



**Preliminary Environmental
Assessment Equivalent Report**

**McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, California**

**Converse Project No. 18-41-233-01
February 20, 2019**

Prepared For:

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

Prepared By:

**Converse Consultants
717 South Myrtle Avenue
Monrovia, California 91016**



Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

February 20, 2019

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

Attention: Mr. Eric Longenecker – Project Manager

Subject: Preliminary Environmental Assessment Equivalent Report
McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, California 90001
Converse Project No. 18-41-233-01

Mr. Longenecker:

CONVERSE CONSULTANTS (CONVERSE) is pleased to submit the attached report that summarizes the activities and the results of a Preliminary Environmental Assessment Equivalent that was conducted at the referenced property.

We appreciate the opportunity to be of service. Should you have any questions or comments regarding this report, please contact John Ziegler at (626) 930-1234 or Michael Van Fleet at (626) 930-1267.

CONVERSE CONSULTANTS

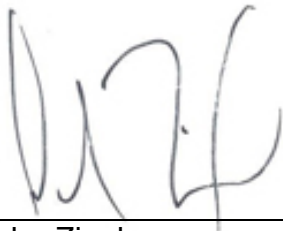
John Ziegler
Senior Professional

Michael Van Fleet, PG
Senior Geologist

Professional Certification

Property: McKinley Avenue Elementary School
7812 McKinley Avenue
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Converse Project No. 18-41-233-01

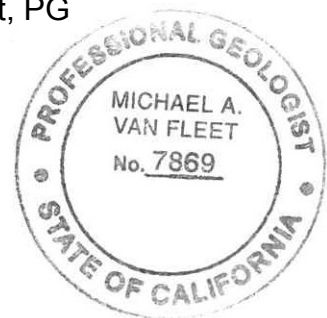
This Preliminary Environmental Assessment Equivalent (PEA-e) Report has been prepared by the staff of Converse Consultants (Converse) under the supervision of the Professional Geologist (PG) whose seal and signature appears below.



John Ziegler
Senior Professional



Michael Van Fleet, PG
Senior Geologist



Norman S. Eke
Managing Officer

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LIST OF ACRONYMS

ACM: Asbestos Containing Material	SCAQMD: South Coast Air Quality Management District
APN: Assessor's Parcel Number	STLC: Soluble Threshold Limit Concentration
ASTM: American Society for Testing and Materials	TCLP: Toxicity Characteristic Leaching Procedure
B(a)P: Benzo (a) Pyrene	TPH: Total Petroleum Hydrocarbons
bgs: below ground surface	TPHg: Total Petroleum Hydrocarbons modified for gasoline
COPCs: Chemicals of Potential Concern	TTLC: Total Threshold Limit Concentration
cPAHs: Carcinogenic Polynuclear Aromatic Hydrocarbons	UCL: Upper Confidence Limit
DTSC: Department of Toxic Substances Control	USA: Underground Service Alert
ELAP: Environmental Laboratory Accreditation Program	USGS: United States Geologic Survey
EPA: United States Environmental Protection Agency	UST: Underground Storage Tank
ESA: Environmental Site Assessment	VOCs: Volatile Organic Chemicals
HASP: Health and Safety Plan	ZIMAS: Zone Information Map Access System
HHSE: Human Health Screening Evaluation	
LBP: Lead-Based Paint	
LAUSD: Los Angeles Unified School District	
µg/kg: micrograms per kilogram	
mg/kg: milligrams per kilogram	
mg/l: milligrams per liter	
OCPs: Organochlorine Pesticides	
PAH: Polynuclear Aromatic Hydrocarbons	
PCBs: Polychlorinated Biphenyls	
PEA-e: Preliminary Endangerment Assessment-Equivalent	
PPE: Personal Protective Equipment	
PLM: Polarized Light Microscopy	
ppm: parts per million	
QA/QC: Quality Assurance and Quality Control	
REC: Recognized Environmental Condition	
RPD: Relative Percent Difference	
RSL: Regional Screening Level	



EXECUTIVE SUMMARY

The following is an Executive Summary of the Preliminary Environmental Assessment Equivalent (PEA-e) that was conducted by CONVERSE CONSULTANTS (CONVERSE). Please refer to the appropriate sections of the report for a complete discussion of these issues. In the event of a conflict between this Executive Summary and the report, or an omission in the Executive Summary, the report shall prevail.

This Preliminary Environmental Assessment Equivalent (PEA-e) Report presents the findings of the environmental investigation conducted at the McKinley Avenue Elementary School herein referred to as the Site.

The objectives of the PEA-e are to:

- Establish, through a field sampling and analysis program, the nature and extent of chemicals that may be present in soil and/or soil vapor as a result of onsite and offsite past practices and identifying Chemicals of Potential Concern (COPCs);
- Estimate the potential impacts to human health and/or the environment as a result of the COPCs detected at the Site using a residential land use scenario consistent with the Department of Toxic Substances Control's (DTSC's) PEA Guidance Manual.

A Phase I Environmental Site Assessment (ESA) dated July 2017 was prepared by Rincon Consultants, Inc. The Phase I ESA revealed evidence of the following potential Recognized Environmental Conditions (RECs) that could affect modernization of the school:

1. **Potential presence of organochlorine pesticides in onsite soils, especially around pre-1989 structures.** Based on the age of numerous existing and former school structures, as well as former residential structures located on the east side of the subject property, organochlorine pesticides, historically used as termiticides may be present in onsite soils.
2. **Potential presence of lead in soil adjacent to pre-1993 onsite structures.** Based on Rincon's review of historical sources, several buildings were constructed prior to 1993. Therefore, lead-based paint may have been used on the exterior of the buildings and may have impacted soil adjacent to the structures.
3. **Potential presence of arsenic-based herbicides beneath paved areas.** Since it was formerly a common practice for LAUSD to apply an arsenic-based



herbicide to soil immediately prior to paving with asphalt, arsenic may be present in the onsite soils located beneath the paved areas of the property.

4. **Potential presence of lead-based paint and asbestos in onsite structures.** Based on Rincon's review of historical sources, several existing buildings on the subject property were built prior to 1978. Although not considered a REC, pursuant to ASTM E 1527-13, school structures built prior to 1978 may contain lead based paint (LBP) and structures built prior to 1981 may contain asbestos containing materials (ACM). In addition, according to the DTSC, school structures built prior to 1993 may contain lead based paint (DTSC, 2006). Based on the age of several of the onsite structures, there is the potential that LBP and ACM were used during their construction.
5. **Potential Presence of Underground Storage Tank.** The Main Building (Administration and classrooms) has a boiler located in the basement. A historical drawing reviewed after the completion of the Phase I ESA indicates the location of the underground storage tank (UST) that formerly served this boiler. As the Fire Department has no record of UST removal for the Site this leaves two options: 1) the UST was removed prior to the Fire Department keeping records, or 2) the UST is still in place.

The purpose of South Coast Air Quality Management District Rule 1466. *Control of Particulate Emissions from Soils with Toxic Air Contaminants* (Rule 1466) is to reduce particulate emissions containing toxic air contaminants in the ambient air created as a result of earth-moving activities. Determining the applicability of this rule is completed through the collection and analyses of soil samples prior to the commencement of earth moving activities. The results of the testing to satisfy this rule are included in this document.

The scope of work for the PEA-e included the following:

- Field sampling and laboratory analysis in accordance with Sampling and Analysis Plan prepared by Converse.
- Field sampling and laboratory analysis to determine the applicability of Rule 1466.
- Assessment of the nature of hazardous wastes/substances that may be present in soil at the Site, their concentration and general extent.
- Investigation of the likely presence of absence of the UST that formerly served the boiler.
- Evaluation of the potential threat to public health and/or the environment posed by hazardous constituents detected at the Site using a residential land use scenario consistent with the PEA Guidance Manual.



- Preparation of this PEA-e Report.

The results of the geophysical survey around the boring location chosen to represent the UST location (UST 1) did not exhibit any signs of a UST still being present.

Converse observed standard Environmental Protection Agency (EPA) sample collection and handling protocol including chain-of-custody control.

Soil matrix samples were analyzed in general accordance with one or more of the following EPA test methods:

- Method 6020 – Arsenic
- Method 6010B – Lead
- Method 8081 – Organochlorine pesticides (OCPs)
- Method 8082 – Polychlorinated biphenyl (PCBs)
- Method 8310 – Polynuclear aromatic hydrocarbons (PAHs)
- Method 8015M – Total Petroleum Hydrocarbons (TPH) carbon chain analysis
- Method 8260 – Volatile Organic Compounds (VOCs)
- Asbestos by Polarized Light Microscopy (PLM)

The following is a summary of the findings for the soil matrix samples collected as part of this investigation.

- Arsenic was reported in all 90 soil samples analyzed at a maximum concentration of 77.6 milligrams per kilogram (mg/kg). Arsenic was reported in excess of the screening level of 12 mg/kg in 12 of the 90 samples analyzed, all from the 0.5-foot depth. A 95% upper confidence limit (95UCL) concentration of 11.66 mg/kg was calculated for the total dataset. This is less than the screening level of 12 mg/kg.
- Lead was reported in 47 of the 52 samples analyzed at a maximum concentration of 114 mg/kg. Lead was reported in one sample in excess of the screening level for lead of 80 mg/kg. The 95UCL concentration for the dataset was 32.58 mg/kg. This is less than the screening level of 80 mg/kg.
- Three (3) OCP compounds were reported, Chlordane, DDE and DDT. These compounds were reported at maximum concentrations of 5.65, 5.73, and 6.99 micrograms per kilogram ($\mu\text{g}/\text{kg}$), respectively. All of these reported OCP concentrations are less than the screening levels for a residential land use of 440, 2,000 and 1,900 $\mu\text{g}/\text{kg}$ for chlordane, DDE and DDT, respectively.
- Three (3) PAHs, fluoranthene phenanthrene and pyrene, were reported in samples PG-1 and PP-3. The maximum reported concentrations of each PAH are less than the screening levels for a residential land use. Additionally, four (4) carcinogenic PAHs (cPAHs) were reported, which were evaluated based on their benzo(a)pyrene toxicity equivalent. The maximum calculated B(a)P equivalent of 0.09544 mg/kg is



less than the residential land use regional screening level (RSL) for benzo(a) pyrene of 0.11 mg/kg.

- No PCBs were reported in the samples analyzed for PCBs.
- No TPH or VOCs were reported in soil samples collected and analyzed from the location of the former UST.
- No asbestos was reported in the samples analyzed for asbestos.

Based on the results of the evaluation of the soil samples analyzed and the comparison to the screening levels, no further human health screening was conducted. In addition, the soil does not contain any toxic chemicals that would warrant restricting earth-moving activities in conformance to Rule 1466

Based on the results of the sampling, no further investigation is necessary. The Site is suitable for the contemplated comprehensive modernization project without any soil remediation.



1.0 INTRODUCTION

This Preliminary Environmental Assessment Equivalent (PEA-e) Report presents the findings of the environmental investigation conducted at McKinley Avenue Elementary School, herein referred to as the Site.

For due diligence purposes, the Los Angeles Unified School District (LAUSD) had a *Phase I Environmental Site Assessment* (ESA) prepared for the Site by Rincon Consultants, Inc. (Rincon), dated July 28, 2017. The Phase I ESA recommended further investigation. The recommendations for further investigations were outlined in a *Sampling and Analysis Plan* prepared by Converse. A summary of the sampling plan is presented in **Appendix A**.

The purpose of South Coast Air Quality Management District Rule 1466. *Control of Particulate Emissions from Soils with Toxic Air Contaminants* (Rule 1466) is to reduce particulate emissions containing toxic air contaminants in the ambient air created as a result of earth-moving activities. Paragraph (C)(15) of Rule 1466 identifies the contaminants of concerns for this rule. Determining the applicability of this rule is completed through the collection and analyses of soil samples prior to the commencement of earth-moving activities. The results of the testing to satisfy Rule 1466 are included in this document.

The Project is part of a comprehensive modernization effort being implemented by LAUSD. Based on our review of the project scope dated December 11, 2018, provided by the LAUSD, the Project includes the removal of the following on the McKinley Elementary property (Indicates Building number from Figure 3 of this document):

- The assembly/classroom building (2),
- The admin/classroom building (3),
- The kindergarten (4, 5).
- Six portable buildings (7, 9, 11, and 12
- One portable restroom building (N/A),
- Existing underground utilities (as required), and
- Asphalt paved playground and parking areas.

The Project includes the construction of the following:

New Buildings

- Classroom Buildings with 32 classrooms
- Administration / Library
- Multi-Purpose Room
- Maintenance & Operations Suite (excluding storage for M&O outdoor equipment)



Site

- Infrastructure upgrade
- New landscaping / paving
- New parking
- New Kindergarten playground, turf field, play structure
- New Elementary (Grades 1-6) playground, turf field, play structure
- New campus wide fire alarm system with voice evacuation
- IP convergence
- Barrier removal upgrades

The purpose of this PEA-e is to identify if any environmental issues will need to be mitigated either prior to or during the above construction effort.

1.1 PEA-e Objectives

The objectives of the PEA-e are to:

- Establish, through a field sampling and analysis program, the nature and extent of chemicals that may be present in soil and/or soil vapor as a result of onsite and offsite past practices and identifying Chemicals of Potential Concern (COPCs);
- Estimate the potential impacts to human health and/or the environment as a result of the COPCs detected at the Site using a residential land use scenario consistent with the Department of Toxic Substances Control's (DTSC's) PEA Guidance Manual.

1.2 Scope of Work

The scope of work for the PEA-e included the following:

- Field sampling and laboratory analysis in accordance with Sampling and Analysis Plan prepared by Converse.
- Field sampling and laboratory analysis to determine the applicability of Rule 1466.
- Assessment of the nature of hazardous wastes/substances that may be present in soil at the Site, their concentration and general extent.
- Investigation of the likely presence of absence of the UST that formerly served the boiler.



- Evaluation of the potential threat to public health and/or the environment posed by hazardous constituents detected at the Site using a residential land use scenario consistent with the PEA guidance Manual.
- Preparation of this PEA-e Report.

1.3 Organization of Report

This PEA-e Report is organized as follows:

- Section 1.0 Presents an introduction and the rationale for performing the PEA-e, and the general scope of work.
- Section 2.0 Site Description. Provides specific details about the Site and surrounding areas.
- Section 3.0 Discusses the environmental setting;
- Section 4.0 Discusses the Phase I ESA
- Section 5.0 Describes the sampling activities and results;
- Section 6.0 Presents the human health screening evaluation;
- Section 7.0 Presents the conclusions and recommendations;
- Section 8.0 Discusses the limitations of this PEA-e Report.
- Section 9.0 Presents the References.

1.4 Public Participation

A Public Notice regarding the planned field activities was distributed at least seventy-two hours prior to the implementation of the PEA-e field activities. The Public Notice was prepared in accordance with the LAUSD guidelines and hand delivered to the tenants and residents within the line-of-sight of the school, faculty in-boxes, and on the counter in the administrative office. Additionally, the notice was posted adjacent to the sidewalk in the approximate middle of each of the four (4) sides of the school. The purpose of the Public Notice was to inform the community of the environmental investigation that was going to occur at the Site. The Public Notice was provided in both English and Spanish. Copies of the Public Notices along with a photograph of one of the posted locations are provided in **Appendix B**.



2.0 SITE DESCRIPTION

2.1 Site Identification

The McKinley Avenue Elementary School is located at 7812 McKinley Avenue in the City of Los Angeles. The property is an approximately 4.22-acre parcel and is made up of one city block and is located west of Wadsworth Avenue, south of East 78th Street, and north of East 79th Street, on the east side of McKinley Avenue. The Site is currently owned by the LAUSD (Zimas, 2017). A Site location map is included as **Figure 1**.

The school property has the following assessor parcel number (APN), as designated by the Los Angeles County Office of the Assessor:

6023-030 902

2.2 Background/Prior Assessments/Investigations

Background information has been derived from the Rincon Consultants, Inc Phase I ESA report, dated July 28, 2017. See Section 4 below for a summary of the Phase I ESA findings. No other prior assessment or investigation reports were provided.

2.2.1 Description of Property Structure(s) and Other Features

The Site is currently operated by LAUSD as McKinley Avenue Elementary School.

The school consists of a 2-story main building including an auditorium and partial basement, a second two story building (Hubert Hall), cafeteria, and multiple portable structures. Access to the property is available on McKinley Avenue and a driveway on East 78th Street. A current Site plan is included as **Figure 2**.

The adjacent properties are primarily used for residential purposes, with some commercial properties.

2.2.2 Historical Land Uses

The subject property appeared to be undeveloped up until at least 1928. According to the 1928 aerial photograph, the western portion of the subject property appears to be occupied by school structures (along McKinley Avenue) with a central playground area behind the school buildings. The eastern portion of the subject property appears to be occupied by residential dwellings. According to the 1950 Sanborn Map, the western portion of the subject property is occupied by the main school building along McKinley Avenue, a kindergarten, an auditorium structure (indicated as built in 1929 and rebuilt in 1936), a lunch shed, and classrooms while the eastern portion of the subject property

consists of multiple parcels occupied by dwellings, some with detached auto garages. By 1963, the eastern portion of the subject property is no longer occupied by residential dwellings. According to the 1969 Sanborn Map, the 79th Street School (modern day McKinley Elementary) consists of the main school building along McKinley Avenue, the original kindergarten building, an additional kindergarten building (indicated as built in 1962), an auditorium structure (indicated as built in 1929 and rebuilt in 1936), a cafeteria building, several classroom buildings (indicated as built in 1959 and 1963), and a large playground. With the exception of a few added and removed small structures or sheds, the subject property generally remains unchanged from 1969 through 1994. By 2002, five additional classroom structures have been constructed on the eastern half of the subject property along East 78th Street. By 2012, the two easternmost structures have been removed from the subject property. In general, the subject property configuration does not change through from 2012 through present-day.



3.0 ENVIRONMENTAL SETTING

The following sections provide information regarding the potential exposure pathways.

3.1 Topography

The current United States Geological Survey topographic map (Inglewood Quadrangle, 2012) indicates that the subject property is situated at an elevation of approximately 140 feet above mean sea level. The subject property and adjacent properties are generally flat. The site is approximately 1.2-miles east of the 110 freeway and approximately ½ mile south of Florence Avenue.

3.2 Geology

According to the Geologic Map of the Venice and Inglewood Quadrangles, California (2007), the subject property is underlain by Quaternary-age alluvium described as “alluvial gravel, sand, and clay, derived mostly from Santa Monica Mountains; includes gravel and sand of minor stream channels.”

The soil types encountered beneath the Site were generally sand, brown, very fine to fine grained with minor silts, well sorted and slightly moist in the upper three feet. A copy of the boring logs are presented in **Appendix C**.

3.3 Hydrogeology

According to the California Groundwater Bulletin 118, the subject property is located within the Coastal Plain of Los Angeles Groundwater Basin, Central Subbasin (4-11.01). According to Bulletin 118, *“This subbasin is commonly referred to as the “Central Basin” and is bounded on the north by a surface divide called the La Brea high, and on the northeast and east by emergent less permeable Tertiary rocks of the Elysian, Repetto, Merced and Puente Hills. The southeast boundary between Central Basin and Orange County Groundwater Basin roughly follows Coyote Creek, which is a regional drainage province boundary. The southwest boundary is formed by the Newport Inglewood fault system and the associated folded rocks of the Newport Inglewood uplift. The Los Angeles and San Gabriel Rivers drain inland basins and pass across the surface of the Central Basin on their way to the Pacific Ocean.”*

During the preparation of the Phase I ESA by Rincon, Rincon reviewed the California State Water Resources Control Board’s online GeoTracker database to determine groundwater flow direction in the vicinity of the subject property. According to a Case Closure Summary (June 2013) for the World Oil Marketing Co. Station No. 2 site at 1101 East Florence Avenue, located approximately 2,500-feet north-northeast of the



subject property, the depth to groundwater recorded was between 95 and 99 feet below ground surface (bgs). Flow direction was measured to vary towards the south, southeast and southwest.

Groundwater levels beneath the Site are subject to seasonal and long-term variations and fluctuations resulting from channel flows, groundwater spreading, recharge and pumping activities within the Central Groundwater Basin.

3.4 Surface Water Pathway

There are no surface waters bodies on the Site. The nearest surface water body is the Los Angeles River, located approximately 5.1-miles east of the Site. Therefore, it is unreasonable to suspect a release or threatened release of hazardous substances to surface waters has occurred from the Site.



4.0 PHASE I ESA

A Phase I ESA report dated July 28, 2017 was prepared by Rincon Consultants, Inc. The phase I ESA revealed evidence of the following potential Recognized Environmental Conditions (RECs) that could affect modernization of the school:

1. **Potential presence of organochlorine pesticides in onsite soils, especially around pre-1989 structures.** Based on the age of numerous existing and former school structures, as well as former residential structures located on the east side of the subject property, organochlorine pesticides, historically used as termiticides may be present in onsite soils.
2. **Potential presence of lead in soil adjacent to pre-1993 onsite structures.** Based on Rincon's review of historical sources, several buildings were constructed prior to 1993. Therefore, lead-based paint may have been used on the exterior of the buildings and may have impacted soil adjacent to the structures.
3. **Potential presence of arsenic-based herbicides beneath paved areas.** Since it was formerly a common practice for LAUSD to apply an arsenic-based herbicide to soil immediately prior to paving with asphalt, arsenic may be present in the onsite soils located beneath the paved areas of the property.
4. **Potential presence of lead-based paint and asbestos in onsite structures.** Based on Rincon's review of historical sources, several existing buildings on the subject property were built prior to 1978. Although not considered a REC, pursuant to ASTM E 1527-13, school structures built prior to 1978 may contain lead based paint (LBP) and structures built prior to 1981 may contain asbestos containing materials (ACM). In addition, according to the DTSC, school structures built prior to 1993 may contain LBP (DTSC, 2006). Based on the age of several of the onsite structures, there is the potential that LBP and ACM were used during their construction.
5. **Potential Presence of Underground Storage Tank.** The Main Building (Administration and classrooms) has a boiler located in the basement. A historical drawing reviewed after the completion of the Phase I ESA indicates the location of the underground storage tank (UST) that formerly served this boiler. As the Fire Department has no record of UST removal for the Site this leaves two options: 1) the UST was removed prior to the Fire Department keeping records, or 2) the UST is still in place.



5.0 SAMPLING ACTIVITIES AND RESULTS

5.1 Summary of Activities

5.1.1 Utility Clearance

Prior to commencement of field activities, Underground Service Alert (USA) was notified of our investigation on the Site. Proposed locations of subsurface tasks were marked with paint for clearance by USA. In addition, boring locations were also cleared prior to drilling by conducting a geophysical survey of the boring locations. Special attention was paid above the area where a UST was previously identified and no indications that the tank was present were observed. The boring clearance was conducted by Spectrum Geophysics on December 23 and 26, 2018.

5.1.2 Measures Taken to Prevent Direct Contact with Hazardous Substances in or on the Soil at the Site

Field activities were conducted in accordance with the guidelines outlined in the *Health and Safety Plan* (HASP), prepared by Converse and dated December 2018.

5.1.3 Soil Matrix Samples

On December 26, 27 and 28, 2018, soil samples were collected from 77 locations within the area of the proposed improvements. See **Figures 3 through 7** for the boring locations. One (1) boring, UST 1, was advanced to 15-foot bgs to evaluate the soil in the area of a former UST. Soil samples were collected from this boring at 5-foot intervals for analysis, lithologic evaluation and field screening. The remaining borings were advanced to 3 feet bgs with soil samples collected at depths of 0 to 0.5, 1 to 1.5 and 2.5 to 3.0 feet bgs. Fifteen (15) of the borings were advanced using a hand auger due to the proximity of subsurface utilities or locations that could not be accessed with the limited access rig, and the remainder were advanced using a direct-push (Geoprobe) drill rig operated by Interphase Environmental. Soil samples were collected either in 4-ounce glass jars or in acetate sleeves. Samples collected for analysis of volatile constituents were collected in accordance EPA Method 5035 using encore samplers.

Surface cover (asphalt or concrete) was cored and removed to expose the soil prior to drilling. Upon retrieval from the boring, the acetate sleeves containing the retrieved soil core were cut at the appropriate sample intervals and the sleeves were sealed with Teflon and capped with polyethylene caps, labeled, and placed on ice for transport to a California-certified laboratory. Converse observed standard EPA sample collection and handling protocol including chain-of-custody control.



All borings were filled with inert material to match the surrounding surface (i.e. clean sand for soil or a minimum of three [3] inches of compacted cold-patch asphalt if AC, or four [4] inches of concrete if concrete). Soil was generally sent to the laboratory for off-site actual or potential analyses and no drums of soil were created as part of this investigation.

5.1.4 Groundwater Sampling

Groundwater was not identified as a medium of concern based on the depth to groundwater and the lack of a direct exposure pathway, and was therefore not sampled during this investigation.

5.1.5 Background Sampling

Based on the analyses proposed, background sampling was not deemed necessary.

5.1.6 Soil Sample Analysis

All soil samples (except the samples to be analyzed for asbestos) were delivered under chain-of-custody documentation to American Environmental Testing Laboratories in Burbank, an analytical laboratory that participates in the California State Environmental Laboratory Accreditation Program, (ELAP), for potential analysis. EMSL Analytical, Inc. (dba LA Testing) in South Pasadena, also a participant in ELAP, analyzed select soil samples for asbestos. The proposed rationale for analysis of soil matrix samples is presented in **Appendix A**.

Soil matrix samples were analyzed in general accordance with one or more of the following EPA test methods:

- Method 6020 – Arsenic
- Method 6010B – Lead
- Method 8081 – Organochlorine pesticides (OCPs)
- Method 8082 – Polychlorinated biphenyl (PCBs)
- Method 8310 – Polynuclear aromatic hydrocarbons (PAHs)
- Method 8015M – Total Petroleum Hydrocarbons (TPH) carbon chain analysis
- Method 8260 – Volatile Organic Compounds (VOCs)
- Asbestos by Polarized Light Microscopy (PLM)

Soil samples not initially analyzed were archived by the laboratory.

5.1.6.1 Arsenic and Lead

Eighty-four soil samples (77 primary and 7 duplicates) collected from the 0.5 to 1.0-foot depth were initially analyzed for arsenic in accordance with EPA Method 6020. Upon receipt of the results an additional six (6) samples from the 2-foot and 3-foot depths were analyzed for arsenic.

Fifty-two soil samples (45 primary and 7 duplicates) collected from the 0.5 to 1-foot depth were analyzed for lead in accordance with EPA Method 6010. No further analysis for lead was required.

5.1.6.2 OCPs

Soil samples collected from 0.5 to 1.0-foot depth at 45 locations were analyzed for OCPs. Soil samples were composited into 13 composite samples by the laboratory and analyzed for OCPs in accordance with EPA Method 8081.

5.1.6.3 PCBs

Eight (8) soil samples collected from the 0.5 to 1.0-foot depth were analyzed for PCBs in accordance with EPA Method 8081.

5.1.6.4 PAHs

Six (6) soil samples collected from the 0.5 to 1.0-foot depth were analyzed for PAHs in accordance with EPA Method 8310.

5.1.6.5 TPH and VOCs

Soil samples collected from the 5, 10 and 15-foot depths at the location of the former UST were analyzed for TPH carbon chain analysis in accordance with EPA Method 8015m. The sample from the 10-foot depth was analyzed for VOCs in accordance with EPA Method 8260.

5.1.6.6 Asbestos

Fifteen (15) soil samples collected from the 0.5 to 1.0-foot depth were analyzed for asbestos using PLM.

5.2 Field Variances

Minor variances to the sampling and analysis plan consisted of the relocation of several boring locations due to the detection of subsurface features during the geophysical survey.

Three (3) locations, S10, PG22 and PG23, were not advanced due to the presence of utilities and limited access behind buildings 11 and 12.

Twelve (12) locations at Building S1 and S8 (see Figure 3 for locations) were deleted from the scope due to revisions in the modernization plan.

5.3 Summary and Discussion of Analytical Results

The following sections describe the results of the analytical testing performed at the fixed laboratory. Copies of the laboratory analytical reports are included in **Appendix D**.

5.3.1 Soil Matrix Sample Results

The rationale for soil matrix sample analysis is presented in **Appendix A**. The locations of the soil borings and its associated analytical results are presented on **Figures 3 through 6**. A summary of the analytical results of the soil matrix samples are presented in **Tables 1 through 6**.

5.3.1.1 Lead

Lead was reported in 47 of the 52 soil samples analyzed for lead. Lead was reported in one sample (DUP1 a duplicate of S12-2-0.5) in excess of the screening level for lead of 80 mg/kg. All other concentrations were reported at concentrations less than the screening level. Concentrations ranged from non-detect to 114 mg/kg.

Using the comprehensive statistical software package ProUCL (initially developed by EPA for computing statistical intervals to respond to concerns at specific Superfund sites) the 95 percent upper confidence limit (95UCL) for the lead samples was calculated to be 32.58 mg/kg. This is less than the screening level for lead of 80 mg/kg. Please see **Table 1** and **Figures 4 through 7** for a summary of analytical results for lead. A copy of the UCL calculations are provided in **Appendix E**.

5.3.1.2 Arsenic

Arsenic was reported in all 90 soil samples analyzed for arsenic (77 primary, 7 duplicates and 6 deeper samples). Arsenic was reported at a maximum concentration

of 77.6 mg/kg at location PG-1 at 0.5-feet. Arsenic was reported in excess of the screening level of 12 mg/kg in eight (8) of the 90-samples analyzed. Exceedances ranged from 13.3 mg/kg to 77.6 mg/kg.

At the locations where the maximum arsenic concentrations were reported (PG-1, PG-3, and PG-13, 77.6 to 52.8 mg/kg) the samples collected from the 2.0 and 3.0-foot depths were subsequently analyzed for arsenic. Concentrations reported from these locations were less than the screening level of 12 mg/kg (0.695 mg/kg to 8.34 mg/kg). Using the ProUCL software a 95% upper confidence limit (95UCL) was calculated, the 95UCL for the arsenic samples was calculated to be 11.6 mg/kg, and this is less than the southern California background level of 12 mg/kg. A copy of the UCL calculations are provided in **Appendix E**.

