0.0	MF	
M-23	5	1/16/2017	0.0	0.0	MF	1.2	12.8	0.0	0.00	
M-23	15	1/3/2017	0.0	0.0	FO	20.6	0.0	0.0	MF	
M-23	15	1/16/2017	0.30	0.0	MF	20.2	0.0	0.0	0.00	Slow flow
M-24	5	1/3/2017	0.0	0.0	FO	20.3	0.4	0.0	0.01	
M-24	5	1/16/2017	0.0	0.1	MF	1.2	13.2	0.0	0.00	

Table 1
Summary of Field Results for Methane and Hydrogen Sulfide in Soil Gas

Soil Vapor Probe	Soil Vapor Probe Depth	Sample Date	Pressure (IN H2O) Magna-helic Gauge	Methane (CH4) Reading (%)-GEM 2K+	Methane (CH4) Reading (ppmv)-MICRO FID	Oxygen (O2) (%)	Carbon Dioxide (CO2) (%)	Hydrogen Sulfide (H2S) (ppmv)-GEM 2K+	Hydrogen Sulfide (H2S) (ppmv)-Jerome	Comments
M-24	15	1/3/2017	0.0	0.0	FO	20.8	0.0	0.0	0.00	
M-24	15	1/16/2017	0.8	21.7	MF	3.8	16.5	1.0	0.02	
M-25	5	1/3/2017	0.0	NF	NF	NF	NF	NF	NF	
M-25	5	1/16/2017	0.0	0.0	MF	6.0	11.6	0.0	0.00	
M-25	15	1/3/2017	0.1	NF	NF	NF	NF	NF	NF	
M-25	15	1/16/2017	0.0	0.0	MF	20.4	0.0	0.0	0.00	
M-26	5	1/3/2017	1.0	NF	NF	NF	NF	NF	NF	
M-26	5	1/16/2017	1.0	NF	NF	NF	NF	NF	NF	
M-26	15	1/3/2017	1.0	NF	NF	NF	NF	NF	NF	
M-26	15	1/16/2017	0.72	NF	NF	NF	NF	NF	NF	
M-27	5	1/3/2017	0.0	0.0	MF	15.5	3.0	0.0	LB	
M-27	5	1/16/2017	0.0	0.0	1.2	14.4	3.6	0.0	0.00	
M-27	15	1/3/2017	0.0	0.0	MF	15.2	4.8	0.0	LB	
M-27	15	1/16/2017	0.0	0.0	3.4	14.0	5.0	0.0	0.00	
M-28	5	1/3/2017	0.0	0.0	46.0	20.9	0.0	0.0	0.01	
M-28	5	1/16/2017	0.0	0.0	MF	20.8	0.0	0.0	0.02	Slow flow
M-28	14.5	1/3/2017	0.2	0.0	54.0	20.9	0.0	0.0	0.01	
M-28	14.5	1/16/2017	0.0	0.0	MF	20.7	0.0	0.0	0.01	High vacuum, low flow
M-29	5	1/3/2017	0.0	0.0	51.5	15.5	4.0	0.0	0.00	
M-29	5	1/16/2017	0.0	NF	NF	NF	NF	NF	NF	
M-29	15	1/3/2017	0.0	0.0	129	10.4	9.5	0.0	0.00	
M-29	15	1/16/2017	0.0	NF	NF	NF	NF	NF	NF	
M-30	5	1/3/2017	0.0	0.0	MF	20.9	0.0	0.0	LB	
M-30	5	1/16/2017	-0.02	NF	NF	NF	NF	NF	NF	

Table 1
Summary of Field Results for Methane and Hydrogen Sulfide in Soil Gas

Soil Vapor Probe	Soil Vapor Probe Depth	Sample Date	Pressure (IN H2O) Magna-helic Gauge	Methane (CH4) Reading (%)-GEM 2K+	Methane (CH4) Reading (ppmv)-MICRO FID	Oxygen (O2) (%)	Carbon Dioxide (CO2) (%)	Hydrogen Sulfide (H2S) (ppmv)-GEM 2K+	Hydrogen Sulfide (H2S) (ppmv)-Jerome	Comments
M-30	9.5	1/16/2017	-0.02	NF	NF	NF	NF	NF	NF	
M-30	9.5	1/3/2017	0.0	NF	NF	NF	NF	NF	NF	

Notes:

FO=Flame Out
LB=Low Battery
MF=Malfunction
NF=No Flow
J1 = Estimate only based on variability between the field and laboratory results for methane, with the field result being lower than the laboratory result.
J2 = Estimate only based on variability between the field and laboratory results for methane, with the field result being higher than the laboratory result.
ppmv= Parts per million by volume in air
%=Percentage by volume in air
IN H2O= Inches of water column

Table 2

Summary of Laboratory Analytical Results for Methane and Hydrogen Sulfide in Soil Gas

Soil Vapor Probe	Soil Vapor Probe Depth	Sample Date	Field Pressure Reading (IN H2O) Magna-helic Gauge	Sample ID	Methane EPA Method 8015B (ppm)	Hydrogen Sulfide by ASTM Method D5504M (ppm)	Comments
M-1	15	1/3/2017	0.0	M-1-15.0'	20,100	3.500	Slow flow
M-7	5	1/3/2017	0.0	M-7-5.0'	106,000	0.0540	
		1/16/2017	0.0	M-7-6.0	133,000	0.0540	Probe depth is 5.0' bgs per boring log
M-8	5	1/3/2017	0.0	M-8-5.0'	124	0.00800	
M-13	5	1/16/2017	1.0	M-13-5.0	96,800	0.0210	
M-14	15	1/3/2017	0.0	M-14-15.0'	518,000	0.0640	
		1/16/2017	0.0	M-14-15	298,000	0.790	
M-15	15	1/3/2017	0.0	M-15-15.0'	62,300	1.100	Low flow
		1/16/2017	0.18	M-15-15	84,200	4.500	
M-17	5	1/3/2017	0.0	M-17-5.0'	472,000	0.530	Original sample
				M-17D-5.0'	577,000	0.540	Duplicate field sample
		1/16/2017	0.0	M-17-5.0	297,000	0.760	Original sample
				M-17-5.0D	388,000	0.840	Duplicate field sample
M-24	15	1/16/2017	0.8	M-24-15	285,000	5.400	

Notes:

ppm= Parts per million by volume in air
IN H2O= Inches of water column

ATTACHMENT A

REFERENCES

Leighton

ATTACHMENT A

References

California Geological Survey (CGS), Seismic Hazard Evaluation of the Hollywood 7.5 Minute Quadrangle, Los Angeles, County, California, Open File Report 98-17, 1998.

California Department of Water Resources (DWR), Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, Appendix A, Ground Water Geology: California Department of Water Resources Bulletin 104, 181 p, 1988.

Catchings, R.D., Gandhok, G., Goldman, M.R., and Okaya, D., Seismic Images and Fault Relations of the Santa Monica Thrust Fault, West Los Angeles, California: U.S. Geological Survey Open-File Report 01-111, 15 p, 2001.

Dibblee, T. W., Jr., Geologic Map of the Hollywood and Burbank South ½ Quadrangles, Los Angeles County, California, DF-30, 1991.

Dolan, J.F., Sieh, K, Rockwell, T.K., Guptill, P., and Miller, G., Active Tectonics, Paleoseismology, and Seismic Hazards of the Hollywood Fault, Northern Los Angeles Basin, California: Geological Society of America Bulletin, Volume 109, No. 12, pp. 1595-1616, 1997.

Dolan, J.F., Sieh, K., and Rockwell, T.K., Late Quaternary Activity and Seismic Potential of the Santa Monica Fault System, Los Angeles, California: Geological Society of America Bulletin, Volume 112, No. 10, pp. 1559-1581, 2000.

Freeman, S.T., Heath, E.G., Guptill, P.D., and Waggoneer, J.T., Seismic Hazard Assessment, Newport-Inglewood Fault Zone, in Pipkin, B.W. and Proctor, R.J. (editors), Engineering Geologic Practice in Southern California: Association of Engineering Geologists Special Publication No. 4, pp. 211-231, 1992.

Hildenbrand, T.G., Davidson, J.G., Ponti, D.J., and Langenheim, V.E., Implications for the Hollywood Basin from Gravity Interpretations of the Northern Los Angeles Basin, California: U.S. Geological Survey Open-File Report 2001-394, 24 p, 2001.

Hummon, C., Schneider, C.L., Yeats, R.S., Dolan, J.F., Sieh, K.E., and Huftile, G.J., Wilshire fault: Earthquake in Hollywood: Geological Society of America Geology, Volume 22, No. 4, pp. 291-294, 1994.

Office of Environmental Health and Safety (OEHS), Scope of Services, prepared by OEHS, dated November 22, 2016.

_____, Response to Request for Clarifications, prepared by OEHS, dated November 29, 2016.

Surveying and Drafting Services, Inc. Title, Ground Topographic and Subsurface Utility Survey, John Burroughs M.S., 600 McCadden Place, Los Angeles, CA 90005, Drawing No. 1-7, May 18, 2016.

State of California Environmental Protection Agency - Department of Toxic Substances Control (DTSC), Advisory – Active Soil Gas Investigations, developed jointly with the Los Angeles Regional Water Quality Control Board and the San Francisco Regional Water Quality Control Board, dated July 2015.

_____, Advisory on Methane Assessment and Common Remedies at School Sites, School Property Evaluation and Cleanup Division Department of Toxic Substances Control, dated June 16, 2006.

_____, Human Health Risk Assessment (HHRA) Note Number: 3, DTSC-modified screening levels, https://www.dtsc.ca.gov/AssessingRisk/upload/HHRA-Note-3-2016-01.pdf, August 2017.

Tsutsumi, H., Yeats, R.S., and Huftile, G.J., Late Cenozoic Tectonics of the Northern Los Angeles Fault System, California: Geological Society of America Bulletin, Volume 113, No. 4, pp. 454-468, 2001.

United States Environmental Protection Agency (EPA), Regional Screening Levels, Region 9: Pacific Southwest, Residential Soil Tables (TR-1E-06, THQ=1.0), http://www.epa.gov/region9/superfund/prg/, June 2017.

Western Environmental Engineers Co., Groundwater Sampling Report First Quarter, 2006 at Highland Express Cleaners Former Tidewater Retail Service Station 5020-5044 Wilshire Boulevard, Los Angeles, California, dated April 11, 2006.

WorleyParsons, Phase I Environmental Site Assessment, John Burroughs Middle School, 600 South McCadden Place, Los Angeles, California 90005, May 18, 2016.

Wright, T.L., Structural Geology and Tectonic Evolution if the Los Angeles Basin, California, in Biddle, K.T. (editor), Active Margin Basins: American Association of Petroleum Geologists Memoir 52, pp. 35-134, 1991.

Yerkes, R.F.; McCollouch, T.H.; Schoellhamer, J.E.; Vedder, J.G, Geology of the Los Angeles Basin, California- An Introduction: U.S. Geological Survey Professional Paper 420-A pp. 57, 1965.

ATTACHMENT B

DOGGR OIL WELL DATA – NO OIL WELLS ONSITE

Leighton

Department of Conservation

Lat: 34.06952, Long: -118.32651

Division of Oil, Gas & Geothermal Resources Well Finder

Find By Location

Find My Current Location

or

Street: 600 south mccadden place

City: los angeles

Zip: 90005 Find

Display a 1500 foot buffer

Buffer radius is limited to 10 mi (52800ft).

Find By API

Find By Lat, Long

Find By PLSS

Find By Oil/Gas Field

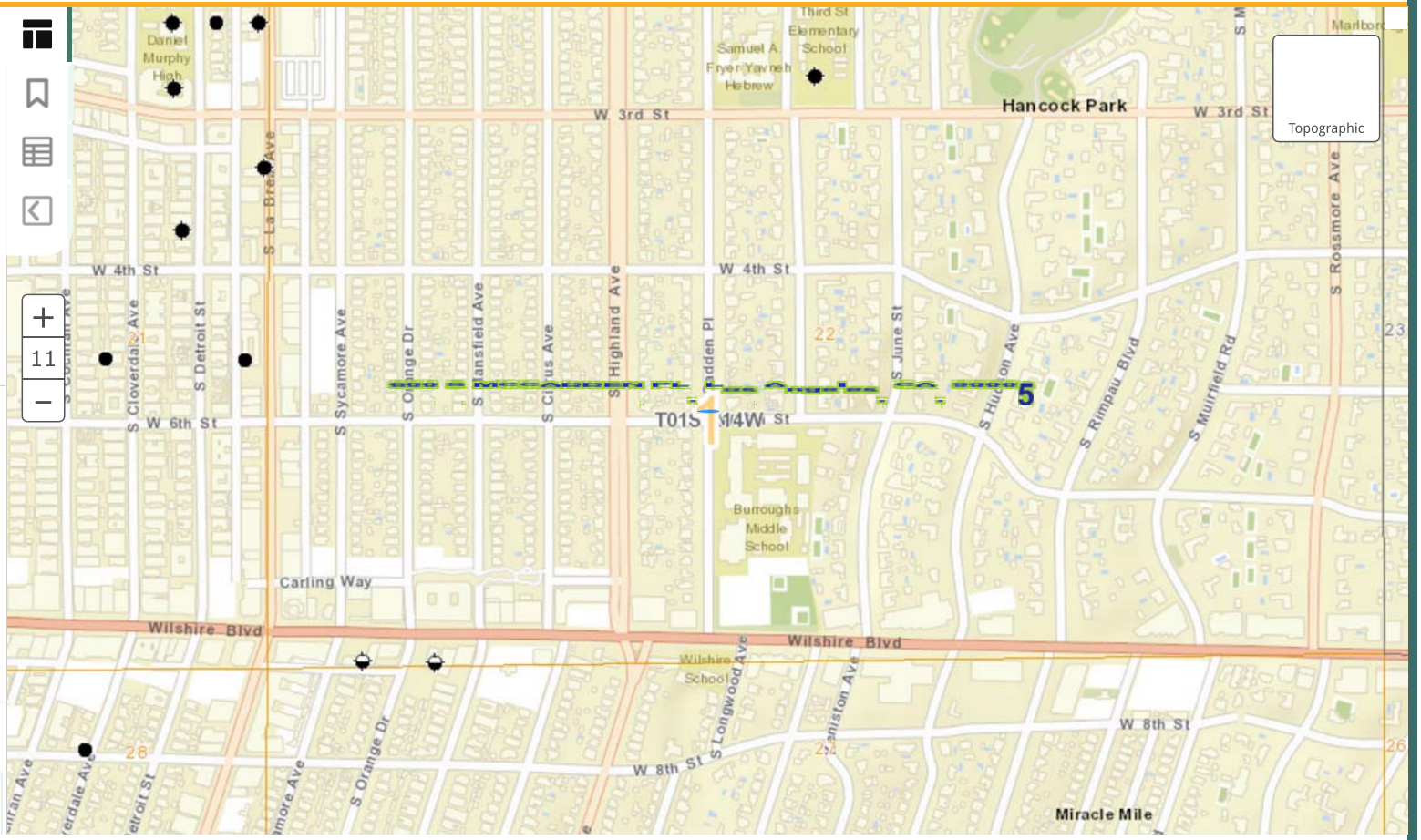
Data (Layers):

- Notices & Permits
- DOGGR Wells

Label: API# Well# Detailed

EPA Wells for Aquifer Exemption Review

Enhanced Oil Recovery Wells



Copyright © 2014 State of California Conditions of Use | Privacy Policy

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 100 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

REPORT OF WELL ABANDONMENT

Cypress, California
January 04, 2017

Mr. Robert Rosenblum
3279 Bernard L.P., A California Limited Partnership (A0010)
1875 Century Park East, Suite 2000
Los Angeles, CA 90067

Your report of abandonment of well **"Highland Corehole" 2**, A.P.I. No. **037-20045**, Section **22**, T. **01S**, R. **14W**, **SB** B.&M., **--** field, **Los Angeles** County, dated **12/15/2016**, received **12/19/2016**, has been examined in conjunction with records filed in this office. We have determined that the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and filing of well records. The plugging and abandonment of the well is **approved**.

The determination of this well plugging and abandonment is based on the following information, consistent with California Public Resources Code (PRC), and the California Code of Regulations (CCR):

1. Surface plugging completed on 12/30/2015.

2. Site inspection made and approved on 10/21/2016.

Kenneth A. Harris Jr.
State Oil and Gas Supervisor

By _____
For Daniel J. Dudak, *District Deputy*

Individual Bond 10033566

cc: EDP
L.A. City Fire Dept.
L.A. City Petroleum Administrator

EPM:epm

EXPIRED _____
CANCELLED _____
MAILED CC'S 1/5/17 vm
EMAILED operator 1/5/17 vm

OG159

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECKLIST – RECORDS RECEIVED AND WELL STATUS

Operator: 3279 Bernard L.P., A California Limited Partnership [A0010]
API #: 037-20045 **County** Los Angeles
Permit #: 115-0523

Well: Highland Corehole 2
Sec. 22 **T.** 01S **R.** 14W SB B&M
Field: Any Field

RV	RECORDS RECEIVED	Date
☒	Well Summary (Form OG100)	12/19/2016
☒	History (Form OG103)	12/19/2016
☐	Core Record	
☐	Directional Survey	
☐	Sidewall Samples	
☐	Pressure Test Chart	
☐	RA Survey	
☐	Other:	
	Well Logs (List Below):	
☐		
☐		
☐		
☐		
☐		
☐		
☐		
☐		
☐		

STATUS

Active	☐	Drilling	☐
Abandoned	☐	Idle	☐
Re-abandoned	☒	Other:	☐

WELL TYPE

Air Injection	☐	Ground Monitoring	☐	Steamflood	☐
Cyclic Steam	☐	Liquefied Gas	☐	Water Disposal	☐
Dry Gas	☐	Observation	☐	Water Flood	☐
Gas Disposal	☐	Oil & Gas	☒	Water Source	☐
Gas Storage	☐	Pressure Maintenance	☐	Other:	☐

EFFECTIVE DATE: 12/30/15

REMARKS: Re-abandoned

AREA ENGINEER'S CHECKLIST

RQ	RV		RQ	RV	Test	# of Tests	T-RPT	# of Reports
☒	☒	Operator's Name	☐	☐	BOPE		☐	
☒	☒	Well Designation	☒	☒	BOPI		☐	
☒	☒	Location	☒	☒	CEM		☒	116-1620
☒	☒	Elevation	☐	☐	RA		☐	
☒	☒	Notices	☐	☐	SAPT		☐	
☒	☒	Casing Record	☐	☐	Lap Test (WSO Form)		☐	
☒	☒	Plugs	☐	☐	Other:		☐	
☐	☐	Production/Injection *FAP Codes:* 000-00-00	☒	☒	Surface Inspection *Date(s):* 10/21/2016			
☐	☐	Notice of Records Due *Date(s):*			*If Waived* Island ☐ Platform ☐ Drill Site ☐ Common Cellar ☐			
☐	☐	CalWIMS Updated	☒	☒	Final Letter (OG159) AB: ☐ REAB: ☒			
☐	☐	Other:						

CLERICAL CHECKLIST

	Date & Initial		Date & Initial
WellStat Updated	N/A	Verify FAP codes	1/5/2017 vm
CalWIMS Updated	1/5/2017 vm	Moved to Public Access	1/5/2017 vm
Final Letter (OG159) Abd to current std.	1/4/2017 EM		

RECORDS NOT APPROVED (Reason) *Date(s):*

RECORDS APPROVED

Signature Ellen Plaza Moser *Date* 12/29/2016

**RQ – Required, RV - Reviewed*

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator 3279 Bernard L.P. Field Los Angeles County Los Angeles

Well "Highland Corehole" 2 Sec. 22 T. 01s R. 14w sbB.&M.

A.P.I. No. 037-20045 Name Mick Beyer Title Operations Manager

(Person submitting report) (President, Secretary, or Agent)

Date 12-15-16
(Month, day, year)

Signature M. B

Address 2109 Gundry Ave. Signal Hill, Ca. 90755 Telephone Number 562 989-6100

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

11-25-15	M.I.R.U. – Installed and tested B.O.P.E. (Waived by DOGGR) – Secured location
11-30-15 to 12-09-15	M.U. and R.I.H. W/ 5 5/8" Drill bit – Drilled hard cement from surface to 205' Broke through – (Tamara Escobedo w/DOGGR witnessed Approved BOPE) Cont. running drill bit tagged down at 440' drilled hard cement to 961' P.O.H.- Secured location
12-10-15	R.I.H. w/tbg. tail at 961' mixed and pumped 185 cu/ft. (162 sxs) class G cement (ETOC 100') All witnessed by P. Maat w/DOGGR – Secured location
12-11-15	R.I.H. Tagged cement at 97' – Removed BOPE – Rigged down all equipment – Secured location
12-30-15	Rigged up Crane ran tbg. tagged cement at 96' - mixed and pumped 38 cu/ft (33 sxs) class G cement from 96' to surface – P.O.H. – All witnessed by K. Bowen w/DOGGR – RDMO – Secured location
01-04-16	Dug down around well and cut casing 6' below surface – Secured well
01-15-16	Surface tag and welding of I.D.Plate all waived by P. Kaufman w/DOGGR – Installed Vent Cone - Backfilled location – All witnessed by J. Bosco w/ L.A.F.D. - Job complete.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

WELL SUMMARY REPORT

API NO. **037-20045**

Operator	Well				
3279 Bernard L.P.	**"Highland Corehole" 2**				
Field	County	Sec.	T.	R.	B.&M.
Los Angeles	**Los Angeles**	**22**	**01s**	**14w**	**sb**

Location (Give surface location from property or section corner, street center line)
From intersection of C/L's of Wilshire Blvd. and S. Orange Dr. go 22' E'ly & 116.5' S'ly.

Elevation of ground above sea level **356.52'**

California Coordinates (if known): **NAD83 LAT. 34.061777 LONG. -118.341420**

Was the well directionally drilled? ☐ Yes ☒ No If yes, show coordinates at total depth.

Commenced drilling (date)	Total depth		
1967	(1st hole) **6000'**	(2nd)	(3rd)
Completed drilling (date) **1967**			

Depth measurements taken from top of:
☐ Derrick Floor ☒ Rotary Table ☐ Kelly Bushing

Which is **10'** feet above ground

Commenced production/injection (date)

Present effective depth

Production mode: ☐ Flowing ☐ Pumping ☐ Gas lift

Junk
Cement plug 6000' to 1303"
Cement plug 1145" to 6'

Name of production/injection zone(s)
N/A Stratigraphic CoreHole

GEOLOGICAL MARKERS	DEPTH

Formation and age at total depth

Base of fresh water **300'**

	Clean Oil (bbl per day)	API Gravity (clean oil)	Percent Water (including emulsion)	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production						
Production After 30 days						

CASING AND CEMENTING RECORD (Present Hole)

Size of Casing (API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New (N) or Used (U)	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)	Top(s) of Cement in Annulus
10 3/4"	6'	90'	40#			22"	220 sacks		6'
7"	6'	994'	23#			9 7/8"	320 sacks		6'

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)

Logs/surveys run? ☐ Yes ☒ No If yes, list type(s) and depth(s).