The highest arsenic total threshold limit concentration (TTLC) encountered during this investigation was greater than 10 times the allowable soluble threshold limit concentration (STLC) of 5.0 milligrams per liter (mg/L or parts per million [ppm]): 77.6 ppm versus 50 ppm. A STLC concentrations for arsenic above 5 mg/L defines a waste as hazardous in California. When this sample was analyzed a STLC of 1.36 mg/L was reported for sample PG-1-0.5.

The Resource Conservation and Recovery Act states that waste with an arsenic concentration above 5.0 mg/L after the Toxicity Characteristic Leaching Procedure (TCLP) is considered hazardous by the EPA. As the highest TTLC for arsenic was less than 20 times the allowable concentration after the TCLP (77.6 ppm versus 100 ppm) a TCLP analyses was not requested or required.

Please see **Table 1** and **Figures 4 through 7** for a summary of the analytical results for arsenic.

5.3.1.3 OCPs

Three (3) OCPs, chlordane, DDE and DDT were reported in composite samples analyzed for OCPs (Comp 2.2-0.5, Comp 3.2-0.5 and Comp 7.2 -0.5) at a depth of 0.5 feet. Chlordane was reported in all three samples at concentrations ranging from an estimated concentration of 1.11 micrograms per kilogram ($\mu\text{g}/\text{kg}$) to an estimated concentration of 5.65 $\mu\text{g}/\text{kg}$. This is less than the screening level 440 $\mu\text{g}/\text{kg}$. DDE and DDT were reported in one sample (Comp7.2-0.5) at estimated concentrations of 5.73 $\mu\text{g}/\text{kg}$ and 6.99 $\mu\text{g}/\text{kg}$ respectively. This is less than the screening level of 2,000 $\mu\text{g}/\text{kg}$. and 1,900 $\mu\text{g}/\text{kg}$ respectively. No OCPs were reported in any of the other samples analyzed. Please see **Table 2** and **Figure 3** for a summary of the analytical results for OCPs.

5.3.1.4 PCBs

PCBs were reported as non-detect in each of the samples analyzed. A summary of the results for PCBs is presented in **Table 3**.

5.3.1.5 PAHs

PAHs were reported in samples PG-1 and PP-3. Three (3) PAHs, fluoranthene phenanthrene and pyrene, were reported at concentrations less than their respective residential screening levels. The screening level for pyrene was used as surrogate for phenanthrene which does not have a published screening level.

Four (4) carcinogenic PAHs (cPAHs) were reported. Their maximum concentrations and residential screening levels are:

	Detections	Maximum Concentration	Screening Level
Benzo(a)pyrene	2	0.0835	0.11
Benzo(b)fluoranthene	1	0.0562	1.1
Benzo(k)fluoranthene	1	0.0357	11
chrysene	1	0.0344	110
B(a)P Equivalent		0.0954	0.11

Screening levels from November 2018 EPA regional screening levels (RSLs)

A benzo(a)pyrene toxicity equivalent (B(a)P Equivalent) was calculated for the cPAHs using a toxicity equivalent factor (TEF) approach. TEFs are based on shared characteristics that can be used to rank the class of chemicals by carcinogenic potency. The ranking is accomplished by referencing the chemical to the characteristics and potency of benzo (a) pyrene, which is often used as the reference chemical for expressing the carcinogenic potency of the other cPAHs.

The TEF for the 6 cPAHs are listed below:

cPAH	TEFs
Benzo(a)anthracene	0.1
Benzo(a)pyrene	1.0
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.1
Chrysene	0.01
Indeno(1,2,3-cd)pyrene	0.1

The total B(a)P equivalent for an individual soil sample is calculated by multiplying the reported concentration by its TEF. The adjusted concentrations are then added together for the total B(a)P concentration. For samples in which the reported concentration is non detect, ½ the method detection limit is used to calculate the B(a)P equivalent.

The B(a)P equivalent is then compared to the screening level for benzo(a) pyrene. The maximum calculated B(a)P equivalent of 0.09544 mg/kg is less than the RSL for residential land use of 0.11 mg/kg.

A summary of the PAH analyses is presented in **Table 4**.

5.3.1.6 UST Sampling

Soil samples collected from the area of the former UST were analyzed for TPH and VOCs. Concentrations of TPH and VOCs were reported as non-detect in the samples analyzed. A summary of the results for UST Sampling is presented in **Table 5**.

5.3.1.7 Asbestos

All soil samples analyzed for asbestos reported non-detect. A summary of the asbestos sampling is presented in **Table 6**.

5.4 Quality Assurance and Quality Control

During this PEA-e investigation, a variety of data was collected. Each sample collected was analyzed for a number of different constituents, depending on the rationale for sample collection. However, not all chemicals detected can be attributable to an on-site release and not all of the data is of equal quality. Data collected has been evaluated to determine which of the chemicals identified are likely to be Site-related and to assess whether the reported concentrations for these chemicals are of acceptable quality for use in the screening evaluation. Following is a discussion of the evaluations conducted.

5.4.1 Evaluation of Analytical Methods

Analyses selected for each sample have been deemed appropriate based on the rationale and ability of the method to provide data for use in the screening evaluation.

Soil samples were collected under the supervision of a California-registered Professional Geologist. Sample locations were verified prior to collection. All sampling and drilling equipment was decontaminated between uses to avoid cross contamination between probes/borings and samples. Once soil samples were collected, they were labeled, logged, and placed on ice for transport to the analytical laboratory.

Laboratory quality control procedures included the preparation of matrix spikes and matrix spike duplicates, laboratory control spikes and laboratory control spike duplicates. Recovery for all matrix and laboratory spikes was within acceptable parameters. A statement, certifying that all analytical work was in accordance with the published QA/QC procedures and signed by the laboratory QA/QC manager, is included as part of the analytical results.

5.4.2 Evaluation of Detection Limits

Detection limits associated with the analytical data were reviewed before eliminating chemicals because they were not detected. Laboratory method detection limits are included on the summary tables. All detection limits were less than the screening levels for the constituents of concern.

5.4.3 Evaluation of Qualified Data

For analytical results, various qualifiers pertaining to the quality of the data are attached to certain data by either the laboratories conducting the analysis or by persons conducting the data evaluation. No qualifications of concern were noted.

5.4.4 Data Quality Objectives

This project has incorporated, certain specified protocols to document the quality of the data collected during this investigation. Soil samples were collected in compliance with U.S. EPA SW-846. The laboratory detection limits are indicated in the summary Tables for the analytical methods utilized. The objectives of precision, accuracy, completeness, representativeness and comparability typically define the data quality. The use of these Data Quality Objectives for school study sites, including the Site, is to produce data that are suitable for use for a PEA-e risk screening evaluation.

Precision is the degree of agreement between independent measurements. Precision can be evaluated through the use of duplicate samples. During this investigation approximately ten percent (10%) duplicate samples were analyzed. Precision between duplicate or co-located soil samples can vary due to the inherent heterogeneity of soil. The duplicate samples collected were in general conformance with the primary samples collected. Samples in which the duplicate samples indicated a greater concentration than the primary sample; the greater concentration was used in evaluating the Site.

Evaluation of the duplicate sample data reveals that the duplicate samples collected were in general conformance with the primary samples collected. The calculated Relative Percent Difference (RPD) for the duplicate samples was less than 100 with exception of two samples for arsenic.

Samples in which the RPD exceeds 100 are considered estimated. While the results are considered estimated, the results are valid as usable data. An evaluation of the RPDs for the duplicate samples analyzed for arsenic and lead is presented on **Table 2**.

Accuracy is the degree of agreement of a measured value with true or expected value. Accuracy can be measured using percent recovery data in the laboratory using spiked concentrations. In cases where the percent recovery exceeded the acceptable range, other QA/QC procedures such as laboratory control spike and surrogates were used to validate the data. Samples in which the RPD exceeds 100 are considered estimated. While the results are considered estimated, the results are valid as usable data. All soil sample results were within acceptable parameters for accuracy.

Completeness is the percent of measurements made which are judged to be valid. Completeness can be measured by dividing the number of samples that are judged to be valid by the number of total samples. Based upon the data reviewed all samples were judged to be useable for the intended purpose.

Representativeness is the degree to which the sample data represent the characteristics of a population. Representativeness is a qualitative parameter that addresses the design of the sampling program. An example of representativeness is to evaluate if the number and locations of samples are sufficient for the purposes of this assessment. The degree to which representativeness is achieved will be evaluated upon review of the data and will be used to determine whether additional investigation is required. Based upon the objectives of this investigation the Site appears to be adequately assessed.

Comparability is a qualitative parameter that evaluates the confidence with which one data set can be compared to another. Comparability can be enhanced by using standard analytical methods performed by certified laboratories. Standard EPA analytical methods performed by analytical laboratories that participate in the California State ELAP were utilized in this investigation. Evaluation of the data collected during this investigation indicates that the level of confidence of the compared data sets is acceptable.

6.0 HUMAN HEALTH SCREENING EVALUATION

6.1 Chemicals of Concern

6.1.1 Lead

Lead was reported in 47 of the 52 samples analyzed at a maximum concentration of 114 mg/kg. Lead was reported in one sample in excess of the screening level for lead of 80 mg/kg. The calculated 95UCL concentration of lead of 32.58 mg/kg is less than the screening level of 80 mg/kg.

6.1.2 Arsenic

Arsenic was reported in all 90 soil samples analyzed at a maximum concentration of 77.6 mg/kg. Arsenic was reported in excess of the screening level of 12 mg/kg in 12 of the 90 samples analyzed, all from the 0.5-foot depth. The calculated 95UCL concentration of 11.36 mg/kg is less than the southern California background level of 12 mg/kg.

6.1.3 OCPS

Three (3) OCP compounds were reported, Chlordane, DDE and DDT. All were reported at maximum concentrations between 5.65 and 6.99 µg/kg, which are less than the screening levels for a residential land use of 440, 2,000 and 1,900 µg/kg for chlordane, DDE and DDT, respectively.

6.1.4 PCBs

No PCBs were reported in the samples analyzed for PCBs.

6.1.5 PAHs

Three (3) PAHs and 4 CPAHS were reported. All were reported at concentrations less than their respective screening levels as well as the southern California background.

6.1.6 TPH and VOCs

No TPH and VOCs were reported in the samples analyzed for TPH and VOCs.

6.2 Human Health Screening Evaluation

Based on the results of the evaluation of the soil samples analyzed and the comparison to the screening levels, no further human health screening was conducted.



7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Conclusions

Based on the findings of this PEA-e investigation, the objectives have been met. The following sections summarize the findings and provide conclusions that can be made relative to the Site.

7.1.1 Soil Matrix Results

The following is a summary of the findings for the soil matrix samples collected as part of this investigation.

- Arsenic was reported in all 90 soil samples analyzed at a maximum concentration of 77.6 mg/kg. Arsenic was reported in excess of the southern California background level of 12 mg/kg in 12 of the 90 samples analyzed, all from the 0.5-foot depth. A 95UCL concentration of 11.66 mg/kg was calculated. This is less than the screening level of 12 mg/kg.
- Lead was reported in 47 of the 52 samples analyzed at a maximum concentration of 114 mg/kg. Lead was reported in one sample in excess of the screening level for lead of 80 mg/kg. The calculated 95UCL concentration of lead of 32.58 mg/kg is less than the screening level of 80 mg/kg.
- Three (3) OCP compounds were reported, Chlordane, DDE and DDT. All were reported at maximum concentrations between 5.65 and 6.99 µg/kg. All of the reported OCP concentrations are less than the screening levels for a residential land use of 440, 2,000 and 1,900 µg/kg for chlordane, DDE and DDT, respectively.
- Three (3) PAHs, fluoranthene, phenanthrene and pyrene, were reported in samples PG-1 and PP-3. The maximum reported concentrations of each PAH are less than the screening levels for a residential land use. Additionally, four (4) carcinogenic PAHs (cPAHs) were reported, which were evaluated based on their benzo(a)pyrene toxicity equivalent. The maximum calculated B(a)P equivalent of 0.09544 mg/kg is less than the residential land use RSL for benzo(a) pyrene of 0.11 mg/kg.
- No PCBs were reported in the analyzed for PCBs.
- No TPH or VOCs were reported in soil samples collected and analyzed from the location of the former UST. In addition, the geophysical survey of this location provided no evidence that the UST is still present.

7.1.3 Human Health Screening Evaluation

Based on the results of the evaluation of the soil samples analyzed and the comparison to the screening levels, no further human health screening was conducted.



7.2 Recommendations

Based on the results of the sampling, no further investigation is necessary. The site is suitable for the contemplated comprehensive modernization project without any soil remediation and Rule 1466 does not apply.



8.0 LIMITATIONS

This report has been prepared for the sole benefit and exclusive use of Los Angeles Unified School District as it pertains to the McKinley Avenue Elementary School as indicated on **Figure 2**. Our services have been performed in accordance with applicable state and local ordinances and generally accepted practices in the geosciences. No other warranty, either expressed or implied, is made.

Reliance on this report by third parties is at the third parties sole risk. Site exploration identifies actual subsurface conditions only at those points where samples are taken, when they are taken. Data derived through sampling and analytical testing are extrapolated by geoscientists who then render an opinion about overall general subsurface conditions. Actual conditions in areas not sampled may differ from predictions. Converse is not responsible or liable for any claims or damages associated with the accuracy or completeness of information provided by others. This report should not be regarded as a guarantee that no further contamination, beyond that which was detected in our investigation, is present beneath the Site. In the event that changes in the nature of the Site occur, or additional, relevant information about the Site is brought to our attention, the conclusions and recommendations contained in this report may not be valid unless these changes and additional relevant information are reviewed and the conclusions of this report are modified or verified in writing.



9.0 REFERENCES

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Rincon Consultants Inc, Preliminary Environmental Assessment – Equivalent Workplan for the McKinley Avenue Elementary School Comprehensive Modernization Project, August 28, 2017

United States Environmental Protection Agency (USEPA), 2018. Regional Screening Level (RSL) Summary Table, for Target Cancer Risk of 1×10^{-6} and target hazard quotient of 1.0, dated November 2018, downloaded from <https://semspub.epa.gov/work/HQ/197418.pdf>, in January 2019.



Tables

Tables



Table 1
 Summary of Analytical Results - Lead and Arsenic
 McKinley Avenue Elementary School
 7812 McKinley Avenue
 Los Angeles, California

Sample ID	Sample Date	Depth (feet bgs)	Laboratory Job Number	Lead	Arsenic	RPD	
						Lead	Arsenic
PP-1-1.0	12/26/2018	0.5	95574		3.95		
PP-2-0.5	12/26/2018	0.5	95574		4.12		
PP-3-0.5	12/26/2018	0.5	95574		6.40		
PP-4-0.5	12/26/2018	0.5	95574		5.36		
PP-5-0.5	12/26/2018	0.5	95574		4.64		
PP-6-0.5	12/26/2018	0.5	95574		4.18		
PG-1-0.5	12/26/2018	0.5	95574		77.6		
PG-1-2.0	12/26/2018	2.0	95574		1.07		
PG-1-3.0	12/26/2018	3.0	95574		0.736		
PG-2-0.5	12/26/2018	0.5	95575		10.6		
PG-3-0.5	12/26/2018	0.5	95574		61.9		
PG-3-2.0	12/26/2018	2.0	95574		4.80		
PG-3-3.0	12/26/2018	3.0	95574		2.38		
PG-4-0.5	12/26/2018	0.5	95574		1.31		
PG-5-0.5	12/26/2018	0.5	95575		3.34		
PG-6-0.5	12/26/2018	0.5	95575		2.87		
PG-7-0.5	12/26/2018	0.5	95575		15.6		
PG-8-0.5	12/26/2018	0.5	95575		1.01		
PG-9-0.5	12/26/2018	0.5	95574		13.3		
PG-10-0.5	12/26/2018	0.5	95574		0.809		
PG-11-0.5	12/26/2018	0.5	95575		0.916		
PG-12-0.5	12/26/2018	0.5	95575		2.58		
PG-13-0.5	12/26/2018	0.5	95575		52.8		
PG-13-2.0	12/26/2018	2.0	95575		8.34		
PG-13-3.0	12/26/2018	3.0	95575		0.695		
PG-14-0.5	12/26/2018	0.5	95575		0.65		
PG-15-0.5	12/26/2018	0.5	95574		2.17		
PG-16-0.5	12/26/2018	0.5	95574		2.23		
PG-17-0.5	12/26/2018	0.5	95575		5.23		
PG-18-0.5	12/26/2018	0.5	95575		0.995		
PG-19-0.5	12/26/2018	0.5	95575		1.37		
PG-20-0.5	12/26/2018	0.5	95574		3.91		
PG-21-0.5	12/26/2018	0.5	95574		0.923		
PG-24-0.5	12/26/2018	0.5	95575		0.768		
S2-E1-0.5	12/27/2018	0.5	95591	38.9	24		
S2-N1-0.5	12/28/2018	0.5	95591	6.95	1.83		
DUP5	12/28/2018	0.5	95598	28.6	1.78	121.80	-2.77
S2-N2-0.5	12/27/2018	0.5	95591	59.1	9.44		
S2-N3-0.5	12/27/2018	0.5	95591	6.88	2.13		
S2-W1-0.5	12/28/2018	0.5	95591	41.4	6.17		
S2-W2-0.5	12/28/2018	0.5	95591	23.9	4.06		

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Los Angeles, California

Sample ID	Sample Date	Depth (feet bgs)	Laboratory Job Number	Lead	Arsenic	RPD	
						Lead	Arsenic
S3-E1-0.5	12/28/2018	0.5	95591	8.12	2.41		
S3-E2-0.5	12/28/2018	0.5	95591	44.1	1.52		
S3-S1-0.5	12/28/2018	0.5	95591	58.5	3.38		
S3-W1-0.5	12/28/2018	0.5	95591	49.9	11.7		
DUP7	12/28/2018	0.5	95598	8.00	20.1	-144.73	52.83
S3-W2-0.5	12/28/2018	0.5	95591	50.1	13.3		
S3-W3-0.5	12/28/2018	0.5	95591	46.9	28.6		
S4-N1-0.5	12/27/2018	0.5	95591	8.64	0.821		
DUP3	12/27/2018	0.5	95598	4.12	1.27	-70.85	42.95
S4-N2-0.5	12/27/2018	0.5	95591	2.95	1.13		
S4-S1-0.5	12/28/2018	0.5	95591	20.4	2.60		
S4-S2-0.5	12/27/2018	0.5	95591	4.73	10.4		
S4-W1-0.5	12/28/2018	0.5	95591	22.1	3.62		
S4-E1-0.5	12/27/2018	0.5	95590	ND<2.5	1.00		
DUP2	12/27/2018	0.5	95598	2.97	0.955	17.18	-4.60
S4-S3-0.5	12/27/2018	0.5	95590	ND<2.5	0.936		
S5-E1-0.5	12/27/2018	0.5	95590	9.50	0.978		
S5-N2-0.5	12/28/2018	0.5	95590	5.00	0.76		
S5-S1-0.5	12/28/2018	0.5	95590	5.77	1.04		
S5-S2-0.5	12/27/2018	0.5	95590	8.32	1.30		
DUP6	12/27/2018	0.5	95598	4.61	0.966	-57.39	-29.48
S5-W1-0.5	12/28/2018	0.5	95590	ND<2.5	0.983		
S5-W2-0.5	12/27/2018	0.5	95590	7.92	1.50		
S6-E1-0.5	12/27/2018	0.5	95590	ND<2.5	1.09		
S6-W1-0.5	12/27/2018	0.5	95590	2.88	0.824		
S7-E1-0.5	12/27/2018	0.5	95593	22.0	5.43		
S7-N1-0.5	12/28/2018	0.5	95593	27.5	3.55		
S7-N2-0.5	12/28/2018	0.5	95593	39.2	2.19		
S7-N3-0.5	12/28/2018	0.5	95593	4.91	0.606		
S7-N4-0.5	12/28/2018	0.5	95593	5.37	0.732		
S7-N5-0.5	12/28/2018	0.5	95593	6.24	0.825		
DUP4	12/28/2018	0.5	95598	6.43	1.23	3.00	39.42
S7-S1-0.5	12/27/2018	0.5	95593	17.5	5.69		
S7-S2-0.5	12/27/2018	0.5	95593	28.1	4.93		
S7-S3-0.5	12/27/2018	0.5	95593	10.1	3.21		
S7-S4-0.5	12/27/2018	0.5	95593	21.2	3.40		
S7-S5-0.5	12/27/2018	0.5	95593	26.3	3.50		
S7-W1-0.5	12/27/2018	0.5	95593	19.8	4.04		

Table 1
 Summary of Analytical Results - Lead and Arsenic
 McKinley Avenue Elementary School
 7812 McKinley Avenue
 Los Angeles, California

Sample ID	Sample Date	Depth (feet bgs)	Laboratory Job Number	Lead	Arsenic	RPD	
						Lead	Arsenic
S9-E1-0.5	12/28/2018	0.5	95592	ND<2.5	0.61		
S9-E2-0.5	12/28/2018	0.5	95592	12.8	3.26		
S9-N1-0.5	12/27/2018	0.5	95592	25.8	4.38		
S9-N2-0.5	12/27/2018	0.5	95592	20.9	3.49		
S9-S1-0.5	12/28/2018	0.5	95592	20.8	4.42		
S9-W1-0.5	12/27/2018	0.5	95592	16.4	3.09		
S11-1-0.5	12/27/2018	0.5	95594		2.65		
S11-2-0.5	12/27/2018	0.5	95594		4.34		
S12-1-0.5	12/27/2018	0.5	95594		2.69		
S12-2-0.5	12/27/2018	0.5	95594		3.28		
DUP1	12/27/2018	0.5	95598	114	7.91	NA	82.75

Samples Analyzed		52	90
Count >ND		47	90
Method Detection Limit		2.5	0.05
Maximum Concentration		114	77.6
95 UCL		32.58	11.66
Screening Level		80	12
Exceedances		1	9

all concentrations in milligrams per kilogram (mg/kg)

An STLC of 1.36 mg/l was reported for location PG-1-0.5

Locations PG-22 and PG-23 not sampled due to utilities and access issues

- bgs Below ground surface
- ND Not detected above the MDL
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- Not analyzed
- STLC Soluble threshold limit concentration
- mg/l milligrams per liter

Table 2
 Summary of Analytical Results - OCPs
 McKinley Avenue Elementary School
 7812 McKinley Avenue
 Los Angeles, California

Sample Location	Date	Sample Locations	Depth (feet bgs)	Organochlorine Pesticides - µg/kg			
				Chlordane	DDE	DDT	All other OCPs
COMP 2.1-0.5	12/27/2018	S2-N1, S2-W1, S2-W2	0.5-1.0	ND	ND	ND	ND
COMP 2.2-0.5	12/27/2018	S2-N2, S2-N3, S2-E1	0.5-1.0	1.11 J	ND	ND	ND
COMP 3.1-0.5	12/27/2018	S3-W1, S3-W2, S3-W3, S3-S1	0.5-1.0	ND	ND	ND	ND
COMP 3.2-0.5	12/27/2018	S3-E1, S3-E2, S4-N1, S4-N2	0.5-1.0	1.83 J	ND	ND	ND
COMP 4.1-0.5	12/27/2018	S4-S2, S4-S1, S4-W1	0.5-1.0	ND	ND	ND	ND
COMP 4.2-0.5	12/27/2018	S5-S1, S4-E1, S4-S3, S5-W2	0.5-1.0	ND	ND	ND	ND
COMP 5.1 -0.5	12/27/2018	S5-S2, S6-E1, S6-W1, S5-E1	0.5-1.0	ND	ND	ND	ND
COMP 5.2-0.5	12/27/2018	S5-W1, S5-N2,	0.5-1.0	ND	ND	ND	ND
COMP 7.1-0.5	12/27/2018	S7-S1, S7-N1, S7-N2, S7-W1	0.5-1.0	ND	ND	ND	ND
COMP 7.2-0.5	12/27/2018	S7-S2, S7-S3, S7-N3, S7-N4,	0.5-1.0	5.65 J	5.73 J	6.99 J	ND
COMP 7.3-0.5	12/27/2018	S7-S4, S7-S5, S7-N5, S7-E1	0.5-1.0	ND	ND	ND	ND
COMP 9.1-0.5	12/27/2018	S9-N1, S9-N2, S9-W1, S9-E1	0.5-1.0	ND	ND	ND	ND
COMP 9.2-0.5	12/27/2018	S9-E2, S9-S1	0.5-1.0	ND	ND	ND	ND
Samples Analyzed				13	13	13	13
Detections				3	1	1	--
Method Detection Limit				1.0	1.0	1.0	--
Maximum Concentration				5.65	5.73	6.99	--
Screening Level				440	2,000	1,900	--
Detections > Screening Level				0	0	0	--

Screening levels based on DTSC HHRA Note 3 (June 2018) and November 2018 EPA RSLs

J Estimated concentration between the PQL and MDL
 bgs Below ground surface
 µg/kg micrograms per kilogram

ND Not detected above the MDL
 MDL Method Detection Limit
 PQL Practical Quantitation Limit

Table 3
 Summary of Analytical Results -PCBs
 McKinley Avenue Elementary School
 7812 McKinley Avenue
 Los Angeles, California

Sample ID	Sample Date	Laboratory Job Number	Aroclor-1016 (PCB-1016)	Aroclor-1221 (PCB-1221)	Aroclor-1232 (PCB-1232)	Aroclor-1242 (PCB-1242)	Aroclor-1248 (PCB-1248)	Aroclor-1254 (PCB-1254)	Aroclor-1260 (PCB-1260)	Aroclor-1262 (PCB-1262)	Aroclor-1268 (PCB-1268)
PG-19-0.5	12/26/2018	95575	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0
S2-E1-0.5	12/27/2018	95591	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
S3-E2-0.5	12/28/2018	95591	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0
S5-S1-0.5	10/28/2018	95590	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0
S6-E1-0.5	12/27/2018	95590	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0
S7-E1-0.5	12/27/2018	95593	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125
S9-E2-0.5	12/28/2018	95592	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
S9-N1-0.5	12/27/2018	95592	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125
Samples Analyzed			8	8	8	8	8	8	8	8	8
Detections			0	0	0	0	0	0	0	0	0
Screening Level			410	200	170	230	230	120	240	240	240
Detections > Screening Level			0	0	0	0	0	0	0	0	0

all concentrations in micrograms per kilogram (ug/kg)

Screening levels based on DTSC HHRA Note 3 (June 2018) and November 2018 EPA RSLs

Screening level for Aroclor 1260 used as surrogate for Aroclors 1262 and 1268.

bgs Below ground surface

ND Not detected above the MDL

MDL Method Detection Limit

PQL Practical Quantitation Limit

Table 4
 Summary of Analytical Results -PAHs
 McKinley Avenue Elementary School
 7812 McKinley Avenue
 Los Angeles, California

Sample ID	Sample Date	Depth (feet bgs)	Fluoranthene	Phenanthrene	Pyrene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	B(a)P Equivalent
PG-1-0.5	12/26/2018	0.5	ND<0.020	ND<0.020	ND<0.020	ND<0.020	0.0311	ND<0.020	ND<0.020	0.0344	ND<0.020	ND<0.020	0.03884
PG-16-0.5	12/26/2018	0.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	0.00875
PP-3-0.5	12/26/2018	0.5	0.0338	0.0123	0.036	ND<0.010	0.0835	0.0562	0.0357	ND<0.010	ND<0.010	ND<0.010	0.09544
PG-11-0.5	12/26/2018	0.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	0.00875
PG-14-0.5	12/26/2018	0.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	0.00875
PG-19-0.5	12/26/2018	0.2	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	0.00875

Residential Screening Level	2,400	1,800	1,800	1.1	0.11	1.1	11	110	11	1.1	0.11
Commercial Screening Level	30,000	23,000	23,000	21	2.1	21	210	2100	2.1	21	2.1

all concentrations in milligrams per kilogram
 screening levels based on November 2018 EPA Regional Screening Levels
 Italics indicate an estimated concentration between the MDL and PQL
 Highlighted columns indicate carcinogenic PAHs (cPAHs)

- PAHs Polynuclear Aromatic Hydrocarbons
- B(a)P Benzo (a) Pyrene
- bgs below ground surface
- nd not detected above the MDL
- PQL Practical Quantiation Limit
- MDL Method Detection Limit

Table 5
 Summary of Analytical Results -Former UST (TPH and VOCs)
 McKinley Avenue Elementary School
 7812 McKinley Avenue
 Los Angeles, California

Sample ID	Sample Date	Laboratory Job Number	TPH as Gasoline and Light HC (C4-C12)	TPH as Diesel (C13-C22)	TPH as Heavy Hydrocarbons (C23-C40)	VOCs All
			mg/Kg	mg/Kg	mg/Kg	ug/kg
UST-5	12/28/2018	95597	ND<0.100	ND<1.0	ND<1.0	NA
UST-10	12/28/2018	95597	ND<0.100	ND<1.0	ND<1.0	ND
UST-15	12/28/2018	95597	ND<0.100	ND<1.0	ND<1.0	NA
UST-DUP	12/28/2018	95597	ND<0.100	ND<1.0	ND<1.0	NA

TPH Total Petroleum Hydrocarbons
 VOCs Volatile Organic Compounds
 HC Hydrocarbons
 mg/kg milligrams per kilogram
 ug/kg micrograms per kilogram