In compliance with Sec. 3215, Division 3, of the *Public Resources Code*, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name	Title	
Mick Beyer	**Operations Manager**	
Address **2109 Gundry Ave.**	City/State **Signal Hill**	Zip Code **90755**
Telephone Number **562 989-6100**	Signature M. B	Date **11-29-16**

OG100 (1/98/GSR/1M)
Printed on recycled paper.

SUBMIT IN DUPLICATE

Job # 15-4352

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 100 Cypress, CA 90630 - 4731

No. P 115-0517

Old	New
000	000
FIELD CODE	
00	00
AREA CODE	
00	00
POOL CODE	

PERMIT TO CONDUCT WELL OPERATIONS

CRITICAL WELL

Cypress, California
November 12, 2015

Mr. Robert Rosenblum, Agent
3279 Bernard L.P., A California Limited Partnership (A0010)
1875 Century Park East, Suite 2000
Los Angeles, CA 90067

Your proposal to **Re-Abandon** well **"Highland Corehole" 2**, A.P.I. No. **037-20045**, Section **22**, T. **01S**, R. **14W**, SB B. & M. (Lat: **34.061777** Long: **-118.341420** Datum:**83**), -- field, -- area, -- pool, **Los Angeles** County, dated **7/30/2015**, received **8/3/2015** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
   a. Class **II2M,** with hydraulic controls, for **re-abandonment** operations.
2. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.
3. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
4. All annuli are filed with cement from **35'** to **5'**.
5. All casing must be removed from between **5'** and **10'** below ground level.
6. A steel plate, at least as thick as the outer well casing and bearing the last five digits of the API number, shall be tack welded around the top circumference of the outer casing.
7. The well location shall be surveyed prior to burying the well, and the survey shall be filed with this office. Latitude and longitude shall be in decimal degrees, to six decimal places, in NAD83
8. Well site restoration shall be completed within 60 days following the completion of plugging operations.
9. No program changes are made without prior Division approval.
10. **THIS DIVISION SHALL BE NOTIFIED TO:**
    a. Inspect the installed blowout prevention equipment prior to commencing **downhole** operations.
    b. Witness the clean-out depth at **944'** (estimated depth of the top of the "intermediate" plug).
    c. Witness the placing of the cement plug from **944'** to **surface**.
    d. Witness the location and hardness of cement at surface, including all annular spaces.
    e. Inspect the restored well site.

(Continued on Page 2)

Steven Bohlen
State Oil and Gas Supervisor

By
For Daniel J. Dudak, *District Deputy*

Individual #10033566 Bond
cc:

Engineer Callie L. Cullum
Office (714) 816-6847

CC/cc

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

OG111 (revised 6/2011)

Well #: **"Highland Corehole" 2**
API #: **037-20045**
Permit : **P 115-0517**
Date: November 12, 2015

NOTE:

1. All depths are referenced to Kelly Bushing (KB) which is 11 feet above the ground.
2. The proposed surface plug shall not contain rock or gravel.
3. Zone isolation cement plugs shall use cement that has a minimum compressive strength of 1000 psi and a maximum liquid permeability of 0.1 millidarcy (md).
4. Upon completion of the proposed work, a Well Summary Report (form OG100), a History of Oil or Gas Well (form OG103), and copies of all logs, tests, and surveys shall be submitted to this office.
5. The Division recommends that not structure be placed in a manner that will impede future access to the well.
6. Report of Well Plugging and RE-Abandonment (form OG159) will not be released until all records and histories are on file with this Division.
7. This permit was held in abeyance pending receipt and review of additional documents that demonstrate the potential freshwater sands will be protected.

12/2/15 Tamara Estibedo - witnessed BOP I and conducted a BOP drill.
12/10/15 witnessed cleanout tag at 961' and placement of 185cf cements; ETOC 100' P. Macat CA DOGGR
12/30/15 witnessed cleanout tag @ 96' and placement of 35 cu ft of CMT to surface - K Bowen DOGGR

1-15-2016 - witness plate + cave placement on corehole #1 + #2
LAFD Inspector [signature]

From:	Martinez, Valerie@DOC
To:	Jones, Tiffany@DOC
Subject:	FW: Re-P&A Documentation for 3279 Bernard L.P. (former Chevron USA, Inc.) "Highland Corehole" 2
Date:	Monday, December 19, 2016 8:02:42 AM
Attachments:	API 037-20045 CVX Highland Corehole #2 Well History .pdf

From: Benjamin Lawrence "Larry" Barnes III [mailto:envirogenesis@gmail.com]
Sent: Friday, December 16, 2016 2:15 PM
To: Irick, Barry@DOC; Martinez, Valerie@DOC
Cc: Aaron Korda; Daniel Korda; Dalia Pelleg; David Noddle
Subject: Re-P&A Documentation for 3279 Bernard L.P. (former Chevron USA, Inc.) "Highland Corehole" 2

To All Interested Parties-

The former Chevron U.S.A., Inc. (now 3279 Bernard L.P.) "Highland Corehole" 2 (API No. 037-20045) was re-plugged and re-abandoned (re-P&A'd) by AllenCo pursuant to a well program approved by and compliant with DOGGR guidelines approximately one year ago. The attached forms and documentation are hereby submitted to remedy any outstanding administrative deficiencies that have prevented closure of the well file and cancellation of the well indemnification bond.

Attached please find the following:

1. DOGGR Form OG103 "History of Oil or Gas Well" dated 12-15-16;
2. DOGGR Form 100 "Well Summary Report" dated 11-29-16; and
3. DOGGR Form 111 "Permit to Conduct Well Operations" dated 11-12-15 together with witness "sign-offs" by DOGGR and LAFD-HIU engineers.

Please advise if you require another formal Request for Release of Individual Oil and Gas Well Indemnification Bond by the ownership entity or any other forms to close this well file.

THANK YOU for your assistance and patience regarding this matter.

Larry Barnes
Petroleum Engineer
Environmental Engineer
Geologist for The Korda Group

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 100 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

No. T **116-1620**

REPORT ON OPERATIONS

Mr. Robert Rosenblum
3279 Bernard L.P., A California Limited Partnership (A0010)
1875 Century Park East, Suite 2000
Los Angeles, CA 90067

Cypress, California
December 29, 2016

Your operations at well **"Highland Corehole" 2**, A.P.I. No. **037-20045**, Sec. **22**, T. **01S**, R. **14W**, **SB** B.&M., **--** field, in **Los Angeles** County, were witnessed on **12/30/2015**, by **Kenton Bowen**, a representative of the supervisor.

The operations were performed for the purpose of **re-abandonment**.

DECISION: **APPROVED**

Notes: The required Class II3M blowout prevention equipment was inspected and approved on 12/2/2015

EXPIRED
CANCELLED
MAILED
EMAILED 1.3.17 TL

KCB/EPM

Kenneth A. Harris Jr.
State Oil and Gas Supervisor

By
For Daniel J. Dudak, *District Deputy*

116-1620

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CEMENTING/PLUGGING MEMO

Operator 3279 Bernard L.P., A California Limited Partnership Well No. Highland Corehole 2

API No. 037-20045 Sec. 22 T. 01S R. 14W , SB B&M

Field ---- LA. County , County Los Angeles . On ~~1/15/15~~ 12/30/2015

Mr. / Ms. ~~Waived~~ Kenton Bowen representative of the supervisor, was present from 0845 to 1145 .

There were also present J Boscoe - fire Department

Casing record of well: 10-3/4 CEM to 90'; 7" CEM to 994

The operations were performed for the purpose of: Re-Abandon

☒ The plugging/cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ _____ ' are approved.

Hole size: _____ " fr. _____ ' to _____ ', _____ " to _____ ' & _____ " to _____ '

Casing				Cemented			Top of Fill		Squeezed Away	Final Pressure	Perforations
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Casing/tubing recovered: _____ " Shot/cut at _____ ', _____ ', _____ ', Pulled fr. _____ ';

_____ " Shot/cut at _____ ', _____ ', _____ ', Pulled fr. _____ '.

_____ " Shot/cut at _____ ', _____ ', _____ ', Pulled fr. _____ '.

Junk (in hole): _____

Hole fluid (bailed to) at _____ '. Witnessed by _____

Mudding	Date	bbls	Displaced	Poured	Fill	Engineer

Note (12) Class II 2M; 12-2-15; T. Escobedo

C/O @ 961'; 12-10-15; P. Maat

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engineer	Depth	Wt/Sample	Date & Time	Engineer
12-10-15	185cf	Tbg @ 961'	1230	P. Maat	96'	visual	0945; 12/30	KB
12-30-15	40 cf	Tbg @ 96'	1100	K Bowen	6'	visual	1/15 rpt by	J.Boscoe

API No. 037-20045 DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES T _____

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator 3279 Bernard L.P. Well "Highland Corehole" 2 Sec. 22 T. 01S R. 14W

Field --- County Los Angeles Spud Date _____

VISITS:	Date	Engineer	Time	Operator's Rep.	Title
1st	12/2/2015	Tamara Escobedo	(1145 to 1330)	Kenneth Wenger	Consultant
2nd			(to)		

Contractor Allenco Rig # 7 Contractor's Rep. & Title Ivan Sandoval, Drill Rig Superintendant

Casing record of well: 10-3/4" cem 90'; 7" cem 994'. TD 6000'. Plugged w/ cem 5990' – 794', 200' – surface.

MEMO

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y ☒ N ☐

DECISION: The blowout prevention equipment and its installation on the 7" " casing are approved.

Proposed Well Opns: Reabandonment . MACP: _____ psi

Hole size: _____ " fr. _____ ' to _____ ', _____ " to _____ ' & _____ " to _____ '

REQUIRED BOPE CLASS: II2M

CASING RECORD OF BOPE ANCHOR STRING

Size	Weight(s)	Grade(s)	Shoe at	CP at	Cement Details	Top of Cement Casing	Top of Cement Annulus

BOP STACK

API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul
Rd	2-7/8	Shaffer	LWS	9"	3M	
Rd	CSO	Shaffer	LWS	9"	3M	

TEST DATA

Gal. to Close	Recov. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
3						
3						

ACTUATING SYSTEM

Accumulator Unit(s) Working Pressure N/A psi

Total Rated Pump Output _____ gpm Fluid Level OK

Distance from Well Bore 25 ft.

	Accum. Manufacturer	Capacity	Precharge
1		gal.	psi
2		gal.	psi

	CONTROL STATIONS	Elec.	Hyd.	Pneu
	Manifold at accumulator unit			
	Remote at Driller's station			
x	Other: hand pump		x	

	EMERG. BACKUP SYSTEM			Press.	Wkg.
	N_2 Cylinders	1	L= 51 "	2200	6 gal.
	Other:	2	L= "		gal.
		3	L= "		gal.
		4	L= "		gal.
		5	L= "		gal.
		6	L= "		gal.
			TOTAL: 6		gal

	HOLE FLUID MONITORING EQUIPMENT	Alarm Type Audible	Alarm Type Visual	Class
x	Calibrated Mud Pit			A
	Pit Level Indicator			
	Pump Stroke Counter			B
	Pit Level Recorder			
	Flow Sensor			C
	Mud Totalizer			
	Calibrated Trip Tank			
	Other:			

TOTAL: 2

AUXILIARY EQUIPMENT

		No.	Size (in.)	Rated Press.	Connections Weld	Connections Flange	Connections Thread	Test Press.
	Fill-up Line							
x	Kill Line		32	2M			x	
x	Control Valve(s)	3		2M			x	
	Check Valve(s)							
	Aux. Pump Connect.							
x	Choke Line							
	Control Valve(s)							
	Pressure Gauge							
	Adjustable Choke(s)							
	Bleed Line							
	Upper Kelly Cock							
	Lower Kelly Cock							
	Standpipe Valve							
	Standpipe Press.							
x	Pipe Safety Valve		2 3/8	3M				
	Internal Preventer							

Hole Fluid Type	Weight	Storage Pits (Type & Size)
lease water		60 bbls

REMARKS AND DEFICIENCIES:

OGD9 (3/98)

Huff, John@DOC

From: Huff, John@DOC
Sent: Friday, December 4, 2015 11:09 AM
To: 'Mick Beyer'
Cc: Moser, Ellen@DOC; Morlan, Randall@DOC; Cullum, Callie@DOC
Subject: RE: Highland core hole #1

Mick,

Based on the latest information available, this well appears to be "Highland Corehole" 2 (037-20045), not "Highland Corehole" 1 as stated in your subject line. As there was no Division-approved cement plug placed in this well between 200' and 944', this well will need to be cleaned out to 944' and re-abandoned according to the requirements on permit # P115-0517.

Regards,

John Huff
Associate Oil & Gas Engineer
Department of Conservation
Division of Oil, Gas & Geothermal Resources
5816 Corporate Ave., Suite 100
Cypress, CA 90630-4731
(714) 816-6847

Every Californian should conserve water. Find out how at:

SaveOurWater.com · Drought.CA.gov

-----Original Message-----
From: Mick Beyer [mailto:mbeyer@allencoca.com]
Sent: Friday, December 4, 2015 9:53 AM
To: Huff, John@DOC <John.C.Huff@conservation.ca.gov>
Subject: Highland core hole #1

John,
We have been drilling hard concrete with no voids. We are at 630'
Can we cement at this depth?

ALLENCO WELL CREW REPORTS 15-4352 Thursday

WELL NAME	RIG NO .	Service Report Num	COMPANY	LEASE	DATE
Westside Corehole	7	30874	Westside CO	SFS	12/3/2015

VENDORS NAME	DAILY COST
AllenCo 4 man Crew $408 hr X 12	$ 4,896.00
Allenco Rig #2 $117 hr X 10	$ 1,170.00
Allenco Fuel $100	$ 100.00
Allenco Power swivel	$ 950.00
Allenco Mud pump & Pit	$ 980.00
Allenco BOP	$ 600.00
Allenco Vac Truck $95 X 4	$ 380.00
Est. DAILY TOTAL	$ 9,076.00

FAILURE :

DAY_5

TODAYS COST	TODAYS HOURS
$9,076.00	12

PREVIOUS COST	PREVIOUS HOURS
$37,213.50	45 1/2

CUMULATIVE COST	CUMULATIVE HOURS
$46,289.50	57 1/2

TAGGED FILL	KB
RECOVERED :	TD
BAILER:	
SCRAPER SIZE :	STOPPED :

CASING :	LINER SIZE
PBTD:	LINER DEPTHS :
PERFS :	

PUMP MAKE PULLED:	
PUMP MAKE RAN :	

PUMP SIZE :	
PUMP SIZE :	

TUBING DETAIL : Well Head Flange:

Description	NUMBER	LENGTH	DEPTH

ROD DETAIL :

SIZE	AMOUNT	GRADE	GUIDES

SUMMARY OF PROCEDURES :

START TIME: 6:00 AM STOP TIME: 6:00 PM

DTL, Held JSA meeting, Replaced 5 5/8" Drill bit w/ new one, Ran back and tagged cement @ 555', Drilled out concrete to 630', (Drilling Hard concrete 30' in 3.5 hrs) Circulated Hole Clean, Secured well, EOT.

FOREMAN :	Ken	RIG SUPERVISOR:	Ivan Sandoval

ALLENCO WELL CREW REPORTS 15-4352 Wednesday

WELL NAME	RIG NO .	Service Report Num	COMPANY	LEASE	DATE
Westside Corehole	7	30873	Westside CO	SFS	12/2/2015

VENDORS NAME	DAILY COST
AllenCo 4 man Crew $408 hr X 12	$ 4,896.00
Allenco Rig #2 $117 hr X 10	$ 1,170.00
Allenco Fuel $100	$ 100.00
Allenco Power swivel	$ 950.00
Allenco Mud pump & Pit	$ 980.00
Allenco BOP	$ 600.00
Allenco Vac Truck $95 X 8	$ 760.00
Est. DAILY TOTAL	$ 9,456.00

FAILURE :

DAY_4

TODAYS COST	TODAYS HOURS
$9,456.00	12

PREVIOUS COST	PREVIOUS HOURS
$27,757.50	33 1/2

CUMULATIVE COST	CUMULATIVE HOURS
$37,213.50	45 1/2

TAGGED FILL	KB
RECOVERED :	TD
BAILER:	
SCRAPER SIZE :	STOPPED :

CASING :	LINER SIZE
PBTD:	LINER DEPTHS :
PERFS :	

PUMP MAKE PULLED:	
PUMP MAKE RAN :	

PUMP SIZE :	
PUMP SIZE :	

TUBING DETAIL : Well Head Flange:

Description	NUMBER	LENGTH	DEPTH

ROD DETAIL :

SIZE	AMOUNT	GRADE	GUIDES

SUMMARY OF PROCEDURES :

START TIME: 6:00 AM STOP TIME: 6:00 PM

DTL, Held JSA meeting, Lowered 5 5/8" to concrete, Drilled out Concrete From 175' to 210', At That Point broke thru, Continued running Tbg to 450' top of 2nd Plug, Drilled out cement to 555', Circulated Hole Clean, POH, Inspected Drill bit, Look Wore, Secured well, EOT.

FOREMAN :	Ken	RIG SUPERVISOR:	Ivan Sandoval

ALLENCO WELL CREW REPORTS 15-4352 Tuesday

WELL NAME	RIG NO .	Service Report Num	COMPANY	LEASE	DATE
Westside Corehole	7	30872	Westside CO	SFS	12/1/2015

VENDORS NAME	DAILY COST
AllenCo 4 man Crew $408 hr X 12	$ 4,896.00
Allenco Rig #2 $117 hr X 10	$ 1,170.00
Allenco Fuel $100	$ 100.00
Allenco Power swivel	$ 950.00
Allenco Mud pump & Pit	$ 980.00
Allenco BOP	$ 600.00
Allenco Vac Truck $95 X 10	$ 950.00
Est. DAILY TOTAL	$ 9,646.00

FAILURE :

DAY_3

TODAYS COST	TODAYS HOURS
$9,646.00	12

PREVIOUS COST	PREVIOUS HOURS
$18,111.50	21 1/2

CUMULATIVE COST	CUMULATIVE HOURS
$27,757.50	33 1/2

TAGGED FILL	KB
RECOVERED :	TD
BAILER:	
SCRAPER SIZE :	STOPPED :

CASING :	LINER SIZE
PBTD:	LINER DEPTHS :
PERFS :	

PUMP MAKE PULLED:	
PUMP MAKE RAN :	

PUMP SIZE :	
PUMP SIZE :	

TUBING DETAIL : Well Head Flange:

Description	NUMBER	LENGTH	DEPTH

ROD DETAIL :

SIZE	AMOUNT	GRADE	GUIDES

SUMMARY OF PROCEDURES :

START TIME: 6:00 AM STOP TIME: 6:00 PM

DTL, Held JSA meeting, Lowered 5 5/8" to concrete, Drilled out Concrete From 65' to 175', Circulated hole Clean, POH, Inspected Drill bit, Look OK, Secured well, EOT.

FOREMAN :	Ken	RIG SUPERVISOR:	Ivan Sandoval

ALLENCO WELL CREW REPORTS 15-4352 Monday

WELL NAME	RIG NO .	Service Report Num	COMPANY	LEASE	DATE
Westside Corehole	7	30871	Westside CO	SFS	11/30/2015

VENDORS NAME	DAILY COST
AllenCo 4 man Crew $408 hr X 12	$ 4,896.00
Allenco Rig #2 $117 hr X 10	$ 1,170.00
Allenco Fuel $100	$ 100.00
Allenco Power swivel	$ 950.00
Allenco Mud pump & Pit	$ 980.00
Allenco BOP	$ 600.00
Allenco Vac Truck $95 X 10	$ 950.00
Est. DAILY TOTAL	$ 9,646.00

FAILURE :

DAY_2

TODAYS COST	TODAYS HOURS
$9,646.00	12

PREVIOUS COST	PREVIOUS HOURS
$8,465.50	9 1/2

CUMULATIVE COST	CUMULATIVE HOURS
$18,111.50	21 1/2

TAGGED FILL	KB
RECOVERED :	TD
BAILER:	
SCRAPER SIZE :	STOPPED :

CASING :	LINER SIZE
PBTD:	LINER DEPTHS :
PERFS :	

PUMP MAKE PULLED:	
PUMP MAKE RAN :	

PUMP SIZE :	
PUMP SIZE :	

TUBING DETAIL : Well Head Flange:

Description	NUMBER	LENGTH	DEPTH

ROD DETAIL :

SIZE	AMOUNT	GRADE	GUIDES

SUMMARY OF PROCEDURES :

START TIME: 6:00 AM STOP TIME: 6:00 PM

DTL, Held JSA meeting, P/U 1 joint of 4 3/4" Drill collar w/ 5 5/8" Drill bit on bottom, Drilled out Concrete From surface to 65', Circulated hole clean, Pilled up 30', Secured well, EOT.

FOREMAN :	Ken	RIG SUPERVISOR:	Ivan Sandoval

ALLENCO WELL CREW REPORTS 15-4352 Wednesday

WELL NAME	RIG NO .	Service Report Num	COMPANY	LEASE	DATE
Westside Corehole	7	30870	Westside CO	SFS	11/25/2015

VENDORS NAME	DAILY COST
AllenCo 4 man Crew $408 hr X 9.5	$ 3,876.00
Allenco Rig #2 $117 hr X 8.5	$ 994.50
Allenco Fuel $100	$ 100.00
AllenCo Trucking $95 hr X 9	$ 855.00
Allenco Backhoe $125 X 12	$ 1,500.00
Welder $95 X 12	$ 1,140.00
Est. DAILY TOTAL	$ 8,465.50

FAILURE :

DAY_1

TODAYS COST	TODAYS HOURS
$8,465.50	9 1/2

PREVIOUS COST	PREVIOUS HOURS

CUMULATIVE COST	CUMULATIVE HOURS
$8,465.50	9 1/2

TAGGED FILL	KB
RECOVERED :	TD
BAILER:	
SCRAPER SIZE :	STOPPED :

CASING :	LINER SIZE
PBTD:	LINER DEPTHS :
PERFS :	

PUMP MAKE PULLED:	
PUMP MAKE RAN :	

PUMP SIZE :	
PUMP SIZE :	

TUBING DETAIL : Well Head Flange:

Description	NUMBER	LENGTH	DEPTH

ROD DETAIL :

SIZE	AMOUNT	GRADE	GUIDES

SUMMARY OF PROCEDURES :

START TIME: 6:30 AM STOP TIME: 4:00 PM

DTL, Held JSA meeting, Had backhoe to dig cellar and install cellar Ring, Had welder to Weld wellhead To 7" Casing, Moved Rig and rigged up, Secured hoist, Installed and function tested BOP, Good, R/U Power swivel and working floor, Had Trucking to deliver and spot, Tbg trailer and Mud pump, Secured Well, EOT. (BOP Inspection Deferred By DOGGER, Paula)

FOREMAN :	Ken	RIG SUPERVISOR:	Ivan Sandoval

Customer	Westside Contractors	KB	22.00	KB + TOOLS - ADJ.	BHA
WELL #	Highland Corehole	TOOLS	93.00		115.00
DATE	12/1/2015	ADJUSTMENT	0.00	Jts Target	
Total Joints	117	Size and Weight		Out 30 Jts on Hook/Ftln	87--14

JOINT #		TOTAL LENGTH	10 JT TOTAL	W/ BHA	Joint #		TOTAL LENGTH	10 JT TOTAL	W/ BHA	JOINT #		TBG LENGTH	10 JT TALLY	W/ BHA
1	31.79	31.79		146.79	51		-		-	101		-		-
2	32.10	63.89		178.89	52		-		-	102		-		-
3	31.69	95.58		210.58	53		-		-	103		-		-
4	32.35	127.93		242.93	54		-		-	104		-		-
5	32.95	160.88		275.88	55		-		-	105		-		-
6	31.80	192.68		307.68	56		-		-	106		-		-
7	31.60	224.28		339.28	57		-		-	107		-		-
8	32.36	256.64		371.64	58		-		-	108		-		-
9	31.95	288.59		403.59	59		-		-	109		-		-
10	31.20	319.79	319.79	434.79	60		-	0.00	-	110		-	0.00	-
11	32.15	351.94		466.94	61		-		-	111		-		-
12	32.40	384.34		499.34	62		-		-	112		-		-
13	32.40	416.74		531.74	63		-		-	113		-		-
14	32.50	449.24		564.24	64		-		-	114		-		-
15	31.62	480.86		595.86	65		-		-	115		-		-
16	32.35	513.21		628.21	66		-		-	116		-		-
17	32.38	545.59		660.59	67		-		-	117		-		-
18	32.30	577.89		692.89	68		-		-	118		-		-
19	31.65	609.54		724.54	69		-		-	119		-		-
20		-	289.75	-	70		-	0.00	-	120		-	0.00	-
21		-		-	71		-		-	121		-		-
22		-		-	72		-		-	122		-		-
23		-		-	73		-		-	123		-		-
24		-		-	74		-		-	124		-		-
25		-		-	75		-		-	125		-		-
26		-		-	76		-		-	126		-		-
27		-		-	77		-		-	127		-		-
28		-		-	78		-		-	128		-		-
29		-		-	79		-		-	129		-		-
30		-	0.00	-	80		-	0.00	-	130		-	0.00	-
31		-		-	81		-		-	131		-		-
32		-		-	82		-		-	132		-		-
33		-		-	83		-		-	133		-		-
34		-		-	84		-		-	134		-		-
35		-		-	85		-		-	135		-		-
36		-		-	86		-		-	136		-		-
37		-		-	87		-		-	137		-		-
38		-		-	88		-		-	138		-		-
39		-		-	89		-		-	139		-		-
40		-	0.00	-	90		-	0.00	-	140		-	0.00	-
41		-		-	91		-		-	141		-		-
42		-		-	92		-		-	142		-		-
43		-		-	93		-		-	143		-		-
44		-		-	94		-		-	144		-		-
45		-		-	95		-		-	145		-		-
46		-		-	96		-		-	146		-		-
47		-		-	97		-		-	147		-		-
48		-		-	98		-		-	148		-		-
49		-		-	99		-		-	149		-		-
50		-	0.00	-	100		-	0.00	-	150		-	0.00	-

Huff, John@DOC

From: Mick Beyer <mbeyer@allencoca.com>
Sent: Wednesday, December 2, 2015 5:12 PM
To: Huff, John@DOC
Subject: Re: Highland corehole 2

Ok thanks

Sent from my iPhone

On Dec 2, 2015, at 4:01 PM, Huff, John@DOC <John.C.Huff@conservation.ca.gov> wrote:

> Mick,
>
> Based on the information provided below and found in our well files for Highland Corehole 1 and Highland Corehole 2, we cannot approve placing a cement plug from 530'. It will be necessary to continue cleaning out this well. When the well is cleaned out to 800', please contact this office with information about the cleanout operations. If a void is encountered between 530' and 800', please also contact this office so that this well's situation can be reevaluated.
>
> Regards,
>
> **John Huff**
> Associate Oil & Gas Engineer
> Department of Conservation
> Division of Oil, Gas & Geothermal Resources
> 5816 Corporate Ave., Suite 100
> Cypress, CA 90630-4731
> (714) 816-6847
>
> Every Californian should conserve water. Find out how at:
>
> Save Our Water
>
> SaveOurWater.com · Drought.CA.gov

From: Beyer Mick [mailto:mbeyer@allencoca.com]
Sent: Wednesday, December 2, 2015 2:50 PM
To: Huff, John@DOC <John.C.Huff@conservation.ca.gov>
Subject: Highland corehole 2

Hi John,
Per our phone call;
We have drilled out 200' surface cement plug on this well, fell through from 200' to 450'. We hit another hard cement plug at 450' and have been drilling hard cement for 4 ½ hours down to 530'.
I would like to cement from 530' to surface.

Sincerely,

Mick

Mick Beyer, Operations Manager
mbeyer@allencoca.com
AllenCo
2109 Gundry Avenue
Signal Hill, CA 90755
Phone: 562-989-6100
FAX: 562-989-6104
Cell: 310-505-9787
www.allenco-oilwellservice.com

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 100 Cypress, CA 90630 - 4731

No. P 115-0517

Old	New
000	000
FIELD CODE	
00	00
AREA CODE	
00	00
POOL CODE	

PERMIT TO CONDUCT WELL OPERATIONS

CRITICAL WELL

Cypress, California
November 12, 2015

Mr. Robert Rosenblum, Agent
3279 Bernard L.P., A California Limited Partnership (A0010)
1875 Century Park East, Suite 2000
Los Angeles, CA 90067

EXPIRED _____
CANCELLED _____
MAILED _____
EMAILED 11.17.15 TL

Your proposal to **Re-Abandon** well **"Highland Corehole" 2**, A.P.I. No. **037-20045**, Section **22**, T. **01S**, R. **14W**, **SB** B. & M. (Lat: **34.061777** Long: **-118.341420** Datum:**83**), **--** field, **--** area, **--** pool, **Los Angeles** County, dated **7/30/2015**, received **8/3/2015** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
   a. Class **II2M,** with hydraulic controls, for **re-abandonment** operations.
2. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.
3. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
4. All annuli are filed with cement from **35'** to **5'**.
5. All casing must be removed from between **5'** and **10'** below ground level.
6. A steel plate, at least as thick as the outer well casing and bearing the last five digits of the API number, shall be tack welded around the top circumference of the outer casing.
7. The well location shall be surveyed prior to burying the well, and the survey shall be filed with this office. Latitude and longitude shall be in decimal degrees, to six decimal places, in NAD83
8. Well site restoration shall be completed within 60 days following the completion of plugging operations.
9. No program changes are made without prior Division approval.
10. **THIS DIVISION SHALL BE NOTIFIED TO:**
    a. Inspect the installed blowout prevention equipment prior to commencing **downhole** operations.
    b. Witness the clean-out depth at **944**' (estimated depth of the top of the "intermediate" plug).
    c. Witness the placing of the cement plug from **944**' to **surface**'.
    d. Witness the location and hardness of cement at surface, including all annular spaces.
    e. Inspect the restored well site.

(Continued on Page 2)

Steven Bohlen
State Oil and Gas Supervisor

Individual #10033566 Bond
cc:

Engineer Callie L. Cullum
Office (714) 816-6847

By _____
For Daniel J. Dudak, *District Deputy*

CC/cc

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

NOTE:

1. All depths are referenced to Kelly Bushing (KB) which is 11 feet above the ground.
2. The proposed surface plug shall not contain rock or gravel.
3. Zone isolation cement plugs shall use cement that has a minimum compressive strength of 1000 psi and a maximum liquid permeability of 0.1 millidarcy (md).
4. Upon completion of the proposed work, a Well Summary Report (form OG100), a History of Oil or Gas Well (form OG103), and copies of all logs, tests, and surveys shall be submitted to this office.
5. The Division recommends that not structure be placed in a manner that will impede future access to the well.
6. Report of Well Plugging and RE-Abandonment (form OG159) will not be released until all records and histories are on file with this Division.
7. This permit was held in abeyance pending receipt and review of additional documents that demonstrate the potential freshwater sands will be protected.

P#115-0517

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY			
	Forms		
Bond	OGD114	OGD121	
IB	11/7/15	11/2/15	TL

OG/EM

NOTICE OF INTENTION TO ABANDON / RE-ABANDON WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon ☐ / re-abandon ■ well Chevron USA, Inc. "Highland Corehole" 2 , API No. 037-20045 ,
(Check one)
Sec. 22 , T. 1-S , R. 14-W , SB B.&M., Salt Lake (640) Field, Los Angeles County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)

SEE ATTACHED CORE HOLE SCHEMATIC.

The total depth is: 6,000 MD feet. The effective depth is: 5,824 TVD feet.

Present completion zone(s): N/A; Stratigraphic Corehole (Name) . Present zone pressure: N/A psi.

Oil or gas shows: N/A (Name and depth) feet. Depth to base of fresh water: N/A feet.

Top of uppermost hydrocarbon zone (which may be behind unperforated casing): N/A (Depth of interval) feet.

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes■ No☐

The proposed work is as follows: (A complete program is preferred and may be attached.)

SEE ATTACHED CORE HOLE ABANDONMENT PROGRAM.

DOGGR
Received-
AUG -3 2015

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator			
3279 BERNARD L.P., a California limited partnership			
Address		City/State	Zip Code
2566 Overland Avenue, Suite 700		Los Angeles, CA	90064
Name of Person Filing Notice	Telephone Number:	Signature	Date
Robert Korda, Manager General Partner	(310) 842-4600		7/30/15
Individual to contact for technical questions:	Telephone Number:	E-Mail Address:	
Larry Barnes, Petroleum Operations Geologist	(949) 650-5824	envirogenesis@gmail.com	

This notice must be filed, and approval given, before plugging and abandonment operations begin. If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

CRITICAL WELL DEFINITION

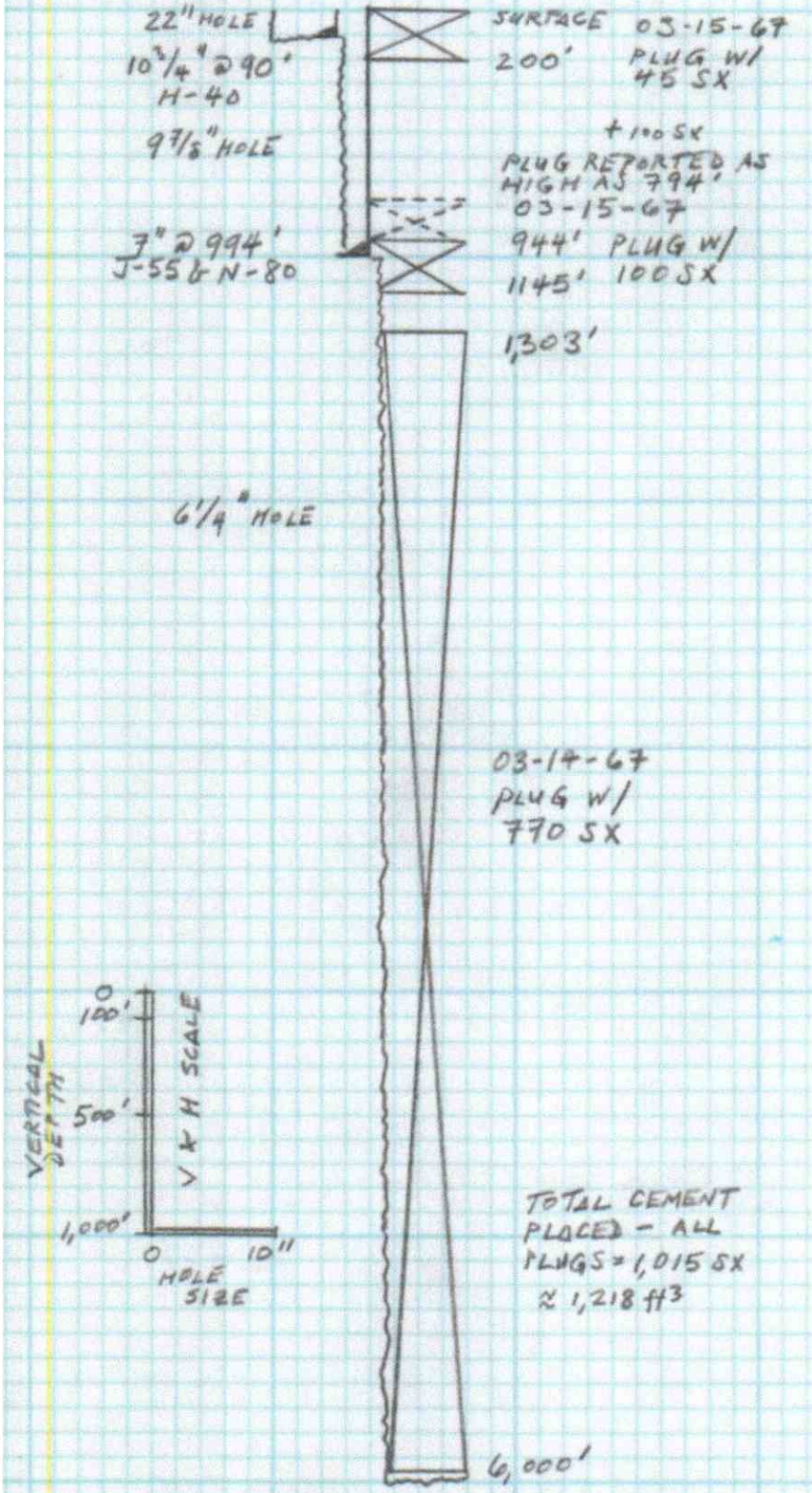
As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within:

(1) 300 feet of the following:
  (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  (B) Any airport runway.
(2) 100 feet of the following:
  (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
  (B) Any navigable body of water or watercourse perennially covered by water;
  (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
  (D) Any officially recognized wildlife preserve.

This form may be printed from the DOGGR website at www.conservation.ca.gov/dog/

DOGGR
Received–
AUG – 3 2015

CHEVRON USA, INC.
"HIGHLAND CORE HOLE" NO. 2
API No. 037-20045
STRATIGRAPHIC - GEOLOGIC
CORE HOLE; NO PERFS. &
NO O&G PRODUCTION



TOTAL CEMENT PLACED - ALL PLUGS = 1,015 SX ≈ 1,218 ft³

TOTAL DEPTH = 6,000' MD
5,824' TVD
@ 16° DECLINATION
SOUTH 801.03'
WEST 978.11'

DOGGR
Received-
AUG - 3 2015

Corehole Abandonment Program

Operator: Chevron USA, Inc.
Fee Name: "Highland Corehole"
Well #: 2
API No.: 037-20045
Location: From intersection of C/Ls of Wilshire Blvd and S Orange Dr go 22' E'ly & 116.5' S'ly at R/As
History: Drilled 02/15/67 and Abandoned 03/16/67
Field: Salt Lake (640)

1. Excavate 10' L x 10' W x 5.0' D pit at a minimum to expose piping from plugged and abandoned corehole. *Note:* 10¾" conductor casing set at 90' and run to surface and 7.0" casing set at 994' and run to surface.

2. Cut 2:1 slope on one side of corehole pit to allow safe access to a reasonably flat pit floor and to piping. *Note:* excavation work may be performed by General Contractor for developer or by others.

3. Notify DOGGR at (714) 816-6847 and at dogdist!@conservation.ca.gov as a courtesy 72 hours prior to corehole shortening so that an agency inspector may schedule to witness on-site operations.

4. AllenCo Well Service & Abandonment (AllenCo) may install 8.0' OD round steel collar ring or a 10' square steel shoring box to guarantee pit safety if warranted due to potential caving, unstable soil conditions or other site-specific conditions.

5. Petroleum engineer shall inspect soil comprising pit, physical character of piping and presence of any discoloration, odors and remnant corehole drilling or abandonment detritus.

6. Petroleum engineer shall conduct preliminary "sniff test" using hand-held instrumentation to record fugitive gas emissions that may be present in the pit.

7. If the "sniff test" is benign then AllenCo shall cut-off or "shorten" the piping to a point that is at least 5.0' below the final plan grade and not greater than 10' below the final plan grade. Tools employed shall be non-sparking for fire safety and explosivity considerations. *Note:* cut-off elevation must be determined from the working plans and specified by the site development team.

8. Petroleum engineer shall inspect the "shortened" piping and perform final "sniff test" to document the status of fugitive gas emissions.

9. Petroleum engineer shall measure the length of the removed piping segment.

10. AllenCo shall tack weld the corehole identification plate atop the piping. If the old ID plate is deficient in any way then a new ID plate shall be fabricated and tack welded onto the piping. The corehole was plugged by Standard Oil (Chevron) on 03/15/1967.

11. Registered Land Surveyor shall record coordinates of corehole as part of Final Capped Well Survey and said data shall be incorporated into the plans for the subject development.

12. AllenCo may be discharged if no additional abandonment actions are deemed necessary by DOGGR and by petroleum engineer.

13. Corehole pit may be backfilled and compacted.

Complications or deviations from the mini-spec due to site-specific conditions or special requests from oversight agencies may result in delays or change orders. Likewise, the subject mini-spec may be modified prior to the field events if DOGGR recommends additional procedures.

Prepared by Larry Barnes on behalf of Terra-Petra and 3279 Bernard L.P. on July 20, 2015.

DOGGR
Received-
AUG -3 2015

Moser, Ellen@DOC

From: Scott, Phyllis@DOC
Sent: Wednesday, October 21, 2015 8:28 AM
To: Moser, Ellen@DOC
Cc: Martinez, Valerie@DOC
Subject: FW: Bond Application for NOI Abandonment

Ellen,

Would you contact Mr. Corda regarding submission of NOI and appropriate bond amounts. Once the Bond application is complete then office support staff can process it.

Thanks,

Phyllis

From: Irick, Barry@DOC
Sent: Wednesday, October 21, 2015 6:18 AM
To: Scott, Phyllis@DOC <Phyllis.Scott@conservation.ca.gov>
Subject: RE: Bond Application for NOI Abandonment

This will actually be Ellen's well. I have not reviewed the NOI. I started it because we thought the wells were within the Salt Lake South Field. Turns out they were outside the field and fell under Ellen's jurisdiction. Since I was original contact, they kept calling me, so I was helping move transfer along. Aaron Korda's number is: 310-842-4607. There should have been contact info on well file I put on Val's desk.

From: Scott, Phyllis@DOC
Sent: Tuesday, October 20, 2015 11:15 AM
To: Irick, Barry@DOC <Barry.Irick@conservation.ca.gov>
Cc: Welty, Curtis@DOC <Curtis.Welty@conservation.ca.gov>; Dudak, Daniel@DOC <Daniel.Dudak@conservation.ca.gov>; Martinez, Valerie@DOC <Valerie.M.Martinez@conservation.ca.gov>
Subject: Bond Application for NOI Abandonment

Barry,

Mr. Aaron Corda contacted Valerie to inquire about the appropriate bond amount for a submission of NOI to abandon. Mr. Corda indicated he had spoken to you regarding the submission of the NOI.

Could you follow-up with Mr. Corda and assist him on the required bond amount necessary for the NOI.

Once bond amount and type is identified he can complete and submit the application to Valerie be processed and transferred to Sacramento.

I do not have the contact information for Mr. Corda. If you do not have his contact information you can check with Valerie to see if she collected the information when he contacted her.

Thank you,

Phyllis Scott
Administrative Office Services Manager
Department of Conservation
Division of Oil, Gas and Geothermal Resources - District 1
5816 Corporate Avenue, Suite 100
Cypress, CA 90630
714-816-6847 *office*
714-484-6211 *direct*
714-640-4929 *cellular*

Every Californian should conserve water. Find out how at:

Save Our Water

SaveOurWater.com · Drought.CA.gov

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY			
	Forms		
Bond	OGD114	OGD121	
1B	11/14/15	11/9/15	TW

Addendum

~~SUPPLEMENTARY NOTICE~~

Detailed instructions can be found at: www.conservation.ca.gov/dog/

A notice to the Division of Oil, Gas, and Geothermal Resources, dated November 5, 2015, stating the intention to

Re-Abandon (Drill, Rework, Abandon) well Chevron USA, Inc. "Highland Corehole" 2, API No. 037-20045,

Sec. 22, T. 1-S, R. 14-W, SB B.&M., **Salt Lake (640)** Field, **Los Angeles** County

should be amended because of changed conditions.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)
See attached Stratigraphic Core Hole schematic.

DOGGR Received – NOV – 6 2015 BT 11/09/15

The total depth is: 6,000 MD feet. The effective depth is: 5,824 TVD feet.

Present completion zone(s): N/A; Stratigraphic Corehole (Name). Anticipated completion zone(s): None (Name)

Present zone pressure: N/A psi. Anticipated/existing new zone pressure: N/A psi.

We now propose: (A complete program is preferred and may be attached.)
See attached Stratigraphic Core Hole Re-Abandonment plan that includes DOGGR requirement to drill out a surface plug from top of casing to 200' and to clean-out and/or drill-out 7.0" cased hole to a depth of approximately 944' (top of "intermediate" plug) in order to place new cement from 944' to surface and to include cementing across a base of fresh water zone estimated at 200' to 300' by DOGGR.

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: N/A feet N/A (Direction) and N/A feet N/A (Direction) Estimated true vertical depth: N/A

Will the Field and/or Area change? Yes☐ No☒ If yes, specify New Field: N/A New Area: N/A

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator 3279 BERNARD L.P., a California limited partnership			
Address 2566 Overland Avenue, Suite 700		City/State Los Angeles, CA	Zip Code 90064
Name of Person Filing Notice Robert Korda, General Partner	Telephone Number: (310) 842-4600	Signature	Date 11/05/2015
Individual to contact for technical questions: Larry Barnes, Petroleum Geologist	Telephone Number: (949) 650-5824	E-Mail Address: envirogenesis@gmail.com	

This notice must be filed, and approval given, before the operations begin. If operations have not commenced within one year of the Division's receipt of this supplementary notice, this notice will be considered cancelled.

CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within:

(1) 300 feet of the following:
  (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  (B) Any airport runway.
(2) 100 feet of the following:
  (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
  (B) Any navigable body of water or watercourse perennially covered by water;
  (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
  (D) Any officially recognized wildlife preserve.