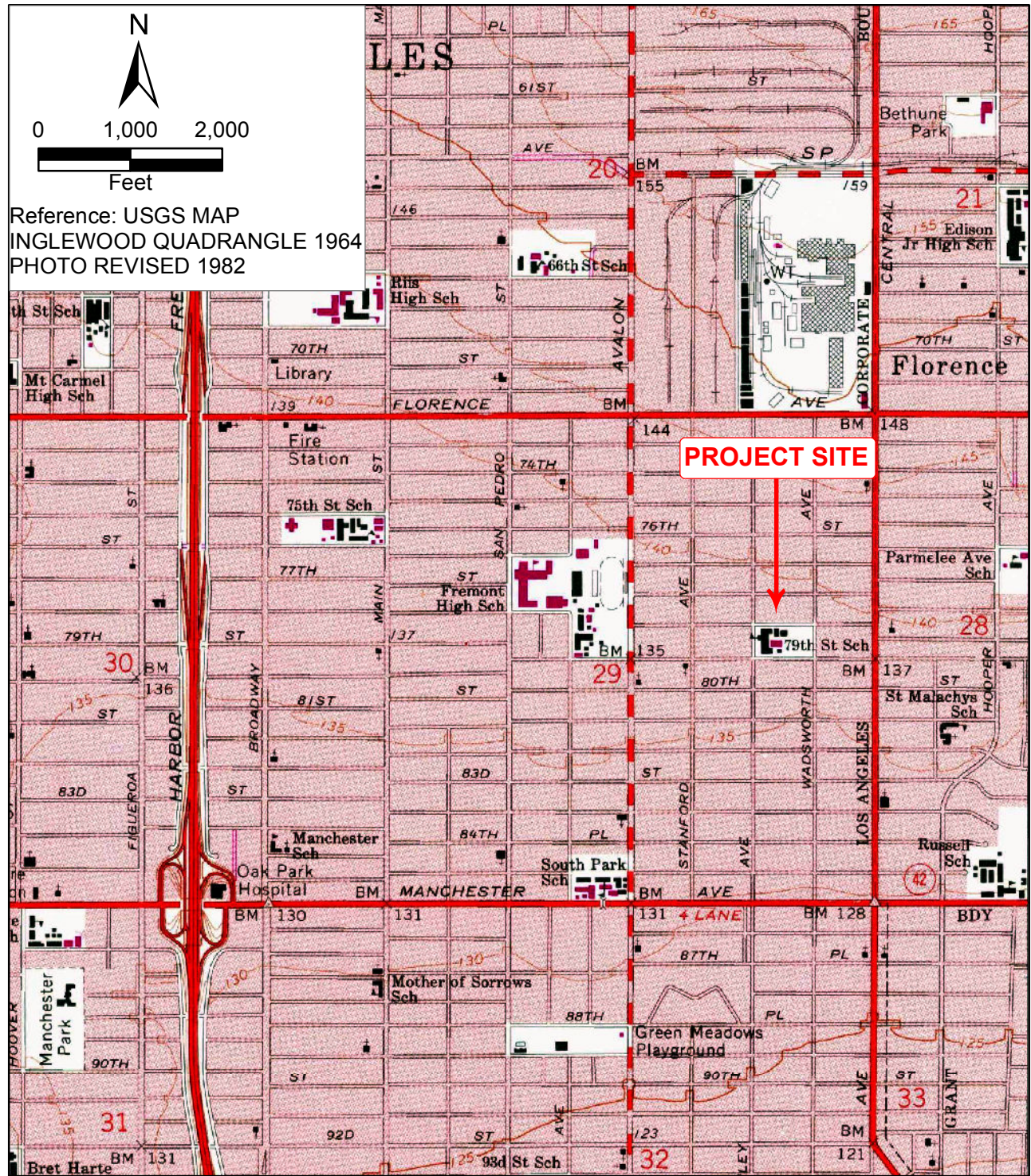
Table 6
 Summary of Analytical Results -Asbestos in Soil
 McKinley Avenue Elementary School
 7812 McKinley Avenue
 Los Angeles, California

Sample ID	Sample Date	Depth (feet bgs)	Asbestos by PLM
S2-N2-0.5	10/28/2018	0.5	None detected
S3-E1-0.5	12/28/2018	0.5	None detected
S3-W2-0.5	12/28/2018	0.5	None detected
S4-S2-0.5	12/27/2018	0.5	None detected
S5-N2-0.5	12/27/2018	0.5	None detected
S5-W1-0.5	12/28/2018	0.5	None detected
S7-N1-0.5	12/28/2018	0.5	None detected
S7-S5-0.5	12/27/2018	0.5	None detected
S9-W1-0.5	12/27/2018	0.5	None detected
PG-2-05	12/26/2018	0.5	None detected
PG-8-0.5	12/26/2018	0.5	None detected
PG-11-0.5	12/26/2018	0.5	None detected
PG-19-05	12/26/2018	0.5	None detected
PG-20-05	12/26/2018	0.5	None detected
PG-24-0.5	12/26/2018	0.5	None detected
Samples Analyzed			15
Detections			0

bgs Below ground surface
 PLM Polarized Light Microscopy

Figures





SITE LOCATION MAP

LAUSD MCKINLEY ELEMENTARY SCHOOL
 7812 MCKINLEY AVENUE
 LOS ANGELES, CALIFORNIA

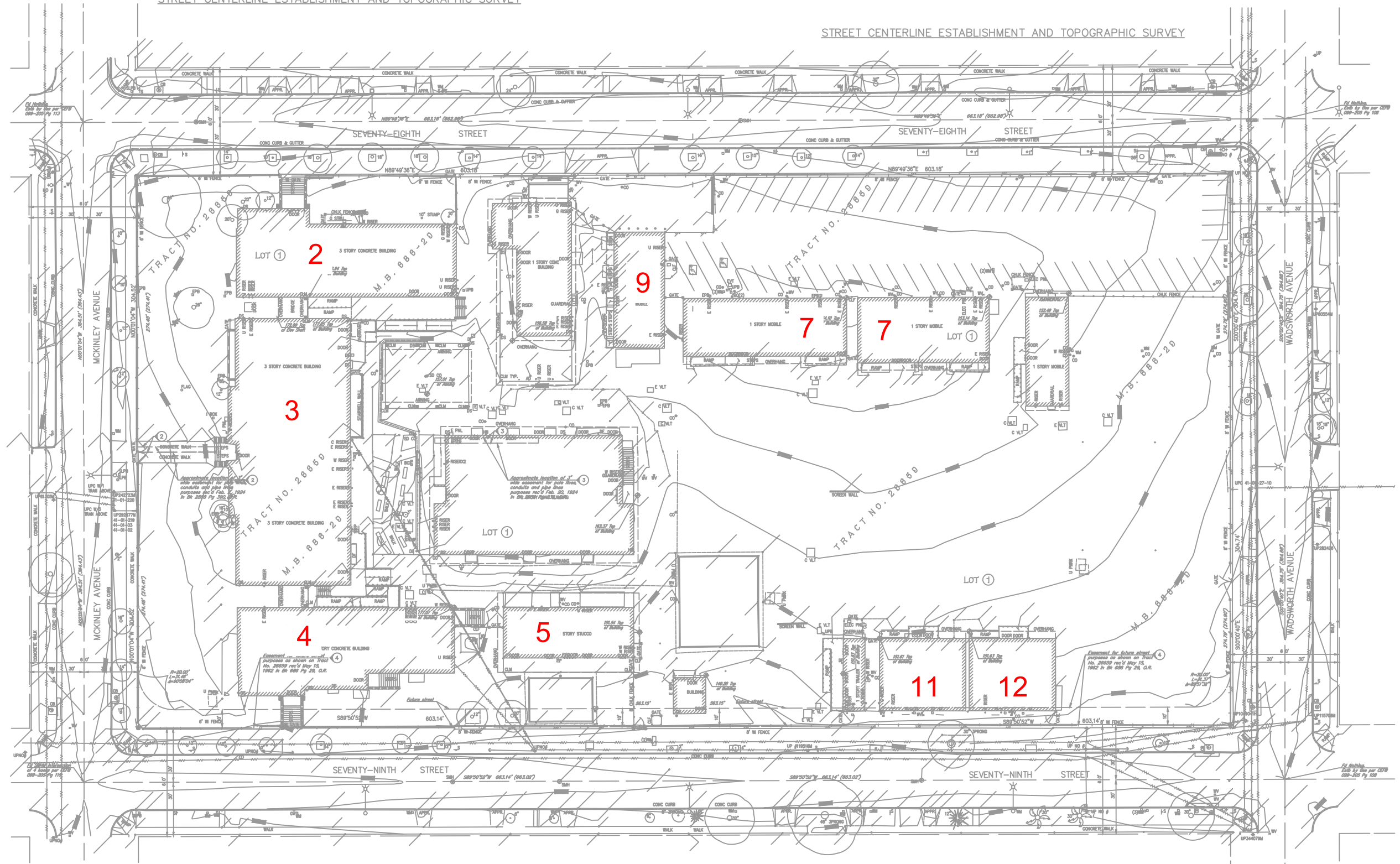
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 18-41-233-01



Figure No.

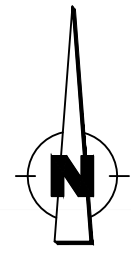
STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY

STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY



STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY

STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY



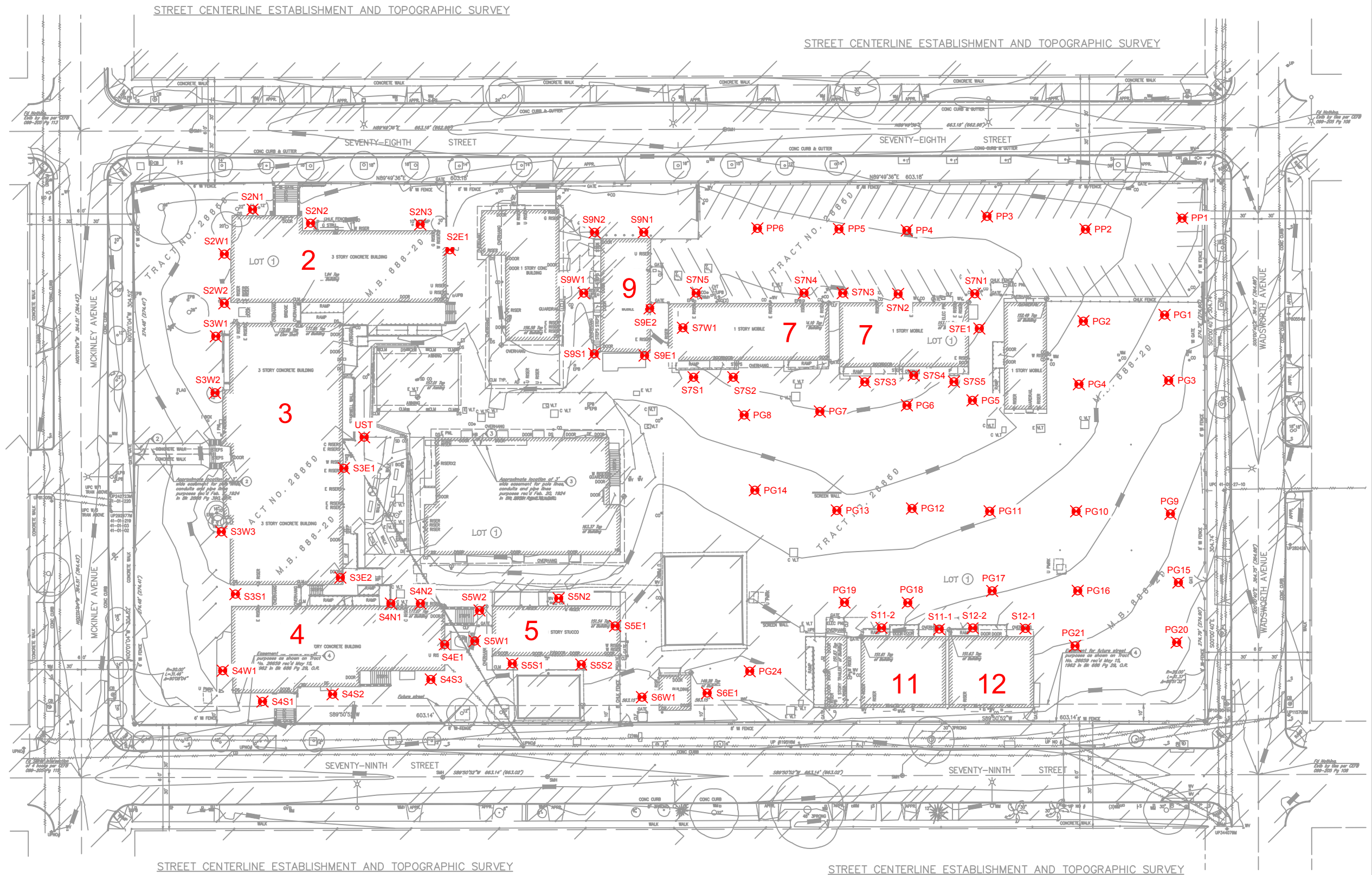
SITE PLAN

LAUSD MCKINLEY ELEMENTARY SCHOOL
 7812 MCKINLEY AVENUE
 LOS ANGELES, CALIFORNIA

Scale
GRAPHIC SCALE
 Date
JAN. 2019

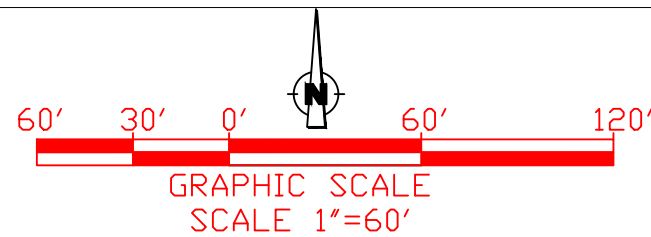
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 Drawing No.





LEGEND

BORING LOCATION



SOIL SAMPLE LOCATION MAP

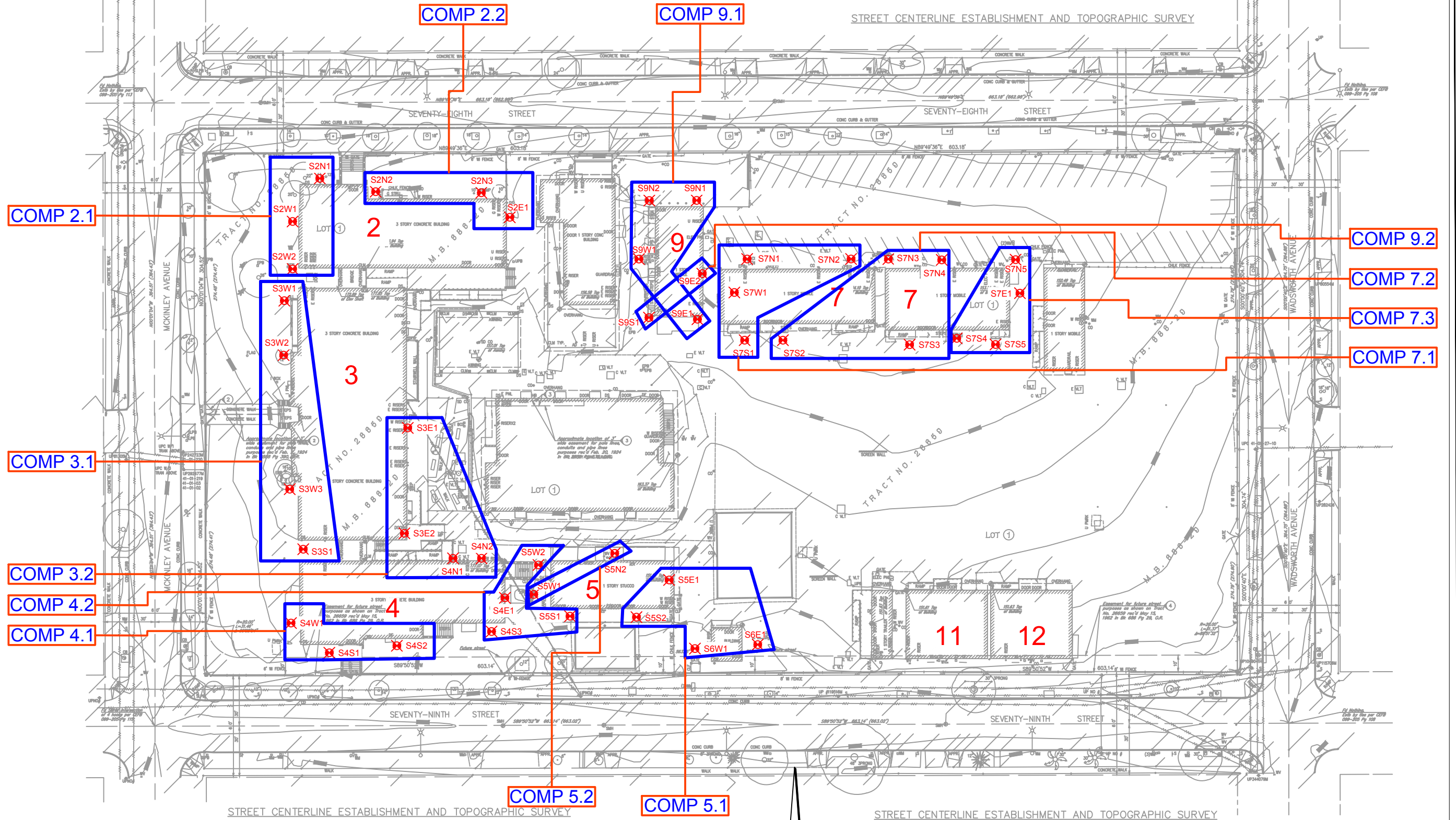
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 7812 MCKINLEY AVENUE
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STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY

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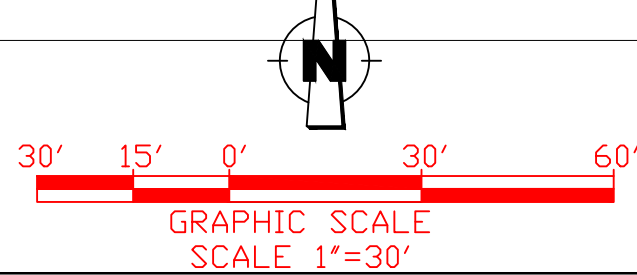


LEGEND

BORING LOCATION
ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM

LOCATION OF COMPOSITE SAMPLES

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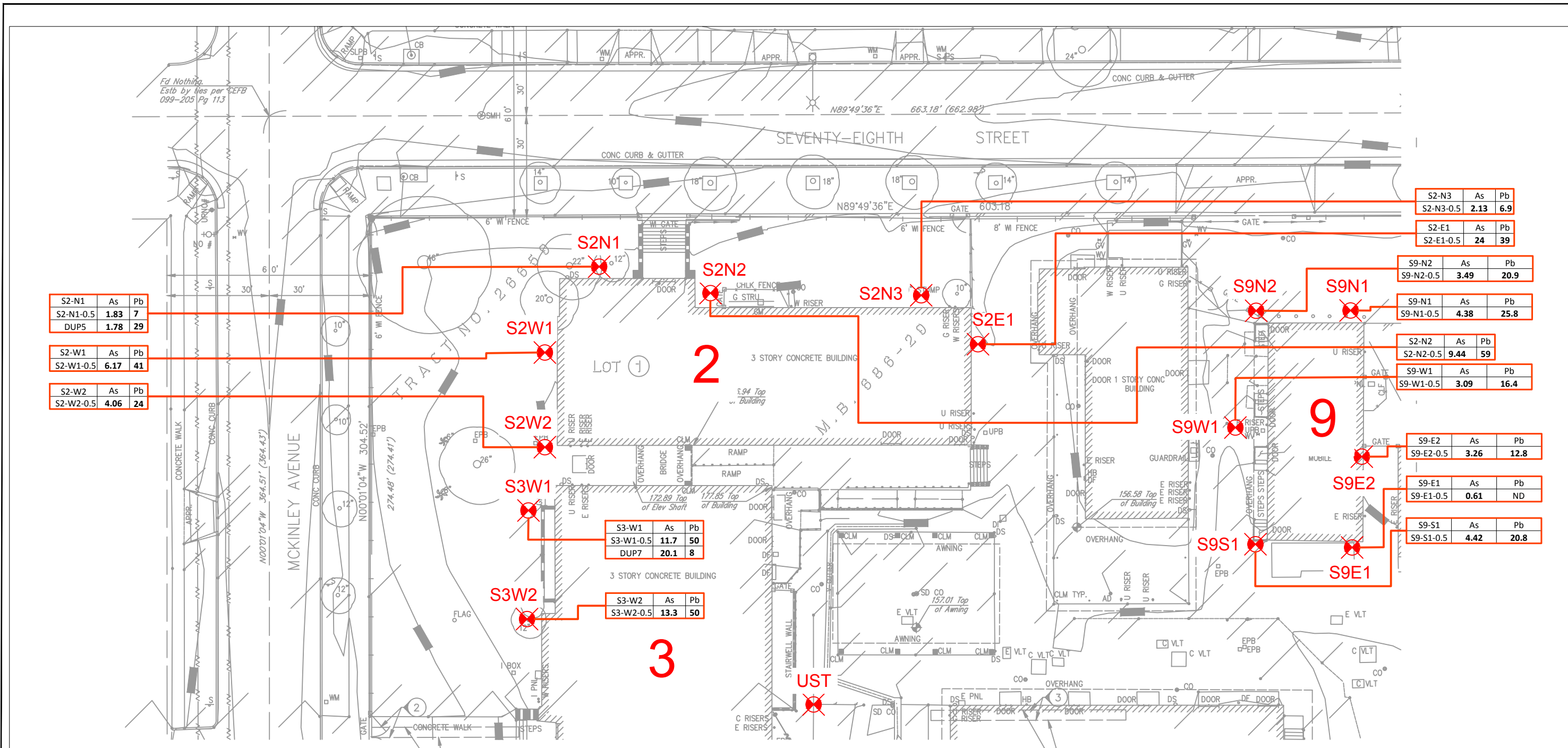
SAMPLE LOCATION MAPS-OCPS

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

Scale
GRAPHIC SCALE
Date
JAN. 2019

Project No.
18-41-233-01
DRAWING NO.

Converse Consultants



S2-N1	As	Pb
S2-N1-0.5	1.83	7
DUP5	1.78	29

S2-W1	As	Pb
S2-W1-0.5	6.17	41

S2-W2	As	Pb
S2-W2-0.5	4.06	24

S2-N1	As	Pb
S2-N1-0.5	1.83	7

S2-N2	As	Pb
S2-N2-0.5	9.44	59

S2-N3	As	Pb
S2-N3-0.5	2.13	6.9

S2-E1	As	Pb
S2-E1-0.5	24	39

S2-N3	As	Pb
S2-N3-0.5	2.13	6.9

S2-E1	As	Pb
S2-E1-0.5	24	39

S9-N2	As	Pb
S9-N2-0.5	3.49	20.9

S9-N1	As	Pb
S9-N1-0.5	4.38	25.8

S2-N2	As	Pb
S2-N2-0.5	9.44	59

S9-W1	As	Pb
S9-W1-0.5	3.09	16.4

S9-E2	As	Pb
S9-E2-0.5	3.26	12.8

S9-E1	As	Pb
S9-E1-0.5	0.61	ND

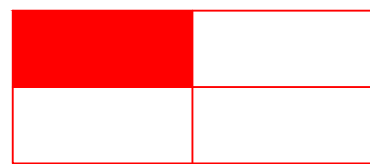
S9-S1	As	Pb
S9-S1-0.5	4.42	20.8

S3-W1	As	Pb
S3-W1-0.5	11.7	50
DUP7	20.1	8

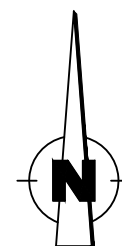
S3-W2	As	Pb
S3-W2-0.5	13.3	50

LEGEND

BORING LOCATION
ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM



LOCATION ON SITE PLAN



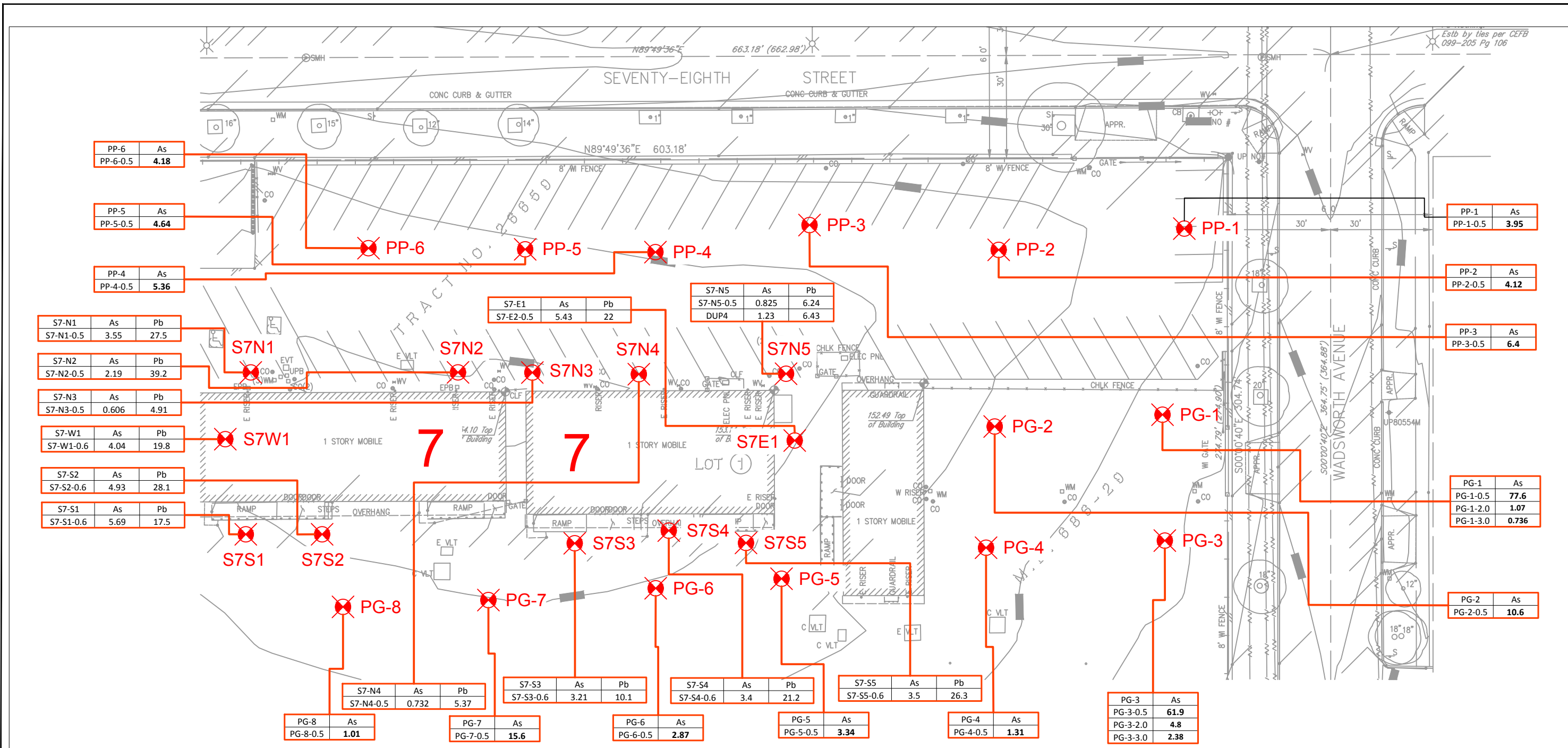
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SAMPLE LOCATION MAP- LEAD & ARSENIC NW PORTION

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

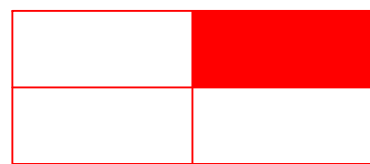
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Date
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Project No.
18-41-233-01
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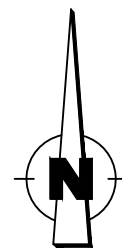


LEGEND

BORING LOCATION
ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM



LOCATION ON SITE PLAN

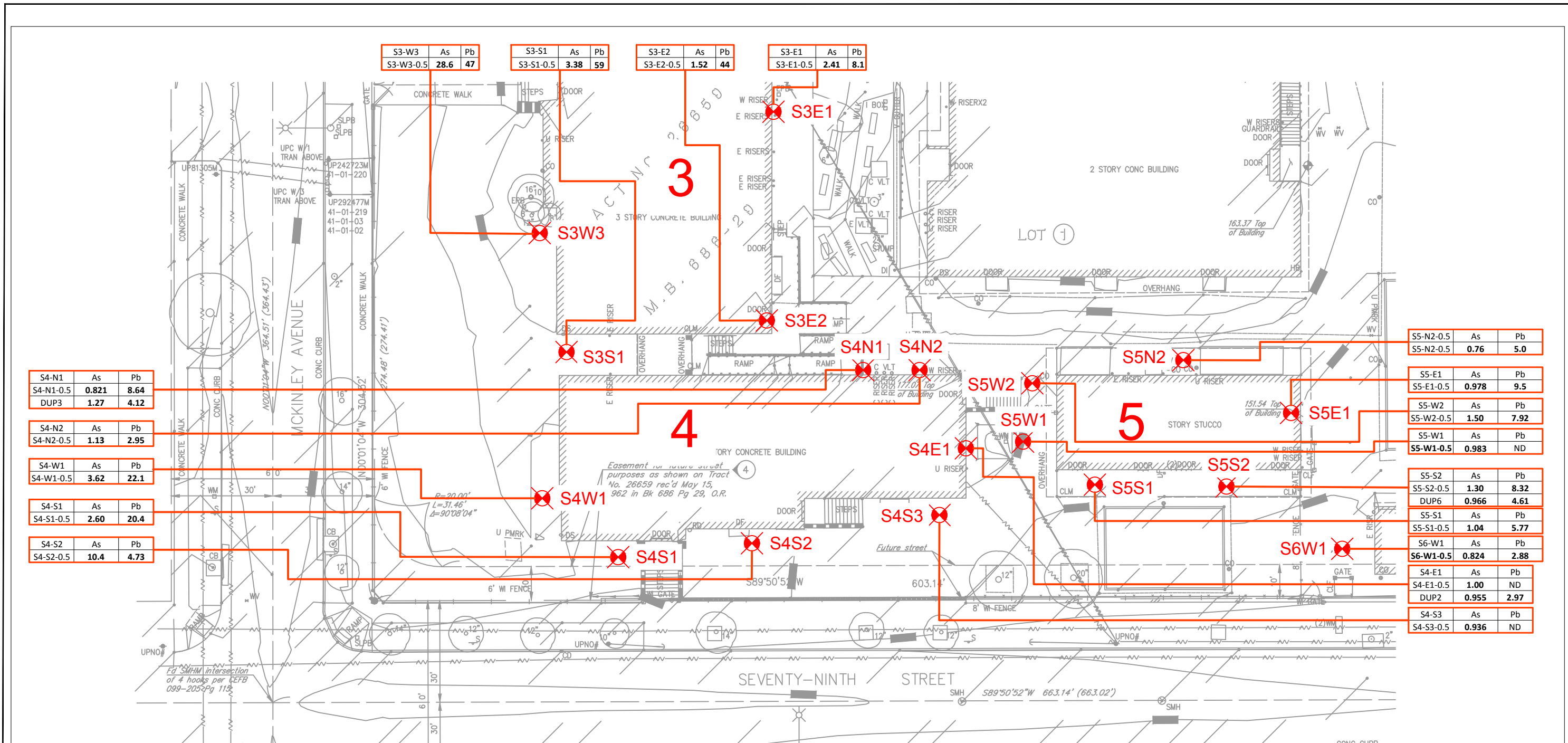


GRAPHIC SCALE
SCALE 1"=30'

SAMPLE LOCATION MAP- LEAD & ARSENIC NE PORTION

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

Scale: GRAPHIC SCALE
Date: JAN. 2019
Project No.: 18-41-233-01
DRAWING NO.