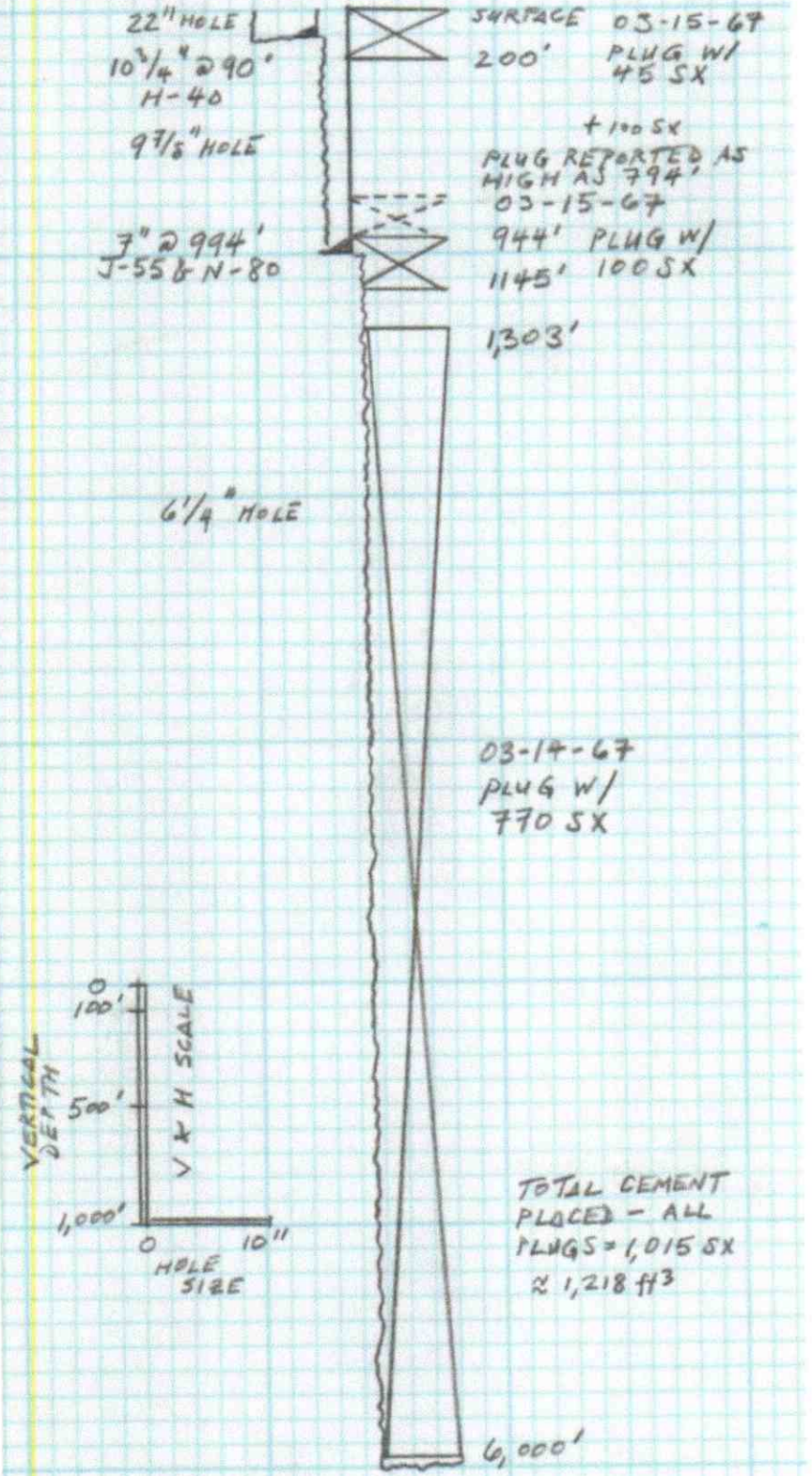
WELL OPERATIONS REQUIRING BONDING

1. Drilling, redrilling, or deepening any well.
2. Milling out or removing a casing or liner.
3. Running and cementing casing or tubing.
4. Running and cementing liners and inner liners.
5. Perforating casing in a previously unperforated interval for production, injection, testing, observation, or cementing purposes.
6. Drilling out any type of permanent plug.
7. Reentering an abandoned well having no bond.

This form may be printed from the DOGGR website at www.conservation.ca.gov/dog/

DOGGR
Received
NOV - 6 2015

CHEVRON USA, INC.
"HIGHLAND CORE HOLE" N=2
API N= 037-20045
STRATIGRAPHIC - GEOLOGIC
CORE HOLE : NO PERFS. &
NO O&G PRODUCTION



TOTAL CEMENT PLACED - ALL PLUGS = 1,015 SX
≈ 1,218 ft³

TOTAL DEPTH = 6,000' MD
5,824' TVD
@ 16° DECLINATION
SOUTH 801.03'
WEST 978.11'

Corehole Abandonment Program

Operator: Chevron USA, Inc.
Fee Name: "Highland Corehole"
Well #: 2
API No.: 037-20045
Location: From intersection of C/Ls of Wilshire Blvd and S Orange Dr go 22' E'ly & 116.5' S'ly at R/As
History: Drilled 02/15/67 and Abandoned 03/16/67
Field: Salt Lake (640)

1. Excavate 10' L x 10' W x 5.0' D pit at a minimum to expose piping from plugged and abandoned corehole. *Note:* 10¾" conductor casing set at 90' and run to surface and 7.0" casing set at 994' and run to surface.

2. Notify DOGGR at (714) 816-6847 and at dogdist!@conservation.ca.gov as a courtesy 72 hours prior to initiating well operations.

3. Move-in and rig-up (MIRU) AllenCo Well Service & Abandonment (AllenCo) rig and equipment. AllenCo may install 8.0' OD round steel collar ring or a 10' square steel shoring box to guarantee pit safety if warranted due to potential caving, unstable soil conditions or other site-specific conditions.

4. Install Class II 2M blow-out prevention equipment (BOPE).

5. Go in hole (GIH) with 6.0" OD drill bit and drill-out surface cement plug inside 7.0" casing from surface to a bottom depth of approximately 200'.

6. Continue to clean-out hole until tagging an "intermediate" plug placed from a bottom depth of 1,145' to a top depth of 944' to as high as 794' (core hole records may be inaccurate).

7. Drill-out and clean-out inside of 7.0" casing to a depth of 944' or thereabouts.

8. Place cement from a depth of approximately 944' to 5'.

9. Rig-down and move-off (RDMO).

10. Cut 2:1 slope on one side of corehole pit to allow safe access to a reasonably flat pit floor and to piping. *Note:* excavation work may be performed by General Contractor for developer or by others.

11. Notify DOGGR at (714) 816-6847 and at dogdist!@conservation.ca.gov as a courtesy 72 hours prior to final corehole shortening so that an agency inspector may schedule to witness on-site operations.

12. Petroleum engineer shall conduct preliminary "sniff test" using hand-held instrumentation to record fugitive gas emissions that may be present in the pit.

13. If the "sniff test" is benign then AllenCo shall cut-off or "shorten" the piping to a point that is at least 5.0' below the final plan grade and not greater than 10' below the final plan grade. Tools employed shall be non-sparking for fire safety and explosivity considerations. *Note:* cut-off elevation must be determined from the working plans and specified by the site development team.

14. Petroleum engineer shall inspect the "shortened" piping and perform final "sniff test" to document the status of fugitive gas emissions.

15. Petroleum engineer shall measure the length of the removed piping segment(s).

16. AllenCo shall tack weld the corehole identification plate atop the piping. If the old ID plate is deficient in any way then a new ID plate shall be fabricated and tack welded onto the piping. The corehole was plugged by Standard Oil (Chevron) on 03/15/1967.

17. Registered Land Surveyor shall record coordinates of corehole as part of Final Capped Well Survey and said data shall be incorporated into the plans for the subject development.

18. AllenCo may be discharged if no additional abandonment actions are deemed necessary by DOGGR and by petroleum engineer.

19. Corehole pit may be backfilled and compacted.

Complications or deviations from the mini-spec due to site-specific conditions or special requests from oversight agencies may result in delays or change orders. Likewise, the subject mini-spec may be modified prior to the field events if DOGGR recommends additional procedures.

Prepared by Larry Barnes on behalf of Terra-Petra and 3279 Bernard L.P. on November 5, 2015.

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 100 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

Cypress, California
November 03, 2015

Mr. Robert Rosenblum
3279 Bernard L.P., A California Limited Partnership (A0010)
1875 Century Park East, Suite 2000
Los Angeles, CA 90067

This Division has received your Notice of Intention to **Re-Abandon** dated **7/30/2015,** for **"Highland Corehole" 2**, API. **037-20045**, **--** field, Sec. **22**, T. **01S**, R. **14W**, **SB** B&M, **Los Angeles** County.

THIS NOTICE IS BEING HELD IN ABEYANCE PENDING RECEIPT AND REVIEW OF ADDITIONAL DOCUMENTS THAT DEMONSTRATE THE POTENTIAL FRESHWATER SANDS WILL BE PROTECTED.

If you have any questions, please call Randall Morlan at (714) 816 - 6805.

EXPIRED _____
CANCELLED _____
MAILED 11.4.15 TL
EMAILED 11.4.15 TL

Steven Bohlen
State Oil and Gas Supervisor

By _____
For Daniel J. Dudak, *District Deputy*

RM:rm

cc: EDP

OG113

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

REPORT OF PROPERTY AND WELL TRANSFER

Field or county Los Angeles County		District 1 (Cypress, California)
Former owner Chevron U.S.A. Inc.	Opcode: C5640	Date: 9/17/2015

Name and location of well(s)

"Highland Corehole" 1 037-01151 Sec. 22-1S-14W
"Highland Corehole" 2 037-20045 Sec. 22-1S-14W

Description of the land upon which the well(s) is (are) located Parcel 1 lots 101 and 102 of tract no 5690 in the city and county of LA as per map recorded book 60. Page 76 of maps; parcel 2; lot 226, 227 and 228 of tract no 4642 in the City and County of LA, as per map recorded in book 50. Pages 42 & 43 of maps.

Date of transfer, sale, assignment, conveyance, or exchange	New Owner	Operator code	Type of Organization
8/18/2015	3279 BERNARD L.P., a California Limited Partnership	A0010	LP
	Address: 2566 Overland Avenue, Suite 700, Los Angeles, CA 90064		Telephone No.: (310) 842-4600

Reported by
OG30A signed by both operators.

Confirmed by
OG30A signed by both operators.

New operator new status (status abbreviation)	Request Designation of Agent
NPI	Robert Rosenblum
Old operator new status (status abbreviation)	Remarks
PA	See Operator File

Deputy Supervisor	Signature
Daniel J. Dudak	

OPERATOR STATUS ABBREVIATIONS

PA - Producing Active
NPA - No Potential Active
PI - Potential Inactive
NPI - No Potential Inactive
Ab - Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Operator File	VM	10-20-15	Transfer List	VM	10-20-15
Well records	VM	10-20-15	Lease Files	VM	10-20-15
Calwims	VM	10-20-15	Well Stat N/A	VM	10-20-15

OGD156 (Modified 1/00)

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 100 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

Cypress, California
August 04, 2015

Mr. David Lopez
Chevron U.S.A. Inc. (C5640)
P.O. Box 1392
Bakersfield, CA 93302

This Division has received your Notice of Intention to **Re-abandon** dated **7/30/2015,** for **"Highland Corehole" 2**, API. **037-20045**, **Los Angeles County** field, Sec. **22**, T. **01S**, R. **14W**, **SB** B&M, **Los Angeles** County.

THIS NOTICE IS BEING HELD IN ABEYANCE PENDING RECEIPT OF AND/OR APPROVAL OF TRANSFER.

If you have any questions, please call Barry Irick at (714) 816 - 6804.

EXPIRED _____
CANCELLED _____
MAILED _____
EMAILED 8/4/15

Steven Bohlen
State Oil and Gas Supervisor

By _____
Daniel J. Dudak, *District Deputy*

BI:tl

cc: EDP
Robert Korda
Larry Barnes

OG113

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 100 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

Cypress, California
July 24, 2015

Mr. Robert Korda
32979 Bernard LP
2566 Overland Ave. Ste. 700
Los Angeles, CA 90064

This Division has received your Notice of Intention to **Abandon** dated **7/23/2015,** for **"Highland Corehole" 2**, API. **037-20045**, -- field, Sec. **22**, T. **01S**, R. **14W**, **SB** B&M, **Los Angeles** County.

THIS NOTICE IS BEING HELD IN ABEYANCE PENDING RECEIPT OF AND/OR APPROVAL OF TRANSFER.

If you have any questions, please call Barry Irick at (714) 816 - 6804.

EXPIRED _____
CANCELLED _____
MAILED _____
EMAILED 7.28.15 gh

Steven Bohlen
State Oil and Gas Supervisor

By _____
For: Daniel J. Dudak, *District Deputy*

BI:tw2

cc: EDP
David Lopez
Chevron USA Inc.
P.O. Box 1392
Bakersfield, CA 93302

OG113

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY			
	Forms		
Bond	OGD114	OGD121	

NOTICE OF INTENTION TO ABANDON / RE-ABANDON WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon ☐ / re-abandon ■ well Chevron USA, Inc. "Highland Corehole" 2 , API No. 037-20045 ,
(Check one)
Sec. 22 , T. 1-S , R. 14-W , SB B.&M., Salt Lake (640) Field, Los Angeles County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)

SEE ATTACHED CORE HOLE SCHEMATIC.

The total depth is: 6,000 MD feet. The effective depth is: 5,824 TVD feet.

Present completion zone(s): N/A; Stratigraphic Corehole (Name) . Present zone pressure: N/A psi.

Oil or gas shows: N/A (Name and depth) feet. Depth to base of fresh water: N/A feet.

Top of uppermost hydrocarbon zone (which may be behind unperforated casing): N/A (Depth of interval) feet.

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes■ No☐

The proposed work is as follows: (A complete program is preferred and may be attached.)

SEE ATTACHED CORE HOLE ABANDONMENT PROGRAM.

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator			
3279 Bernard L.P., a California Limited Partnership			
Address		City/State	Zip Code
2566 Overland Avenue, Suite 700		Los Angeles, CA	90064
Name of Person Filing Notice	Telephone Number:	Signature	Date
Robert Korda, Manager	(310) 842-4600		July 22, 2015
Individual to contact for technical questions:	Telephone Number:	E-Mail Address:	
Larry Barnes, Petroleum Operations Geologist	(949) 650-5824	envirogenesis@gmail.com	

This notice must be filed, and approval given, before plugging and abandonment operations begin. If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

DOGGR
JUL 23 2015

OG108 (1/09)

CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within:

(1) 300 feet of the following:
  (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  (B) Any airport runway.
(2) 100 feet of the following:
  (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
  (B) Any navigable body of water or watercourse perennially covered by water;
  (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
  (D) Any officially recognized wildlife preserve.

This form may be printed from the DOGGR website at www.conservation.ca.gov/dog/

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REPORT OF PROPERTY AND WELL TRANSFER

Field or County	District
Imperial Co., Wilmington, L.A. Co., W. Coyote, Montebello, Beverly Hills, Seal Beach, El Segundo, Inglewood, Rosecrans, Venice Beach, Las Cienegas, S. Salt Lake, Dominguez, Hyperion, Lawndale, Leffingwell, Long Beach, Los Angeles Downtown, Potrero, Salt Lake, Santa Fe Springs, Cheviot Hills, Sherman, Torrance, Whittier, Howard Townsite, Huntington Beach, Yorba Linda, Orange Co., Richfield, Kraemer, W. Newport, Sunset Beach, Belmont Offshore	District 1 (Cypress, California)
Former owner: ChevronTexaco Exploration & Production Co. — C5680	Date: 9/23/2005

Well Name	API Number	Section Township Range
See Attached List For Complete List of Wells See Operator Folder (C5640) Chevron U.S.A. Inc. Dist. 1, Cypress, CA	See Attached List For Complete List of Wells See Operator Folder (C5640) Chevron U.S.A. Inc. Dist. 1, Cypress, CA	See Attached List For Complete List of Wells See Operator Folder (C5640) Chevron U.S.A. Inc. Dist. 1, Cypress, CA

Description of the land upon which the well (s) is (are) located.: Various

Date of transfer	New owner		Type of organization
7/11/2005		Chevron U.S.A. Inc. **C5640**	Corp.
	Address:	9525 Camino Media Bakersfield, CA 93311	Telephone: 661/654-7065

Reported by	OG30A received in Sacramento 9/2005
Confirmed by	Same as above
New operator new status: **PA**	Designation of Agent: Greg Leyendecker, Agent
Old operator new status: **AB**	Remarks: For further information see Operator file (C5640) Chevron U.S.A. Inc.

Deputy Supervisor	Signature
R. K. Baker	Richard K. Baker, District Deputy

OPERATOR STATUS ABBREVIATIONS

PA – Producing Active
NPA- No potential, Active
PI- Potential Inactive
NPI-No potential, Inactive
AB-Abandoned or No More Wells

cc: Update; Envir Desk (2); File
Conservation Committee
Harold W. Bertholf, Inc.
L.A. & Orange County Assessors
WellStats – Cypress Dist. 1
WellStats – Sacrament HQS

FORM AND RECORD CHECK LIST

Form or Record	Initials	Date	Form or Record	Initials	Date
Form OGD121	—	—	Map and Book		
Operator Card	CC	9-23-05	Notice cancellations	—	—
Well Records	CB	9/26/05 —	Bond Status BB	CC	9-23-05
Log Records	CB	9/26/05 —	EDP HQS	J.C	7-11-05
Production Reports	—	—	Data Base Pdoy D1	GM	9-26-05

WELL TRANSFER NOTICE

Effective August 22, 2002

Chevron USA Inc.
Texaco California Inc.
And
Texaco Exploration and Production, Inc.

Transferred ALL THEIR WELLS
To

ChevronTexaco Exploration & Production Company

See OGD156 dated October 18, 2002 in Operator File for ChevronTexaco Exploration & Production Company (C5680) for details

See Ownership file, CHEVRON U.S.A. INC., for Form 156 dated 1-12-77 listing all wells (Imperial, Los Angeles, and Orange Counties) transferred effective 1-1-77 from Standard Oil Co. of Calif. (change of operating name).

FORM 159

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL ABANDONMENT

Inglewood, California

April 14, 1967

Mr. L. W. Derry
P. O. Box 606
La Habra, California
~~Agent~~ for STANDARD OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your report of abandonment of Well No. (037-20045) "Highland Corehole" 2, Sec. 22, T. 1 S., R. 14 W., S. B. B. & M., - - - field, Los Angeles County, dated March 15, 1967, received April 13, 1967, has been examined in conjunction with records filed in this office.

A review of the reports and records shows that the requirements of this Division, which are based on all information filed with it, have been fulfilled.

RC:es

cc - Mr. E. R. Murray-Aaron
Mr. L. W. Derry

BLANKET BOND.

E. R. MURRAY-AARON
State Oil and Gas Supervisor

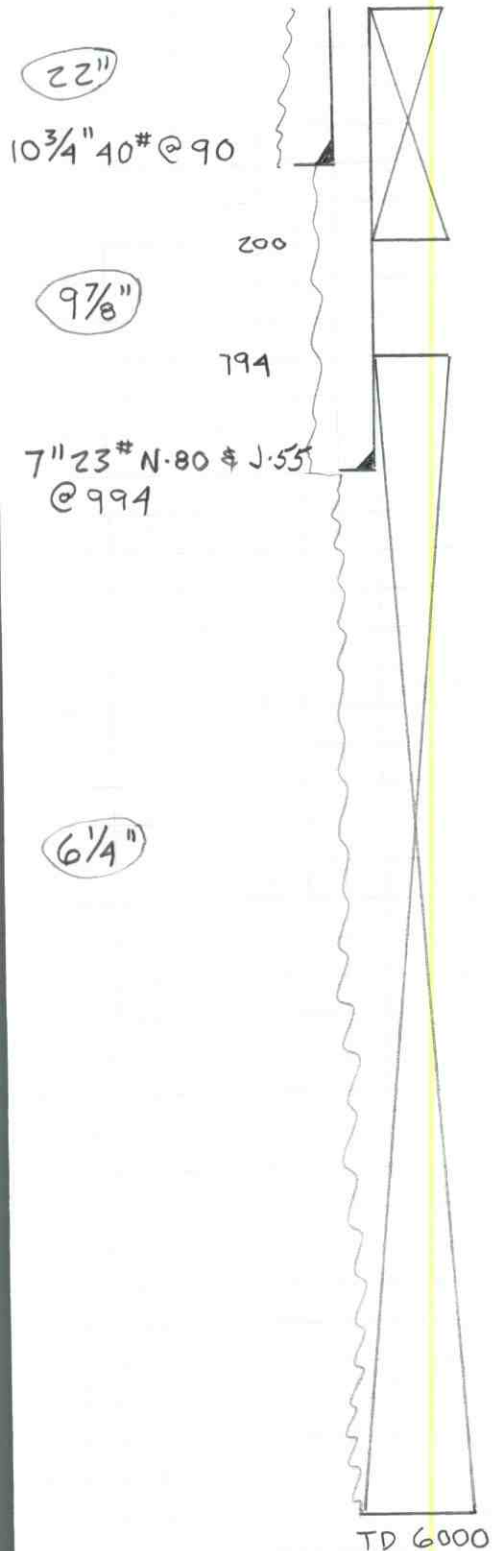
By _____
Deputy Supervisor

27538-705 7-64 10M OSP

HIGHLAND COREHOLE 2
03720045
CHEVRON

ELEV 195
ALL MEA KB
11 ↑ GR

SPUD 2-15-67
ABD 3-16-67



PLUG 200 - SURFACE 45 SX 3-15-67

PLUG 6000 - 794 970 SX 3-14-67

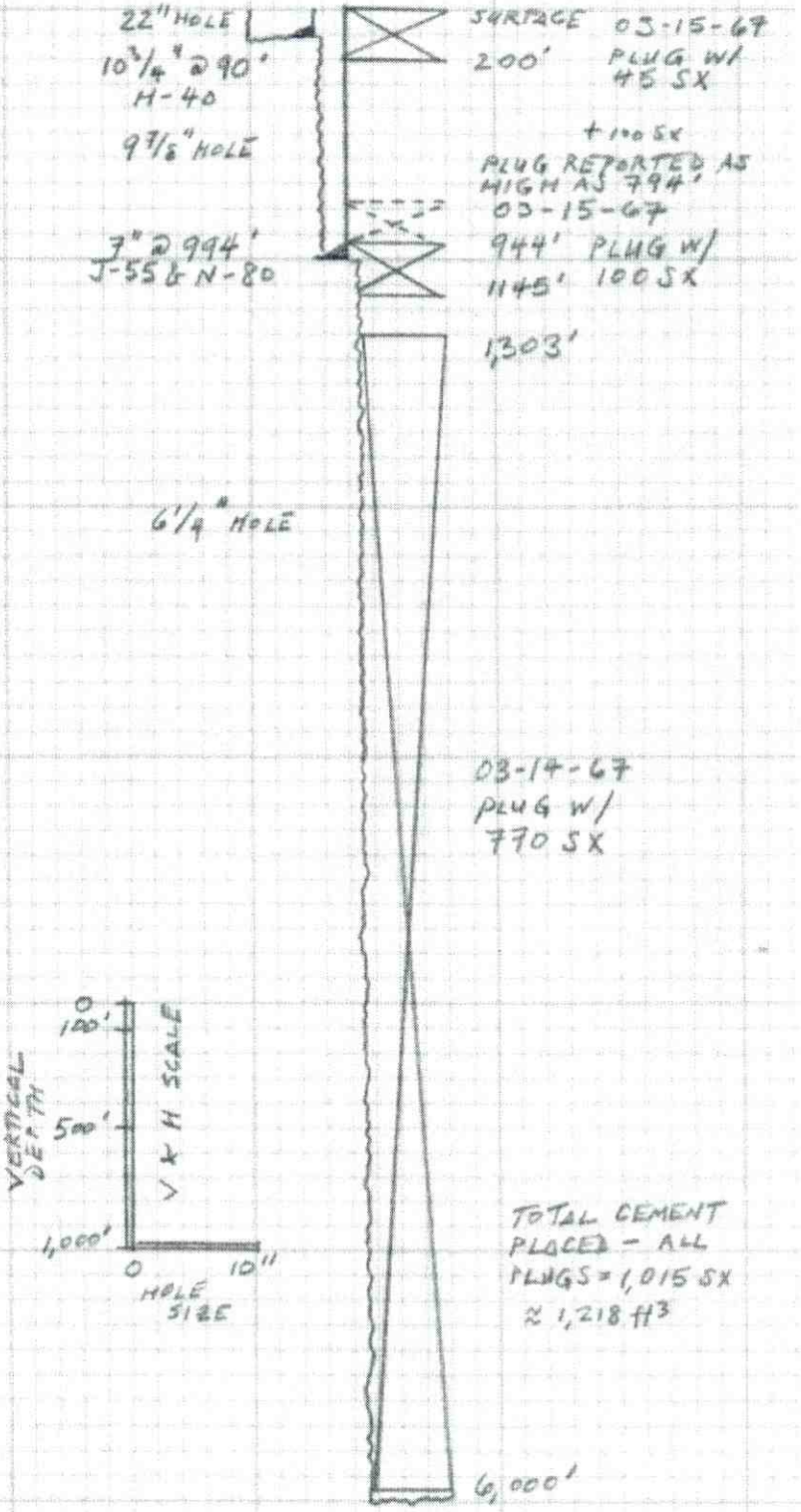
320 SX RTS 2-16-67

3-13-67

DIRECTIONALLY DRILLED

RRC
10-13-98

CHEVRON USA, INC.
"HIGHLAND CORE HOLE" No 2
API No 037-20045
STRATIGRAPHIC - GEOLOGIC
CORE HOLE; NO PERFS. &
NO O&G PRODUCTION



TOTAL CEMENT PLACED - ALL PLUGS = 1,015 SX ≈ 1,218 ft³

TOTAL DEPTH = 6,000' MD
5,824' TVD
@ 16° DECLINATION
SOUTH 801.03'
WEST 978.11'

Corehole Abandonment Program

Operator:	Chevron USA, Inc.
Fee Name:	"Highland Corehole"
Well #:	2
API No.:	037-20045
Location:	From intersection of C/Ls of Wilshire Blvd and S Orange Dr go 22' E'ly & 116.5' S'ly at R/As
History:	Drilled 02/15/67 and Abandoned 03/16/67
Field:	Salt Lake (640)

1. Excavate 10' L x 10' W x 5.0' D pit at a minimum to expose piping from plugged and abandoned corehole. *Note:* 10¾" conductor casing set at 90' and run to surface and 7.0" casing set at 994' and run to surface.

2. Cut 2:1 slope on one side of corehole pit to allow safe access to a reasonably flat pit floor and to piping. *Note:* excavation work may be performed by General Contractor for developer or by others.

3. Notify DOGGR at (714) 816-6847 and at dogdist!@conservation.ca.gov as a courtesy 72 hours prior to corehole shortening so that an agency inspector may schedule to witness on-site operations.

4. AllenCo Well Service & Abandonment (AllenCo) may install 8.0' OD round steel collar ring or a 10' square steel shoring box to guarantee pit safety if warranted due to potential caving, unstable soil conditions or other site-specific conditions.

5. Petroleum engineer shall inspect soil comprising pit, physical character of piping and presence of any discoloration, odors and remnant corehole drilling or abandonment detritus.

6. Petroleum engineer shall conduct preliminary "sniff test" using hand-held instrumentation to record fugitive gas emissions that may be present in the pit.

7. If the "sniff test" is benign then AllenCo shall cut-off or "shorten" the piping to a point that is at least 5.0' below the final plan grade and not greater than 10' below the final plan grade. Tools employed shall be non-sparking for fire safety and explosivity considerations. *Note:* cut-off elevation must be determined from the working plans and specified by the site development team.

8. Petroleum engineer shall inspect the "shortened" piping and perform final "sniff test" to document the status of fugitive gas emissions.

9. Petroleum engineer shall measure the length of the removed piping segment.

10. AllenCo shall tack weld the corehole identification plate atop the piping. If the old ID plate is deficient in any way then a new ID plate shall be fabricated and tack welded onto the piping. The corehole was plugged by Standard Oil (Chevron) on 03/15/1967.

11. Registered Land Surveyor shall record coordinates of corehole as part of Final Capped Well Survey and said data shall be incorporated into the plans for the subject development.

12. AllenCo may be discharged if no additional abandonment actions are deemed necessary by DOGGR and by petroleum engineer.

13. Corehole pit may be backfilled and compacted.

Complications or deviations from the mini-spec due to site-specific conditions or special requests from oversight agencies may result in delays or change orders. Likewise, the subject mini-spec may be modified prior to the field events if DOGGR recommends additional procedures.

Prepared by Larry Barnes on behalf of Terra-Petra and 3279 Bernard L.P. on July 20, 2015.

WORK PERFORMED:

Drill ✓ Redrill ____ Deepen ____

Plug ____ Alter casing ____

Water flood ____ Water disposal ____

Abandon ✓

Other ____

STATUS: (Date)

Producing ____

Recomp. prod. ____

Water flood ____

Water disposal ____

Abandoned ✓

Other ____

MAP AND BOOK ~~4~~ W1-3 4-14-67 YMM
67-6000

RECORDS FILED & DATE: Clerk Scott

✓ Summary (dup.) 4/13/67

✓ Log & Core (dup.) 4/13/67

✓ History (dup.) 4/13/67

Induction E-log 994-5998 (2) 4/13/67

Radio log 1 reg, 1 small

✓ D. Survey 1000-6000 4/13/67

Other ____

(Check records for signature and correct name of operator or well, S.T.R. and field.)

Location ____ Notice states ✓

Agrees with location shown under "Legal description of mineral-right lease"

Elevation OK Notice states ____

Production Reports ____

(If production reports not received, make notation and inform Sr. Steno. when rec'd.)

If stimulation or disposal well:
Form 121 ____ Folder ____

RECORDS & REQUIREMENTS CHECKED: Eng. RC

✓

✓

✓

✓

✓

✓

Surface inspection ____

Data needed None

Request records ____

Correct records ____ (Specify)

CARDS ____

BOND: Blanket

Hold ____ Reason ____

Release ____ Date elig. ____

End premium year ____
Release requested ____ (Check one)
Bond superseded ____
Well abandoned ____

FINAL LETTER Yes
and
FILE CLEARED Yes

Clerk:

F 170 ____

F 165 ____
165A ____

F 150b

F 159 Scott

F 121 M.J.

Form 19-A

FORM 100

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

SUBMIT IN DUPLICATE

DIVISION OF OIL AND GAS
RECEIVED
APR 13 1967
INGLEWOOD, CALIFORNIA

Chevron

Operator Standard Oil Company of California, WOI Well No. "Highland (C.H.) #2 Corehole"

Sec. (27) 22, T. 1S, R. 14W, S.B. B. & M. (Salt Lake Field) Los Angeles County.

Location From the intersecting centerlines of Orange Dr. and Wilshire Blvd., 22' East along the centerline of Wilshire, thence 116.5' South at right angles. (Give location from property or section corner, or street center lines) Elevation of ground above sea level 195 feet.

All depth measurements taken from top of Kelly Bushing (Derrick Floor, Rotary Table or Kelly Bushing) which is 11 feet above ground.

In compliance with Sec. 3215, of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date March 15, 1967

Signed R R Knapp
R. R. Knapp

L. A. Headlee (Engineer or Geologist) M. W. Wolf (Superintendent) Title Division Development Geologist (President, Secretary or Agent)

Commenced drilling

Completed drilling March 15, 1967

Total depth 6000' Plugged depth Plugged solid

Junk None

GEOLOGICAL MARKERS	DEPTH
None	

Geologic age at total depth: Miocene

Commenced producing -- (Date) Flowing/gas lift/pumping (Cross out unnecessary words) Name of producing zone None

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production						
Production after 30 days						

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforations
10-3/4"	90 KB	0	40#	New	Seamless	N.A.	22"	220	--
7"	994 KB	0	23#	S.H.	Seamless	J-55 & N-80	9-7/8"	320	--

PERFORATED CASING
(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

None

Was the well directionally drilled? Yes Electrical Log Depths 994'-6000' (Attach Copy of Log)

△ OSP

FORM 103

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Standard Oil Company of Calif., WOI FIELD Salt Lake (Los Angeles County)

Well No. Highland C.H. #2, Sec. 27, T. 1S, R. 14W, S.B. B. & M.

Date March 15, 1967 Signed R. R. Knapp

R. R. Knapp

P. O. Box 606, La Habra, Calif. (Address) 691-2251 (Telephone Number) Title Division Development Geologist (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
2-15-67	Drilled 95'-726' with 9-7/8" bit.
2-16-67	Drilled 726'-994' with 9-7/8" bit. Ran 997' of 7", 23#, J-55 and N-80 secondhand surface casing. Casing shoe landed at 994'. Cemented casing with 320 sacks Riverside Class "G". Last 150 sacks treated with 2% $CaCl_2$. Good circulation and cement returns.
2-17-67	Installed Class III BOPE on 7" surface casing. Drilled 994'-1100' with $6\frac{1}{4}$" bit.
2-18-67	Drilled 1100'-1459' with $6\frac{1}{4}$" bit. Directed.
2-19-67	Sunday - no drilling.
2-20-67	Drilled 1459'-1963' with $6\frac{1}{4}$" bit. Directed.
2-21-67	Drilled 1963'-2474' with $6\frac{1}{4}$" bit. Directed.
2-22-67	Holiday - no drilling.
2-23-67	Drilled 2474'-2921' with $6\frac{1}{4}$" bit. Directed.
2-24-67	Ran Johnston tight hole subtest on interval 2901'-2921'. Drilled 2921'-3120' with $6\frac{1}{4}$" bit. Directed.
2-25-67	Drilled 3120'-3525' with $6\frac{1}{4}$" bit. Directed.
2-26-67	Sunday - no drilling.
2-27-67	Drilled 3525'-3937' with $6\frac{1}{4}$" bit. Directed.
2-28-67	Drilled 3937'-4200' with $6\frac{1}{4}$" bit. Directed.
3- 1-67	Drilled 4200'-4454' with $6\frac{1}{4}$" bit. Directed.

Standard Oil Company of California
Highland C.H. #2
Section 27, T1S, R14W

3- 2-67 Drilled 4454'-4707' with 6¼" bit. Directed.

3- 3-67 Ran Schlumberger IES and CDM from 994'-4707'.

3- 4-67 Drilled 4707'-4823' with 6¼" bit. Directed.

3- 5-67 Sunday - no drilling.

3- 6-67 Drilled 4823'-5000' with 6¼" bit. Directed.

3- 7-67 Drilled 5000'-5290' with 6¼" bit. Directed.

3- 8-67 Cored 5290'-5308' with 6¼" bit, recovered 18'.

3- 9-67 Drilled 5308'-5496' with 6¼" bit. Directed.

3-10-67 Drilled 5496'-5800' with 6¼" bit. Directed.

3-11-67 Cored 5800'-5818' with 6¼" bit, recovered 18'.

3-12-67 Sunday - no drilling.

3-13-67 Drilled 5818'-6000' with 6¼" bit. Directed.

3-14-67 Ran Schlumberger IES and CDM from 4707'-6000'. Began cementing hole from T.D. 6000' to 794' in 400' stages with Class "G" cement.

3-15-67 Completed cementing from 6000'-794', with total 970 sacks, witnessed and approved by D.O.G., surface plug inside 7" casing from 200' to surface took 45 sacks Class "G". Total cement 1015 sacks.

3-16-67 Cut off 7" surface casing and 10-3/4" conductor flush with cellar floor and welded ½" steel plates inside each. Surface plug and steel plates witnessed and approved by Los Angeles Fire Department. Rig released 11:00 a.m. 3-16-67.

March 17, 1967
La Habra, California

FORM 101
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Standard Oil Company of California, WOI Field Salt Lake) Los Angeles County

Well No. Highland C.H. #2 Sec. 27, T. 1S, R. 14W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
95'	5290'	5195'	Drilled	--	--
5290'	5308'	18'	Cored	18'	Sand and sandstone with minor amount laminated siltstone.
5308'	5800'	492'	Drilled	--	--
5800'	5818'	18'	Cored	18'	Sandstone with minor amount laminated siltstone and shale.

FORM 109-D

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 167-311

Mr. L. W. Derry
P. O. Box 606
La Habra, California

Inglewood, Calif.
April 6, 1967

~~Agent~~ for STANDARD OIL COMPANY OF CALIFORNIA

DEAR SIR:

(037-20045)

Operations at well No. "Highland Corehole" 2, Sec. 22, T. 1 S, R. 14 W, S.B.B & M. ~~----------~~ Field, in Los Angeles County, were witnessed on March 15, 1967. Mr. R. Rothermel, Engineer, representative of the supervisor was present from 4:30 p.m. to 5:00 p.m. There were also present K. Brunot & E. Cothran, Drilling Foremen

Present condition of well: 10-3/4" cem. 90'; 7" cem. 994'. TD 6000', plugged w/cem. 5990'-1303', 1145'-944'.

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 1145' to 944' in the process of abandonment.

Mr. Cothran reported:

1. A 6-1/4" hole was drilled from 994' to 6000'.
2. On March 14, 1967, 770 sacks of cement was pumped into the hole in stages through 3-1/2" drill pipe hanging initially at 5990', filling to 1303'.
3. On March 15, 1967, 100 sacks of cement was pumped into the hole through 3-1/2" drill pipe hanging at 1145'.

THE ENGINEER NOTED THAT the cement plug at the reported depth of 944' supported all of the weight of the drill pipe.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 944' ARE APPROVED.

RR:nw

cc Division Engineer
Prod. Dept.

E. R. MURRAY-AARON
State Oil and Gas Supervisor

By _____ Deputy

57152-705 10-65 15M ② OSP

FORM 111

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 167-315

Mr. L. W. Derry
P. O. Box 606
La Habra, California

Inglewood, Calif.
March 17, 1967

~~Agent~~ for STANDARD OIL COMPANY OF CALIFORNIA

(037-20045)

DEAR SIR:

Your proposal to abandon Well No. "Highland Corehole" 2
Section 22, T. 1 S, R. 14 W, S.B.B. & M., Salt Lake Field, Los Angeles County,
dated Mar. 15, 1967, received Mar. 16, 1967, has been examined in conjunction with records filed in this office.
Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE.
10-3/4" cem. 90'; 7" cem. 994'.

THE NOTICE STATES
"THE PRESENT CONDITION OF THE WELL IS:
1. Total Depth: 6000'
2. Complete casing record, including plugs:
   10-3/4" at 100'±
   7" at 1000'±
3. East Produced Stratigraphic Corehole

ADDITIONAL DATA FOR DRY HOLE
4. Oil or Gas showings and results of tests: -
5. Stratigraphic markers and depths: -
6. Formation at bottom: Miocene
7. Base of fresh water sands: 2200'±"

PROPOSAL
"THE PROPOSED WORK IS
1. Plug from T.D. to 794', which is 200' inside casing shoe.
   To be witnessed by D.O.G.
2. Plug from 200' to surface. To be witnessed by Los Angeles City Fire Department.
3. Weld ½" steel plates inside 7" surface casing and 10-3/4" conductor pipe."

DECISION
THE PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED:
1. To witness the location and hardness of the cement plug at 794'±.
2. To inspect the completed surface plug.

RC:nw

cc L. W. Derry

Blanket Bond

Surf Insp - R. Rothermel 3/21/67
Surf graded over, no evidence, oil, gas or water seepage.

E. R. MURRAY-AARON, State Oil and Gas Supervisor

By _____ Deputy

1T OSP

FORM 108. 64284-705 2-66 10M ⓢ OSP

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
MAR 16 1967
INGLEWOOD, CALIFORNIA

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin; one copy only.

La Habra Calif. March 15 19 67

DIVISION OF OIL AND GAS

In compliance with Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon

Well No. "Highland Corehole" #2 (037-20045), Sec. 22, T. 1S,

R. 14W, S.B. B. & M., Salt Lake Field, Los Angeles County,

commencing work on March 14 19 67.

THE PRESENT CONDITION OF THE WELL IS:

1. Total Depth: 6000'

2. Complete casing record, including plugs:

10-3/4" at 100'±
7" at 1000'±

3. Last Produced Stratigraphic Corehole
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)

ADDITIONAL DATA FOR DRY HOLE

4. Oil or Gas showings and results of tests:

-

5. Stratigraphic markers and depths:

-

6. Formation at bottom: Miocene
7. Base of fresh water sands: 2200'±

THE PROPOSED WORK IS

1. Plug from T.D. to 794', which is 200' inside casing shoe. To be witnessed by D.O.G.
2. Plug from 200' to surface. To be witnessed by Los Angeles City Fire Department.
3. Weld ½" steel plates inside 7" surface casing and 10-3/4" conductor pipe.

abandon

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
		m	Blanket	m	m

P.O. Box 606, La Habra, California
(Address)

691-2251
(Telephone No.)

Standard Oil Company of California, WOI
(Name of Operator)

By L. W. Derry

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

FORM 109-D

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 167-191

Mr. L. W. Derry
P. O. Box 606
La Habra, California

Inglewood, Calif.
March 2, 1967

~~Agent~~ for STANDARD OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at well No. (037-20045) "Highland Corehole" 2, Sec. 22, T. 1 S, R. 14 W, S.B. B & M. Salt Lake Field, in Los Angeles County, were witnessed on February 24, 1967. Mr. R. Rothermel, Engineer, representative of the supervisor was present from 1:30 p.m. to 2:30 p.m. There were also present K. Price, Drilling Foreman

Present condition of well: 10-3/4" cem. 90'; 7" cem. 994'. TD 3000' drilling

The operations were performed for the purpose of inspecting the blowout prevention equipment and installation.

Mr. ---------- reported:

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

RR:nw

cc L. W. Derry

WS

E. R. MURRAY-AARON
State Oil and Gas Supervisor

By [signature] Deputy

57152-705 10-65 15M ② OSP

FORM 111

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 167-173

Mr. L. W. Derry
P. O. Box 606
La Habra, California
~~X~~ for STANDARD OIL COMPANY OF CALIFORNIA

121

Inglewood, Calif.
February 16, 1967

(037-20045)

DEAR SIR:

Your proposal to drill Well No. "Highland Corehole" 2
Section 22, T. 1 S, R. 14 W, S.B. B. & M., Salt Lake Field, Los Angeles County,
dated Feb. 10,1967, received Feb. 15,1967, has been examined in conjunction with records filed in this office.
Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES
"Legal description of mineral-right lease, consisting of one or more acres, is as follows: From the intersecting centerlines of Orange Drive and Wilshire Boulevard 22' Easterly along the centerline of Wilshire Boulevard, thence 116.5' Southerly at right angles.
Do mineral and surface leases coincide? Yes X No____
Location of Well: 715 feet Easterly along section line and 25' feet Northerly at right angles to said line from the Southwest corner of section 22 (Proj.)
All depth measurements taken from top of Kelly Bushing which is 11'± feet above ground. Elevation of ground above sea level 195' feet Topo datum."

PROPOSAL
"PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade and Type	Top	Bottom	Cementing Depths
10-3/4"	40.5#	H-40	Surface	100±	Same
7"	23#	J-55	Surface	1000±	Same

Intended zone of completion: Stratigraphic Corehole Estimated total depth 6000'±
It is understood that if changes in this plan become necessary we are to notify you immediately."

DECISION
THE PROPOSAL IS APPROVED PROVIDED:

1. Fluid consistent with good drilling practice shall be used, and the column of fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
3. The hole shall be drilled in such a manner and plugged or cased, in the event of abandonment or suspension of drilling, as to prevent contamination or damage of any oil or gas bearing strata or any fresh water strata.
4. THIS DIVISION SHALL BE NOTIFIED TO INSPECT the installed blowout prevention equipment before drilling below 1500'.

NOTE: It is understood that this well is to be drilled for geological information only and is not to be completed as an oil or gas well.

RC:mw

cc L. W. Derry

Blanket Bond

E. R. MURRAY-AARON, State Oil and Gas Supervisor

By _____, Deputy

4/5

1T OSP

FORM 105

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

DIVISION OF OIL AND GAS
RECEIVED
FEB 15 1967
037-20045
INGLEWOOD, CALIFORNIA

(E)

Chevron U.S.A Inc.

La Habra, Calif. February 10, 1967

DIVISION OF OIL AND GAS "Highland Corehole" 2

In compliance with Section 3203, Division III, Article 4, Public Resources Code, notice is hereby given that it is our intention to commence drilling well No. "Highland Corehole" (#2) (037-20045), Sec. 22, T. 1S, R. 14W, S.B. B. & M., Salt Lake Field, Los Angeles County.

Legal description of mineral-right lease, consisting of one or more acres, is as follows: From the intersecting centerlines of Orange Drive and Wilshire Boulevard 22' Easterly along the centerline of Wilshire Boulevard, thence 116.5' Southerly at right angles. (Attach map or plat to scale)

Do mineral and surface leases coincide? Yes X No ____ If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of Well: 715 feet Easterly (Direction) along ~~property~~ section line and 25' feet Northerly (Direction)

at right angles to said line from the Southwest corner of ~~property~~ section 22 (Proj.)

Elevation of ground above sea level 195' feet Topo datum.

All depth measurements taken from top of Kelly Bushing (Derrick Floor, Rotary Table or Kelly Bushing) which is 11'± feet above ground.

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
10-3/4"	40.5#	H-40	Surface	100±	Same
7"	23#	J-55	Surface	1000±	Same

Intended zone(s) of completion: Stratigraphic Corehole (Name) Estimated total depth 6000'± (Depth, top and bottom)

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
W1-3 SC 2-15-67	SC	W	Blanket	W	W

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address Post Office Box 606
La Habra, California

Telephone Number 691-2251

Standard Oil Company of California, WOI (Name of Operator)

By L. W. Derry

Type of Organization Corporation (Corporation, Partnership, Individual, etc.)