S3-W3	As	Pb
S3-W3-0.5	28.6	47

S3-S1	As	Pb
S3-S1-0.5	3.38	59

S3-E2	As	Pb
S3-E2-0.5	1.52	44

S3-E1	As	Pb
S3-E1-0.5	2.41	8.1

S4-N1	As	Pb
S4-N1-0.5	0.821	8.64
DUP3	1.27	4.12

S4-N2	As	Pb
S4-N2-0.5	1.13	2.95

S4-W1	As	Pb
S4-W1-0.5	3.62	22.1

S4-S1	As	Pb
S4-S1-0.5	2.60	20.4

S4-S2	As	Pb
S4-S2-0.5	10.4	4.73

S5-N2-0.5	As	Pb
S5-N2-0.5	0.76	5.0

S5-E1	As	Pb
S5-E1-0.5	0.978	9.5

S5-W2	As	Pb
S5-W2-0.5	1.50	7.92

S5-W1	As	Pb
S5-W1-0.5	0.983	ND

S5-S2	As	Pb
S5-S2-0.5	1.30	8.32

DUP6	0.966	4.61
------	-------	------

S5-S1	As	Pb
S5-S1-0.5	1.04	5.77

S6-W1	As	Pb
S6-W1-0.5	0.824	2.88

S4-E1	As	Pb
S4-E1-0.5	1.00	ND

DUP2	0.955	2.97
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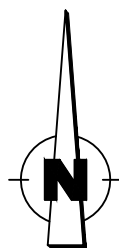
S4-S3	As	Pb
S4-S3-0.5	0.936	ND

LEGEND

BORING LOCATION
ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM



LOCATION ON SITE PLAN



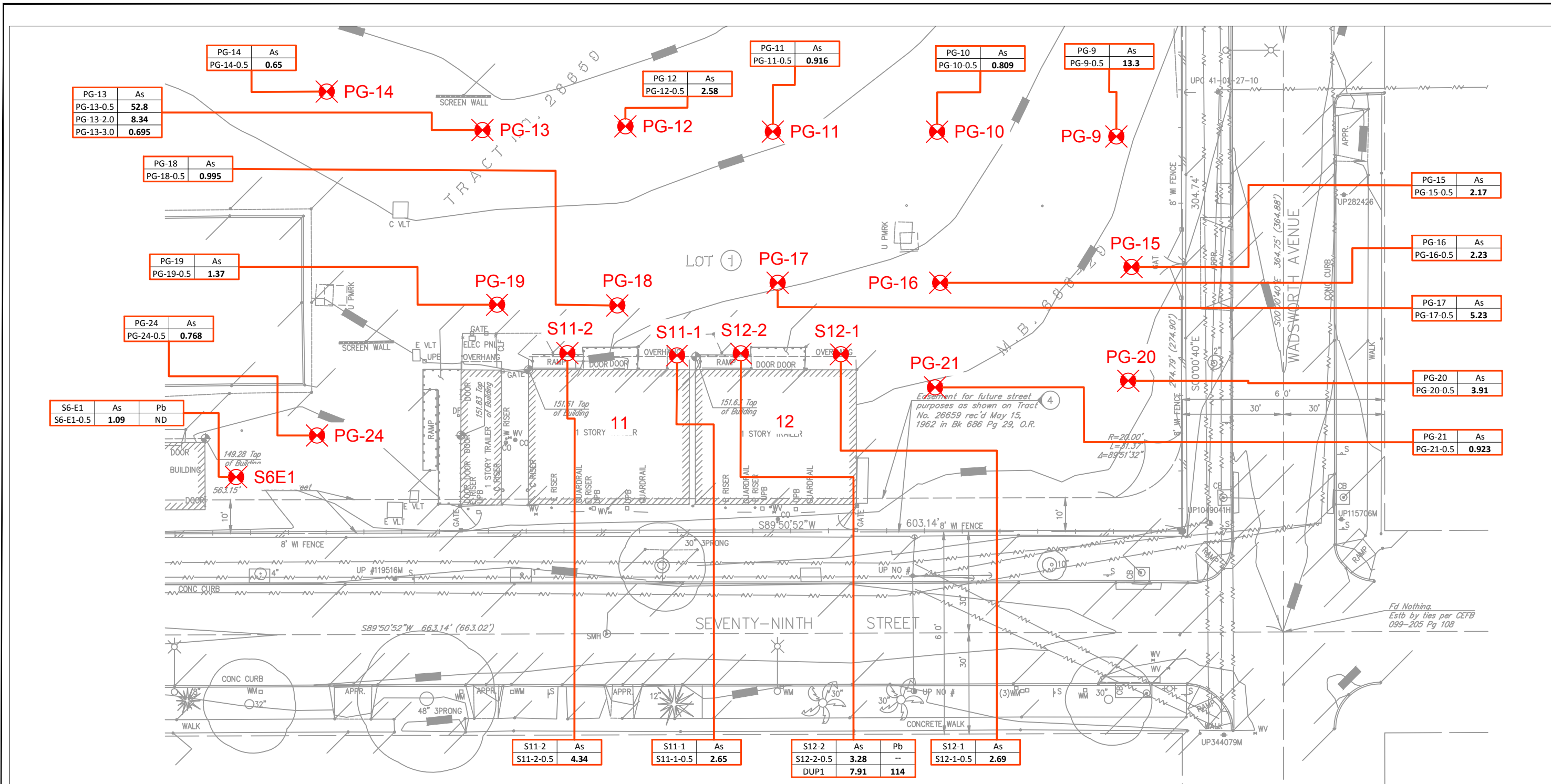
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SCALE 1"=30'

SAMPLE LOCATION MAP- LEAD & ARSENIC SW PORTION

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

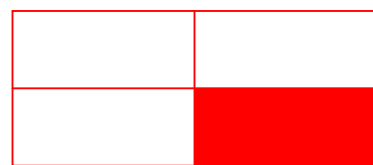
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Project No.
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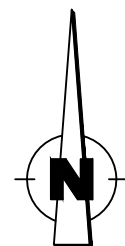


LEGEND

BORING LOCATION
ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM



LOCATION ON SITE PLAN



GRAPHIC SCALE
SCALE 1"=30'

SAMPLE LOCATION MAP- LEAD & ARSENIC SE PORTION

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

Scale
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Date
JAN. 2019

Project No.
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Sampling Rationale

Appendix A



Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses			
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)
S1N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group S1.1
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S1E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group S1.1
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S1S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group S1.1
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S1W2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group S1.2
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S1W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group S1.2
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S1W3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group S1.2
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S2N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S2.1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		
S2N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S2.2
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		
S2N3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S2.2
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		
S2E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1	1	Composite Group S2.2
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold	hold	
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold	hold	
S2W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S2.1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		
S2W2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S2.1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		

Not Sampled Building to Remain

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses				
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
S3W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.1	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S3W2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S3W3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S3S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S3E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.2	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S3E2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1	1	Composite Group S3.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold	hold		
S4N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S4N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S4E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 4.2	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S4S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 4.1	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S4S2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 4.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S4S3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 4.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S4W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 4.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses				
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
S5N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S5.2	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S5N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S5.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S5E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S5.1	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S5S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1	1	Composite Group S4.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold	hold		
S5S2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S5.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S5W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S4.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S6E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1	1	Composite Group S5.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold	hold		
S6W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S5.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S7N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.1	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S7N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S7N3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.2	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S7N4	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S7N5	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.3	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses			
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)
S7E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1	1	Composite Group 7.3
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold	hold	
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold	hold	
S7S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		
S7S2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.2
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		
S7S3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.2
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		
S7S4	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.3
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		
S7S5	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.3
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		
S7W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold		
S8N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group 8.1
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S8N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group 8.1
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S8E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group 8.1
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S8S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group 5.2
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S8S2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group 5.2
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				
S8W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)				Composite Group 8.1
	1.5 to 2.0 feet	Pre 1993 (Lead)				
	2.5 to 3 feet	Pavement (Arsenic)				

Not Sampled Building to Remain

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses				
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
S9N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1	1	Composite Group 9.1	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold	hold		hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold	hold		hold
S9N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 9.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S9E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1	1	Composite Group 9.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold	hold		
S9E2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 9.2	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S9S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 9.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S9W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 9.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S10	Surface (0 to 0.5 feet)	Post 2006 Portable Pavement (Arsenic)					
	1.5 to 2.0 feet						
	2.5 to 3 feet						
S11	Surface (0 to 0.5 feet)	Post 2006 Portable Pavement (Arsenic)	2				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
S12	Surface (0 to 0.5 feet)	Post 2006 Portable Pavement (Arsenic)	2				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PP1	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PP2	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PP3	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PP4	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses			
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)
PP5	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PP6	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG1	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG2	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG3	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG4	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG5	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG6	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG7	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG8	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG9	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG10	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			
PG11	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1			
	1.5 to 2.0 feet		hold			
	2.5 to 3 feet		hold			

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses				
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
PG12	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG13	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG14	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG15	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG16	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG17	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG18	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG19	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				1
	1.5 to 2.0 feet		hold				hold
	2.5 to 3 feet		hold				hold
PG20	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG21	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG22	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG23	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG24	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
Total Primary Samples			77	45	8	13	
Duplicate Samples			7	7			

Not Sampled due to utilities and access

Public Notice

Appendix B



Los Angeles Unified School District

Office of Environmental Health and Safety

AUSTIN BEUTNER
Superintendent of Schools

VIVIAN EKCHIAN
Deputy Superintendent

CARLOS A. TORRES
Director, Environmental Health and Safety

December 14, 2018

TO: Neighbors, Students, and Staff Members of
McKinley Avenue Elementary School

FROM: Los Angeles Unified School District
Office of Environmental Health and Safety

REGARDING: Environmental Assessment
McKinley Avenue Elementary School, Los Angeles, California

The Los Angeles Unified School District (LAUSD) - Office of Environmental Health and Safety (OEHS) would like to provide you with advance notice for a Preliminary Environmental Assessment (PEA) that will be conducted within the boundaries of McKinley Avenue Elementary School, located at 7812 McKinley Avenue, Los Angeles, CA 90001. The PEA will focus on areas planned for the redevelopment of the campus. LAUSD voluntarily conducts environmental reviews for construction and improvement projects at its existing schools.

A licensed contractor, working on behalf of LAUSD, will perform the environmental investigation under the oversight of the LAUSD-OEHS. The investigation will consist of soil sampling at locations on campus where existing facilities will be demolished and new construction will take place. Soil will be analyzed for potential chemicals of concern. If necessary, protective measures will be performed prior to construction activities.

Field work is anticipated to be completed over the Winter Recess (i.e. December 15, 2018 through January 6, 2019). If additional sampling is necessary, this sampling will also take place when school is out of session. Field work is scheduled to be conducted between 7:00 am and 7:00 pm.

The results of the investigation will be submitted to LAUSD-OEHS in a report for review. The report will include an assessment of whether any of the chemicals of concern are present in soil at concentrations that would require further assessment, or if a response action will be necessary before the Site is cleared for construction activities. When the OEHS's review is complete, OEHS will issue a determination with regard to the assessment.

If you have any questions concerning the upcoming environmental investigation or other related activities for the proposed project, please contact Eric Longenecker, LAUSD-OEHS, Site Assessment Project Manager at (213) 241-4578 (email at eric.longenecker@lausd.net).

Distrito Escolar Unificado de Los Ángeles

Oficina de Salud y Seguridad Ambiental

AUSTIN BEUTNER
Superintendent of Schools

VIVIAN EKCHIAN
Deputy Superintendent

CARLOS A. TORRES
Director, Environmental Health and Safety

14 de diciembre de 2018

A: Vecinos, Estudiantes y Personal de la
McKinley Avenue Escuela Primaria

DESDE: Distrito Escolar Unificado de Los Ángeles
Oficina de Salud y Seguridad Ambiental

RESPECTO DE: Evaluación Ambiental
McKinley Avenue Escuela Primaria, Los Ángeles, California

El Distrito Escolar Unificado de Los Ángeles (LAUSD, por sus siglas en inglés) - Oficina de Salud y Seguridad Ambiental (OEHS, por sus siglas en inglés) desea proporcionarle un aviso previo para una Evaluación Ambiental Preliminar (PEA) que se llevará a cabo dentro de los límites de la Escuela Primaria McKinley Avenue, ubicada En el 7812 McKinley Avenue, Los Ángeles, California 90001. La PEA se enfocará en áreas planificadas para la reurbanización del campus. LAUSD lleva a cabo voluntariamente revisiones ambientales para proyectos de construcción y mejoras en escuelas existentes.

Un contratista licenciado, que trabaja en nombre del LAUSD, realizará la investigación ambiental bajo la supervisión del LAUSD-OEHS. La investigación consistirá en el muestreo de suelos en los lugares del campus donde se demolerán las estructuras existentes y nueva construcción tendrá lugar. El suelo se analizará para el potencial compuestos de preocupación. Si es necesario, medidas de protección se llevará a cabo antes de las actividades de construcción.

Se prevé que el trabajo de campo esté terminado durante el receso de invierno (i.e. diciembre 15, 2018 hasta enero 6, 2019). Si es necesario un muestreo adicional, este muestreo se llevará a cabo cuando la escuela este fuera de sesión. El trabajo de campo se realizará entre las 7:00 am y las 7:00 pm.

Los resultados de la investigación serán presentados a LAUSD-OEHS en un informe para su revisión. El informe incluirá una evaluación de si alguno de los compuestos de preocupación está presente en el suelo en concentraciones que requerirían una evaluación adicional, o si una acción de respuesta será necesaria antes de que el Sitio sea despejado para actividades de construcción. Cuando se complete el examen de la OEHS, la OEHS emitirá una determinación con respecto a la evaluación.

Si usted tiene alguna pregunta acerca de la investigación del medio ambiente próximo y otras actividades relacionadas para el proyecto propuesto, por favor, póngase en contacto con Eric Longenecker, OEHS del LAUSD, Sitio gestor de evaluación del Proyecto al (213) 241-4578 (correo electrónico a eric.longenecker@lausd.net).

McKENLEY AVENUE SCHOOL

Los Angeles Unified School District Office of Environmental Health and Safety

ALTON BELTRAN
Superintendent of Schools
VERONICA BARRERA
Superintendent of Schools
CARLOS A. TORRES
Director, Environmental Health and Safety

December 14, 2018

TO: Neighbors, Students, and Staff Members of
McKenley Avenue Elementary School

FROM: Los Angeles Unified School District
Office of Environmental Health and Safety

REGARDING: Environmental Assessment
McKenley Avenue Elementary School, Los Angeles, California

The Los Angeles Unified School District (LAUSD) - Office of Environmental Health and Safety (OEHS) would like to provide you with advance notice for a Preliminary Environmental Assessment (PEA) that will be conducted within the boundaries of McKinley Avenue Elementary School, located at 7812 McKinley Avenue, Los Angeles, CA 90001. The PEA will focus on areas planned for the redevelopment of the campus. LAUSD voluntarily conducts environmental reviews for construction and improvement projects at its existing schools.

A licensed contractor, working on behalf of LAUSD, will perform the environmental investigation under the oversight of the LAUSD-OEHS. The investigation will consist of soil sampling at locations on campus where existing facilities will be demolished and new construction will take place. Soil will be analyzed for potential chemicals of concern. If necessary, protective measures will be performed prior to construction activities.

Field work is anticipated to be completed over the Winter recess (i.e. December 15, 2018 through January 6, 2019). If additional sampling is necessary, this sampling will occur take place outside of school hours. Field work is scheduled to be conducted between 7:00 am and 7:00 pm.

The results of the investigation will be submitted to LAUSD-OEHS in a report for review. The report will include an assessment of whether any of the chemicals of concern are present in soil at concentrations that would require further assessment, or if a response action will be necessary before the site is cleared for construction activities. When the OEHS's review is complete, OEHS will issue a determination with regard to the assessment.

If you have any questions concerning the upcoming environmental investigation or other related activities for the proposed project, please contact Eric Longmacker, LAUSD-OEHS, Site Assessment Project Manager at (213) 241-4576 (email at eric.longmacker@lausd.net).

155 South Beverly Avenue, The Plaza, Los Angeles, CA 90017 • Telephone (213) 241-2099 • Fax (213) 241-4832
Our Mission: To ensure a safe and healthy environment for students and staff through the school, our employees and our community. To enhance the educational health and safety of our students.

Distrito Escolar Unificado de Los Angeles Oficina de Salud y Seguridad Ambiental

ALTON BELTRAN
Superintendente de Escuelas
VERONICA BARRERA
Superintendente de Escuelas
CARLOS A. TORRES
Director, Salud y Seguridad Ambiental

14 de diciembre de 2018

A: Vecinos, Estudiantes y Personal de la
McKenley Avenue Escuela Primaria

DESDE: Distrito Escolar Unificado de Los Angeles
Oficina de Salud y Seguridad Ambiental

RESPECTO DE: Evaluación Ambiental
McKenley Avenue Escuela Primaria, Los Angeles, California

El Distrito Escolar Unificado de Los Angeles (LAUSD, por sus siglas en inglés) - Oficina de Salud y Seguridad Ambiental (OEHS, por sus siglas en inglés) desea proporcionarle un aviso previo para una Evaluación Ambiental Preliminar (PEA) que se llevará a cabo dentro de los límites de la Escuela Primaria McKinley Avenue, ubicada en el 7812 McKinley Avenue, Los Angeles, California 90001. La PEA se enfocará en áreas planificadas para la reurbanización del campus. LAUSD lleva a cabo voluntariamente revisiones ambientales para proyectos de construcción y mejoras en escuelas existentes.

Un contratista licenciado, que trabaja en nombre del LAUSD, realizará la investigación ambiental bajo la supervisión del LAUSD-OEHS. La investigación consistirá en el muestreo de suelos en los lugares del campus donde se demolerán las estructuras existentes y nueva construcción tendrá lugar. El suelo se analizará para el potencial químico de preocupación. Si es necesario, medidas de protección se llevarán a cabo antes de las actividades de construcción.

Se prevé que el trabajo de campo esté terminado durante el receso de invierno (i.e. diciembre 15, 2018 hasta enero 6, 2019). Si es necesario un muestreo adicional, este muestreo se llevará a cabo cuando la escuela esté fuera de sesión. El trabajo de campo se realizará entre las 7:00 am y las 7:00 pm.

Los resultados de la investigación serán presentados a LAUSD-OEHS en un informe para su revisión. El informe incluirá una evaluación de si alguno de los químicos de preocupación está presente en el suelo en concentraciones que requieran una evaluación adicional, o si una acción de respuesta será necesaria antes de que el sitio sea despejado para actividades de construcción. Cuando se complete el examen de la OEHS, la OEHS emitirá una determinación con respecto a la evaluación.

Si usted tiene alguna pregunta acerca de la investigación del medio ambiente preliminar y otras actividades relacionadas para el proyecto propuesto, por favor, póngase en contacto con Eric Longmacker, OEHS del LAUSD. Sitio gestor de evaluación del Proyecto al (213) 241-4576 (correo electrónico a eric.longmacker@lausd.net).

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Boring logs

Appendix C



SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPH	LETTER		
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES	
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES	
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SC	CLAYEY SANDS, SAND - CLAY MIXTURES	
		SILTS AND CLAYS LIQUID LIMIT LESS THAN 50	CLEAN SANDS (LITTLE OR NO FINES)		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY		
SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS		
	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		CH	INORGANIC CLAYS OF HIGH PLASTICITY		
	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS		
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SAMPLE TYPE

- STANDARD PENETRATION TEST**
Split barrel sampler in accordance with ASTM D-1586-84 Standard Test Method
- DRIVE SAMPLE** 2.42" I.D. sampler.
- DRIVE SAMPLE** No recovery
- BULK SAMPLE**
- GRAB SAMPLE**
- GROUNDWATER WHILE DRILLING**
- GROUNDWATER AFTER DRILLING**

BORING LOG SYMBOLS

LABORATORY TESTING ABBREVIATIONS		
TEST TYPE (Results shown in Appendix B)	STRENGTH	
CLASSIFICATION		
Plasticity	pi	Pocket Penetrometer
Grain Size Analysis	ma	Direct Shear
Passing No. 200 Sieve	wa	Direct Shear (single point)
Sand Equivalent	se	Unconfined Compression
Expansion Index	ei	Triaxial Compression
Compaction Curve	max	Vane Shear
Hydrometer	h	
		p
		ds
		ds*
		uc
		tx
		vs
		c
		col
		r
		ca
		er

UNIFIED SOIL CLASSIFICATION AND KEY TO BORING LOG SYMBOLS



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Project Name
 McKinley Avenue Elementary School
 Comprehensive Modernization Project
 7812 McKinley Avenue
 Los Angeles, CA

Project No. Figure No.
 18-41-233-02

Log of Boring No. PG

Dates Drilled: 12/26/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	<p style="text-align: center;">SUMMARY OF SUBSURFACE CONDITIONS</p> <p style="font-size: small;">This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</p>	SAMPLES		PID (PPM)
			DRIVE	BULK	
1	[Dotted pattern]	<p>SAND (SP): very fine to fine-grained, minor silt, well sorted, slightly moist, brown.</p>			0.0
2	[Dotted pattern]				0.0
3	[Dotted pattern]				0.0
		<p>Representative of borings PG-1 through -21 and PG-24.</p>			



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Project Name
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Project No.
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Figure No.
 PG

Log of Boring No. S11

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		PID (PPM)
			DRIVE	BULK	
1	[Dotted pattern]	SAND (SP): very fine to fine-grained, minor coarse sand and gravel, moderately sorted, dry, brown. -no gravel, well sorted.			0.0
2	[Dotted pattern]	-no gravel, well sorted.			0.0
3	[Dotted pattern]	Representative of borings S11 -1 through -2.			0.0



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Project Name
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Figure No.
 S11

Log of Boring No. S12

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		PID (PPM)
			DRIVE	BULK	
1		SAND (SP): very fine to fine-grained, well sorted, brown.			0.0
2					0.0
3					0.0
		Representative of borings S12 -1 through -2.			



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Project Name
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Figure No.
 S12

Log of Boring No. S2-1

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		PID (PPM)
			DRIVE	BULK	
1	[Dotted pattern]	SAND (SP): very fine to fine-grained, trace silt, well sorted, dry, brown.			0.0
2	[Dotted pattern]				0.0
3	[Dotted pattern]				0.0
		Representative of borings S2 N2, N3 and E1.			



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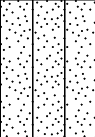


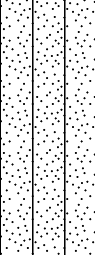


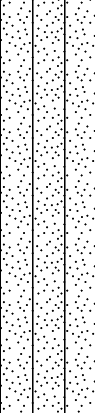


Figure No.
 S2-1

Log of Boring No. S2-2

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS <small>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</small>	SAMPLES		PID (PPM)
			DRIVE	BULK	
1		SILTY SAND (SM): very fine to fine-grained, trace angular gravel, moderately sorted, slightly moist, brown.			0.0
2		SILTY SAND (SM): very fine to fine-grained, trace angular gravel, moderately sorted, slightly moist, brown.			0.0
3		SILTY SAND (SM): very fine to fine-grained, trace angular gravel, moderately sorted, slightly moist, brown.			0.0
		Representative of borings S2 W1, W2 and N1.			



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Project Name
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Project No.
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Figure No.
 S2-2

Log of Boring No. S3

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS		SAMPLES		PID (PPM)	
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	DRIVE	BULK			
1		<p>SAND (SP): very fine to fine-grained, with minor silt and some coarse sand, trace gravel, moderately sorted, dry, brown.</p>			0.0		
2					0.0		
3					0.0		
		<p>Representative of borings S3 E1, E2, W1, S1, W2 and W3 .</p>					



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Figure No.
 S3

Log of Boring No. S4-1

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS <small>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</small>	SAMPLES		PID (PPM)
			DRIVE	BULK	
1	[Dotted pattern]	SAND (SP): very fine to fine-grained, with some silt and minor gravel, dry, brown.			0.0
2	[Dotted pattern]				0.0
3	[Dotted pattern]				0.0
		Representative of borings S4 N2, S2, S3 and E1.			



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Project No.
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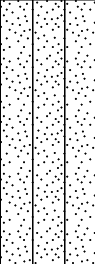
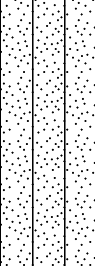
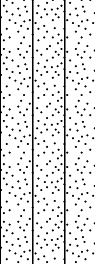
Figure No.
 S4-1

Log of Boring No. S4-2

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		PID (PPM)
			DRIVE	BULK	
1		SILTY SAND (SM): very fine-grained, moderately sorted, slightly moist, brown.			0.0
2					0.0
3					0.0
		Representative of borings S4 W1 and S1			



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Figure No.
 S4-2

Log of Boring No. S5-1

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		PID (PPM)
			DRIVE	BULK	
1	[Dotted pattern]	SAND (SP): very fine to fine-grained, trace silt, moderately sorted, dry, brown.			0.0
2	[Dotted pattern]				0.0
3	[Dotted pattern]				0.0
		Representative of borings S5 E1, W2 and S2			



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Figure No.
 S5-1

Log of Boring No. S5-2

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		PID (PPM)
			DRIVE	BULK	
1	[Dotted pattern]	SAND (SP): very fine to fine-grained, trace silt, moderately sorted, dry, brown.			0.0
2	[Dotted pattern]				0.0
3	[Dotted pattern]				0.0
		Representative of borings S5 W1, S1 and N2			



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Figure No.
 S5-2

Log of Boring No. S6

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS		SAMPLES		PID (PPM)	
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.		DRIVE	BULK		
1	[Dotted pattern]	SAND (SP): very fine to fine-grained, trace silt, moderately sorted, dry, grayish-brown.				0.0	
2	[Dotted pattern]					0.0	
3	[Dotted pattern]					0.0	
		Representative of borings S6 E1 and W1					



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 Los Angeles, CA

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Figure No.
 S6

Log of Boring No. S7E1

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF
 Equipment: GEOPROBE Driving Weight and Drop: N/A
 Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		PID (PPM)
			DRIVE	BULK	
1	[Dotted pattern]	SAND (SP): very fine to fine-grained, minor silt and angular gravel, moderately well sorted, dry, brown. -no gravel, well sorted			0.0
2	[Dotted pattern]	-no gravel, well sorted			0.0
3	[Dotted pattern]				0.0



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Project No.
 18-41-233-02

Figure No.
 S7E1

Log of Boring No. S7N

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS		SAMPLES		PID (PPM)
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	DRIVE	BULK		
1	[Dotted pattern]	SAND (SP): very fine to fine-grained, minor silt, well sorted, dry, brown.				0.0
2	[Dotted pattern]					0.0
3	[Dotted pattern]					0.0
		Representative of borings S7N-1 through -5.				



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 Los Angeles, CA

Project No.
 18-41-233-02

Figure No.
 S7N

Log of Boring No. S7S

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF
 Equipment: GEOPROBE Driving Weight and Drop: N/A
 Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		PID (PPM)
			DRIVE	BULK	
1	[Dotted pattern]	SAND (SP): very fine to fine-grained, minor silt, trace angular gravel, moderately well sorted, dry, brown.			0.0
2	[Dotted pattern]	-no gravel, well sorted			0.0
3	[Dotted pattern]	Representative of borings S7S-1 through -5.			0.0



Converse Consultants

Project Name
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Project No.
 18-41-233-02

Figure No.
 S7S

Log of Boring No. S7W1

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		PID (PPM)
			DRIVE	BULK	
1	[Dotted pattern]	SAND (SP): very fine to fine-grained, minor silt and angular gravel, moderately well sorted, dry, brown.			0.0
2	[Dotted pattern]	-no gravel, well sorted			0.0
3	[Dotted pattern]				0.0



Converse Consultants

Project Name
 McKinley Avenue Elementary School
 Comprehensive Modernization Project
 7812 McKinley Avenue
 Los Angeles, CA

Project No.
 18-41-233-02

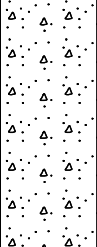
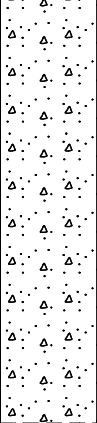
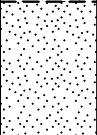
Figure No.
 S7W1

Log of Boring No. S9

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS <small>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</small>	SAMPLES		PID (PPM)
			DRIVE	BULK	
1		GRAVELLY SAND (SW): very fine to fine-grained, moderately sorted, dry, brown.			0.0
2					0.0
3		SAND (SP): very fine to fine-grained, well sorted, dry, brown.			0.0
		Representative of borings S9 N1, N2, S1, E1, E2 and W1.			



Converse Consultants

Project Name
 McKinley Avenue Elementary School
 Comprehensive Modernization Project
 7812 McKinley Avenue
 Los Angeles, CA

Project No.
 18-41-233-02

Figure No.
 S9

Log of Boring No. UST

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		PID (PPM)	
			DRIVE	BULK		
1		SAND (SP): very fine-grained, with minor silt, moderately sorted, slightly moist, dark brown.			0.0	
2						
3						
4						
5						
6						
7						
8						
9						
10			-very fine to fine-grained, less silt, well sorted, brown			0.0
11						
12						
13						
14						
15						0.0



Converse Consultants

Project Name
 McKinley Avenue Elementary School
 Comprehensive Modernization Project
 7812 McKinley Avenue
 Los Angeles, CA

Project No.
 18-41-233-02

Figure No.
 UST

**Laboratory Analytical
Reports**

Appendix D





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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Number of Pages 12
Date Received 12/27/2018
Date Reported 01/07/2019

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95574	12/27/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 15 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD 110320

AETL JOB No. **95574** Page **1** of **6**

COMPANY **CONVERSE** PROJECT MANAGER **JOHN ZIEGLER**

COMPANY ADDRESS **717 S. MYRTLE AV. MONROVIA** PHONE **626 930-1234**

PROJECT NAME **McKinley ES** PROJECT # **18-41-233-02**

SITE NAME AND ADDRESS **7012 McKinley Av. LA 90001** PO #

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS	
							EPA 602 Arsenic	EPA 630 PAHs				
1	PP-1-1.0	12/26/18	7:40	SOIL	151-20ve	ICE	X					
2	PP-1-2.0		7:41									
3	PP-1-3.0		7:42									
4	PP-2-0.5		8:03				X					HOLD
5	PP-2-2.0		8:06									
6	PP-2-3.0		8:07				X					HOLD
7	PP-3-0.5		8:18				X					
8	PP-3-2.0		8:19									
9	PP-3-3.0		8:20				X					HOLD
10	PP-4-0.5		8:30				X					
11	PP-4-2.0		8:31									
12	PP-4-3.0		8:32									
13	PP-5-0.5		8:45				X					HOLD
14	PP-5-2.0		8:46									
15	PP-5-3.0		8:48									

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS **15** PROPERLY COOLED Y / N / NA

CUSTODY SEALS Y / N / NA SAMPLES INTACT Y / N / NA

RECEIVED IN GOOD COND. Y / N SAMPLES ACCEPTED Y / N

TURN AROUND TIME DATA DELIVERABLE REQUIRED

NORMAL RUSH SAME DAY NEXT DAY 2 DAYS 3 DAYS

HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: **[Signature]** Signature: **[Signature]** Signature: **[Signature]**

RELINQUISHED BY: **1.** Signature: **[Signature]** Signature: **[Signature]** Signature: **[Signature]**

RELINQUISHED BY: **2.** Signature: **[Signature]** Signature: **[Signature]** Signature: **[Signature]**

RELINQUISHED BY: **3.** Signature: **[Signature]** Signature: **[Signature]** Signature: **[Signature]**

DATE: **12/27/18** TIME: **11:30** DATE: **12/27/18** TIME: **12:30** DATE: **12/27/18** TIME: **17:30**

RECEIVED BY: **1.** Signature: **[Signature]** Signature: **[Signature]** Signature: **[Signature]**

RECEIVED BY: **2.** Signature: **[Signature]** Signature: **[Signature]** Signature: **[Signature]**

RECEIVED BY: **3.** Signature: **[Signature]** Signature: **[Signature]** Signature: **[Signature]**

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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CHAIN OF CUSTODY RECORD
 110321

AETL JOB No. 95574

PROJECT MANAGER JRZ

COMPANY Converse

COMPANY ADDRESS 717 S. MYRTLE AV. MONROVIA 91066 PHONE 626 930-1234 FAX
 PROJECT NAME McKinley Comp Mod. PROJECT # 10-41-233-02 PO #
 SITE NAME AND ADDRESS McKinley ES
7812 McKinley, CA 90001

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	PP-6-0.5	12/26/18	9:00	SdL	1 SLEEVE	VE
2	PP-6-2.0		9:01			
3	PP-6-3.0		9:02			
4	PG-1-0.5		10:00			
5	PG-1-2.0		10:01			
6	PG-1-3.0		10:02			
7	PG-3-0.5		10:10			
8	PG-3-2.0		10:11			
9	PG-3-3.0		10:12			
10	PG-9-0.5		10:20			
11	PG-9-2.0		10:21			
12	PG-9-3.0		10:22			
13	PG-15-0.5		10:30			
14	PG-15-2.0		10:31			
15	PG-15-3.0		10:32			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 15 PROPERLY COOLED Y / N / NA

CUSTODY SEALS Y / N / NA SAMPLES INTACT Y / N / NA

RECEIVED IN GOOD COND. Y / N / NA SAMPLES ACCEPTED Y / N / NA

TURN AROUND TIME

NORMAL RUSH SAME DAY NEXT DAY 2 DAYS 3 DAYS

HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

DATA DELIVERABLE REQUIRED

RELINQUISHED BY SAMPLER: Signature: [Signature] Date: 12/28/18 Time: 11:30
 RECEIVED BY: Signature: [Signature] Date: 12/27/18 Time: 12:30

RELINQUISHED BY: Signature: [Signature] Date: 12/27/18 Time: 12:30
 RECEIVED BY: Signature: [Signature] Date: 12/27/18 Time: 12:30

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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CHAIN OF CUSTODY RECORD

110323

95574

Page 3 of 6

COMPANY: <u>CONVERSE</u> PROJECT MANAGER: <u>JRZ</u> COMPANY ADDRESS: <u>717 S. MYRTLE AV. MONROVIA CA 91016</u> PHONE: <u>626 930-1234</u> PROJECT NAME: <u>McKinley Comp - Mod.</u> PROJECT #: <u>18-41-233-02-</u> FAX: _____ SITE NAME AND ADDRESS: <u>McKinley Ck</u> PO #: _____ <u>702 McKinley LA CA 90001</u>		AETL JOB No. _____ ANALYSIS REQUESTED: _____ TEST INSTRUCTIONS & COMMENTS: _____							
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS	
1	PG-20-0.5	95574.31	12/26/10	SOLL	15 SLEEVE	ICE	X EPA 6020 As		
2	PG-20-2.0	95574.32	11:11				X EPA 830 PAYS	I HOLD	
3	PG-20-3.0	95574.33	11:12						
4	PG-21-0.5	95574.34	11:20						
5	PG-21-2.0	95574.35	11:21						
6	PG-21-3.0	95574.36	11:22						
7	PG-16-0.5	95574.37	11:30				X	I HOLD	
8	PG-16-2.0	95574.38	11:31				X	I HOLD	
9	PG-16-3.0	95574.39	11:32				X	I HOLD	
10	PG-10-0.5	95574.40	11:40				X	I HOLD	
11	PG-10-2.0	95574.41	11:41				X	I HOLD	
12	PG-10-3.0	95574.42	11:42				X	I HOLD	
13	PG-4-0.5	95574.43	11:50				X	I HOLD	
14	PG-4-2.0	95574.44	11:51				X	I HOLD	
15	PG-4-3.0	95574.45	11:52				X	I HOLD	
SAMPLE RECEIPT - TO BE FILLED BY LABORATORY				RELINQUISHED BY SAMPLER:		RELINQUISHED BY:		RELINQUISHED BY:	
TOTAL NUMBER OF CONTAINERS: <u>15</u>				Signature: <u>JAHN REGER</u>		Signature: _____		Signature: _____	
CUSTODY SEALS: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/>				Printed Name: _____		Printed Name: _____		Printed Name: _____	
RECEIVED IN GOOD COND. Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/>				Date: <u>12/27/18</u> Time: <u>1:30</u>		Date: _____ Time: _____		Date: <u>12/27/18</u> Time: <u>12:30</u>	
TURN AROUND TIME				DATA DELIVERABLE REQUIRED		RECEIVED BY:		RECEIVED BY:	
<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> RUSH <input type="checkbox"/> SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS				<input type="checkbox"/> HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/> GEOTRACKER (GLOBAL ID) <input type="checkbox"/> OTHER (PLEASE SPECIFY) _____		Signature: _____		Signature: _____	
Printed Name: _____				Printed Name: _____		Printed Name: _____		Printed Name: _____	
Date: _____ Time: _____				Date: <u>12/27/18</u> Time: <u>1:30</u>		Date: _____ Time: _____		Date: <u>12/27/18</u> Time: <u>12:30</u>	
Signature: _____				Signature: <u>Sagasa</u>		Signature: _____		Signature: _____	
Printed Name: _____				Printed Name: <u>Sagasa</u>		Printed Name: _____		Printed Name: _____	
Date: _____ Time: _____				Date: <u>12/27/18</u> Time: <u>1:30</u>		Date: _____ Time: _____		Date: <u>12/27/18</u> Time: <u>12:30</u>	

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>Converse</u>			
Project Name:			
AETL Job Number: <u>95574, 95575</u>			
Date Received: <u>12/27/18</u>		Received by: <u>A.J.</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>2</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.4</u> , No 2: <u>3.2</u> , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): <u>sleeves</u>			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <u>HNO₃</u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na₂S₂O₃</u> , <u>MeOH</u>			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>X</u>		
2. Are the Sample labels legible?	<u>X</u>		
3. Do samples match the COC?	<u>X</u>		
4. Are the required analyses clear?	<u>X</u>		
5. Is there enough samples for required analysis?	<u>X</u>		
6. Are samples sealed with evidence tape?		<u>X</u>	
7. Are sample containers in good condition?	<u>X</u>		
8. Are samples preserved?	<u>X</u>		
9. Are samples preserved properly for the intended analysis?	<u>X</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>X</u>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95574	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 45 samples with the following specification on 12/27/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity	Of Containers
95574.01	PP-1-1.0	12/26/2018	Soil	1	
95574.04	PP-2-0.5	12/26/2018	Soil	1	
95574.10	PP-4-0.5	12/26/2018	Soil	1	
95574.13	PP-5-0.5	12/26/2018	Soil	1	
95574.16	PP-6-0.5	12/26/2018	Soil	1	
95574.22	PG-3-0.5	12/26/2018	Soil	1	
95574.25	PG-9-0.5	12/26/2018	Soil	1	
95574.28	PG-15-0.5	12/26/2018	Soil	1	
95574.31	PG-20-0.5	12/26/2018	Soil	1	
95574.34	PG-21-0.5	12/26/2018	Soil	1	
95574.40	PG-10-0.5	12/26/2018	Soil	1	
95574.43	PG-4-0.5	12/26/2018	Soil	1	
Method ^ Submethod	Req Date	Priority	TAT	Units	
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg	
95574.02	PP-1-2.0	12/26/2018	Soil	1	
95574.03	PP-1-3.0	12/26/2018	Soil	1	
95574.05	PP-2-2.0	12/26/2018	Soil	1	
95574.06	PP-2-3.0	12/26/2018	Soil	1	
95574.08	PP-3-2.0	12/26/2018	Soil	1	
95574.09	PP-3-3.0	12/26/2018	Soil	1	
95574.11	PP-4-2.0	12/26/2018	Soil	1	
95574.12	PP-4-3.0	12/26/2018	Soil	1	
95574.14	PP-5-2.0	12/26/2018	Soil	1	
95574.15	PP-5-3.0	12/26/2018	Soil	1	
95574.17	PP-6-2.0	12/26/2018	Soil	1	

Continued



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Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95574	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95574.18	PP-6-3.0	12/26/2018	Soil	1
95574.20	PG-1-2.0	12/26/2018	Soil	1
95574.21	PG-1-3.0	12/26/2018	Soil	1
95574.23	PG-3-2.0	12/26/2018	Soil	1
95574.24	PG-3-3.0	12/26/2018	Soil	1
95574.26	PG-9-2.0	12/26/2018	Soil	1
95574.27	PG-9-3.0	12/26/2018	Soil	1
95574.29	PG-15-2.0	12/26/2018	Soil	1
95574.30	PG-15-3.0	12/26/2018	Soil	1
95574.32	PG-20-2.0	12/26/2018	Soil	1
95574.33	PG-20-3.0	12/26/2018	Soil	1
95574.35	PG-21-2.0	12/26/2018	Soil	1
95574.36	PG-21-3.0	12/26/2018	Soil	1
95574.38	PG-16-2.0	12/26/2018	Soil	1
95574.39	PG-16-3.0	12/26/2018	Soil	1
95574.41	PG-10-2.0	12/26/2018	Soil	1
95574.42	PG-10-3.0	12/26/2018	Soil	1
95574.44	PG-4-2.0	12/26/2018	Soil	1
95574.45	PG-4-3.0	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/03/2019	2	Normal	--

95574.07	PP-3-0.5	12/26/2018	Soil	1
95574.19	PG-1-0.5	12/26/2018	Soil	1
95574.37	PG-16-0.5	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg
(8310)	01/03/2019	2	Normal	mg/Kg

Continued



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Page: 1 C

Ordered By

Converse Consultants
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Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Telephone: (626) 930-1200

Attention: John Ziegler

Job Number	Order Date	Client
95574	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By:  _____

Approved By:  _____

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 2

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C1

Our Lab I.D.		Method Blank	95574.01	95574.04	95574.07	95574.10
Client Sample I.D.			PP-1-1.0	PP-2-0.5	PP-3-0.5	PP-4-0.5
Date Sampled			12/26/2018	12/26/2018	12/26/2018	12/26/2018
Date Prepared		12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	3.95	4.12	6.40



American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

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717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 3

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C1

Our Lab I.D.		95574.13	95574.16	95574.19	95574.22	95574.25
Client Sample I.D.		PP-5-0.5	PP-6-0.5	PG-1-0.5	PG-3-0.5	PG-9-0.5
Date Sampled		12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018
Date Prepared		12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Arsenic	0.05	0.10	4.64	4.18	77.6	61.9



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Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C1

Our Lab I.D.			95574.28				
Client Sample I.D.			PG-15-0.5				
Date Sampled			12/26/2018				
Date Prepared			12/28/2018				
Preparation Method			3050B				
Date Analyzed			12/31/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	MDL	PQL	Results				
Arsenic	0.05	0.10	2.17				



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Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2

Our Lab I.D.		Method Blank	95574.31	95574.34	95574.37	95574.40
Client Sample I.D.			PG-20-0.5	PG-21-0.5	PG-16-0.5	PG-10-0.5
Date Sampled			12/26/2018	12/26/2018	12/26/2018	12/26/2018
Date Prepared		12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	3.91	0.923	2.23



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Los Angeles, CA 90001

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Attn: John Ziegler

Page: 6

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2

Our Lab I.D.			95574.43				
Client Sample I.D.			PG-4-0.5				
Date Sampled			12/26/2018				
Date Prepared			12/28/2018				
Preparation Method			3050B				
Date Analyzed			12/31/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	MDL	PQL	Results				
Arsenic	0.05	0.10	1.31				



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1

Our Lab I.D.			Method Blank	95574.07		
Client Sample I.D.				PP-3-0.5		
Date Sampled				12/26/2018		
Date Prepared			01/03/2019	01/03/2019		
Preparation Method			3550B	3550B		
Date Analyzed			01/03/2019	01/03/2019		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	0.0835		
Benzo(b)fluoranthene	0.010	0.020	ND	0.0562		
Benzo(k)fluoranthene	0.010	0.020	ND	0.0357		
Chrysene	0.010	0.020	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND		
Fluoranthene	0.010	0.020	ND	0.0338		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	0.0123J		
Pyrene	0.010	0.020	ND	0.0360		
2-Methylnaphthalene	0.010	0.020	ND	ND		
Our Lab I.D.			Method Blank	95574.07		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		108	98.3		



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 Monrovia, CA 91016-

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McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 8

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1

Our Lab I.D.			95574.19			
Client Sample I.D.			PG-1-0.5			
Date Sampled			12/26/2018			
Date Prepared			01/03/2019			
Preparation Method			3550B			
Date Analyzed			01/03/2019			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	ND			
Benzo(a)pyrene	0.020	0.040	0.0311J			
Benzo(b)fluoranthene	0.020	0.040	ND			
Benzo(k)fluoranthene	0.020	0.040	ND			
Chrysene	0.020	0.040	0.0344J			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	ND			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	ND			
Anthracene	0.020	0.040	ND			
Benzo(g,h,i)perylene	0.020	0.040	ND			
Fluoranthene	0.020	0.040	ND			
Fluorene	0.020	0.040	ND			
Naphthalene	0.020	0.040	ND			
Phenanthrene	0.020	0.040	ND			
Pyrene	0.020	0.040	ND			
2-Methylnaphthalene	0.020	0.040	ND			
Our Lab I.D.			95574.19			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		104			



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1

Our Lab I.D.			95574.37			
Client Sample I.D.			PG-16-0.5			
Date Sampled			12/26/2018			
Date Prepared			01/03/2019			
Preparation Method			3550B			
Date Analyzed			01/03/2019			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.010	0.020	ND			
Benzo(a)pyrene	0.010	0.020	ND			
Benzo(b)fluoranthene	0.010	0.020	ND			
Benzo(k)fluoranthene	0.010	0.020	ND			
Chrysene	0.010	0.020	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND			
Fluoranthene	0.010	0.020	ND			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	ND			
2-Methylnaphthalene	0.010	0.020	ND			
Our Lab I.D.			95574.37			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		103			



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 Monrovia, CA 91016-

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 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C1; Dup or Spiked Sample: 95574.01; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.95	10.0	14.6	106	10.0	14.5	105	<1	80-120	<15

QC Batch No: 1228181C1; Dup or Spiked Sample: 95574.01; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	8.59	85.9	10.0	9.12	91.2	6.0	80-120	<15



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Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

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Attn: John Ziegler

Page: 11

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2; Dup or Spiked Sample: 95574.31; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.91	10.0	12.7	87.9	10.0	12.7	87.9	<1	80-120	<15

QC Batch No: 1228181C2; Dup or Spiked Sample: 95574.31; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	9.05	90.5	10.0	8.41	84.1	7.3	80-120	<15



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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1; Dup or Spiked Sample: 95575.34; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0525	105	0.0500	0.0505	101	3.9	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0525	105	0.0500	0.0520	104	<1	75-125	<20
Naphthalene	0.00	0.500	0.446	89.2	0.500	0.438	87.6	1.8	75-125	<20
Surrogates										
p-Terphenyl-D14	0.00	0.400	0.428	107	0.400	0.412	103	3.8	75-125	<20

QC Batch No: 010319IB1; Dup or Spiked Sample: 95575.34; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0545	109	0.0500	0.0525	105	3.7	75-125	<20
Benzo(a)pyrene	0.0500	0.0530	106	0.0500	0.0510	102	3.8	75-125	<20
Naphthalene	0.500	0.456	91.2	0.500	0.448	89.6	1.8	75-125	<20
LCS									
Acenaphthene	0.500	0.500	100	0.500	0.477	95.4	4.7	75-125	<20
Acenaphthylene	1.00	1.03	103	1.00	1.01	101	2.0	75-125	<20
Anthracene	0.0500	0.0464	92.8	0.0500	0.0497	99.4	6.9	75-125	<20
Benzo(b)fluoranthene	0.100	0.105	105	0.100	0.102	102	2.9	75-125	<20
Benzo(g,h,i)perylene	0.100	0.102	102	0.100	0.100	100	2.0	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0520	104	0.0500	0.0500	100	3.9	75-125	<20
Chrysene	0.0500	0.0515	103	0.0500	0.0497	99.4	3.6	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.101	101	0.100	0.0998	99.8	1.2	75-125	<20
Fluoranthene	0.100	0.103	103	0.100	0.100	100	3.0	75-125	<20
Fluorene	0.100	0.0995	99.5	0.100	0.0964	96.4	3.2	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0550	110	0.0500	0.0545	109	<1	75-125	<20
Phenanthrene	0.0500	0.0545	109	0.0500	0.0500	100	8.6	75-125	<20
Pyrene	0.0500	0.0515	103	0.0500	0.0500	100	3.0	75-125	<20
Surrogates									
p-Terphenyl-D14	0.400	0.424	106	0.400	0.416	104	1.9	75-125	<20



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Number of Pages 11
Date Received 12/27/2018
Date Reported 01/07/2019

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 13 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



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CHAIN OF CUSTODY RECORD
 110322

AETL JOB No. 95575

COMPANY: **CONVERSE** PROJECT MANAGER: **JRZ**
 COMPANY ADDRESS: 717 S. MYRTLE AV. MONROVIA, CA 91016 PHONE: 626 930-1234 FAX: _____
 PROJECT NAME: McKinley Comp Mod PROJECT #: 18-41-233-02 PO #: _____
 SITE NAME AND ADDRESS: McKinley ES 7012 McKinley A. LA CA 90001

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
1	PG-2-0.5	12/26/18	12:10	SOIL	1 SKEVE	ICE	X EPA 6020 A7	
2	PG-2-2.0		12:11					
3	PG-2-3.0		12:12					[HOLD]
4	PG-5-0.5		12:30				X	
5	PG-5-2.0		12:31				X	[HOLD]
6	PG-5-3.0		12:32				X	
7	PG-11-0.5		12:40				X	
8	PG-11-2.0		12:41				X	[HOLD]
9	PG-11-3.0		12:42				X	
10	PG-17-0.5		1:00				X	
11	PG-17-2.0		1:01				X	
12	PG-17-3.0		1:02				X	[HOLD]
13	PG-18-0.5		1:10				X	
14	PG-18-2.0		1:17				X	
15	PG-18-3.0		1:22				X	[HOLD]

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

RELINQUISHED BY SAMPLER: [Signature] Signature: _____
 Signature: _____
 Printed Name: JOHN ZIEGLER
 Date: 12/28/18 Time: 11:30
 RECEIVED BY: [Signature] Signature: _____
 Signature: _____
 Printed Name: [Signature]
 Date: 12/28/18 Time: 12:30
 RECEIVED BY LABORATORY: AETL 3.
 Signature: _____
 Printed Name: _____
 Date: 12/28/18 Time: 12:30

TOTAL NUMBER OF CONTAINERS: 15 PROPERLY COOLED: Y/N/NA
 CUSTODY SEALS: Y(N)/NA SAMPLES INTACT: Y(N)/NA
 RECEIVED IN GOOD COND.: Y/N SAMPLES ACCEPTED: Y/N

TURN AROUND TIME
 SAME DAY
 NEXT DAY
 2 DAYS
 3 DAYS

DATA DELIVERABLE REQUIRED
 HARD COPY
 PDF
 GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY)

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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CHAIN OF CUSTODY RECORD

110325

95575

AETL JOB No.

Page 5 of 6

COMPANY		PROJECT MANAGER		PHONE		PROJECT #	
COMPANY ADDRESS		PHONE		FAX		PROJECT #	
PROJECT NAME		PROJECT #		PROJECT #		PROJECT #	
SITE NAME AND ADDRESS		PO #		PO #		PO #	
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TEST INSTRUCTIONS & COMMENTS
1	PG-12-0.5	12/26/18	1:35	SOIL	1 SLEEVE	ICE	
2	PG-12-2.0		1:36				
3	PG-12-3.0		1:37				
4	PG-6-0.5		1:50				
5	PG-6-2.0		1:51				
6	PG-6-3.0		1:52				
7	PG-7-0.5		2:00				
8	PG-7-2.0		2:07				
9	PG-7-3.0		2:02				
10	PG-13-0.5		2:15				
11	PG-13-2.0		2:16				
12	PG-13-3.0		2:17				
13	PG-19-0.5		2:30				
14	PG-19-2.0		2:31				
15	PG-19-3.0		2:32				
SAMPLE RECEIPT - TO BE FILLED BY LABORATORY							
TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED	Y/N/NA	RELINQUISHED BY SAMPLES:	1.	RELINQUISHED BY:	2.
CUSTODY SEALS	Y(N)/NA	SAMPLES INTACT	Y/N/NA	Signature:		Signature:	
RECEIVED IN GOOD COND.	Y/N	SAMPLES ACCEPTED	Y/N	Printed Name:	JOHN ZIEGLER	Printed Name:	
TURN AROUND TIME		DATA DELIVERABLE REQUIRED		Date:	12/27/18	Date:	12/27/18
<input checked="" type="checkbox"/> NORMAL	<input type="checkbox"/> RUSH	<input type="checkbox"/> SAME DAY	<input type="checkbox"/> NEXT DAY	RECEIVED BY:	1.	RECEIVED BY:	2.
<input type="checkbox"/> 2 DAYS	<input type="checkbox"/> 3 DAYS	<input type="checkbox"/> HARD COPY	<input type="checkbox"/> PDF	Signature:		Signature:	
		<input type="checkbox"/> GEOTRACKER (GLOBAL ID)	<input type="checkbox"/> OTHER (PLEASE SPECIFY)	Printed Name:		Printed Name:	
				Date:	12/27/18	Date:	12/27/18
				Signature:		Signature:	
				Printed Name:		Printed Name:	
				Date:	12/27/18	Date:	12/27/18
				Signature:		Signature:	
				Printed Name:		Printed Name:	
				Date:	12/27/18	Date:	12/27/18

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CHAIN OF CUSTODY RECORD
110324

95575

AETL JOB No.

PROJECT MANAGER **JRZ**

COMPANY **CONVERSE**

PHONE **626 930-1234**

FAX

PROJECT # **18-4-1233-0P**

PO #

Page **6** of **6**

COMPANY ADDRESS		PROJECT NAME		SITENAME AND ADDRESS		ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
717 S. MYRTLE, MONROVIA 91016		McKinley Comp. Mod		McKinley ES		EPA 670 As			
7812 McKinley Av. UCA 90001		McKinley ES		McKinley ES		EPA 670 As			
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.			
1	P6-24-05	95575.31	12/26/18	SOIL	190ex	ICE	X		
2	P6-24-20	95575.32	2:46						
3	P6-24-30	95575.33	2:47				X		I HOLD
4	P6-14-05	95575.34	2:55				X		I HOLD
5	P6-14-20	95575.35	2:56				X		I HOLD
6	P6-14-30	95575.36	3:06						
7	P6-8-05	95575.37	3:07						
8	P6-8-20	95575.38	3:07						
9	P6-8-30	95575.39	3:08						
10									
11									
12									
13									
14									
15									

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY		RECEIVED BY:	
TOTAL NUMBER OF CONTAINERS	PROPERLY COOLED (Y/N/NA)	SAMPLES INTACT (Y/N/NA)	SAMPLES ACCEPTED (Y/N)
9	Y	Y	Y
CUSTODY SEALS Y (N/NA)		RECEIVED BY: JAN ZIEGLER	
RECEIVED IN GOOD COND. (Y/N)		Signature: <i>[Signature]</i>	
TURN AROUND TIME		Printed Name: JAN ZIEGLER	
<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> RUSH <input type="checkbox"/> SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS		Date: 12/27/18 Time: 1130	
DATA DELIVERABLE REQUIRED		RECEIVED BY: 1.	
<input type="checkbox"/> HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/> GEOTRACKER (GLOBAL ID) <input type="checkbox"/> OTHER (PLEASE SPECIFY)		Signature: <i>[Signature]</i>	
		Printed Name: 1.	
		Date: 12/27/18 Time: 1130	
		RECEIVED BY: 2.	
		Signature: <i>[Signature]</i>	
		Printed Name: 2.	
		Date: 12/27/18 Time: 1230	
		RECEIVED BY: 3.	
		Signature: <i>[Signature]</i>	
		Printed Name: 3.	
		Date: 12/27/18 Time: 1230	

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>Converse</u>			
Project Name:			
AETL Job Number: <u>95574, 95575</u>			
Date Received: <u>12/27/18</u>		Received by: <u>AL</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>2</u>) <input type="checkbox"/> Other (Specify): <u>C</u>			
Inside temperature of shipping container No 1: <u>3.4</u> , No 2: <u>3.2</u> , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): <u>sleeves</u>			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<u>None</u> , <u>HNO₃</u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na₂S₂O₃</u> , <u>MeOH</u>			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>X</u>		
2. Are the Sample labels legible?	<u>X</u>		
3. Do samples match the COC?	<u>X</u>		
4. Are the required analyses clear?	<u>X</u>		
5. Is there enough samples for required analysis?	<u>X</u>		
6. Are samples sealed with evidence tape?		<u>X</u>	
7. Are sample containers in good condition?	<u>X</u>		
8. Are samples preserved?	<u>X</u>		
9. Are samples preserved properly for the intended analysis?	<u>X</u>		
10. Are the VOAs free of headspace?	<u>NI</u>	<u>A</u>	
11. Are the jars free of headspace?	<u>X</u>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 39 samples with the following specification on 12/27/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95575.01	PG-2-0.5	12/26/2018	Soil	1
95575.04	PG-5-0.5	12/26/2018	Soil	1
95575.10	PG-17-0.5	12/26/2018	Soil	1
95575.13	PG-18-0.5	12/26/2018	Soil	1
95575.16	PG-12-0.5	12/26/2018	Soil	1
95575.19	PG-6-0.5	12/26/2018	Soil	1
95575.22	PG-7-0.5	12/26/2018	Soil	1
95575.25	PG-13-0.5	12/26/2018	Soil	1
95575.31	PG-24-0.5	12/26/2018	Soil	1
95575.37	PG-8-0.5	12/26/2018	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg
95575.02	PG-2-2.0	12/26/2018	Soil	1
95575.03	PG-2-3.0	12/26/2018	Soil	1
95575.05	PG-5-2.0	12/26/2018	Soil	1
95575.06	PG-5-3.0	12/26/2018	Soil	1
95575.08	PG-11-2.0	12/26/2018	Soil	1
95575.09	PG-11-3.0	12/26/2018	Soil	1
95575.11	PG-17-2.0	12/26/2018	Soil	1
95575.12	PG-17-3.0	12/26/2018	Soil	1
95575.14	PG-18-2.0	12/26/2018	Soil	1
95575.15	PG-18-3.0	12/26/2018	Soil	1
95575.17	PG-12-2.0	12/26/2018	Soil	1
95575.18	PG-12-3.0	12/26/2018	Soil	1
95575.20	PG-6-2.0	12/26/2018	Soil	1