27537-705 7-64 20M △ OSP

ATTACHMENT C

BORING AND PROBE CONSTRUCTION LOGS

Leighton

PROBE CONSTRUCTION LOG

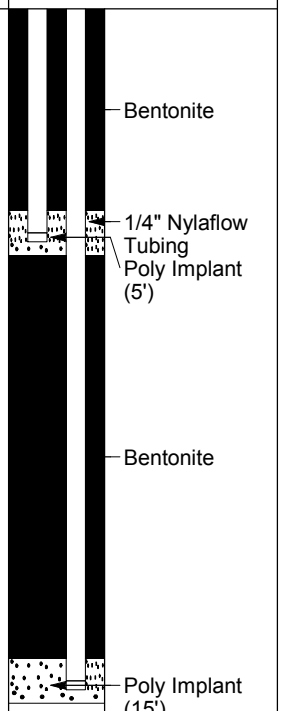
PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY KCH
REMARKS

BORING/WELL NUMBER M-1
DATE DRILLED 12/28/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Top soil	0.5
						ML		@1': SILT, dark brown, moist, firm, no odor or staining.	
									8.0
						CL		@8': Silty CLAY, brown, moist, stiff, slight odor, no staining.	
								@14': CLAY, dark brown, moist, stiff, odor, no staining.	
								@15': CLAY with Sand, mottled gray/dark brown, firm, odor, no staining, bituminous.	15.5
									20.0

Notes:
Total Depth of Boring: 15.5 feet
No groundwater encountered during drilling

WELL DIAGRAM



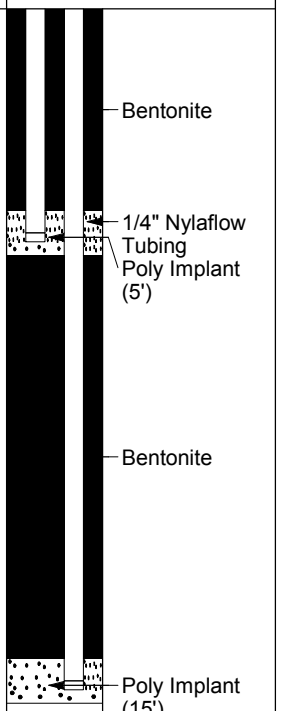
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-2
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Top soil	0.5
						ML		@1': SILT, brown, moist, firm, some gravel, no odor or staining.	
5								@7': Sandy SILT, brown, moist, firm, low plasticity, some sand, no odor or staining.	8.0
						CL		@8': Sandy CLAY, orange brown, moist, soft, odor and no staining. @9': Black, strong odor, no staining, bituminous.	
10								@10': CLAY, black/gray-blue, moist, firm, odor, no staining, bituminous.	11.0
						SW		@11': SAND, black, soft, strong odor, no staining, bituminous.	12.0
						ML		@12': SAND with Clay.	
15								@15': Clayey SAND, mottled black/gray, firm, odor, no staining, bituminous.	15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
25									
30									

WELL DIAGRAM



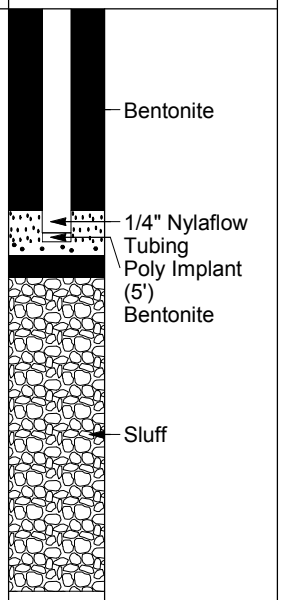
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-3-Shallow
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/23/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							@Surface: 3" Asphalt	0.5
						SW	@0.5': Gravelly SAND, brown, medium dense, dry, fine to coarse grained sand (artificial fill).	
5							@5.5': Brick fragments in sampler.	6.0
		6	M-3-6.0			CL	@6': CLAY, dark gray, hard, slightly moist, some sand, slight odor and staining, brick fragments.	
10		6	M-3-10.0				@11.5': CLAY, asphalt fragments present.	12.0
		6	M-3-12.5			ML	@12': Sandy SILT, brown, hard, slightly moist, fine grained sand, no staining or odor.	13.0
							@13': Refusal at depth.	
15								
20								
25								
30								

WELL DIAGRAM



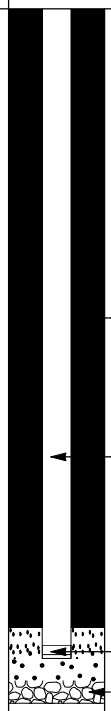
Notes:
Total Depth of Boring: 13 feet
No groundwater encountered during drilling

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-3-Deep
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						SW		@0.5': Gravelly SAND, brown, medium dense, dry, fine to coarse grained sand (artificial fill).	
5								@5.5': Brick fragements in sampler.	6.0
						CL		@6': CLAY, dark gray, hard, slightly moist, some sand, slight odor and staining, brick fragments in sampler.	
10								@11.5': CLAY, asphalt fragments present.	12.0
						ML		@12': Sandy SILT, brown, hard, slightly moist, fine grained sand, no staining or odor.	
15									15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	
25									
30									



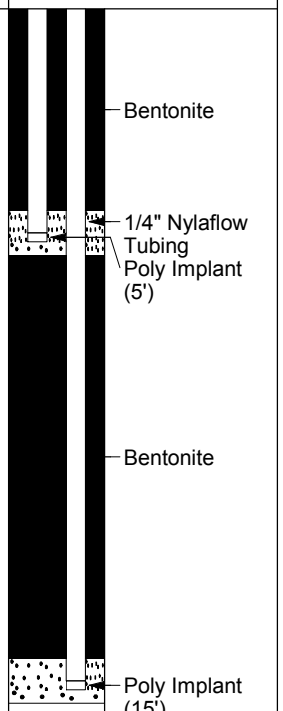
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-4
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						CL		@0.5': CLAY, dark olive brown, stiff, slightly moist, no odor or staining.	1.0
						SM		@1': Sandy SILT, brown, hard, slightly moist, fine grained sand, no staining or odor.	
									4.0
5						CL		@4': Silty CLAY, light olive brown, hard, moist, trace sand, no staining or odor.	
								@7': Some sand.	
10								@10': CLAY, brown, hard, moist, trace sand, no odor or staining.	
								@12': Some silt.	
15									15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-5
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 6" Concrete	0.5	Bentonite
						CL		@0.5': CLAY, dark brown, stiff, moist, no odor or staining.	4.0	
5						SM		@4': Silty SAND, light brown, medium dense, fine to medium grained sand, some gravel, no staining or odor.	5.0	1/4" Nylaflow Tubing Poly Implant (5')
						ML		@5': SILT, light brown, hard, dry, some sand, no staining or odor.		
10										Bentonite
15									15.5	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

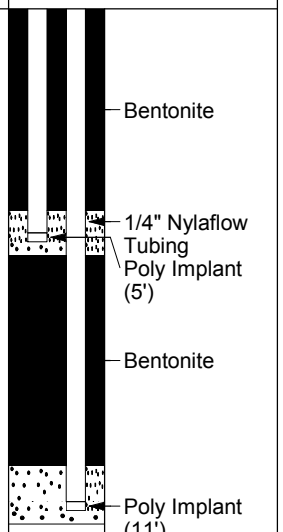
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-6
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						SP		@0.5': SAND, light brown, loose, dry, fine to medium grained sand, some silt, no odor or staining.	
5									5.5
						CL		@5.5': CLAY, dark brown, very stiff, slightly moist, no odor or staining.	
									9.0
						SM		@9': Silty SAND, tan, very dense, dry, fine to medium grained sand, no odor or staining.	
10									11.5
								@ 11.5': Refusal encountered.	
15									
20								**Notes:** Total Depth of Boring: 11.5 feet No groundwater encountered during drilling	
25									
30									

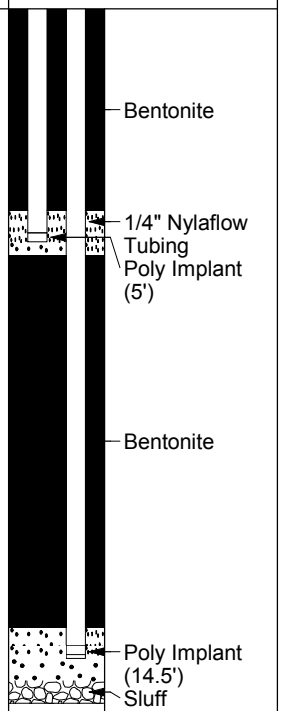


GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-7
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 2" Asphalt	0.5
						CL		@0.5': CLAY, olive-gray, firm, moist, no odor or staining.	
5									6.0
						ML		@6': Sandy SILT, olive gray, stiff, moist, fine to medium grained sand, no odor or staining. @7': Sandy SILT, trace sand.	9.0
10						CL		@9': CLAY, brown, hard, moist, no odor or staining.	
15								@14': Clayey SILT, olive gray, hard, slightly moist, trace sand, no odor or staining.	15.0
								@ 15': Refusal encountered.	
20								**Notes:** Total Depth of Boring: 15 feet No groundwater encountered during drilling	
25									
30									



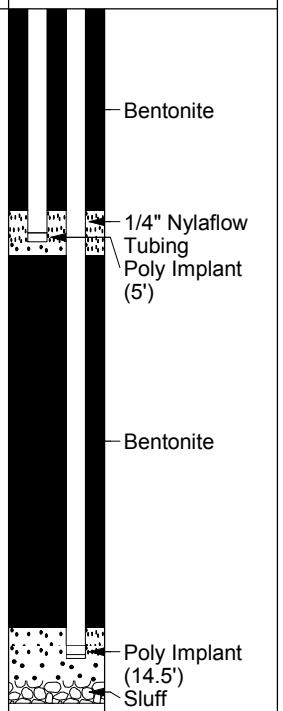
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-8
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 2" Asphalt	0.5
								@0.5': Brick and gravel (artificial fill).	
									2.5
						ML		@2.5': Clayey SILT, light brown, firm, moist, trace sand, no odor or staining.	
5									
								@9': sand.	
10									10.0
						CL		@10': CLAY, dark gray, hard, slightly moist, some sand, odor, no staining, brick fragments.	
									14.0
						ML		@14': Clayey SILT, light brown, hard, slightly moist, some sand, no odor or staining.	15.0
15								@ 15': Refusal encountered.	
20									
25									
30									



Notes:
Total Depth of Boring: 15 feet
No groundwater encountered during drilling

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

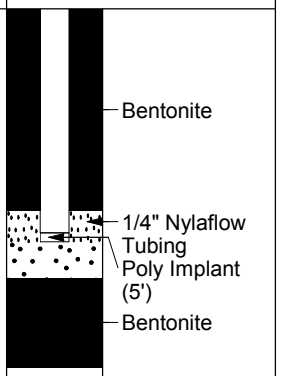
PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-9-Shallow
DATE DRILLED 12/23/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						SW		@0.5': Gravelly SAND, light brown, medium dense, fine to coarse grained sand with asphalt debris from 0.5-2ft bgs, no odor, no staining.	4.0
5						SM		@4': Silty SAND, light brown, medium dense, no odor or staining.	6.0
						CL		@6': Silty CLAY, brown, hard, dry, no odor or staining.	8.0
								@8': Refusal at depth.	
10									
15									
20									
25									
30									

Notes:
Total Depth of Boring: 8 feet
No groundwater encountered during drilling



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-9-Deep
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

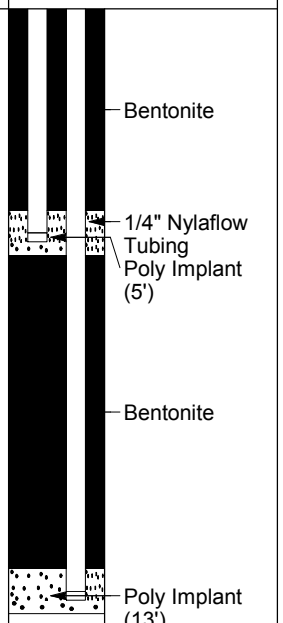
DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	
						SW		@0.5': Gravelly SAND, light brown, medium dense, fine to coarse grained sand with asphalt debris from 0.5-2ft bgs no odor, no staining.	4.0	
5						SM		@4': Silty SAND, light brown, medium dense, no odor or staining.	6.0	
						CL		@6': Silty CLAY, brown, hard, dry, no odor or staining.	9.5	Bentonite
10						ML		@9.5': Clayey SILT, light brown, hard, slightly moist, trace sand, no odor or staining.		1/4" Nylaflow Tubing
15									15.5	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-10
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/23/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 2" Asphalt	0.2
								6" Concrete	0.7
						CL		@1': Sandy CLAY, brown, stiff, moist, no odor or staining.	
5						ML		@5': Sandy SILT, dark brown, stiff, slightly moist, fine to coarse grained sand, brick fragments, no odor or staining.	5.0
						CL		@8': CLAY, dark brown, hard, slightly moist, no odor or staining.	8.0
10						ML		@10': Sandy SILT, light brown, dry, no odor or staining.	10.0
						SM		@12': Silty SAND, tan, very dense, dry, fine to coarse grained sand, no odor or staining.	12.0
								@ 13.5': Refusal encountered.	13.0
15									
20									
25									
30									



Notes:
Total Depth of Boring: 13.5 feet
No groundwater encountered during drilling

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-11
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	Bentonite
						ML		@2': Sandy SILT, brown, moist, soft, slight odor, no staining.		
5								@5': Black.		1/4" Nylaflow Tubing; Poly Implant (5')
									9.0	
10								@9': Silty CLAY, dark brown, moist, firm, odor, no staining.		Bentonite
						CL		@11': Sandy CLAY, mottled light brown-white, moist, white sand content, slight odor, no staining.		
15									15.5	Poly Implant (15')
									20.0	
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

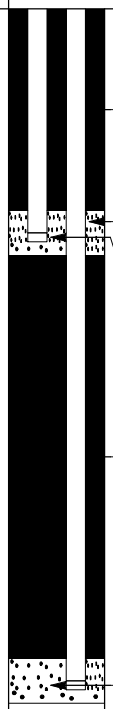
PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY KCH
REMARKS

BORING/WELL NUMBER M-12
DATE DRILLED 12/28/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Topsoil	0.5
						ML		@2': SILT, dark brown, moist, firm, no odor or staining. @3': Sandy SILT, brown, slightly moist, stiff, no odor or staining.	
5						CL		@5': Silty CLAY, brown/orange, slightly moist, stiff, iron oxidized, no odor or staining.	5.0
10								@9': Silty CLAY, dark brown, slightly moist, very stiff, no odor or staining. @12': CLAY, black, moist, firm, low plasticity, odor, no staining, bituminous.	
15									15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-13
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: Topsoil	0.5	
						ML		@1': SILT with concrete debris. @2': SILT, black, moist, soft, no odor or staining.		Bentonite
5								@5': Sandy SILT, black, moist, soft, odor, no staining.		1/4" Nylaflow Tubing Poly Implant (5')
									8.0	
						CL		@8': Silty CLAY, black, moist, soft, odor and no staining. @10': CLAY, mottled black and brown, moist, firm, odor, no staining, bitumenous.		Bentonite
10										
15									15.0	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

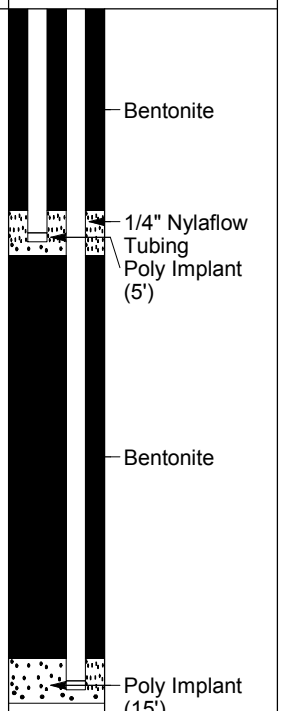
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY KCH
REMARKS

BORING/WELL NUMBER M-14
DATE DRILLED 12/28/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt with 3" Base-gravelly SAND.	0.5
						ML		@1': Clayey SILT, dark brown, slightly moist, very stiff, some sand, no odor or staining.	
5								@5': Black, moist, stiff, slight odor, no staining.	
								@7': Mottled gray-black, odor, no staining.	
10								@9': Black, soft, odor, no staining, bituminous.	
15									15.0
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
25									
30									



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

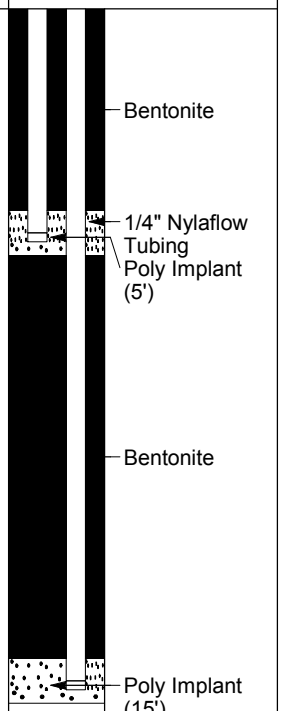
PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-15
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						CL		@0.5': Sandy CLAY, light brown, stiff, moist, fine to medium grained, no odor or staining.	
5								@5': Dark brown.	
								@8': Brick fragments in sampler.	
10								@10': Rock blocked sample recovery. No recovery from 10-15.5 feet bgs.	10.0
15									
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-16
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/23/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	Bentonite
						CL		@0.5': Silty CLAY, olive brown, moist, firm, trace sand, no odor or staining.		
5								@4.5': Dark gray, slight odor and staining. @5.5': Asphalt debris in sampler. @7': Silty CLAY, olive gray. @8': CLAY, brown, moist, stiff, no odor or staining.		1/4" Nylaflow Tubing Poly Implant (5')
10								@10': CLAY, dark gray, slight odor and staining.		Bentonite
15								@14': No odor, no staining. @15': Boring refusal at 15' bgs.	15.0	Poly Implant (14.5')
20								**Notes:** Total Depth of Boring: 15 feet No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY KCH
REMARKS

BORING/WELL NUMBER M-17
DATE DRILLED 12/28/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	Bentonite
						CL		@2': CLAY, black, moist, firm, low plasticity, no odor or staining.		
5								@6': Stiff.		1/4" Nylaflow Tubing; Poly Implant (5')
10								@10': Gray-blue.		Bentonite
15									15.5	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet. No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

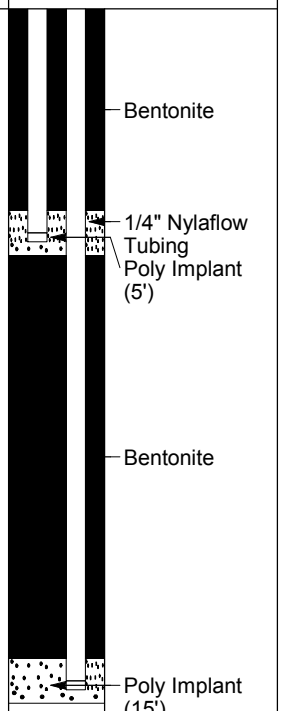
PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-18
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Planter soil	0.5
						CL		@0.5': CLAY, dark brown, moist, stiff, no odor or staining.	
									4.0
5						ML		@4': SILT, light brown, slightly moist, stiff, some clay, no odor and staining.	
								@7': Clayey SILT, light brown, slightly moist, stiff, no odor or staining.	9.0
						SP		@9': SAND, light brown, moist, medium dense, fine to medium grained, no odor and staining.	9.5
10								@9.5': CLAY, dark brown, stiff, slightly moist, trace sand, no odor or staining.	
								@13': Trace gravel, light brown.	
						CL		@14': Dark olive brown.	
15									15.5
20									20.0
25									
30									

Notes:
Total Depth of Boring: 15.5 feet
No groundwater encountered during drilling

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

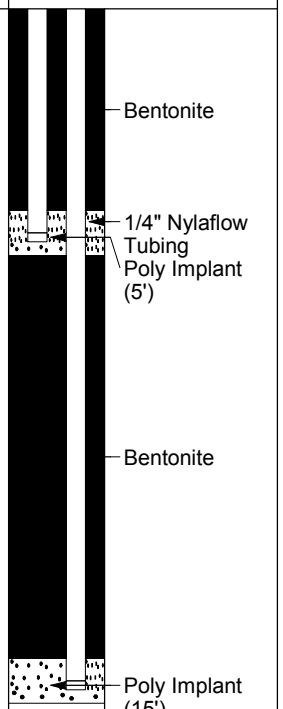
PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-19
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Planter soil	0.5
						ML		@0.5': Clayey SILT, brown, moist, stiff, no odor or staining.	
5									6.0
								@6': CLAY, brown, slightly moist, hard, no odor or staining.	
10									
						CL		@12': Some sand.	
15									15.5
								Notes: Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
20									
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-20
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	
						ML		@0.5': Sandy SILT, brown.		
								@2': Concrete layer~2-3 inches	2.5	Bentonite
						CL		@2.5': CLAY, dark brown, moist, stiff, some silt, trace sand, no odor or staining.		
5										1/4" Nylaflow Tubing Poly Implant (5')
								@8': Olive brown, trace gravel, no odor or staining.		
10										Bentonite
								@12': Sandy CLAY, olive brown, slightly moist, very stiff, no odor or staining.		
15									15.5	Poly Implant (15')
									20.0	
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

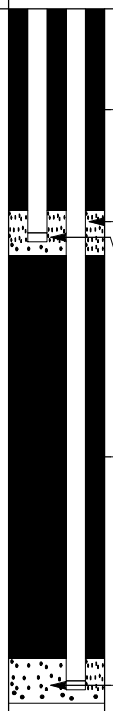
PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-21
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						SC		@0.5': Clayey SAND, brown, loose, slightly moist, fine to medium grained, no odor or staining.	
						CL		@4': CLAY, dark brown, moist, firm, no odor or staining.	4.0
5									
10								@10': CLAY, stiff.	
15									15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-22
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	
						ML		@1':SILT with Gravel, brown, moist, no odor or staining. @2':SILT, dark brown, moist, firm, low plasticity, no odor or staining.		Bentonite
5										1/4" Nylaflow Tubing Poly Implant (5')
									8.0	
						CL		@8': CLAY, mottled gray-brown, moist, stiff, low plasticity, no odor, no staining. @12': Gray.		Bentonite
10										
15									15.0	Poly Implant (15')
									20.0	
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

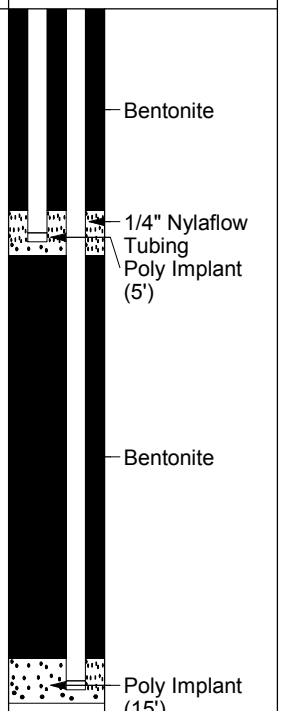
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-23
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						CL		@0.5': Sandy CLAY, brown, stiff, moist, fine to medium grained sand, no odor or staining.	
5						ML		@5': Sandy SILT, light grayish brown, very dense, some gravel, no odor or staining.	5.0
10									12.0
						CL		@12': CLAY, dark grayish brown, slightly moist, stiff, trace sand, odor, no staining, bituminous.	
15									15.0
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	
25									
30									