Continued



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Page: 1 B

Ordered By

Converse Consultants
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Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95575.21	PG-6-3.0	12/26/2018	Soil	1	
95575.23	PG-7-2.0	12/26/2018	Soil	1	
95575.24	PG-7-3.0	12/26/2018	Soil	1	
95575.26	PG-13-2.0	12/26/2018	Soil	1	
95575.27	PG-13-3.0	12/26/2018	Soil	1	
95575.29	PG-19-2.0	12/26/2018	Soil	1	
95575.30	PG-19-3.0	12/26/2018	Soil	1	
95575.32	PG-24-2.0	12/26/2018	Soil	1	
95575.33	PG-24-3.0	12/26/2018	Soil	1	
95575.35	PG-14-2.0	12/26/2018	Soil	1	
95575.36	PG-14-3.0	12/26/2018	Soil	1	
95575.38	PG-8-2.0	12/26/2018	Soil	1	
95575.39	PG-8-3.0	12/26/2018	Soil	1	
Method ^ Submethod					
ARCHIVE		01/03/2019	2	Normal	--
95575.07	PG-11-0.5	12/26/2018	Soil	1	
95575.34	PG-14-0.5	12/26/2018	Soil	1	
Method ^ Submethod					
(6020) ^ AS		01/03/2019	2	Normal	mg/Kg
(8310)		01/03/2019	2	Normal	mg/Kg
95575.28	PG-19-0.5	12/26/2018	Soil	1	
Method ^ Submethod					
(6020) ^ AS		01/03/2019	2	Normal	mg/Kg
(8082)		01/03/2019	2	Normal	ug/Kg
(8310)		01/03/2019	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 2

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2

Our Lab I.D.		Method Blank	95575.01	95575.04	95575.07	95575.10	
Client Sample I.D.			PG-2-0.5	PG-5-0.5	PG-11-0.5	PG-17-0.5	
Date Sampled			12/26/2018	12/26/2018	12/26/2018	12/26/2018	
Date Prepared		12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	10.6	3.34	0.916	5.23



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Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 3

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2

Our Lab I.D.			95575.13				
Client Sample I.D.			PG-18-0.5				
Date Sampled			12/26/2018				
Date Prepared			12/28/2018				
Preparation Method			3050B				
Date Analyzed			12/31/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	MDL	PQL	Results				
Arsenic	0.05	0.10	0.995				



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Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 4

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C3

Our Lab I.D.		Method Blank	95575.16	95575.19	95575.22	95575.25
Client Sample I.D.			PG-12-0.5	PG-6-0.5	PG-7-0.5	PG-13-0.5
Date Sampled			12/26/2018	12/26/2018	12/26/2018	12/26/2018
Date Prepared		12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	2.58	2.87	15.6
						52.8



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Monrovia, CA 91016-

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McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 5

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C3

Our Lab I.D.		95575.28	95575.31	95575.34	95575.37	
Client Sample I.D.		PG-19-0.5	PG-24-0.5	PG-14-0.5	PG-8-0.5	
Date Sampled		12/26/2018	12/26/2018	12/26/2018	12/26/2018	
Date Prepared		12/28/2018	12/28/2018	12/28/2018	12/28/2018	
Preparation Method		3050B	3050B	3050B	3050B	
Date Analyzed		12/31/2018	12/31/2018	12/31/2018	12/31/2018	
Matrix		Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results
Arsenic	0.05	0.10	1.37	0.768	0.650	1.01



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 6

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			Method Blank	95575.28		
Client Sample I.D.				PG-19-0.5		
Date Sampled				12/26/2018		
Date Prepared			01/02/2019	01/02/2019		
Preparation Method			3550B	3550B		
Date Analyzed			01/02/2019	01/02/2019		
Matrix			Soil	Soil		
Units			ug/Kg	ug/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND		
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND		
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND		
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND		
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND		
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND		
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND		
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND		
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND		
Our Lab I.D.			Method Blank	95575.28		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
Decachlorobiphenyl	30-150		104	85.6		
Tetrachloro-m-xylene	30-150		118	90.0		



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 7

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1

Our Lab I.D.			Method Blank	95575.07	95575.28	95575.34	
Client Sample I.D.				PG-11-0.5	PG-19-0.5	PG-14-0.5	
Date Sampled				12/26/2018	12/26/2018	12/26/2018	
Date Prepared			01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(a)pyrene	0.010	0.020	ND	ND	ND	ND	
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND	ND	
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND	ND	
Chrysene	0.010	0.020	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND	ND	
Acenaphthene	0.010	0.020	ND	ND	ND	ND	
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	
Anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND	ND	
Fluoranthene	0.010	0.020	ND	ND	ND	ND	
Fluorene	0.010	0.020	ND	ND	ND	ND	
Naphthalene	0.010	0.020	ND	ND	ND	ND	
Phenanthrene	0.010	0.020	ND	ND	ND	ND	
Pyrene	0.010	0.020	ND	ND	ND	ND	
2-Methylnaphthalene	0.010	0.020	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	95575.07	95575.28	95575.34	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		108	107	105	104	



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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 8

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2; Dup or Spiked Sample: 95574.31; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.91	10.0	12.7	87.9	10.0	12.7	87.9	<1	80-120	<15

QC Batch No: 1228181C2; Dup or Spiked Sample: 95574.31; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	9.05	90.5	10.0	8.41	84.1	7.3	80-120	<15



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 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 9

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C3; Dup or Spiked Sample: 95575.16; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.58	10.0	13.7	111	10.0	13.6	110	<1	80-120	<15

QC Batch No: 1228181C3; Dup or Spiked Sample: 95575.16; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	10.9	109	10.0	10.5	105	3.7	80-120	<15



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 10

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	478	95.6	500	429	85.8	10.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	396	79.2	500	307	61.4	25.3	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.6	98.4	25.0	17.9	71.6	31.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	28.0	112	25.0	26.0	104	7.4	30-150	<40

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	457	91.4	50-150						
Aroclor-1260 (PCB-1260)	500	387	77.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	26.0	104	30-150						
Tetrachloro-m-xylene	25.0	26.8	107	30-150						



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 11

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1; Dup or Spiked Sample: 95575.34; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0525	105	0.0500	0.0505	101	3.9	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0525	105	0.0500	0.0520	104	<1	75-125	<20
Naphthalene	0.00	0.500	0.446	89.2	0.500	0.438	87.6	1.8	75-125	<20
Surrogates										
p-Terphenyl-D14	0.00	0.400	0.428	107	0.400	0.412	103	3.8	75-125	<20

QC Batch No: 010319IB1; Dup or Spiked Sample: 95575.34; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0545	109	0.0500	0.0525	105	3.7	75-125	<20
Benzo(a)pyrene	0.0500	0.0530	106	0.0500	0.0510	102	3.8	75-125	<20
Naphthalene	0.500	0.456	91.2	0.500	0.448	89.6	1.8	75-125	<20
LCS									
Acenaphthene	0.500	0.500	100	0.500	0.477	95.4	4.7	75-125	<20
Acenaphthylene	1.00	1.03	103	1.00	1.01	101	2.0	75-125	<20
Anthracene	0.0500	0.0464	92.8	0.0500	0.0497	99.4	6.9	75-125	<20
Benzo(b)fluoranthene	0.100	0.105	105	0.100	0.102	102	2.9	75-125	<20
Benzo(g,h,i)perylene	0.100	0.102	102	0.100	0.100	100	2.0	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0520	104	0.0500	0.0500	100	3.9	75-125	<20
Chrysene	0.0500	0.0515	103	0.0500	0.0497	99.4	3.6	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.101	101	0.100	0.0998	99.8	1.2	75-125	<20
Fluoranthene	0.100	0.103	103	0.100	0.100	100	3.0	75-125	<20
Fluorene	0.100	0.0995	99.5	0.100	0.0964	96.4	3.2	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0550	110	0.0500	0.0545	109	<1	75-125	<20
Phenanthrene	0.0500	0.0545	109	0.0500	0.0500	100	8.6	75-125	<20
Pyrene	0.0500	0.0515	103	0.0500	0.0500	100	3.0	75-125	<20
Surrogates									
p-Terphenyl-D14	0.400	0.424	106	0.400	0.416	104	1.9	75-125	<20



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Number of Pages 3
Date Received 12/27/2018
Date Reported 01/14/2019

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 2 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



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CHAIN OF CUSTODY RECORD
 110322

AETL JOB No. **95575**

Page **4** of **6**

COMPANY: **CONVERSE** PROJECT MANAGER: **JRZ**
 COMPANY ADDRESS: **717 S. MYRTLE AV. MONROVIA** PHONE: **676 930-1234** FAX: _____
 PROJECT NAME: **McKinley Comp Mod** PROJECT #: **18-A1-233-02** PO #: _____
 SITE NAME AND ADDRESS: **McKinley ES**
7912 McKinley A. LA CA 90001

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	PG-2-0.5	95575.01	12/26/18	SOIL	1 SIEVE	ICE
2	PG-2-2.0	95575.02	12:11			
3	PG-2-3.0	95575.03	12:12			
4	PG-5-0.5	95575.04	12:30			
5	PG-5-2.0	95575.05	12:31			
6	PG-5-3.0	95575.06	12:32			
7	PG-11-0.5	95575.07	12:40			
8	PG-11-2.0	95575.08	12:41			
9	PG-11-3.0	95575.09	12:42			
10	PG-17-0.5	95575.10	1:00			
11	PG-17-2.0	95575.11	1:01			
12	PG-17-3.0	95575.12	1:02			
13	PG-18-0.5	95575.13	1:10			
14	PG-18-2.0	95575.14	1:17			
15	PG-18-3.0	95575.15	1:22			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: **15** PROPERLY COOLED: Y / N / NA
 CUSTODY SEALS: Y / N / NA SAMPLES INTACT: Y / N / NA
 RECEIVED IN GOOD COND: Y / N SAMPLES ACCEPTED: Y / N

DATA DELIVERABLE REQUIRED
 HARD COPY
 PDF
 GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY) _____

TURN AROUND TIME
 NORMAL
 RUSH
 SAME DAY
 NEXT DAY
 2 DAYS
 3 DAYS

RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: _____ Printed Name: _____ Date: _____ Time: _____	Signature: _____ Printed Name: _____ Date: _____ Time: _____	Signature: _____ Printed Name: _____ Date: _____ Time: _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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CHAIN OF CUSTODY RECORD

110325

AETL JOB No. **95575**

Page **5** of **6**

COMPANY		PROJECT MANAGER		ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
COMPANY ADDRESS		PHONE		ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
PROJECT NAME		FAX		ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
SITE NAME AND ADDRESS		PROJECT #		ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
PO #		PROJECT #		ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	
P6-12-0.5	95575.16	12/26/18	1:35	SOIL	1 SLEVE	ICE	
P6-12-2.0	95575.17		1:36				
P6-12-3.0	95575.18		1:37				
P6-6-0.5	95575.19		1:50				
P6-6-2.0	95575.20		1:51				
P6-6-3.0	95575.21		1:52				
P6-7-0.5	95575.22		2:00				
P6-7-2.0	95575.23		2:07				
P6-7-3.0	95575.24		2:02				
P6-13-0.5	95575.25		2:15				
P6-13-2.0	95575.26		2:16				
P6-13-3.0	95575.27		2:17				
P6-19-0.5	95575.28		2:30				
P6-19-2.0	95575.29		2:31				
P6-19-3.0	95575.30		2:32				
SAMPLE RECEIPT - TO BE FILLED BY LABORATORY							
TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED	Y/N/NA	RELINQUISHED BY SAMPLER:	1.	RELINQUISHED BY:	2.
CUSTODY SEALS	Y(N)/NA	SAMPLES INTACT	Y/N/NA	Signature:		Signature:	
RECEIVED IN GOOD COND.	Y/N	SAMPLES ACCEPTED	Y/N	Printed Name:	JOHN ZIEGLER	Printed Name:	
TURN AROUND TIME		DATA DELIVERABLE REQUIRED		Date:	12/27/18	Date:	12/27/18
<input checked="" type="checkbox"/> NORMAL	<input type="checkbox"/> RUSH	<input type="checkbox"/> HARD COPY	<input type="checkbox"/> PDF	RECEIVED BY:	1.	RECEIVED BY:	2.
<input type="checkbox"/> SAME DAY	<input type="checkbox"/> NEXT DAY	<input type="checkbox"/> GEOTRACKER (GLOBAL ID)	<input type="checkbox"/> OTHER (PLEASE SPECIFY)	Signature:		Signature:	
<input type="checkbox"/> 2 DAYS	<input type="checkbox"/> 3 DAYS			Printed Name:		Printed Name:	
				Date:	12/27/18	Date:	12/27/18
				RECEIVED BY LABORATORY:	3.	RECEIVED BY LABORATORY:	3.
				Signature:		Signature:	
				Printed Name:		Printed Name:	
				Date:	12/27/18	Date:	12/27/18

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CHAIN OF CUSTODY RECORD

110324

AETL JOB No. 95575

Page 6 of 6

COMPANY CONVERSE		PROJECT MANAGER JRZ				
COMPANY ADDRESS 717 S. MYRTLE, MONROVIA 91016		PHONE 626 930-1734				
PROJECT NAME McKinley Comp. Mod		PROJECT # 18-A1233-0R				
SITE NAME AND ADDRESS McKinley ES 7012 McKinley Av YUCA 90001		PO #				
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	P6-24-05	12/26/18	2:45	SOIL	1 50x50	ICE
2	P6-24-20		2:46			
3	P6-24-30		2:47			
4	P6-14-05		2:55			
5	P6-14-20		2:56			
6	P6-14-30		3:06			
7	P6-8-05		3:07			
8	P6-8-20		3:08			
9	P6-8-30					
10						
11						
12						
13						
14						
15						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY		RELINQUISHED BY SAMPLER:	RELINQUISHED BY:
TOTAL NUMBER OF CONTAINERS	9	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
CUSTODY SEALS Y (N)/NA		Printed Name: JAN ZIEGLER	Printed Name: <i>[Signature]</i>
RECEIVED IN GOOD COND. (Y) N		Date: 12/27/18	Date: 12/27/18
TURN AROUND TIME		RECEIVED BY:	RECEIVED BY:
<input checked="" type="checkbox"/> NORMAL	<input type="checkbox"/> RUSH	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
<input type="checkbox"/> SAME DAY	<input type="checkbox"/> NEXT DAY	Printed Name: <i>[Signature]</i>	Printed Name: <i>[Signature]</i>
<input type="checkbox"/> 2 DAYS	<input type="checkbox"/> 3 DAYS	Date: 12/27/18	Date: 12/27/18
DATA DELIVERABLE REQUIRED		RECEIVED BY LABORATORY:	RECEIVED BY LABORATORY:
<input type="checkbox"/> HARD COPY	<input type="checkbox"/> PDF	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
<input type="checkbox"/> GEOTRACKER (GLOBAL ID)	<input type="checkbox"/> OTHER (PLEASE SPECIFY)	Printed Name: <i>[Signature]</i>	Printed Name: <i>[Signature]</i>
		Date: 12/27/18	Date: 12/27/18

ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
TRA6070 As	*0
TRA630 PAs	
X	I HOLD
X	I HOLD
X	I HOLD

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

JIM LIN

From: John R. Ziegler [JZiegler@ConverseConsultants.com]
Sent: Tuesday, January 8, 2019 12:01 PM
To: JIM LIN
Subject: RE: Summary Table & PDF results of analysis of samples from project "McKinley Elementary School, Los Angeles, CA"

Jim,

Can you please run the following samples for arsenic:

PG-1-2.0 (95574.20)
PG-1-3.0 (95574.21)
PG-3-2.0 (95574.22)
PG-3-3.0 (95574.23)
PG-13-2.0 (95575-26)
PG-13-3.0 (95575-27)

Also please run an STLC for PG-1-0.5 (95574.19) for STLC for arsenic.

I need the results no later than Thursday afternoon January 10, 2019.

Thanks.

John Ziegler
Senior Professional
CONVERSE CONSULTANTS
717 SOUTH MYRTLE AVENUE
MONROVIA CA 91016
(626) 930-1234 (Office)
(626) 807-3426 (Cell)

jziegler@converseconsultants.com

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From: JIM LIN <jiml@aetlab.com>
Sent: Tuesday, January 8, 2019 9:52 AM
To: John R. Ziegler <JZiegler@ConverseConsultants.com>
Subject: Summary Table & PDF results of analysis of samples from project "McKinley Elementary School, Los Angeles, CA"

Dear John,

Herewith please find Summary Table & PDF results of analysis of samples from project "McKinley Elementary School, 7812 S McKinley Ave, Los Angeles, CA"



American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 39 samples with the following specification on 12/27/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity	Of Containers
95575.01	PG-2-0.5	12/26/2018	Soil	1	
95575.04	PG-5-0.5	12/26/2018	Soil	1	
95575.10	PG-17-0.5	12/26/2018	Soil	1	
95575.13	PG-18-0.5	12/26/2018	Soil	1	
95575.16	PG-12-0.5	12/26/2018	Soil	1	
95575.19	PG-6-0.5	12/26/2018	Soil	1	
95575.22	PG-7-0.5	12/26/2018	Soil	1	
95575.25	PG-13-0.5	12/26/2018	Soil	1	
95575.26	PG-13-2.0	12/26/2018	Soil	1	
95575.27	PG-13-3.0	12/26/2018	Soil	1	
95575.31	PG-24-0.5	12/26/2018	Soil	1	
95575.37	PG-8-0.5	12/26/2018	Soil	1	
Method ^ Submethod	Req Date	Priority	TAT	Units	
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg	
95575.02	PG-2-2.0	12/26/2018	Soil	1	
95575.03	PG-2-3.0	12/26/2018	Soil	1	
95575.05	PG-5-2.0	12/26/2018	Soil	1	
95575.06	PG-5-3.0	12/26/2018	Soil	1	
95575.08	PG-11-2.0	12/26/2018	Soil	1	
95575.09	PG-11-3.0	12/26/2018	Soil	1	
95575.11	PG-17-2.0	12/26/2018	Soil	1	
95575.12	PG-17-3.0	12/26/2018	Soil	1	
95575.14	PG-18-2.0	12/26/2018	Soil	1	
95575.15	PG-18-3.0	12/26/2018	Soil	1	
95575.17	PG-12-2.0	12/26/2018	Soil	1	

Continued



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Page: 1 B

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Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95575.18	PG-12-3.0	12/26/2018	Soil	1	
95575.20	PG-6-2.0	12/26/2018	Soil	1	
95575.21	PG-6-3.0	12/26/2018	Soil	1	
95575.23	PG-7-2.0	12/26/2018	Soil	1	
95575.24	PG-7-3.0	12/26/2018	Soil	1	
95575.29	PG-19-2.0	12/26/2018	Soil	1	
95575.30	PG-19-3.0	12/26/2018	Soil	1	
95575.32	PG-24-2.0	12/26/2018	Soil	1	
95575.33	PG-24-3.0	12/26/2018	Soil	1	
95575.35	PG-14-2.0	12/26/2018	Soil	1	
95575.36	PG-14-3.0	12/26/2018	Soil	1	
95575.38	PG-8-2.0	12/26/2018	Soil	1	
95575.39	PG-8-3.0	12/26/2018	Soil	1	
Method ^ Submethod					
ARCHIVE		01/03/2019	2	Normal	--
95575.07	PG-11-0.5	12/26/2018	Soil	1	
95575.34	PG-14-0.5	12/26/2018	Soil	1	
Method ^ Submethod					
(6020) ^ AS		01/03/2019	2	Normal	mg/Kg
(8310)		01/03/2019	2	Normal	mg/Kg
95575.28	PG-19-0.5	12/26/2018	Soil	1	
Method ^ Submethod					
(6020) ^ AS		01/03/2019	2	Normal	mg/Kg
(8082)		01/03/2019	2	Normal	ug/Kg
(8310)		01/03/2019	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 2

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0109191C2

Our Lab I.D.		Method Blank	95575.26	95575.27		
Client Sample I.D.			PG-13-2.0	PG-13-3.0		
Date Sampled			12/26/2018	12/26/2018		
Date Prepared		01/09/2019	01/09/2019	01/09/2019		
Preparation Method		3050B	3050B	3050B		
Date Analyzed		01/10/2019	01/10/2019	01/10/2019		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Arsenic	0.05	0.10	ND	8.34	0.695	



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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 3

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0109191C2; Dup or Spiked Sample: 95574.20; LCS: Clean Sand; QC Prepared: 01/09/2019; QC Analyzed: 01/10/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	1.07	10.0	11.2	101	10.0	10.6	95.3	5.8	80-120	<15

QC Batch No: 0109191C2; Dup or Spiked Sample: 95574.20; LCS: Clean Sand; QC Prepared: 01/09/2019; QC Analyzed: 01/10/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	10.6	106	10.0	9.93	99.3	6.5	80-120	<15



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Number of Pages 14
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95590	12/28/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Enclosed please find results of analyses of 10 discrete and 3 composite soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



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CHAIN OF CUSTODY RECORD
110332

95590

Page 1 of 3

AETL JOB No.

COMPANY **CONVERSE** PROJECT MANAGER **JRZ**
 COMPANY ADDRESS **717 S. MURTLE, MONROVIA 91016** PHONE **626 930-1234**
 PROJECT NAME **McKinley Comp Mod** PROJECT # **19-A1-233-02**
 SITE NAME AND ADDRESS **McKinley Esy** PO #
7812 S. McKinley LA CA 90001

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
							EPA 6020 G	EPA 6010 Pb	EPA 6082 Pb	
1	55-52-0.5	10/27/18	10:50	SOIL	1 JAR		X			HOLD 20 & 3.0 FOOT SAMPLES
2	55-52-2.0		10:51		↓		X			
3	55-52-3.0		10:52		↓		X			
4	55-51-0.5	10/28/18	11:15		1 JAR		X			COMP GROUP 4.2
5	55-51-2.0		11:16		↓		X			
6	55-51-3.0		11:17		↓		X			
7	54-E1-0.2	10/27/18	12:40				X			COMP GROUP 4.2
8	54-E1-2.0	12/27/18	12:41				X			
9	54-E1-3.0	12/27/18	12:42				X			
10	54-52-0.5	10/27/18	12:43		1 sleeve		X			COMP GROUP 4.2
11	54-53-2.0		12:44		↓		X			
12	54-53-3.0		12:45		↓		X			
13	55-51-0.5	10/28/18	11:15		1 JAR					4.2
14	55-51-2.0		11:16		↓					
15	55-51-3.0		11:17		↓					

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS **11** PROPERLY COOLED Y / N / NA
 CUSTODY SEALS Y / N / NA SAMPLES INTACT Y / N / NA
 RECEIVED IN GOOD COND. Y / N SAMPLES ACCEPTED Y / N

TURN AROUND TIME
 NORMAL RUSH SAME DAY NEXT DAY 2 DAYS 3 DAYS

DATA DELIVERABLE REQUIRED
 HARD COPY PDF GEOFTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: Signature: [Signature] Date: 11/28/18 Time: 11:50
 Printed Name: JOHAN ZIEGLER

RELINQUISHED BY: Signature: [Signature] Date: 11/28/18 Time: 11:50
 Printed Name: [Signature]

RECEIVED BY LABORATORY: Signature: [Signature] Date: 11/28/18 Time: 16:50
 Printed Name: [Signature]

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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CHAIN OF CUSTODY RECORD

110331

AETL JOB No. **95590** Page 2 of 3

COMPANY **CONVERSE** PROJECT MANAGER **JZZ**
 COMPANY ADDRESS **717 S. MYRTLE AVE. MONROVIA 91016** PHONE **626 930-1234**
 PROJECT NAME **McKinley ES COMP.MOD** PROJECT # **18-41-232-02** FAX
 SITE NAME AND ADDRESS **McKinley ES** PO #
7012 McKinley, LA CA 90001

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
56-E1-0.5	95590.13	12/21/18	1:30	SOIL	1 sleeve	
56-E1-2.0	95590.14		1:31			
56-E1-3.0	95590.15		1:32			
56-W1-0.5	95590.16		1:05			
56-W1-2.0	95590.17		1:06			
56-W1-3.0	95590.18		1:07			
55-E1-0.5	95590.19		1:01			
55-E1-2.0	95590.20		1:02			
55-E1-3.0	95590.21		1:03			
55-W1-0.5	95590.22	12/20/18	11:40		1 JAR	
55-W1-2.0	95590.23		11:41			
55-W1-3.0	95590.24		11:42			
55-W2-0.5	95590.25	12/21/18	12:30		1 Sleeve	
55-W2-2.0	95590.26		12:32			
55-W2-3.0	95590.27		12:31			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 15 PROPERLY COOLED Y/N/NA
 CUSTODY SEALS Y N/NA SAMPLES INTACT Y N/NA
 RECEIVED IN GOOD COND. Y N SAMPLES ACCEPTED Y N

TURN AROUND TIME
 NORMAL SAME DAY NEXT DAY
 20 DAYS 3 DAYS

DATA DELIVERABLE REQUIRED
 HARD COPY
 PDF
 GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: [Signature] Signature: _____
 Date: 17/29/18 Date: _____
 Time: 21:50 Time: _____

RELINQUISHED BY: [Signature] Signature: _____
 Date: _____ Date: _____
 Time: _____ Time: _____

RECEIVED BY: [Signature] Signature: _____
 Date: _____ Date: _____
 Time: _____ Time: _____

RECEIVED BY LABORATORY: [Signature] Signature: _____
 Date: _____ Date: _____
 Time: _____ Time: _____

ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
EPA 6070 R	HOLD 2.0 & 3.0 FOOT SAMPLES
EPA 6070 PB	COMP GROUP 5.1
EPA 8092 PWS	COMP GROUP 5.1
	Comp group 5.1
	Comp group 5.1
	Comp group 5.2
	Comp group 4.2

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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CHAIN OF CUSTODY RECORD

110335

Page 3 of 3

95590

AETL JOB No.

COMPANY CONVERSE		PROJECT MANAGER JRZ				
COMPANY ADDRESS 717 S. MYRTLEAY MONROIA 91016		PHONE 626 930-1234 FAX				
PROJECT NAME McKinley Comp Med		PROJECT # 18-41-23502				
SITE NAME AND ADDRESS McKinley ES 7012 McKinley Av. LA CA 90001		PO #				
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	45-N2-05	12-28-18	10:23	SOIL	1 JAR	
2	55-N2-20	↓	10:24	↓		
3	55-N2-30	↓	10:25	↓		
4						
5						
6	Comp 4.2-0.995590-31					
7	Comp 5.1-0.595590-32					
8	Comp 5.2-0.995590-33					
9						
10						
11						
12						
13						
14						
15						

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
EPA 6010 Pb	X	HOLD 2.0 & 3.0	
EPA 808 Pcs		FOOT SAMPLES	
EPA 6020 As	X	Comp group 5.2	
EPA 808 Pcs	X		
EPA 6010 Pb	X		
EPA 6020 As	X		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 6 PROPERLY COOLED Y / N / NA

CUSTOMY SEALS Y / N / NA SAMPLES INTACT Y / N / NA

RECEIVED IN GOOD COND. Y / N SAMPLES ACCEPTED Y / N

TURN AROUND TIME

NORMAL RUSH SAME DAY NEXT DAY 2-DAYS 3-DAYS

Occ

DATA DELIVERABLE REQUIRED

HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER:	1.	2.	3.
Signature: <i>JRZ</i>	Signature: _____	Signature: _____	Signature: _____
Printed Name: _____	Printed Name: _____	Printed Name: _____	Printed Name: _____
Date: <u>12/26/18</u> Time: <u>4:50</u>	Date: _____ Time: _____	Date: _____ Time: _____	Date: _____ Time: _____
RECEIVED BY:	RECEIVED BY:	RECEIVED BY:	RECEIVED BY:
Signature: _____	Signature: _____	Signature: _____	Signature: <i>AETL</i>
Printed Name: _____	Printed Name: _____	Printed Name: _____	Printed Name: _____
Date: _____ Time: _____	Date: _____ Time: _____	Date: _____ Time: _____	Date: <u>12/28/18</u> Time: <u>1650</u>

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>Converse</u>			
Project Name:			
AETL Job Number: <u>95590, 95591</u>			
Date Received: <u>12/28/18</u>		Received by: <u>Ant</u>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>2</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.3</u> , No 2: <u>3.3</u> , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): <u>sleeves</u>			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<u>None</u> , <u>HNO₃</u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na₂S₂O₃</u> , <u>MeOH</u>			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>Y</u>		
2. Are the Sample labels legible?	<u>Y</u>		
3. Do samples match the COC?	<u>Y</u>		
4. Are the required analyses clear?	<u>Y</u>		
5. Is there enough samples for required analysis?	<u>Y</u>		
6. Are samples sealed with evidence tape?		<u>N</u>	
7. Are sample containers in good condition?	<u>Y</u>		
8. Are samples preserved?	<u>Y</u>		
9. Are samples preserved properly for the intended analysis?	<u>Y</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>Y</u>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95590	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 33 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95590.01	S5-S2-0.5	10/27/2018	Soil	1
95590.07	S4-E1-0.2	12/27/2018	Soil	1
95590.11	S4-S3-2.0	12/27/2018	Soil	1
95590.16	S6-W1-0.5	12/27/2018	Soil	1
95590.19	S5-E1-0.5	12/27/2018	Soil	1
95590.22	S5-W1-0.5	12/28/2018	Soil	1
95590.25	S5-W2-0.5	12/27/2018	Soil	1
95590.28	S5-N2-0.5	12/28/2018	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
(6020)^ AS	01/04/2019	2	Normal	mg/Kg
95590.02	S5-S2-2.0	10/27/2018	Soil	1
95590.03	S5-S2-3.0	10/27/2018	Soil	1
95590.05	S5-S1-2.0	10/28/2018	Soil	1
95590.06	S5-S1-3.0	10/28/2018	Soil	1
95590.08	S4-E1-2.0	12/27/2018	Soil	1
95590.09	S4-E1-3.0	12/27/2018	Soil	1
95590.10	S4-S3-0.5	12/27/2018	Soil	1
95590.12	S4-S3-3.0	12/27/2018	Soil	1
95590.14	S6-E1-2.0	12/27/2018	Soil	1
95590.15	S6-E1-3.0	12/27/2018	Soil	1
95590.17	S6-W1-2.0	12/27/2018	Soil	1
95590.18	S6-W1-3.0	12/27/2018	Soil	1
95590.20	S5-E1-2.0	12/27/2018	Soil	1
95590.21	S5-E1-3.0	12/27/2018	Soil	1

Continued



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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95590	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95590.23	S5-W1-2.0	12/28/2018	Soil	1	
95590.24	S5-W1-3.0	12/28/2018	Soil	1	
95590.26	S5-W2-2.0	12/27/2018	Soil	1	
95590.27	S5-W2-3.0	12/27/2018	Soil	1	
95590.29	S5-N2-2.0	12/28/2018	Soil	1	
95590.30	S5-N2-3.0	12/28/2018	Soil	1	
	Method ^ Submethod	Req Date	Priority	TAT	Units
	ARCHIVE	01/04/2019	2	Normal	--
95590.04	S5-S1-0.5	10/28/2018	Soil	1	
95590.13	S6-E1-0.5	12/27/2018	Soil	1	
	Method ^ Submethod	Req Date	Priority	TAT	Units
	(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
	(6020) ^ AS	01/04/2019	2	Normal	mg/Kg
	(8082)	01/04/2019	2	Normal	ug/Kg
95590.31	COMP4.2-0.5	12/27/2018	Soil	1	
95590.32	COMP5.1-0.5	12/27/2018	Soil	1	
95590.33	COMP5.2-0.5	12/27/2018	Soil	1	
	Method ^ Submethod	Req Date	Priority	TAT	Units
	(8081A)	01/03/2019	4	Rush	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



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Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.		Method Blank	95590.31	95590.32	95590.33	
Client Sample I.D.			COMP4.2-0.5	COMP5.1-0.5	COMP5.2-0.5	
Date Sampled			12/27/2018	12/27/2018	12/27/2018	
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method		3550B	3550B	3550B	3550B	
Date Analyzed		01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Matrix		Soil	Soil	Soil	Soil	
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor		1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results
Aldrin	1.0	2.0	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Beta-BHC)	1.0	2.0	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND
Toxaphene	25.0	50.0	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.		Method Blank	95590.31	95590.32	95590.33	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150	108	76.0	86.0	82.8	
Tetrachloro-m-xylene	30-150	138	109	116	102	



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Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			Method Blank	95590.04	95590.13		
Client Sample I.D.				S5-S1-0.5	S6-E1-0.5		
Date Sampled				10/28/2018	12/27/2018		
Date Prepared			01/02/2019	01/02/2019	01/02/2019		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			01/02/2019	01/02/2019	01/02/2019		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND		
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND		
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND		
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND		
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND		
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND		
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND		
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND		
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND		
Our Lab I.D.			Method Blank	95590.04	95590.13		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		104	99.2	91.2		
Tetrachloro-m-xylene	30-150		118	101	96.8		



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Monrovia, CA 91016-

Site

McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C9

Our Lab I.D.		Method Blank	95590.01	95590.04	95590.07	95590.11	
Client Sample I.D.			S5-S2-0.5	S5-S1-0.5	S4-E1-0.2	S4-S3-2.0	
Date Sampled			10/27/2018	10/28/2018	12/27/2018	12/27/2018	
Date Prepared		01/02/2018	01/02/2018	01/02/2018	01/02/2018	01/02/2018	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Lead	2.5	5.0	ND	8.32	5.77	ND	ND



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Monrovia, CA 91016-

Site

McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C9

Our Lab I.D.		95590.13	95590.16	95590.19	95590.22	95590.25	
Client Sample I.D.		S6-E1-0.5	S6-W1-0.5	S5-E1-0.5	S5-W1-0.5	S5-W2-0.5	
Date Sampled		12/27/2018	12/27/2018	12/27/2018	12/28/2018	12/27/2018	
Date Prepared		01/02/2018	01/02/2018	01/02/2018	01/02/2018	01/02/2018	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Lead	2.5	5.0	ND	2.88J	9.50	ND	7.92



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McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

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Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C9

Our Lab I.D.			95590.28				
Client Sample I.D.			S5-N2-0.5				
Date Sampled			12/28/2018				
Date Prepared			01/02/2018				
Preparation Method			3050B				
Date Analyzed			01/03/2019				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	MDL	PQL	Results				
Lead	2.5	5.0	5.00				



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Monrovia, CA 91016-

Site

McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C1

Our Lab I.D.		Method Blank	95590.01	95590.04	95590.07	95590.11	
Client Sample I.D.			S5-S2-0.5	S5-S1-0.5	S4-E1-0.2	S4-S3-2.0	
Date Sampled			10/27/2018	10/28/2018	12/27/2018	12/27/2018	
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	1.30	1.04	1.00	0.936



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 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C1

Our Lab I.D.		95590.13	95590.16	95590.19	95590.22	95590.25
Client Sample I.D.		S6-E1-0.5	S6-W1-0.5	S5-E1-0.5	S5-W1-0.5	S5-W2-0.5
Date Sampled		12/27/2018	12/27/2018	12/27/2018	12/28/2018	12/27/2018
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Arsenic	0.05	0.10	1.09	0.824	0.978	0.983



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717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C1

Our Lab I.D.			95590.28				
Client Sample I.D.			S5-N2-0.5				
Date Sampled			12/28/2018				
Date Prepared			01/02/2019				
Preparation Method			3050B				
Date Analyzed			01/03/2019				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	MDL	PQL	Results				
Arsenic	0.05	0.10	0.760				



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Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 11

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C9; Dup or Spiked Sample: 95590.01; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	8.32	50.0	45.9	75.2	50.0	46.2	75.8	<1	75-125	<15

QC Batch No: 0102182C9; Dup or Spiked Sample: 95590.01; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Lead	50.0	48.9	97.8	50.0	49.3	98.6	<1	75-125	<15



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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C1; Dup or Spiked Sample: 95590.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	1.30	10.0	10.8	95.0	10.0	11.4	101	6.12	80-120	<15

QC Batch No: 0102191C1; Dup or Spiked Sample: 95590.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	9.87	98.7	10.0	9.64	96.4	2.36	80-120	<15



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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	18.4	92.0	20.0	18.5	92.5	<1	40-150	<40
4,4'-DDT (DDT)	1.96	50.0	42.1	80.3	50.0	44.7	85.5	6.3	40-150	<40
Dieldrin	0.276	50.0	47.7	94.8	50.0	48.1	95.6	<1	40-150	<40
Endrin	0.00	50.0	65.0	130	50.0	65.5	131	<1	40-150	<40
Heptachlor	0.00	20.0	19.1	95.5	20.0	19.4	97.0	1.6	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	19.4	97.0	20.0	18.6	93.0	4.2	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	25.0	100	25.0	27.5	110	9.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	34.3	137	25.0	35.3	141	2.9	30-150	<40

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aldrin	20.0	14.9	74.5	20.0	16.1	80.5	7.7	50-150	<40
4,4'-DDT (DDT)	50.0	29.9	59.8	50.0	30.0	60.0	<1	50-150	<40
Dieldrin	50.0	39.7	79.4	50.0	42.4	84.8	6.6	50-150	<40
Endrin	50.0	51.5	103	50.0	53.5	107	3.8	50-150	<40
Heptachlor	20.0	15.7	78.5	20.0	16.3	81.5	3.8	50-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	16.7	83.5	20.0	17.3	86.5	3.5	50-150	<40
Surrogates									
Decachlorobiphenyl	25.0	20.7	82.8	25.0	20.6	82.4	<1	30-150	<40
Tetrachloro-m-xylene	25.0	29.0	116	25.0	30.0	120	3.4	30-150	<40



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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 14

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	478	95.6	500	429	85.8	10.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	396	79.2	500	307	61.4	25.3	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.6	98.4	25.0	17.9	71.6	31.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	28.0	112	25.0	26.0	104	7.4	30-150	<40

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	457	91.4	50-150						
Aroclor-1260 (PCB-1260)	500	387	77.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	26.0	104	30-150						
Tetrachloro-m-xylene	25.0	26.8	107	30-150						



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Number of Pages 23
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95591	12/28/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 17 discrete and 5 composite soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

1103336

COMPANY CONVERSE **PROJECT MANAGER** JDZ **AETL JOB No.** 95591 **Page** 1 **of** 4

COMPANY ADDRESS 717 S. HYRTUE, MONROVIA 91016 **PHONE** 626 930-1234
PROJECT NAME Mckinley Comp Mod **FAX** _____
SITE NAME AND ADDRESS Mckinley ES **PROJECT #** 18-41-233-02
7912 McKinley Av. LA CA 90001 **PO #** _____

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
1	52-N1-0.5	12/28/18	11:45	SOIL	1 JAR		X EPA 800 AS	HOLD TO 3.0 FOOT SAMPLES
2	52-N1-2.0		11:46				X EPA 8010 PB	
3	52-N1-3.0		11:50				X EPA 8062 PCBs	
4	52-N2-0.5	12/27/18	8:20				X	COMP GROUP 2.1
5	52-N2-2.0		8:21				X	COMP GROUP 2.2
6	52-N2-3.0		8:22				X	COMP GROUP 2.2
7	52-N3-0.5		8:10				X	COMP GROUP 2.2
8	52-N3-2.0		9:11				X	COMP GROUP 2.2
9	52-N3-3.0		8:12				X	COMP GROUP 2.2
10	52-E1-0.5		8:00				X	COMP GROUP 2.2
11	52-E1-2.0		8:01				X	COMP GROUP 2.2
12	52-E1-3.0		8:02				X	COMP GROUP 2.2
13	52-W1-0.5	12/28/18	12:00				X	COMP GROUP 2.1
14	52-W1-2.0		12:01				X	COMP GROUP 2.1
15	52-W1-3.0		12:02				X	COMP GROUP 2.1

RELINQUISHED BY SAMPLER: [Signature] **RECEIVED BY:** 1. **RELINQUISHED BY:** 2. **RECEIVED BY:** 3.

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 15 PROPERLY COOLED Y/N/NA
CUSTODY SEALS Y/N/NA SAMPLES INTACT Y/N/NA
RECEIVED IN GOOD COND. Y/N SAMPLES ACCEPTED Y/N

TURN AROUND TIME NORMAL RUSH SAME DAY NEXT DAY 2-DAYS 3-DAYS

DATA DELIVERABLE REQUIRED HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY: [Signature] **RECEIVED BY:** 1. **RELINQUISHED BY:** 2. **RECEIVED BY:** 3.

Signature: _____ **Signature:** _____
Printed Name: _____ **Printed Name:** _____
Date: _____ **Date:** _____
Time: _____ **Time:** _____

Signature: _____ **Signature:** _____
Printed Name: _____ **Printed Name:** _____
Date: _____ **Date:** _____
Time: _____ **Time:** _____

Signature: _____ **Signature:** _____
Printed Name: _____ **Printed Name:** _____
Date: _____ **Date:** _____
Time: _____ **Time:** _____

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CHAIN OF CUSTODY RECORD
110337

AETL JOB No. **95591**

Page **2** of **4**

COMPANY CONVERSE		PROJECT MANAGER JRZ				
COMPANY ADDRESS 717 S. MYRTLE AV, MONROVIA 91016		PHONE 626 970-1734				
PROJECT NAME McKinley Comp Mod		PROJECT # 18-41-733-02				
SITE NAME AND ADDRESS McKinley ES 7012 McKinley AV, LA CA 90001		PO #				
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
52-W2-05	95591.16	12/29/18	12:10	SOIL	1 JAR	
52-W2-20	95591.17		12:11			
52-W2-30	95591.18		12:12			
53-W1-05	95591.19	12/28/18	12:20			
53-W1-20	95591.20		12:21			
53-W1-30	95591.21		12:22			
53-W2-05	95591.22		12:20			
53-W2-20	95591.23		12:31			
53-W2-30	95591.24		12:32			
53-E1-05	95591.25		9:50			
53-E1-20	95591.26		9:55			
53-E1-30	95591.27		9:59			
53-E2-05	95591.28		7:45			
53-E2-20	95591.29		7:46			
53-E2-30	95591.30		7:47			
SAMPLE RECEIPT - TO BE FILLED BY LABORATORY						
TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED	Y/N/NA			
CUSTODY SEALS	Y/N/NA	SAMPLES INTACT	Y/N/NA			
RECEIVED IN GOOD COND.	Y/N	SAMPLES ACCEPTED	Y/N			
TURN AROUND TIME				DATA DELIVERABLE REQUIRED		
<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input checked="" type="checkbox"/> 3 DAYS				<input type="checkbox"/> HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/> GEOTRACKER (GLOBAL ID) <input type="checkbox"/> OTHER (PLEASE SPECIFY)		

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
TPA 600 PB		HOLD ALL 2.0 + 3.0	
TPA 600 AS		FOOT SAMPLES	
TPA 602 AS	X	COMP GROUP	2.1
	X	COMP GROUP	3.1
	X	COMP GROUP	3.1
	X	COMP GROUP	3.2
	X	COMP GROUP	3.2
	X	COMP GROUP	3.2

RELINQUISHED BY: [Signature] **1.** **RECEIVED BY:** [Signature] **2.** **RECEIVED BY:** [Signature] **3.**

SAMPLES: [Signature] **1.** **RECEIVED BY:** [Signature] **2.** **RECEIVED BY:** [Signature] **3.**

Date: 12/29/18 Time: 4:25

Date: 12/29/18 Time: 16:25

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CHAIN OF CUSTODY RECORD
110339

AETL JOB No. **95591** Page **3** of **4**

COMPANY: **CONVERSE** PROJECT MANAGER: **JRZ**
 COMPANY ADDRESS: **717 S. MYRTLE AV, MONROVIA 91016** PHONE: **626 930-1234**
 PROJECT NAME: **Mckinley Comp Med** PROJECT #: **18-41-233-02**
 SITE NAME AND ADDRESS: **Mckinley ES** PO # _____
7017 Mckinley Av. LA CA 90001

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
53-W3-0.5	95591.31	12/20/18	1:30	SOIL	1 JAB	
53-W3-2.0	95591.32		1:31			
53-W3-3.0	95591.33		1:32			
53-51-0.5	95591.34		1:20			
53-51-2.0	95591.35		1:21			
53-51-3.0	95591.36		1:22			
54-N1-0.5	95591.37	12/27/18	2:00	1 SLEEVE		
54-N1-2.0	95591.38		2:01			
54-N1-3.0	95591.39		2:02			
54-N2-0.5	95591.40	12/27/18	1:50			
54-N2-2.0	95591.41		1:51			
54-N2-3.0	95591.42		1:52			
54-52-0.5	95591.43		12:50			
54-52-2.0	95591.44		12:51			
54-52-3.0	95591.45		12:52			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: **15** PROPERLY COOLED Y / N / NA
 CUSTODY SEALS: Y / N / NA SAMPLES INTACT Y / N / NA
 RECEIVED IN GOOD COND.: Y / N SAMPLES ACCEPTED Y / N

TURN AROUND TIME
 NORMAL SAME DAY
 BRUSH NEXT DAY
 OCRS 2 DAYS
 3 DAYS

DATA DELIVERABLE REQUIRED
 HARD COPY
 PDF
 GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY: SAMPLER	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: _____ Printed Name: _____ Date: _____ Time: _____	Signature: _____ Printed Name: JOHN ZIEGLER Date: 12/28/18 Time: 4:25	Signature: _____ Printed Name: _____ Date: _____ Time: _____	Signature: _____ Printed Name: _____ Date: _____ Time: _____

RECEIVED BY: 1. Signature: _____ Printed Name: _____ Date: _____ Time: _____
RECEIVED BY: 2. Signature: _____ Printed Name: _____ Date: _____ Time: _____
RECEIVED BY: 3. Signature: _____ Printed Name: **ACTL** Date: _____ Time: _____

ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS
HOLD ALL 2.0 + 3.0 FOOT SAMPLES
COMP GROUP 3.1
COMP GROUP 3.1
Comp group 3.2
Comp group 3.2
COMP GROUP 4.1

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CHAIN OF CUSTODY RECORD
 110340

95591

Page 4 of 4

COMPANY CONVERSE **PROJECT MANAGER** JRZ
COMPANY ADDRESS 717 S. MYRTLE AV. MONROVIA 91016 **PHONE** 626 930-1734 **FAX**
PROJECT NAME McKinley Comp Mob **PROJECT #** 18-AI-2333-02
SITE NAME AND ADDRESS McKinley ES
 7012 McKinley Av. LA CA 90001 **PO #**

AETL JOB No. 95591

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
							FPA 6010 Pb	FPA 6010 Ag	FPA 6081 PCBs	
54-51-0.5 95591-46		12/20/10	1:00	SOIL	1 JAR		X			HOLD 2.0+3.0 FOOT SAMPLES
54-51-2.0 95591-47			1:01							
54-51-3.0 95591-48			1:03							
54-W1-0.5 95591-49			1:10				X			COMP GROUP 4.1
54-W1-2.0 95591-50			1:11				X			COMP GROUP 4.1
54-W1-3.0 95591-51			1:12							
COMP 2.1 95591-52							X			
COMP 2.2 95591-53							X			
COMP 3.1 95591-54							X			
COMP 3.2 95591-55							X			
COMP 4.1 95591-56							X			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 11 **PROPERLY COOLED** Y/N/NA

CUSTODY SEALS Y/N/NA **SAMPLES INTACT** Y/N/NA

RECEIVED IN GOOD COND. Y/N **SAMPLES ACCEPTED** Y/N

TURN AROUND TIME
 NORMAL SAME DAY NEXT DAY
 RUSH 2 DAYS 3 DAYS
 OCP

DATA DELIVERABLE REQUIRED
 HARD COPY
 PDF
 GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: Signature: [Signature] Printed Name: JOHN ZIEGLER Date: 12-20/10 Time: 4:25

RELINQUISHED BY: 1. Signature: [Signature] Printed Name: [Signature] Date: [Date] Time: [Time]

RELINQUISHED BY: 2. Signature: [Signature] Printed Name: [Signature] Date: [Date] Time: [Time]

RELINQUISHED BY: 3. Signature: [Signature] Printed Name: [Signature] Date: [Date] Time: [Time]

RECEIVED BY LABORATORY: 1. Signature: [Signature] Printed Name: [Signature] Date: [Date] Time: [Time]

RECEIVED BY LABORATORY: 2. Signature: [Signature] Printed Name: [Signature] Date: [Date] Time: [Time]

RECEIVED BY LABORATORY: 3. Signature: [Signature] Printed Name: [Signature] Date: [Date] Time: [Time]

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>Converse</u>			
Project Name:			
AETL Job Number: <u>95590, 95591</u>			
Date Received: <u>12/28/18</u>		Received by: <u>Ant-</u>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>2</u>) <input type="checkbox"/> Other (Specify): <u>0</u>			
Inside temperature of shipping container No 1: <u>3.3</u> , No 2: <u>3.3</u> , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): <u>sleeves</u>			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <u>HNO₃</u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na₂S₂O₃</u> , <u>MeOH</u>			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>X</u>		
2. Are the Sample labels legible?	<u>X</u>		
3. Do samples match the COC?	<u>X</u>		
4. Are the required analyses clear?	<u>X</u>		
5. Is there enough samples for required analysis?	<u>X</u>		
6. Are samples sealed with evidence tape?		<u>0</u>	
7. Are sample containers in good condition?	<u>X</u>		
8. Are samples preserved?	<u>X</u>		
9. Are samples preserved properly for the intended analysis?	<u>X</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>J</u>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95591	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 56 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95591.01	S2-N1-0.5	12/28/2018	Soil	1
95591.04	S2-N2-0.5	12/27/2018	Soil	1
95591.07	S2-N3-0.5	12/27/2018	Soil	1
95591.13	S2-W1-0.5	12/28/2018	Soil	1
95591.16	S2-W2-0.5	12/28/2018	Soil	1
95591.19	S3-W1-0.5	12/28/2018	Soil	1
95591.22	S3-W2-0.5	12/28/2018	Soil	1
95591.25	S3-E1-0.5	12/28/2018	Soil	1
95591.31	S3-W3-0.5	12/28/2018	Soil	1
95591.34	S3-S1-0.5	12/28/2018	Soil	1
95591.37	S4-N1-0.5	12/27/2018	Soil	1
95591.40	S4-N2-0.5	12/27/2018	Soil	1
95591.43	S4-S2-0.5	12/27/2018	Soil	1
95591.46	S4-S1-0.5	12/28/2018	Soil	1
95591.49	S4-W1-0.5	12/28/2018	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg
95591.02	S2-N1-2.0	12/28/2018	Soil	1
95591.03	S2-N1-3.0	12/28/2018	Soil	1
95591.05	S2-N2-2.0	12/27/2018	Soil	1
95591.06	S2-N2-3.0	12/27/2018	Soil	1
95591.08	S2-N3-2.0	12/27/2018	Soil	1
95591.09	S2-N3-3.0	12/27/2018	Soil	1
95591.11	S2-E1-2.0	12/27/2018	Soil	1

Continued



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Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95591	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95591.12	S2-E1-3.0	12/27/2018	Soil	1
95591.14	S2-W1-2.0	12/28/2018	Soil	1
95591.15	S2-W1-3.0	12/28/2018	Soil	1
95591.17	S2-W2-2.0	12/28/2018	Soil	1
95591.18	S2-W2-3.0	12/28/2018	Soil	1
95591.20	S3-W1-2.0	12/28/2018	Soil	1
95591.21	S3-W1-3.0	12/28/2018	Soil	1
95591.23	S3-W2-2.0	12/28/2018	Soil	1
95591.24	S3-W2-3.0	12/28/2018	Soil	1
95591.26	S3-E1-2.0	12/28/2018	Soil	1
95591.27	S3-E1-3.0	12/28/2018	Soil	1
95591.29	S3-E2-2.0	12/28/2018	Soil	1
95591.30	S3-E2-3.0	12/28/2018	Soil	1
95591.32	S3-W3-2.0	12/28/2018	Soil	1
95591.33	S3-W3-3.0	12/28/2018	Soil	1
95591.35	S3-S1-2.0	12/28/2018	Soil	1
95591.36	S3-S1-3.0	12/28/2018	Soil	1
95591.38	S4-N1-2.0	12/27/2018	Soil	1
95591.39	S4-N1-3.0	12/27/2018	Soil	1
95591.41	S4-N2-2.0	12/27/2018	Soil	1
95591.42	S4-N2-3.0	12/27/2018	Soil	1
95591.44	S4-S2-2.0	12/27/2018	Soil	1
95591.45	S4-S2-3.0	12/27/2018	Soil	1
95591.47	S4-S1-2.0	12/28/2018	Soil	1
95591.48	S4-S1-3.0	12/28/2018	Soil	1
95591.50	S4-W1-2.0	12/28/2018	Soil	1
95591.51	S4-W1-3.0	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/04/2019	2	Normal	--

Continued



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Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95591	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity	Of Containers
95591.10	S2-E1-0.5	12/27/2018	Soil	1	
95591.28	S3-E2-0.5	12/28/2018	Soil	1	
	Method ^ Submethod	Req Date	Priority	TAT	Units
	(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
	(6020) ^ AS	01/04/2019	2	Normal	mg/Kg
	(8082)	01/04/2019	2	Normal	ug/Kg
95591.52	COMP2.1-0.5	12/28/2018	Soil	1	
95591.53	COMP2.2-0.5	12/27/2018	Soil	1	
95591.54	COMP3.1-0.5	12/28/2018	Soil	1	
95591.55	COMP3.2-0.5	12/27/2018	Soil	1	
95591.56	COMP4.1-0.5	12/27/2018	Soil	1	
	Method ^ Submethod	Req Date	Priority	TAT	Units
	(8081A)	01/03/2019	4	Rush	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 2

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.		Method Blank	95591.52	95591.53	95591.54	95591.55	
Client Sample I.D.			COMP2.1-0.5	COMP2.2-0.5	COMP3.1-0.5	COMP3.2-0.5	
Date Sampled			12/28/2018	12/27/2018	12/28/2018	12/27/2018	
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	1.11J	ND	1.03J
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	25.0	50.0	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.		Method Blank	95591.52	95591.53	95591.54	95591.55
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150	108	96.0	79.2	86.4	81.6
Tetrachloro-m-xylene	30-150	138	106	113	106	114



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 Monrovia, CA 91016-

Site

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 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.	95591.56		
Client Sample I.D.	COMP4.1-0.5		
Date Sampled	12/27/2018		
Date Prepared	01/02/2019		
Preparation Method	3550B		
Date Analyzed	01/02/2019		
Matrix	Soil		
Units	ug/Kg		
Dilution Factor	1		
Analytes	MDL	PQL	Results
Aldrin	1.0	2.0	ND
Chlordane (Total)	1.0	2.0	ND
Chlordane (alpha)	1.0	2.0	ND
4,4'-DDD (DDD)	1.0	2.0	ND
4,4'-DDE (DDE)	1.0	2.0	ND
4,4'-DDT (DDT)	1.0	2.0	ND
Dieldrin	1.0	2.0	ND
Endosulfan 1	1.0	2.0	ND
Endosulfan 11	1.0	2.0	ND
Endosulfan sulfate	1.0	2.0	ND
Endrin	1.0	2.0	ND
Endrin aldehyde	1.0	2.0	ND
Endrin ketone	1.0	2.0	ND
Chlordane (gamma)	1.0	2.0	ND
Heptachlor	1.0	2.0	ND
Heptachlor epoxide	1.0	2.0	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND
Methoxychlor	5.0	10.0	ND
Toxaphene	25.0	50.0	ND



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ANALYTICAL RESULTS

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.		95591.56				
Surrogates	%Rec.Limit	% Rec.				
Decachlorobiphenyl	30-150	82.4				
Tetrachloro-m-xylene	30-150	124				



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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 6

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			Method Blank	95591.28		
Client Sample I.D.				S3-E2-0.5		
Date Sampled				12/28/2018		
Date Prepared			01/02/2019	01/02/2019		
Preparation Method			3550B	3550B		
Date Analyzed			01/02/2019	01/02/2019		
Matrix			Soil	Soil		
Units			ug/Kg	ug/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND		
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND		
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND		
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND		
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND		
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND		
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND		
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND		
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND		
Our Lab I.D.			Method Blank	95591.28		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
Decachlorobiphenyl	30-150		104	104		
Tetrachloro-m-xylene	30-150		118	106		



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 7

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.		95591.10			
Client Sample I.D.		S2-E1-0.5			
Date Sampled		12/27/2018			
Date Prepared		01/02/2019			
Preparation Method		3550B			
Date Analyzed		01/02/2019			
Matrix		Soil			
Units		ug/Kg			
Dilution Factor		2			
Analytes	MDL	PQL	Results		
Aroclor-1016 (PCB-1016)	50	100	ND		
Aroclor-1221 (PCB-1221)	50	100	ND		
Aroclor-1232 (PCB-1232)	50	100	ND		
Aroclor-1242 (PCB-1242)	50	100	ND		
Aroclor-1248 (PCB-1248)	50	100	ND		
Aroclor-1254 (PCB-1254)	50	100	ND		
Aroclor-1260 (PCB-1260)	50	100	ND		
Aroclor-1262 (PCB-1262)	50	100	ND		
Aroclor-1268 (PCB-1268)	50	100	ND		

Comment(s):

95591.10: Analyzed under dilution due to matrix interference

Our Lab I.D.		95591.10			
Surrogates	%Rec.Limit	% Rec.			
Decachlorobiphenyl	30-150	99.6			
Tetrachloro-m-xylene	30-150	98.8			



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 8

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C10

Our Lab I.D.		Method Blank	95591.01	95591.04	95591.07	95591.10	
Client Sample I.D.			S2-N1-0.5	S2-N2-0.5	S2-N3-0.5	S2-E1-0.5	
Date Sampled			12/28/2018	12/27/2018	12/27/2018	12/27/2018	
Date Prepared		01/02/2018	01/02/2018	01/02/2018	01/02/2018	01/02/2018	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Lead	2.5	5.0	ND	6.95	59.1	6.88	38.9



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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 9

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C10

Our Lab I.D.		95591.13	95591.16	95591.19	95591.22	95591.25	
Client Sample I.D.		S2-W1-0.5	S2-W2-0.5	S3-W1-0.5	S3-W2-0.5	S3-E1-0.5	
Date Sampled		12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018	
Date Prepared		01/02/2018	01/02/2018	01/02/2018	01/02/2018	01/02/2018	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Lead	2.5	5.0	41.4	23.9	49.9	50.1	8.12



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717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 10

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C10

Our Lab I.D.			95591.28				
Client Sample I.D.			S3-E2-0.5				
Date Sampled			12/28/2018				
Date Prepared			01/02/2018				
Preparation Method			3050B				
Date Analyzed			01/03/2019				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	MDL	PQL	Results				
Lead	2.5	5.0	44.1				



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717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 11

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C11

Our Lab I.D.		Method Blank	95591.31	95591.34	95591.37	95591.40	
Client Sample I.D.			S3-W3-0.5	S3-S1-0.5	S4-N1-0.5	S4-N2-0.5	
Date Sampled			12/28/2018	12/28/2018	12/27/2018	12/27/2018	
Date Prepared		01/02/2018	01/02/2018	01/02/2018	01/02/2018	01/02/2018	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Lead	2.5	5.0	ND	46.9	58.5	8.64	2.95J



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Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 12

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C11

Our Lab I.D.		95591.43	95591.46	95591.49		
Client Sample I.D.		S4-S2-0.5	S4-S1-0.5	S4-W1-0.5		
Date Sampled		12/27/2018	12/28/2018	12/28/2018		
Date Prepared		01/02/2018	01/02/2018	01/02/2018		
Preparation Method		3050B	3050B	3050B		
Date Analyzed		01/03/2019	01/03/2019	01/03/2019		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Lead	2.5	5.0	4.73J	20.4	22.1	



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Converse Consultants
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Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 13

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C2

Our Lab I.D.		Method Blank	95591.01	95591.04	95591.07	95591.10	
Client Sample I.D.			S2-N1-0.5	S2-N2-0.5	S2-N3-0.5	S2-E1-0.5	
Date Sampled			12/28/2018	12/27/2018	12/27/2018	12/27/2018	
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	1.83	9.44	2.13	24.0