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER 603378.006
PROJECT NAME LAUSD Burroughs Middle School
LOCATION 600 South McCadden Place Los Angeles, CA
DRILLING METHOD Direct Push
SAMPLING METHOD Direct Push
GROUND ELEVATION ft.
TOP OF CASING ft.
LOGGED BY RAL
REMARKS

BORING/WELL NUMBER M-24
DATE DRILLED 12/27/2016
CASING TYPE/DIAMETER Nylaflow / 1/4-inch
SCREEN TYPE/SLOT Poly Implant
GRAVEL PACK TYPE #3 Sand
GROUT TYPE/QUANTITY Hydrated Bentonite
DEPTH TO WATER ft.
GROUND WATER ELEVATION ft.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	Bentonite
						CL		@0.5': Sandy CLAY, brown, very stiff, slightly moist, fine to medium grained sand, no odor or staining.		1/4" Nylaflow Tubing
5										Poly Implant (5')
								@8': Wood fragments in sampler, trace gravel.		
10								@10': CLAY, dark grayish brown, odor, no staining, bituminous.		Bentonite
15									15.0	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-25
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 3" Asphalt	0.5	
						CL		@0.5': Sandy CLAY, brown, dry, stiff, fine to medium grained sand, no odor or staining.		Bentonite
									4.0	
5						SW		@4': SAND, tan, dry, medium dense, fine to coarse grained, no odor or staining.	4.5	1/4" Nylaflow Tubing
								@4.5': Sandy CLAY, brown, dry, hard, fine grained sand, no odor or staining.		Poly Implant (5')
10						CL		@9.5': Dark gray to black, odor, no staining, bituminous.		Bentonite
15									15.5	Poly Implant (15')
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0	
25										
30										

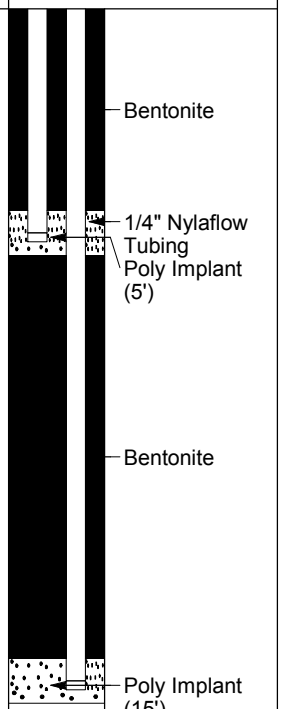
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-26
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Topsoil	0.5
						ML		@2': Clayey SILT, dark brown, moist, firm, no odor or staining.	5.0
5						SW		@5': Gravelly SAND, black, moist, loose, fine to coarse grained, slight odor, no staining, bituminous.	6.0
						ML		@6': Silty CLAY, dark brown, moist, soft, slight odor and no staining. @8': With gravel.	10.0
10						CL		@10': CLAY, black, slightly moist, very stiff, odor, no staining, bituminous. @11': Sandy CLAY, dark brown, moist, very stiff, medium grained sand, slight odor, no staining.	14.0
15						ML		@14': Clayey SAND, black, moist, soft, slight odor, no staining, bituminous	15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	
25									
30									

WELL DIAGRAM



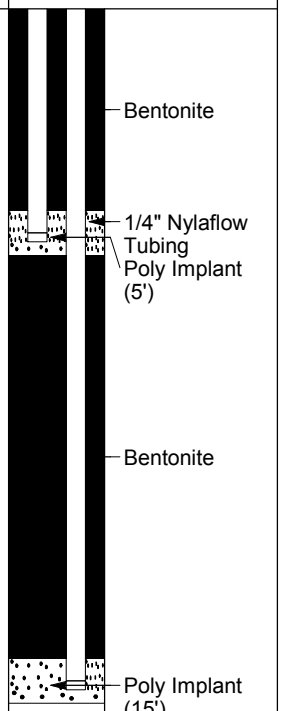
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-27
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Topsoil	0.5
						CL		@3': Silty CLAY, brown, moist, stiff, low plasticity, no odor or staining.	
5						ML		@5': Sandy SILT, light brown, slightly moist, very stiff, no odor or staining.	5.0
						SW		@6': SAND, mottled gold and brown, slightly moist, loose, fine to coarse grained, no odor and staining.	6.0
						ML		@7.5': SILT, brown, stiff, slightly moist, low plasticity, some iron oxidation, no tar odor or staining.	7.5
10								@ 10'-15' bgs- Liner jammed due to very dense material at depth, no sample recovery	10.0
						SC		@ 15': Clayey SAND, light brown, dry, very dense, no odor or staining.	14.5 15.0
15									
20									
25									
30									

Notes:
Total Depth of Boring: 15.5 feet
No groundwater encountered during drilling



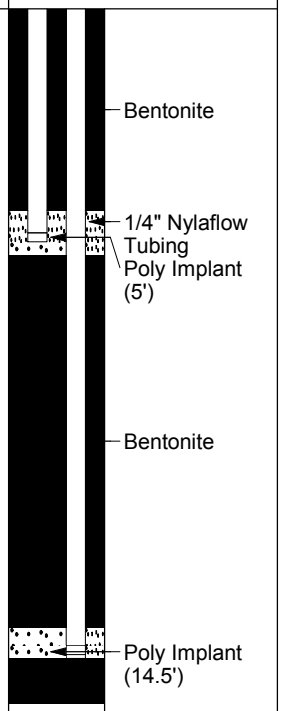
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-28
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: Grass	0.5
						CL		@0.5': CLAY, dark brown, stiff, moist, no odor or staining.	
									4.5
5						ML		@4.5': Sandy SILT, light brown, slightly moist, stiff, fine grained sand, no odor or staining.	5.5
						CL		@5.5': CLAY, light brown, moist, stiff, no odor or staining.	6.5
						SW		@6.5': SAND, light brown, dry, medium dense, fine to coarse grained sand, no odor or staining.	7.5
						CL		@7.5': Silty CLAY, light brown, slightly moist, stiff, no odor, no staining.	
10								@12': CLAY, olive brown, slightly moist, hard, no odor or staining.	
								@14': Light brown.	
15								@15': Boring refusal.	15.0
20								**Notes:** Total Depth of Boring: 15 feet No groundwater encountered during drilling	
25									
30									

WELL DIAGRAM



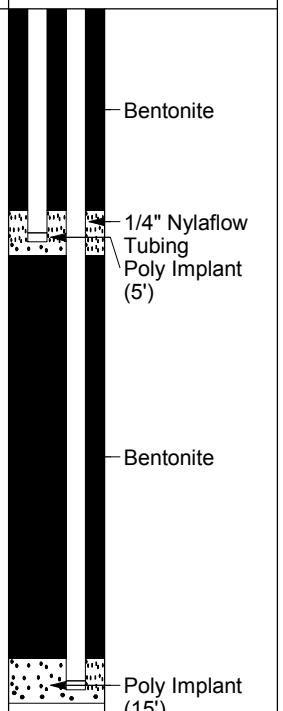
GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-29
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/27/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	ft.
LOGGED BY	RAL	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								@Surface: 3" Asphalt	0.5
						CL		@0.5': Sandy CLAY, brown, hard, dry, fine to medium grained sand, no odor or staining.	
5								@5': Dark brown.	
10						SP		@10': SAND, brown, medium dense, slightly moist, no odor or staining.	10.0
						CL		@13': Sandy CLAY, light brown, hard, dry, fine to medium grained sand, no odor or staining.	13.0
15									15.5
20								**Notes:** Total Depth of Boring: 15.5 feet No groundwater encountered during drilling	20.0
25									
30									

WELL DIAGRAM



GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

PROBE CONSTRUCTION LOG

PROJECT NUMBER	603378.006	**BORING/WELL NUMBER**	M-30
PROJECT NAME	LAUSD Burroughs Middle School	**DATE DRILLED**	12/28/2016
LOCATION	600 South McCadden Place Los Angeles, CA	**CASING TYPE/DIAMETER**	Nylaflow / 1/4-inch
DRILLING METHOD	Direct Push	**SCREEN TYPE/SLOT**	Poly Implant
SAMPLING METHOD	Direct Push	**GRAVEL PACK TYPE**	#3 Sand
GROUND ELEVATION	ft.	**GROUT TYPE/QUANTITY**	Hydrated Bentonite
TOP OF CASING	ft.	**DEPTH TO WATER**	12.0ft.
LOGGED BY	KCH	**GROUND WATER ELEVATION**	ft.
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: Topsoil	0.5	Bentonite
						ML		@3': Sandy SILT, black, soft, slightly moist, no odor, no staining, oragnic rich. @4': SILT, dark brown, firm, slightly moist, low plasticity, some sand, no odor or staining.		1/4" Nylaflow Tubing Poly Implant (5')
5										Bentonite
								@8': Mottled brown and dark brown.	9.0	
						CL		@9': Sandy CLAY, black, moist, firm, low plasticity, no odor, no staining, bitunminous.		Poly Implant (9.5')
10								@12': Perched groundwater encountered post drilling. @12.5'- CLAY, black, moist, firm, no odor, no staining, bituminous.		Bentonite
15									15.5	
20								**Notes:** Total Depth of Boring: 15.5 feet Perched groundwater was encountered after tooling was removed from the boring. No evidence of broken utility in the area. Bentonite was added to dry up the boring from 15.5'bgs to 10' bgs. Probes were set at 5' bgs and 9.5' bgs.		
25										
30										

GE-LAEWNN01 METHANE PROBE LOGS.GPJ LAEWNN01.GDT 2/6/17

ATTACHMENT D

LABORATORY ANALYTICAL REPORTS – METHANE AND HYDROGEN SULFIDE IN SOIL GAS

Leighton

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Leighton Consulting, Inc.
Address:	17781 Cowan Suite 100 Irvine, CA 92614
Attn:	Julie C. Harriman, P.E.

Lab Request:	386058
Report Date:	01/04/2017
Date Received:	01/03/2017
Client ID:	5970

Comments: Burroughs MS
Project# 603378.006

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
386058-001	M-1-15.0'
386058-002	M-8-5.0'
386058-003	M-7-5.0'
386058-004	M-17-5.0'
386058-005	M-17D-5.0'
386058-006	M-14-15.0'
386058-007	M-15-15.0'

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

The reports of the Enthalpy Analytical, Inc. are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:**
Sampled: 01/03/2017 16:05 **Site:**
Sample #: 386058-001 **Client Sample #:** M-1-15.0' **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174021		
Hydrogen Sulfide	**3500**	1	4	4	Vppb		01/04/17 08:40	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174025		
Methane	**20100**	10		500	Vppm		01/04/17 12:11	EW	

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:**
Sampled: 01/03/2017 15:42 **Site:**
Sample #: 386058-002 **Client Sample #:** M-8-5.0' **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174021		
Hydrogen Sulfide	**8.00**	1	4	4	Vppb		01/04/17 08:43	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174025		
Methane	**124**	1		50	Vppm		01/04/17 10:58	EW	

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:**
Sampled: 01/03/2017 15:45 **Site:**
Sample #: 386058-003 **Client Sample #:** M-7-5.0' **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174021		
Hydrogen Sulfide	**54.0**	1	4	4	Vppb		01/04/17 08:46	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174025		
Methane	**106000**	60		3000	Vppm		01/04/17 12:49	EW	

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:**
Sampled: 01/03/2017 15:50 **Site:**
Sample #: 386058-004 **Client Sample #:** M-17-5.0' **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174021		
Hydrogen Sulfide	**530**	1	4	4	Vppb		01/04/17 08:48	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174025		
Methane	**472000**	200		10000	Vppm		01/04/17 14:22	EW	

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:**
Sampled: 01/03/2017 15:51 **Site:**
Sample #: 386058-005 **Client Sample #:** M-17D-5.0' **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174021		
Hydrogen Sulfide	**540**	1	4	4	Vppb		01/04/17 08:50	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174025		
Methane	**577000**	200		10000	Vppm		01/04/17 14:28	EW	

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:**
Sampled: 01/03/2017 16:03 **Site:**
Sample #: 386058-006 **Client Sample #:** M-14-15.0' **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174021		
Hydrogen Sulfide	**64.0**	1	4	4	Vppb		01/04/17 09:10	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174025		
Methane	**518000**	200		10000	Vppm		01/04/17 14:33	EW	

Matrix:	Air	**Client:**	Leighton Consulting, Inc.	**Collector:**	
Sampled:	01/03/2017 16:00	**Site:**			
Sample #:	**386058-007**	**Client Sample #:**	M-15-15.0'	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174021		
Hydrogen Sulfide	**1100**	1	4	4	Vppb		01/04/17 08:50	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174025		
Methane	**62300**	60		3000	Vppm		01/04/17 13:35	EW	

QCBatchID:	**QC1174021**	**Analyst:**	nicollez	**Method:**	ASTM D5504M
Matrix:	Air	**Analyzed:**	01/04/2017	**Instrument:**	VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1174021MB1					
Hydrogen Sulfide	ND	Vppb	4	4	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1174021DUP1						**Source: 386058-005**
Hydrogen Sulfide	540	540	Vppb	0.0	25	

QCBatchID:	**QC1174025**	**Analyst:**	sandyw	**Method:**	EPA 8015B
Matrix:	Air	**Analyzed:**	01/04/2017	**Instrument:**	VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1174025MB1					
Methane	ND	Vppm		50	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1174025DUP1						**Source: 386058-001**
Methane	20100	20100	Vppm	0.0	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933 Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	Lab No: 386058 Page: 1 of 1 **Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: ☐ Same Day: ☐ **Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Leighton Consulting Inc.	Name:	Burroughs MS
Report To:	Julie Harriman	Number:	603378.006
Email:	Jharriman@leightongroup.com	P.O. #:	
Address:	17781 Cowan	Address:	600 S. McCadden
	Irvine, CA 92614		
Phone:		Global ID:	
Fax:		Sampled By:	K. Hall (LCI)

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Methane EPA8015	H2S ASTM D5504M	Test Instructions / Comments
1	M4-15.0'	1/3/17	1605	SV	1 tedlar	N/A	X	X	* RUSH * 24hr TAT
2	M-8-5.0'	↓	1542	↓	↓	↓	X	X	* *
3	M-7-5.0'		1545				X	X	
4	M-17~~X~~ 5.0'		1550				X	X	
5	M-17D 5.0		1551				X	X	
6	M-14 - 15.0'		1603				X	X	
7	M-15 - 15.0'		1600				X	X	
8									
9									
10									

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Kevin C. Hall	Kevin Hall	LCI / Sr. Staff Sci.	1/3/17 / 1620
[1] Received By:		C. Marrokett		1/3/17 1620
[2] Relinquished By:		C. Marrokett		1/3/17 1750
[2] Received By:		T. Nash	EA	1/3/17 1756
[3] Relinquished By:				
[3] Received By:				

ENTHALPY analytical inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: LEIGHTON CONSULTING Project: BURROUGHS M.S.

Date Received: 1/3/17 Sampler's Name Present: (Yes) No

Sample(s) received in a cooler? Yes How many? _____ (No) (skip section 2) Sample Temp (°C): TEXAR

Sample Temp (°C) from each cooler: #1: _____ #2: _____ #3: _____ #4: _____

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information: _____

Section 2

Was the cooler packed with: ____ Ice ____ Ice Packs ____ Bubble Wrap ____ Styrofoam ____ Paper ____ None ____ Other _____

Cooler Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relinquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Section 4

Explanations/Comments: _____

Section 5

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____

Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 1/3/17

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Leighton Consulting, Inc.
Address:	17781 Cowan Suite 100 Irvine, CA 92614
Attn:	Julie C. Harriman, P.E.

Lab Request:	386635
Report Date:	01/17/2017
Date Received:	01/16/2017
Client ID:	5970

Comments: LAUSD Burroughs
PO# 603378.006
600 S. McFadden Pl., Los Angeles, CA

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
386635-001	M-13-5.0
386635-002	M-14-15
386635-003	M-15-15
386635-004	M-24-15
386635-005	M-17-5.0
386635-006	M-17-5.0D
386635-007	M-7-6.0

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

The reports of the Enthalpy Analytical, Inc. are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:** Client
Sampled: 01/16/2017 16:14 **Site:**
Sample #: 386635-001 **Client Sample #:** M-13-5.0 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174375		
Hydrogen Sulfide	**21.0**	1	4	4	Vppb		01/17/17 08:34	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174402		
Methane	**96800**	100		5000	Vppm		01/17/17 14:33	EW	

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:** Client
Sampled: 01/16/2017 16:18 **Site:**
Sample #: 386635-002 **Client Sample #:** M-14-15 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174375		
Hydrogen Sulfide	**790**	1	4	4	Vppb		01/17/17 08:36	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174402		
Methane	**298000**	100		5000	Vppm		01/17/17 13:52	EW	

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:** Client
Sampled: 01/16/2017 16:22 **Site:**
Sample #: 386635-003 **Client Sample #:** M-15-15 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174375		
Hydrogen Sulfide	**4500**	1	4	4	Vppb		01/17/17 08:48	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174402		
Methane	**84200**	100		5000	Vppm		01/17/17 13:26	EW	

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:** Client
Sampled: 01/16/2017 16:25 **Site:**
Sample #: 386635-004 **Client Sample #:** M-24-15 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174375		
Hydrogen Sulfide	**5400**	10	40	40	Vppb		01/17/17 08:58	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174402		
Methane	**285000**	200		10000	Vppm		01/17/17 14:05	EW	

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:** Client
Sampled: 01/16/2017 16:26 **Site:**
Sample #: 386635-005 **Client Sample #:** M-17-5.0 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174375		
Hydrogen Sulfide	**760**	1	4	4	Vppb		01/17/17 08:39	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174402		
Methane	**297000**	100		5000	Vppm		01/17/17 13:59	EW	

Matrix: Air **Client:** Leighton Consulting, Inc. **Collector:** Client
Sampled: 01/16/2017 16:27 **Site:**
Sample #: 386635-006 **Client Sample #:** M-17-5.0D **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174375		
Hydrogen Sulfide	**840**	1	4	4	Vppb		01/17/17 08:42	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174402		
Methane	**388000**	200		10000	Vppm		01/17/17 14:11	EW	

Matrix:	Air	**Client:**	Leighton Consulting, Inc.	**Collector:**	Client
Sampled:	01/16/2017 16:32	**Site:**			
Sample #:	**386635-007**	**Client Sample #:**	M-7-6.0	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ASTM D5504M	Prep Method: Method						QCBatchID: QC1174375		
Hydrogen Sulfide	**54.0**	1	4	4	Vppb		01/17/17 08:45	ZZ	
Method: EPA 8015B	Prep Method: RSK-175						QCBatchID: QC1174402		
Methane	**133000**	50		2500	Vppm		01/17/17 14:25	EW	

QCBatchID:	**QC1174375**	**Analyst:**	nicollez	**Method:**	ASTM D5504M
Matrix:	Air	**Analyzed:**	01/17/2017	**Instrument:**	VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1174375MB1					
Hydrogen Sulfide	ND	Vppb	4	4	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1174375DUP1						**Source: 386635-001**
Hydrogen Sulfide	21.0	21.0	Vppb	0.0	25	

QCBatchID:	**QC1174402**	**Analyst:**	sandyw	**Method:**	EPA 8015B
Matrix:	Air	**Analyzed:**	01/17/2017	**Instrument:**	VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1174402MB1					
Methane	ND	Vppm		50	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1174402DUP1						**Source: 386635-003**
Methane	84200	77000	Vppm	8.9	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933 Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	Lab No: ~~386635~~ Page: 1 of 1 **Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Standard: ✓ 4 Day: 3 Day: 2 Day: 1 Day: Same Day: **Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Leighton Consulting Inc.	Name:	~~Jule Harriman~~
Report To:	Julie Harriman	Number:	LAUSD Burroughs
Email:	Jharriman@leightongroup.com	P.O. #:	603378.006
Address:	17781 Cowan	Address:	600 S. McFadden Pl.
	Irvine CA 92614		Los Angeles, CA
Phone:	949-253-9836	Global ID:	
Fax:	949-250-1114	Sampled By:	K. Hall

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Methane EPA 8015	H2S ASTM D5504M	Test Instructions / Comments
1	M-13-5.0	1/16/17	1614	SV	1L Tedlar		X	X	* RUSH 24hr TAT *
2	M-14-15	↓	1618	↓	↓				*
3	M-15-15		1622						
4	M-24-15		1625						
5	~~M-24~~ M-17-5.0		1626						
6	M-17-5.0D		1627						
7	M-7-6.0	↓	1632	↓	↓		↓	↓	
8									
9									
10									

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Kevin C. Hall	Kevin Hall	LCI / Sr. Staff Sci.	1/16/17 1650
[1] Received By:		L. Marcoletti		1/16/17 1650
[2] Relinquished By:		L. Marcoletti		1/16/17 1823
[2] Received By:		Enthalpy	EA	1/16/17 1840
[3] Relinquished By:				
[3] Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: LEIGHTON CONSULTING Project: LAIRD BURROUGHS

Date Received: 1/16/17 Sampler's Name Present: Yes No

Sample(s) received in a cooler? Yes How many? _____ No (skip section 2) Sample Temp (°C): 15.1

Sample Temp (°C) from each cooler: #1: _____ #2: _____ #3: _____ #4: _____

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information: _____

Section 2

Was the cooler packed with: ____ Ice ____ Ice Packs ____ Bubble Wrap ___ Styrofoam ____ Paper ____None ____ Other_____

Cooler Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relinquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?			✓
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Section 4

Explanations/Comments: SAMPLE #1 HAD LOWER SAMPLE VOLUME

Section 5

For discrepancies, how was the Project Manager notified? Verbal Email PM Initials: _____ Date/Time _____

(email sent to/on): ICW / 1/16/17

Project Manager's response:

Completed By: _____ Date: 1/16 1/16/17 1/16/17

ATTACHMENT E

MANIFESTS

Leighton

NO. 731657

NON-HAZARDOUS WASTE DATA FORM

BESI # 276063

GENERATOR

Generator's Name and Mailing Address
L.A.U.S.D. - OEHS
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)
LAUSD - JOHN BURROUGHS MIDDLE SCHOOL
600 S. MCCADDEN PLACE
LOS ANGELES, CA 90005

Generator's Phone: 213-241-3199

Container type removed from site:
☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 02

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS SITE INVESTIGATION (DRILL CUTTINGS)

COMPONENTS OF WASTE	PPM	%
1. SOIL		
2.		
3.		
4. 100%		

Waste Profile _____ PROPERTIES: pH _____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: [illegible] on behalf of LAUSD Kevin Hall
Signature: Kevin C. Hall
Month 01 Day 06 Year 17

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE
Phone#: 949-460-5200

Transporter 1 Printed/Typed Name: Jose Ferreyra
Signature:
Month 01 Day 06 Year 17

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name:
Phone#:

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
U.S. ECOLOGY, NEVADA OPERATIONS
HIGHWAY 95, 11 MILES S. OF BEATTY
BEATTY, NV 89003

Phone#: 775-553-2203

Printed/Typed Name:
Signature:
Month Day Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

NO. 731656

NON-HAZARDOUS WASTE DATA FORM

BESI # 276063

GENERATOR

Generator's Name and Mailing Address
L.A.U.S.D. - OEHS
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)
LAUSD - JOHN BURROUGHS MIDDLE SCHOOL
600 S. MCCADDEN PLACE
LOS ANGELES, CA 90005

Generator's Phone: 213-241-3199

Container type removed from site:
☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 01

Container type transported to receiving facility:
☐ Drums ☒ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS ~~WELL PURGING~~ / DECON WATER

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%	3.		
2. TPH		<1%	4.		

Waste Profile _____ PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: LCI OBERALL OF LAUSD Kevin Hall
Signature: Kevin C. Hall
Month 01 Day 06 Year 17

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE
Phone#: 949-460-5200

Transporter 1 Printed/Typed Name: Jose Ferreira
Signature: [signature]
Month 01 Day 06 Year 17

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC.
Phone#: 714-990-6855

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222

Phone#: 310-537-7100

Printed/Typed Name:
Signature:
Month Day Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

ATTACHMENT F

FORM 1, CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA, PARTS 1 AND 2

Leighton

FORM 1 - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

Part 1: Certification Sheet

Site Address: John Burroughs Middle School, 600 South McCadden Place, Los Angeles, California 90005
Legal Description: Tract: 6388 Lot: 14&15 Block:
Building Use: Proposed Modernization of Existing School

Architect's, Engineer's or Geologist's Stamp:



Name of Architect, Engineer, or Geologist:
Julie C. Harriman, PE
Mailing Address:
17781 Cowan
Irvine, CA 92614
Telephone: 949-681-4264

Name of Testing Laboratory:
Leighton Consulting, Inc.
City Test Lab License #: TA10069
Telephone: 949-681-4264

I hereby certify that I have tested the above site for the purpose of methane mitigation and that all procedures were conducted by a City of Los Angeles licensed testing agency in conformity with the requirements of the LADBS Information Bulletin P/BC 2014-101. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the architect, engineer or geologist whose signature is affixed thereon.

Signed: _____ date 9/25/2017

Required Data:

- Project is in the (Methane Zone) or (Methane Buffer Zone).
- Depth of ground water observed during testing: N/A feet below the Impervious Membrane.
- Depth of Historical High Ground Water Table Elevation*: ~20 feet below the Impervious Membrane.
- Design Methane Concentration**: 578,000 parts per million in volume (ppmv).
- Design Methane Pressure***: 1.0 inches of water column.
- Site Design Level: (Level I, Level II, Level III, Level IV, (Level V) with all pressures inches of water column.

De-watering:

- De-watering (is) (is not) required per Section 7104.3.7. [groundwater anticipated >10 ft below perforated pipe]
- Pump discharge rate _____ cubic feet per minute per reference geology or soil report: _____ dated _____.

Additional Investigation:

- Additional investigation (was) (was not) conducted.

Latest Grading on Site:

- Date of last grading on site (was) (was not) more than 30 days before Site Testing.
- See Attached explanation of the effect on soil gas survey results by grading operations.

Notes:

* Historical High Ground Water Table Elevation shall mean the highest recorded elevation of ground water table based on historical records and field investigations as determined by the engineer for the methane mitigation system.

** Design Methane Concentration shall mean the highest recorded measured methane concentration from either Shallow Soil Gas Test or any Gas Probe Set on the site.

*** Design Methane Pressure shall mean the highest total pressure measured from any Gas Probe Set on the site.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

FORM 1 (CONTINUED) - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

Part 2: Test Data - Shallow Soil Gas Test and Gas Probe Test
Site Address: John Burroughs Middle School, 600 South McCadden Place, Los Angeles, California 90005
Description of Gas Analysis Instrument(s):
Instrument Name and Model: Landtec GEM-2000 Plus Instrument Accuracy: ± 500 ppmv.
City of Los Angeles Testing License #: TA10069

Date	Time (Approx.)	Probe Set #	Concentration (ppmv)	Pressure (inches water column)	Probe Depth (feet)	Description / Probe Location
1/3/2017	8:10	Outdoor Air	0	0.0	Not applicable	Near M-14
1/16/2017	8:12	Outdoor Air	0	0.0	Not applicable	Near M-2
1/3/2017	13:55	M-1	0	0.0	5	SW Portion of Site
1/16/2017	8:25	M-1	0	0.0	5	SW Portion of Site
1/3/2017	14:00	M-1	15,000	0.0	15	SW Portion of Site
1/16/2017	8:30	M-1	1,000	0.0	15	SW Portion of Site
1/3/2017	13:50	M-2	Moisture. No Sample	0.0	5	SW Portion of Site
1/16/2017	8:15	M-2	0	0.0	5	SW Portion of Site
1/3/2017	13:52	M-2	No Flow	1.0	15	SW Portion of Site
1/16/2017	8:20	M-2	0	1.0	15	SW Portion of Site
1/3/2017	13:40	M-3	No Flow	1.0	5	West Portion of Site
1/16/2017	9:40	M-3	Moisture. No Sample	0.0	5	West Portion of Site
1/3/2017	13:42	M-3	Probe tip lost.	Not applicable	14.5	West Portion of Site
1/16/2017	9:48	M-3	Probe tip lost.	Not applicable	14.5	West Portion of Site
1/3/2017	13:45	M-4	No Flow	1.0	5	West Portion of Site
1/16/2017	15:20	M-4	No Flow	0.0	5	West Portion of Site
1/3/2017	13:48	M-4	No Flow	1.0	15	West Portion of Site
1/16/2017	15:30	M-4	0	0.0	15	West Portion of Site
1/3/2017	12:35	M-5	14,000	0.2	5	West Portion of Site
1/16/2017	12:40	M-5	0	0.0	5	West Portion of Site
1/3/2017	12:40	M-5	1,000	0.0	15	West Portion of Site
1/16/2017	12:50	M-5	0	0.2	15	West Portion of Site

TABLE 1 - DATA COLLECTION EQUIPMENT

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

FORM 1 (CONTINUED) - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

Part 2: Test Data - Shallow Soil Gas Test and Gas Probe Test

Site Address: John Burroughs Middle School, 600 South McCadden Place, Los Angeles, California 90005
Description of Gas Analysis Instrument(s):
Instrument Name and Model: Landtec GEM-2000 Plus Instrument Accuracy: ± 500 ppmv.
City of Los Angeles Testing License #: TA10069

Date	Time (Approx.)	Probe Set #	Concentration (ppmv)	Pressure (inches water column)	Probe Depth (feet)	Description / Probe Location
1/3/2017	11:40	M-6	0	0.0	5	NW Portion of Site
1/16/2017	13:58	M-6	0	0.0	5	NW Portion of Site
1/3/2017	11:55	M-6	0	0.0	11	NW Portion of Site
1/16/2017	14:05	M-6	No Flow	0.0	11	NW Portion of Site
1/3/2017	12:10	M-7	111,000	0.0	5	NW Portion of Site
1/16/2017	13:20	M-7	165,000	0.0	5	NW Portion of Site
1/16/2017	12:20	M-7	0	0.0	14.5	NW Portion of Site
1/3/2017	13:25	M-7	0	0.0	14.5	NW Portion of Site
1/3/2017	12:00	M-8	8,000	0.0	5	NW Portion of Site
1/16/2017	13:00	M-8	0	0.10	5	NW Portion of Site
1/3/2017	12:05	M-8	0	1.0	14.5	NW Portion of Site
1/16/2017	13:10	M-8	0	-0.02	14.5	NW Portion of Site
1/3/2017	12:45	M-9	0	0.0	5	West Portion of Site
1/16/2017	12:25	M-9	0	0.0	5	West Portion of Site
1/3/2017	12:45	M-9	Probe tip lost.	Not applicable	15	West Portion of Site
1/16/2017	12:30	M-9	0	0.0	15	West Portion of Site
1/3/2017	12:50	M-10	0	0.0	5	West Portion of Site
1/16/2017	12:10	M-10	0	0.0	5	West Portion of Site
1/3/2017	12:55	M-10	0	0.0	13	West Portion of Site
1/16/2017	12:20	M-10	0	0.0	13	West Portion of Site
1/3/2017	13:33	M-11	0	0.0	5	West Portion of Site
1/16/2017	9:55	M-11	0	0.0	5	West Portion of Site
1/3/2017	13:36	M-11	0	0.0	15	West Portion of Site
1/16/2017	10:00	M-11	0	0.0	15	West Portion of Site

TABLE 1 - DATA COLLECTION EQUIPMENT

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

FORM 1 (CONTINUED) - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

Part 2: Test Data - Shallow Soil Gas Test and Gas Probe Test

Site Address: John Burroughs Middle School, 600 South McCadden Place, Los Angeles, California 90005
Description of Gas Analysis Instrument(s):
Instrument Name and Model: Landtec GEM-2000 Plus Instrument Accuracy: ± 500 ppmv.
City of Los Angeles Testing License #: TA10069

Date	Time (Approx.)	Probe Set #	Concentration (ppmv)	Pressure (inches water column)	Probe Depth (feet)	Description / Probe Location
1/3/2017	14:10	M-12	0	0.0	5	South Portion of Site
1/16/2017	8:35	M-12	0	0.0	5	South Portion of Site
1/3/2017	14:15	M-12	No Flow	0.0	15	South Portion of Site
1/16/2017	8:40	M-12	No Flow	0.0	15	South Portion of Site
1/3/2017	14:50	M-13	0	0.1	5	South Portion of Site
1/16/2017	9:10	M-13	5,000	1.0	5	South Portion of Site
1/3/2017	15:00	M-13	No Flow	0.0	15	South Portion of Site
1/16/2017	9:20	M-13	No Flow	-0.02	15	South Portion of Site
1/3/2017	8:15	M-14	0	-0.2	5	East Portion of Site
1/16/2017	10:15	M-14	1,000	0.0	5	East Portion of Site
1/3/2017	8:20	M-14	187,000	0.0	15	East Portion of Site
1/16/2017	10:20	M-14	156,000	0.0	15	East Portion of Site
1/3/2017	13:20	M-15	0	0.0	5	East Portion of Site
1/16/2017	10:45	M-15	0	0.0	5	East Portion of Site
1/3/2017	13:22	M-15	94,000	0.0	15	East Portion of Site
1/16/2017	10:50	M-15	92,000	0.18	15	East Portion of Site
1/3/2017	13:10	M-16	No Flow	0.6	5	East Portion of Site
1/16/2017	11:00	M-16	No Flow	0.0	5	East Portion of Site
1/3/2017	13:15	M-16	No Flow	1.0	14.5	East Portion of Site
1/16/2017	11:08	M-16	No Flow	1.0	14.5	East Portion of Site
1/3/2017	12:25	M-17	488,000	0.0	5	North Portion of Site
1/16/2017	13:30	M-17	578,000	0.0	5	North Portion of Site
1/3/2017	12:30	M-17	No Flow	0.0	15	North Portion of Site
1/16/2017	13:45	M-17	No Flow	1.0	15	North Portion of Site

TABLE 1 - DATA COLLECTION EQUIPMENT

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

FORM 1 (CONTINUED) - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

Part 2: Test Data - Shallow Soil Gas Test and Gas Probe Test

Site Address: John Burroughs Middle School, 600 South McCadden Place, Los Angeles, California 90005
Description of Gas Analysis Instrument(s):
Instrument Name and Model: Landtec GEM-2000 Plus Instrument Accuracy: ± 500 ppmv.
City of Los Angeles Testing License #: TA10069

Date	Time (Approx.)	Probe Set #	Concentration (ppmv)	Pressure (inches water column)	Probe Depth (feet)	Description / Probe Location
1/3/2017	10:30	M-18	0	0.0	5	North Portion of Site
1/16/2017	14:10	M-18	No Flow	0.0	5	North Portion of Site
1/3/2017	10:40	M-18	No Flow	0.0	15	North Portion of Site
1/16/2017	14:15	M-18	1,000	0.0	15	North Portion of Site
1/3/2017	8:35	M-19	0	0.0	5	NE Portion of Site
1/16/2017	14:30	M-19	No Flow	0.0	5	NE Portion of Site
1/3/2017	8:40	M-19	0	0.0	15	NE Portion of Site
1/16/2017	14:35	M-19	No Flow	0.0	15	NE Portion of Site
1/3/2017	10:15	M-20	0	0.0	5	NE Portion of Site
1/16/2017	14:18	M-20	0	0.0	5	NE Portion of Site
1/3/2017	10:22	M-20	1,000	1.0	15	NE Portion of Site
1/16/2017	14:22	M-20	0	0.0	15	NE Portion of Site
1/3/2017	10:04	M-21	0	0.0	5	NE Portion of Site
1/16/2017	13:50	M-21	1,000	0.0	5	NE Portion of Site
1/3/2017	10:08	M-21	2,000	0.14	15	NE Portion of Site
1/16/2017	13:55	M-21	3,000	0.0	15	NE Portion of Site
1/3/2017	10:00	M-22	3,000	0.0	5	NE Portion of Site
1/16/2017	11:45	M-22	0	1.0	5	NE Portion of Site
1/3/2017	10:02	M-22	4,000	1.0	15	NE Portion of Site
1/16/2017	11:50	M-22	0	-0.02	15	NE Portion of Site
1/3/2017	13:00	M-23	0	0.0	5	East Portion of Site
1/16/2017	11:30	M-23	0	0.0	5	East Portion of Site
1/3/2017	13:05	M-23	0	0.0	15	East Portion of Site
1/16/2017	11:35	M-23	0	0.30	15	East Portion of Site

TABLE 1 - DATA COLLECTION EQUIPMENT

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

FORM 1 (CONTINUED) - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

Part 2: Test Data - Shallow Soil Gas Test and Gas Probe Test

Site Address: John Burroughs Middle School, 600 South McCadden Place, Los Angeles, California 90005
Description of Gas Analysis Instrument(s):
Instrument Name and Model: Landtec GEM-2000 Plus Instrument Accuracy: ± 500 ppmv.
City of Los Angeles Testing License #: TA10069

Date	Time (Approx.)	Probe Set #	Concentration (ppmv)	Pressure (inches water column)	Probe Depth (feet)	Description / Probe Location
1/3/2017	9:45	M-24	0	0.0	5	East Portion of Site
1/16/2017	11:20	M-24	1,000	0.0	5	East Portion of Site
1/3/2017	9:50	M-24	0	0.0	15	East Portion of Site
1/16/2017	11:25	M-24	217,000	0.8	15	East Portion of Site
1/3/2017	13:24	M-25	No Flow	0.0	5	East Portion of Site
1/16/2017	10:30	M-25	0	0.0	5	East Portion of Site
1/3/2017	13:26	M-25	No Flow	0.1	15	East Portion of Site
1/16/2017	13:35	M-25	0	0.0	15	East Portion of Site
1/3/2017	14:35	M-26	No Flow	1.0	5	SE Portion of Site
1/16/2017	9:00	M-26	No Flow	1.0	5	SE Portion of Site
1/3/2017	14:40	M-26	No Flow	1.0	15	SE Portion of Site
1/16/2017	9:05	M-26	No Flow	0.72	15	SE Portion of Site
1/3/2017	14:25	M-27	0	0.0	5	SE Portion of Site
1/16/2017	8:50	M-27	0	0.0	5	SE Portion of Site
1/3/2017	14:30	M-27	0	0.0	15	SE Portion of Site
1/16/2017	8:55	M-27	0	0.0	15	SE Portion of Site
1/3/2017	8:50	M-28	0	0.0	5	NE Portion of Site
1/16/2017	14:45	M-28	0	0.0	5	NE Portion of Site
1/3/2017	9:10	M-28	0	0.2	14.5	NE Portion of Site
1/16/2017	14:50	M-28	0	0.0	14.5	NE Portion of Site
1/3/2017	9:20	M-29	0	0.0	5	NE Portion of Site
1/16/2017	15:00	M-29	No Flow	0.0	5	NE Portion of Site
1/3/2017	9:25	M-29	0	0.0	15	NE Portion of Site
1/16/2017	15:10	M-29	No Flow	0.0	15	NE Portion of Site

TABLE 1 - DATA COLLECTION EQUIPMENT

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

FORM 1 (CONTINUED) - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

Part 2: Test Data - Shallow Soil Gas Test and Gas Probe Test

Site Address: John Burroughs Middle School, 600 South McCadden Place, Los Angeles, California 90005
Description of Gas Analysis Instrument(s):
Instrument Name and Model: Landtec GEM-2000 Plus Instrument Accuracy: ± 500 ppmv.
City of Los Angeles Testing License #: TA10069

Date	Time (Approx.)	Probe Set #	Concentration (ppmv)	Pressure (inches water column)	Probe Depth (feet)	Description / Probe Location
1/3/2017	13:28	M-30	0	0.0	5	SE Portion of Site
1/16/2017	9:32	M-30	No Flow	-0.02	5	SE Portion of Site
1/16/2017	13:30	M-30	No Flow	-0.02	9.5	SE Portion of Site
1/3/2017	9:36	M-30	No Flow	0.0	9.5	SE Portion of Site

TABLE 1 - DATA COLLECTION EQUIPMENT

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

APPENDIX G

PROUCL OUTPUT SPREADSHEETS

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.19/6/2017 2:42:32 PM
From File	Arsenic ProUCL.xls
Full Precision	OFF
Confidence Coefficient	95%
mber of Bootstrap Operations	2000

Arsenic

General Statistics

Total Number of Observations	326	Number of Distinct Observations	89
		Number of Missing Observations	11
Minimum	1	Mean	6.696
Maximum	82	Median	2.4
SD	13.03	Std. Error of Mean	0.722
Coefficient of Variation	1.946	Skewness	3.653

Normal GOF Test

Shapiro Wilk Test Statistic	0.44	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.362	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.0495	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	7.887	95% Adjusted-CLT UCL (Chen-1995)	8.039
		95% Modified-t UCL (Johnson-1978)	7.911

Gamma GOF Test

A-D Test Statistic	43.52	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.794	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.277	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.0522	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.816	k star (bias corrected MLE)	0.811
Theta hat (MLE)	8.202	Theta star (bias corrected MLE)	8.257
nu hat (MLE)	532.3	nu star (bias corrected)	528.7
MLE Mean (bias corrected)	6.696	MLE Sd (bias corrected)	7.436
		Approximate Chi Square Value (0.05)	476.4
Adjusted Level of Significance	0.0493	Adjusted Chi Square Value	476.2

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	7.431	95% Adjusted Gamma UCL (use when n<50)	7.435

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.78	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk P Value	0	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.187	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.0495	Data Not Lognormal at 5% Significance Level

56	**Data Not Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59					Minimum of Logged Data	0			Mean of logged Data	1.176		
60					Maximum of Logged Data	4.407			SD of logged Data	0.958		
61												
62	**Assuming Lognormal Distribution**											
63					95% H-UCL	5.733			90% Chebyshev (MVUE) UCL	6.099		
64					95% Chebyshev (MVUE) UCL	6.542			97.5% Chebyshev (MVUE) UCL	7.158		
65					99% Chebyshev (MVUE) UCL	8.366						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data do not follow a Discernible Distribution (0.05)**											
69												
70	**Nonparametric Distribution Free UCLs**											
71					95% CLT UCL	7.883			95% Jackknife UCL	7.887		
72					95% Standard Bootstrap UCL	7.849			95% Bootstrap-t UCL	8.023		
73					95% Hall's Bootstrap UCL	7.995			95% Percentile Bootstrap UCL	7.898		
74					95% BCA Bootstrap UCL	8.003						
75					90% Chebyshev(Mean, Sd) UCL	8.861			95% Chebyshev(Mean, Sd) UCL	9.842		
76					97.5% Chebyshev(Mean, Sd) UCL	11.2			99% Chebyshev(Mean, Sd) UCL	13.88		
77												
78	**Suggested UCL to Use**											
79					95% Chebyshev (Mean, Sd) UCL	9.842						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
85												

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.19/7/2017 6:52:22 PM
From File	Lead ProUCL.xls
Full Precision	OFF
Confidence Coefficient	95%
mber of Bootstrap Operations	2000

Lead

General Statistics

Total Number of Observations	521	Number of Distinct Observations	163
		Number of Missing Observations	0
Minimum	1.3	Mean	36.53
Maximum	2700	Median	11
SD	129.6	Std. Error of Mean	5.678
Coefficient of Variation	3.548	Skewness	17.13

Normal GOF Test

Shapiro Wilk Test Statistic	0.233	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.393	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.0392	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	45.89	95% Adjusted-CLT UCL (Chen-1995)	50.43
		95% Modified-t UCL (Johnson-1978)	46.6

Gamma GOF Test

A-D Test Statistic	1.919E+28	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.81	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.15	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.0419	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.626	k star (bias corrected MLE)	0.624
Theta hat (MLE)	58.32	Theta star (bias corrected MLE)	58.54
nu hat (MLE)	652.7	nu star (bias corrected)	650.3
MLE Mean (bias corrected)	36.53	MLE Sd (bias corrected)	46.24
		Approximate Chi Square Value (0.05)	592.1
Adjusted Level of Significance	0.0495	Adjusted Chi Square Value	592

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	40.12	95% Adjusted Gamma UCL (use when n<50)	40.13

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.944	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk P Value	0	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.0867	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.0392	Data Not Lognormal at 5% Significance Level

	A	B	C	D	E	F	G	H	I	J	K	L
56	**Data Not Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59	Minimum of Logged Data					0.262	Mean of logged Data					2.618
60	Maximum of Logged Data					7.901	SD of logged Data					1.256
61												
62	**Assuming Lognormal Distribution**											
63	95% H-UCL					34.3	90% Chebyshev (MVUE) UCL					36.69
64	95% Chebyshev (MVUE) UCL					39.68	97.5% Chebyshev (MVUE) UCL					43.83
65	99% Chebyshev (MVUE) UCL					51.97						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data do not follow a Discernible Distribution (0.05)**											
69												
70	**Nonparametric Distribution Free UCLs**											
71	95% CLT UCL					45.87	95% Jackknife UCL					45.89
72	95% Standard Bootstrap UCL					46.02	95% Bootstrap-t UCL					58.21
73	95% Hall's Bootstrap UCL					83.27	95% Percentile Bootstrap UCL					47.24
74	95% BCA Bootstrap UCL					51.08						
75	90% Chebyshev(Mean, Sd) UCL					53.57	95% Chebyshev(Mean, Sd) UCL					61.28
76	97.5% Chebyshev(Mean, Sd) UCL					71.99	99% Chebyshev(Mean, Sd) UCL					93.03
77												
78	**Suggested UCL to Use**											
79	95% Chebyshev (Mean, Sd) UCL					61.28						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
85												