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C2

Our Lab I.D.		95591.13	95591.16	95591.19	95591.22	95591.25
Client Sample I.D.		S2-W1-0.5	S2-W2-0.5	S3-W1-0.5	S3-W2-0.5	S3-E1-0.5
Date Sampled		12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Arsenic	0.05	0.10	6.17	4.06	11.7	13.3



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Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C2

Our Lab I.D.			95591.28			
Client Sample I.D.			S3-E2-0.5			
Date Sampled			12/28/2018			
Date Prepared			01/02/2019			
Preparation Method			3050B			
Date Analyzed			01/03/2019			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Arsenic	0.05	0.10	1.52			



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Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C3

Our Lab I.D.		Method Blank	95591.31	95591.34	95591.37	95591.40	
Client Sample I.D.			S3-W3-0.5	S3-S1-0.5	S4-N1-0.5	S4-N2-0.5	
Date Sampled			12/28/2018	12/28/2018	12/27/2018	12/27/2018	
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	28.6	3.38	0.821	1.13



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

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Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C3

Our Lab I.D.		95591.43	95591.46	95591.49		
Client Sample I.D.		S4-S2-0.5	S4-S1-0.5	S4-W1-0.5		
Date Sampled		12/27/2018	12/28/2018	12/28/2018		
Date Prepared		01/02/2019	01/02/2019	01/02/2019		
Preparation Method		3050B	3050B	3050B		
Date Analyzed		01/03/2019	01/03/2019	01/03/2019		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Arsenic	0.05	0.10	10.4	2.60	3.62	



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 7812 McKinley Ave.
 Los Angeles, CA 90001

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Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C10; Dup or Spiked Sample: 95591.01; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	6.95	50.0	43.1 #	72.3	50.0	44.0 #	74.1	2.5	75-125	<15

QC Batch No: 0102182C10; Dup or Spiked Sample: 95591.01; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Lead	50.0	48.7	97.4	50.0	48.5	97.0	<1	75-125	<15



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 Los Angeles, CA 90001

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Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C11; Dup or Spiked Sample: 95591.31; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	46.9	50.0	85.5	77.2	50.0	84.6	75.4	2.4	75-125	<15

QC Batch No: 0102182C11; Dup or Spiked Sample: 95591.31; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Lead	50.0	48.4	96.8	50.0	49.0	98.0	1.2	75-125	<15



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Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C2; Dup or Spiked Sample: 95591.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	1.83	10.0	11.5	96.7	10.0	10.6	87.7	9.76	80-120	<15

QC Batch No: 0102191C2; Dup or Spiked Sample: 95591.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	10.2	102	10.0	9.19	91.9	10.4	80-120	<15



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 21

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C3; Dup or Spiked Sample: 95591.31; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	28.6	10.0	35.4 #	68.0	10.0	36.2 #	76.0	11.1	80-120	<15

QC Batch No: 0102191C3; Dup or Spiked Sample: 95591.31; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	9.24	92.4	10.0	10.0	100	7.90	80-120	<15



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	18.4	92.0	20.0	18.5	92.5	<1	40-150	<40
4,4'-DDT (DDT)	1.96	50.0	42.1	80.3	50.0	44.7	85.5	6.3	40-150	<40
Dieldrin	0.276	50.0	47.7	94.8	50.0	48.1	95.6	<1	40-150	<40
Endrin	0.00	50.0	65.0	130	50.0	65.5	131	<1	40-150	<40
Heptachlor	0.00	20.0	19.1	95.5	20.0	19.4	97.0	1.6	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	19.4	97.0	20.0	18.6	93.0	4.2	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	25.0	100	25.0	27.5	110	9.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	34.3	137	25.0	35.3	141	2.9	30-150	<40

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aldrin	20.0	14.9	74.5	20.0	16.1	80.5	7.7	50-150	<40
4,4'-DDT (DDT)	50.0	29.9	59.8	50.0	30.0	60.0	<1	50-150	<40
Dieldrin	50.0	39.7	79.4	50.0	42.4	84.8	6.6	50-150	<40
Endrin	50.0	51.5	103	50.0	53.5	107	3.8	50-150	<40
Heptachlor	20.0	15.7	78.5	20.0	16.3	81.5	3.8	50-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	16.7	83.5	20.0	17.3	86.5	3.5	50-150	<40
Surrogates									
Decachlorobiphenyl	25.0	20.7	82.8	25.0	20.6	82.4	<1	30-150	<40
Tetrachloro-m-xylene	25.0	29.0	116	25.0	30.0	120	3.4	30-150	<40



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	478	95.6	500	429	85.8	10.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	396	79.2	500	307	61.4	25.3	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.6	98.4	25.0	17.9	71.6	31.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	28.0	112	25.0	26.0	104	7.4	30-150	<40

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	457	91.4	50-150						
Aroclor-1260 (PCB-1260)	500	387	77.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	26.0	104	30-150						
Tetrachloro-m-xylene	25.0	26.8	107	30-150						



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Monrovia, CA 91016-

Number of Pages 16
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95592	12/28/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 S. McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 6 discrete and 2 composite soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



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CHAIN OF CUSTODY RECORD
110330

COMPANY: **CONVERSE** PROJECT MANAGER: **JRZ**
 COMPANY ADDRESS: **117 S. MYRTLE AV. MONROVIA 91016** PHONE: **626 930-1234** FAX: _____
 PROJECT NAME: **McKinley Comp Mod** PROJECT #: **18-41-237-02**
 SITE NAME AND ADDRESS: **McKinley Es** PO #: _____
7812 S. McKinley LA CA 90001

AETL JOB No. **95592** Page **1** of **2**

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS	
							EPA 6000 A3	EPA 6010 Pb	EPA 8082 PCBs		
1	59-N1-0.5	95592.01	12/17/18	8:30	SOIL	1 JAR		X	X	X	Hold 2.0+3.0 SAMPLES
2	59-N1-2.0	95592.02	8:31					X	X	X	Comp group 9.1
3	59-N1-3.0	95592.03	8:32					X	X	X	Comp group 9.1
4	59-N2-0.5	95592.04	8:40					X	X	X	Comp group 9.1
5	59-N2-2.0	95592.05	8:41					X	X	X	Comp group 9.1
6	59-N2-3.0	95592.06	8:42					X	X	X	Comp group 9.1
7	59-W1-0.5	95592.07	8:50					X	X	X	Comp group 9.1
8	59-W1-2.0	95592.08	8:51					X	X	X	Comp group 9.1
9	59-W1-3.0	95592.09	8:52					X	X	X	Comp group 9.1
10	59-E1-0.5	95592.10	12/23/18	8:40	1 SLAVE			X	X	X	Comp group 9.1
11	59-E1-2.0	95592.11	12/23/18	8:41	1 SLAVE			X	X	X	Comp group 9.1
12	59-E1-3.0	95592.12	12/23/18	8:42	1 SLAVE			X	X	X	Comp group 9.1
13	59-E2-0.5	95592.13	12/27/18	9:00	1 JAR			X	X	X	Comp group 9.2
14	59-E2-2.0	95592.14	12/27/18	9:01	1 JAR			X	X	X	Comp group 9.2
15	59-E2-3.0	95592.15	12/27/18	9:02	1 JAR			X	X	X	Comp group 9.2

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: **15** PROPERLY COOLED: Y / N / NA
 CUSTODY SEALS: Y / N / NA SAMPLES INTACT: Y / N / NA
 RECEIVED IN GOOD COND.: Y / N SAMPLES ACCEPTED: Y / N

TURN AROUND TIME
 NORMAL SAME DAY NEXT DAY 2-DAYS 3-DAYS
 (Handwritten: **OLPS**)

DATA DELIVERABLE REQUIRED
 HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY:
 1. Signature: *[Signature]* Printed Name: **JOHN ZIEGLER** Date: **12/28/18** Time: **4:20**
 2. Signature: _____ Printed Name: _____ Date: _____ Time: _____
 3. Signature: _____ Printed Name: _____ Date: _____ Time: _____

RECEIVED BY:
 1. Signature: _____ Printed Name: _____ Date: _____ Time: _____
 2. Signature: _____ Printed Name: _____ Date: _____ Time: _____
 3. Signature: *[Signature]* Printed Name: **AETL** Date: **12/28/18** Time: **1630**

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>Converse</u>			
Project Name:			
AETL Job Number: <u>95592</u>			
Date Received: <u>12/28/18</u>		Received by: <u>Ad</u>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>1</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.3</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): <u>sleeves</u>			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<u>None</u> , <u>HNO₃</u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na₂S₂O₃</u> , <u>MeOH</u>			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>X</u>		
2. Are the Sample labels legible?	<u>X</u>		
3. Do samples match the COC?	<u>X</u>		
4. Are the required analyses clear?	<u>X</u>		
5. Is there enough samples for required analysis?	<u>X</u>		
6. Are samples sealed with evidence tape?		<u>X</u>	
7. Are sample containers in good condition?	<u>X</u>		
8. Are samples preserved?	<u>X</u>		
9. Are samples preserved properly for the intended analysis?	<u>X</u>		
10. Are the VOAs free of headspace?	<u>MS</u>		
11. Are the jars free of headspace?	<u>L</u>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95592	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 20 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers		
95592.01	S9-N1-0.5	12/27/2018	Soil	1		
95592.13	S9-E2-0.5	12/28/2018	Soil	1		
	Method ^ Submethod	Req Date	Priority	TAT	Units	
	(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg	
	(6020) ^ AS	01/04/2019	2	Normal	mg/Kg	
	(8082)	01/04/2019	2	Normal	ug/Kg	
95592.02	S9-N1-2.0	12/27/2018	Soil	1		
95592.03	S9-N1-3.0	12/27/2018	Soil	1		
95592.05	S9-N2-2.0	12/27/2018	Soil	1		
95592.06	S9-N2-3.0	12/27/2018	Soil	1		
95592.08	S9-W1-2.0	12/27/2018	Soil	1		
95592.09	S9-W1-3.0	12/27/2018	Soil	1		
95592.11	S9-E1-2.0	12/28/2018	Soil	1		
95592.12	S9-E1-3.0	12/28/2018	Soil	1		
95592.14	S9-E2-2.0	12/28/2018	Soil	1		
95592.15	S9-E2-3.0	12/28/2018	Soil	1		
95592.17	S9-S1-2.0	12/28/2018	Soil	1		
95592.18	S9-S1-3.0	12/28/2018	Soil	1		
	Method ^ Submethod	Req Date	Priority	TAT	Units	
	ARCHIVE	01/04/2019	2	Normal	--	
95592.04	S9-N2-0.5	12/27/2018	Soil	1		
95592.07	S9-W1-0.5	12/27/2018	Soil	1		
95592.10	S9-E1-0.5	12/28/2018	Soil	1		
95592.16	S9-S1-0.5	12/28/2018	Soil	1		
	Method ^ Submethod	Req Date	Priority	TAT	Units	
	(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg	

Continued



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Page: 1 B

Ordered By

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Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95592	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95592.16	S9-S1-0.5	12/28/2018	Soil		1
Method ^ Submethod		Req Date	Priority	TAT	Units
(6020) ^ AS		01/04/2019	2	Normal	mg/Kg
95592.19	COMP9.1-0.5	12/27/2018	Soil		1
95592.20	COMP9.2-0.5	12/27/2018	Soil		1
Method ^ Submethod		Req Date	Priority	TAT	Units
(8081A)		01/03/2019	4	Rush	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 2

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			01/02/2019			
Preparation Method			3550B			
Date Analyzed			01/02/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Aldrin	1.0	2.0	ND			
Chlordane (Total)	1.0	2.0	ND			
Chlordane (alpha)	1.0	2.0	ND			
4,4'-DDD (DDD)	1.0	2.0	ND			
4,4'-DDE (DDE)	1.0	2.0	ND			
4,4'-DDT (DDT)	1.0	2.0	ND			
Dieldrin	1.0	2.0	ND			
Endosulfan 1	1.0	2.0	ND			
Endosulfan 11	1.0	2.0	ND			
Endosulfan sulfate	1.0	2.0	ND			
Endrin	1.0	2.0	ND			
Endrin aldehyde	1.0	2.0	ND			
Endrin ketone	1.0	2.0	ND			
Chlordane (gamma)	1.0	2.0	ND			
Heptachlor	1.0	2.0	ND			
Heptachlor epoxide	1.0	2.0	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND			
beta-Hexachlorocyclohexane (Beta-BHC)	1.0	2.0	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND			
Methoxychlor	5.0	10.0	ND			
Toxaphene	25.0	50.0	ND			



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ANALYTICAL RESULTS

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.		Method Blank				
Surrogates	%Rec.Limit	% Rec.				
Decachlorobiphenyl	30-150	108				
Tetrachloro-m-xylene	30-150	138				



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Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 4

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			95592.19	95592.20		
Client Sample I.D.			COMP9.1-0.5	COMP9.2-0.5		
Date Sampled			12/27/2018	12/27/2018		
Date Prepared			01/02/2019	01/02/2019		
Preparation Method			3550B	3550B		
Date Analyzed			01/02/2019	01/02/2019		
Matrix			Soil	Soil		
Units			ug/Kg	ug/Kg		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Aldrin	5	10	ND	ND		
Chlordane (Total)	5	10	ND	ND		
Chlordane (alpha)	5	10	ND	ND		
4,4'-DDD (DDD)	5	10	ND	ND		
4,4'-DDE (DDE)	5	10	ND	ND		
4,4'-DDT (DDT)	5	10	ND	ND		
Dieldrin	5	10	ND	ND		
Endosulfan 1	5	10	ND	ND		
Endosulfan 11	5	10	ND	ND		
Endosulfan sulfate	5	10	ND	ND		
Endrin	5	10	ND	ND		
Endrin aldehyde	5	10	ND	ND		
Endrin ketone	5	10	ND	ND		
Chlordane (gamma)	5	10	ND	ND		
Heptachlor	5	10	ND	ND		
Heptachlor epoxide	5	10	ND	ND		
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND	ND		
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND	ND		
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND	ND		
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND	ND		
Methoxychlor	25	50	ND	ND		
Toxaphene	125	250	ND	ND		

Comment(s):

95592.19: Analyzed under dilution due to matrix interference 95592.20: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			95592.19	95592.20			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		89.2	82.4			
Tetrachloro-m-xylene	30-150		125	112			



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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 6

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			01/02/2019			
Preparation Method			3550B			
Date Analyzed			01/02/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Aroclor-1016 (PCB-1016)	25.0	50.0	ND			
Aroclor-1221 (PCB-1221)	25.0	50.0	ND			
Aroclor-1232 (PCB-1232)	25.0	50.0	ND			
Aroclor-1242 (PCB-1242)	25.0	50.0	ND			
Aroclor-1248 (PCB-1248)	25.0	50.0	ND			
Aroclor-1254 (PCB-1254)	25.0	50.0	ND			
Aroclor-1260 (PCB-1260)	25.0	50.0	ND			
Aroclor-1262 (PCB-1262)	25.0	50.0	ND			
Aroclor-1268 (PCB-1268)	25.0	50.0	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
Decachlorobiphenyl	30-150		104			
Tetrachloro-m-xylene	30-150		118			



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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 7

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.		95592.01			
Client Sample I.D.		S9-N1-0.5			
Date Sampled		12/27/2018			
Date Prepared		01/02/2019			
Preparation Method		3550B			
Date Analyzed		01/02/2019			
Matrix		Soil			
Units		ug/Kg			
Dilution Factor		5			
Analytes	MDL	PQL	Results		
Aroclor-1016 (PCB-1016)	125	250	ND		
Aroclor-1221 (PCB-1221)	125	250	ND		
Aroclor-1232 (PCB-1232)	125	250	ND		
Aroclor-1242 (PCB-1242)	125	250	ND		
Aroclor-1248 (PCB-1248)	125	250	ND		
Aroclor-1254 (PCB-1254)	125	250	ND		
Aroclor-1260 (PCB-1260)	125	250	ND		
Aroclor-1262 (PCB-1262)	125	250	ND		
Aroclor-1268 (PCB-1268)	125	250	ND		

Comment(s):

95592.01: Analyzed under dilution due to matrix interference

Our Lab I.D.		95592.01			
Surrogates	%Rec.Limit	% Rec.			
Decachlorobiphenyl	30-150	139			
Tetrachloro-m-xylene	30-150	114			



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 8

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.		95592.13			
Client Sample I.D.		S9-E2-0.5			
Date Sampled		12/28/2018			
Date Prepared		01/02/2019			
Preparation Method		3550B			
Date Analyzed		01/02/2019			
Matrix		Soil			
Units		ug/Kg			
Dilution Factor		2			
Analytes	MDL	PQL	Results		
Aroclor-1016 (PCB-1016)	50	100	ND		
Aroclor-1221 (PCB-1221)	50	100	ND		
Aroclor-1232 (PCB-1232)	50	100	ND		
Aroclor-1242 (PCB-1242)	50	100	ND		
Aroclor-1248 (PCB-1248)	50	100	ND		
Aroclor-1254 (PCB-1254)	50	100	ND		
Aroclor-1260 (PCB-1260)	50	100	ND		
Aroclor-1262 (PCB-1262)	50	100	ND		
Aroclor-1268 (PCB-1268)	50	100	ND		

Comment(s):

95592.13: Analyzed under dilution due to matrix interference

Our Lab I.D.		95592.13			
Surrogates	%Rec.Limit	% Rec.			
Decachlorobiphenyl	30-150	114			
Tetrachloro-m-xylene	30-150	109			



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ANALYTICAL RESULTS

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717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 S. McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 9

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C2

Our Lab I.D.		Method Blank	95592.01	95592.04	95592.07	95592.10	
Client Sample I.D.			S9-N1-0.5	S9-N2-0.5	S9-W1-0.5	S9-E1-0.5	
Date Sampled			12/27/2018	12/27/2018	12/27/2018	12/28/2018	
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Lead	2.5	5.0	ND	25.8	20.9	16.4	ND



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Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 S. McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 10

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C2

Our Lab I.D.		95592.13	95592.16			
Client Sample I.D.		S9-E2-0.5	S9-S1-0.5			
Date Sampled		12/28/2018	12/28/2018			
Date Prepared		01/02/2019	01/02/2019			
Preparation Method		3050B	3050B			
Date Analyzed		01/03/2019	01/03/2019			
Matrix		Soil	Soil			
Units		mg/Kg	mg/Kg			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Lead	2.5	5.0	12.8	20.8		



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 S. McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 11

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C4

Our Lab I.D.		Method Blank	95592.01	95592.04	95592.07	95592.10	
Client Sample I.D.			S9-N1-0.5	S9-N2-0.5	S9-W1-0.5	S9-E1-0.5	
Date Sampled			12/27/2018	12/27/2018	12/27/2018	12/28/2018	
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	4.38	3.49	3.09	0.610



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Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 12

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C4

Our Lab I.D.		95592.13	95592.16			
Client Sample I.D.		S9-E2-0.5	S9-S1-0.5			
Date Sampled		12/28/2018	12/28/2018			
Date Prepared		01/02/2019	01/02/2019			
Preparation Method		3050B	3050B			
Date Analyzed		01/03/2019	01/03/2019			
Matrix		Soil	Soil			
Units		mg/Kg	mg/Kg			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Arsenic	0.05	0.10	3.26	4.42		



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Telephone: (626)930-1200

Attn: John Ziegler

Page: 13

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C2; Dup or Spiked Sample: 95592.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	20.9	50.0	60.8	79.8	50.0	60.3	78.8	1.3	75-125	<15

QC Batch No: 0102192C2; Dup or Spiked Sample: 95592.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Lead	50.0	49.5	99.0	50.0	49.1	98.2	<1	75-125	<15



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 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 14

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C4; Dup or Spiked Sample: 95592.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.49	10.0	13.5	100	10.0	13.5	100	<1	80-120	<15

QC Batch No: 0102191C4; Dup or Spiked Sample: 95592.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	9.01	90.1	10.0	9.05	90.5	<1	80-120	<15



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 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 15

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	18.4	92.0	20.0	18.5	92.5	<1	40-150	<40
4,4'-DDT (DDT)	1.96	50.0	42.1	80.3	50.0	44.7	85.5	6.3	40-150	<40
Dieldrin	0.276	50.0	47.7	94.8	50.0	48.1	95.6	<1	40-150	<40
Endrin	0.00	50.0	65.0	130	50.0	65.5	131	<1	40-150	<40
Heptachlor	0.00	20.0	19.1	95.5	20.0	19.4	97.0	1.6	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	19.4	97.0	20.0	18.6	93.0	4.2	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	25.0	100	25.0	27.5	110	9.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	34.3	137	25.0	35.3	141	2.9	30-150	<40

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aldrin	20.0	14.9	74.5	20.0	16.1	80.5	7.7	50-150	<40
4,4'-DDT (DDT)	50.0	29.9	59.8	50.0	30.0	60.0	<1	50-150	<40
Dieldrin	50.0	39.7	79.4	50.0	42.4	84.8	6.6	50-150	<40
Endrin	50.0	51.5	103	50.0	53.5	107	3.8	50-150	<40
Heptachlor	20.0	15.7	78.5	20.0	16.3	81.5	3.8	50-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	16.7	83.5	20.0	17.3	86.5	3.5	50-150	<40
Surrogates									
Decachlorobiphenyl	25.0	20.7	82.8	25.0	20.6	82.4	<1	30-150	<40
Tetrachloro-m-xylene	25.0	29.0	116	25.0	30.0	120	3.4	30-150	<40



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Site

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 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 16

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	478	95.6	500	429	85.8	10.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	396	79.2	500	307	61.4	25.3	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.6	98.4	25.0	17.9	71.6	31.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	28.0	112	25.0	26.0	104	7.4	30-150	<40

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	457	91.4	50-150						
Aroclor-1260 (PCB-1260)	500	387	77.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	26.0	104	30-150						
Tetrachloro-m-xylene	25.0	26.8	107	30-150						



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Number of Pages 17
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95593	12/28/2018	CONVRS

Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 12 discrete and 3 composite soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



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CHAIN OF CUSTODY RECORD
 110430

95593

Page 1 of 3

COMPANY: **CONVERSE** PROJECT MANAGER: **JRZ**
 COMPANY ADDRESS: **717 S. MYRTLE AVE MONROVIA** PHONE: **91016** PHONE: **126930-1234**
 PROJECT NAME: **Mckinley Comp Mod** PROJECT #: **18-41-233-01** FAX: _____
 SITE NAME AND ADDRESS: **Mckinley ES** PO #: _____
7012 McKinley LA CA 90001

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
57-51-0.5	95593.01	12/27/18	9:10	SOIL	1 JAR	
57-51-2.0	95593.02		9:21			
57-51-3.0	95593.03		9:22			
57-52-0.5	95593.04		9:30			
57-52-2.0	95593.05		9:31			
57-52-3.0	95593.06		9:32			
57-53-0.5	95593.07		9:50			
57-53-2.0	95593.08		9:51			
57-53-3.0	95593.09		9:52			
57-54-0.5	95593.10		10:00			
57-54-2.0	95593.11		10:01			
57-54-3.0	95593.12		10:02			
57-55-0.5	95593.13		10:10			
57-55-2.0	95593.14		10:11			
57-55-3.0	95593.15		10:12			

AETL JOB No. _____ ANALYSIS REQUESTED _____ TEST INSTRUCTIONS & COMMENTS

EPA607D As	EPA607D Pb	EPA607D PCBs	TEST INSTRUCTIONS & COMMENTS
X	X	X	HOLD 2.0 & 3.0 SAMPLE
X	X	X	Comp group 7.1
X	X	X	Comp group 7.2
X	X	X	Comp group 7.2
X	X	X	Comp group 7.3
X	X	X	Comp group 7.3

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: **15** PROPERLY COOLED: Y / N / NA
 CUSTODY SEALS: Y / N / NA SAMPLES INTACT: Y / N / NA
 RECEIVED IN GOOD COND: Y / N / NA SAMPLES ACCEPTED: Y / N / NA

TURN AROUND TIME
 NORMAL CRUSH SAME DAY NEXT DAY 2-3 DAYS 3-5 DAYS

DATA DELIVERABLE REQUIRED
 HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY: **1. SAMPLER: JRZ** Signature: _____ Printed Name: _____ Date: _____ Time: _____
 RELINQUISHED BY: **2.** Signature: _____ Printed Name: _____ Date: _____ Time: _____
 RELINQUISHED BY: **3.** Signature: _____ Printed Name: _____ Date: _____ Time: _____

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CHAIN OF CUSTODY RECORD
110429

COMPANY: **CONVERSE** PROJECT MANAGER: **JRZ**
 COMPANY ADDRESS: **717 S. MYRTLE AVE.** PHONE: **621 930 1234**
 PROJECT NAME: **McKinley ES Comp Mod** PROJECT #: _____
 SITE NAME AND ADDRESS: **McKinley ES** PO #: _____
7012 McKinley LA CA 90041

AETL JOB No. **95593** Page **2** of **3**

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
57-N1-0.5	95593-16	12/20/10	8:31	SOIL	1 SLEEVE	
57-N1-2.0	95593-17		8:37			
57-N1-7.0	95593-18		8:33			
57-N1-0.5	95593-19		8:10			
57-N1-2.0	95593-20		8:11			
57-N1-3.0	95593-21		8:12			
57-N1-0.5	95593-22		7:50			
57-N3-2.0	95593-23		7:51			
57-N3-3.0	95593-24		7:52			
57-N4-0.5	95593-25		7:40			
57-N4-2.0	95593-26		7:41			
57-N4-3.0	95593-27		7:42			
57-N5-0.5	95593-28		7:30			
57-N5-2.0	95593-29		7:31			
57-N5-3.0	95593-30		7:32			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: **15** PROPERLY COOLED (Y/N/NA) _____
 CUSTODY SEALS (Y/N/NA) _____ SAMPLES INTACT (Y/N/NA) _____
 RECEIVED IN GOOD COND. (Y/N) _____ SAMPLES ACCEPTED (Y/N) _____

TURN AROUND TIME
 NORMAL CRUSH SAME DAY NEXT DAY
 2 DAYS 3 DAYS

DATA DELIVERABLE REQUIRED
 HARD COPY PDF GEOTRACKER (GLOBAL ID) _____
 OTHER (PLEASE SPECIFY) _____

ANALYSIS REQUESTED	RELINQUISHED BY: SAMPLER	RELINQUISHED BY:	RELINQUISHED BY:
EPA 602 AS	1. [Signature]	2. [Signature]	3. [Signature]
EPA 602 PB	1. [Signature]	2. [Signature]	3. [Signature]
EPA 8082 PCBs	1. [Signature]	2. [Signature]	3. [Signature]

TEST INSTRUCTIONS & COMMENTS: **HOLD ALL 2.0 & 3.0 SAMPLES**

RECEIVED BY LABORATORY: **AGL** RECEIVED BY LABORATORY: **AGL**
 Signature: [Signature] Signature: [Signature]
 Printed Name: [Signature] Printed Name: [Signature]
 Date: [Signature] Date: [Signature]
 Time: [Signature] Time: [Signature]

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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CHAIN OF CUSTODY RECORD
 110328

95593

AETL JOB No.

COMPANY: **CONVERSE** PROJECT MANAGER: **JAZ**
 COMPANY ADDRESS: **217 S. MYRTLE AVE. MONROVIA** PHONE: **626 930-1234** FAX: **9100**
 PROJECT NAME: **18-AI-233-02** PO #:
 SITE NAME AND ADDRESS:

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
							EPA 8080 A	EPA 8081 A/B	EPA 8082 A/B	
57-E1-0.5	95593.31	12/17/10		SOIL	1 JAR		X	X	X	HOLD 2.0-3.0 SAMPLES
57-E1-2.0	95593.32						X	X	X	COMP GROUP 7.3
57-E1-3.0	95593.33						X	X	X	COMP GROUP 7.1
57-W1-0.5	95593.34						X	X	X	
57-W1-2.0	95593.35						X	X	X	
57-W1-3.0	95593.36						X	X	X	
COMP 7.1-0.5	95593.37						X	X	X	
COMP 7.2-0.5	95593.38						X	X	X	
COMP 7.3-0.5	95593.39						X	X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: **9** PROPERLY COOLED: **Y/N/NA**
 CUSTODY SEALS: **Y/N/NA** SAMPLES INTACT: **Y/N/NA**
 RECEIVED IN GOOD COND.: **Y/N** SAMPLES ACCEPTED: **Y/N**

TURN AROUND TIME
 NORMAL RUSH SAME DAY NEXT DAY
 2 DAYS 3 DAYS

DATA DELIVERABLE REQUIRED
 HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: Signature: [Signature] Printed Name: **JOHN ZIEWER** Date: **12/20/10** Time: **7:10**

RECEIVED BY: Signature: [Signature] Printed Name: **AGEL** Date: **12/20/10** Time: **1640**

RELINQUISHED BY: Signature: [Signature] Printed Name: [Signature] Date: [Date] Time: [Time]

RECEIVED BY: Signature: [Signature] Printed Name: [Signature] Date: [Date] Time: [Time]

RELINQUISHED BY: Signature: [Signature] Printed Name: [Signature] Date: [Date] Time: [Time]

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>Converse</u>			
Project Name:			
AETL Job Number: <u>95593</u>			
Date Received: <u>12/28/18</u>		Received by: <u>Ant</u>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>✓</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3-4</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): <u>sleeves</u>			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<u>✓</u> None, <u> </u> HNO ₃ , <u> </u> NaOH, <u> </u> ZnOAc, <u> </u> HCl, <u> </u> Na ₂ S ₂ O ₃ , <u> </u> MeOH			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>Y</u>		
2. Are the Sample labels legible?	<u>Y</u>		
3. Do samples match the COC?	<u>Y</u>		
4. Are the required analyses clear?	<u>Y</u>		
5. Is there enough samples for required analysis?	<u>Y</u>		
6. Are samples sealed with evidence tape?		<u>N</u>	
7. Are sample containers in good condition?	<u>Y</u>		
8. Are samples preserved?	<u>Y</u>		
9. Are samples preserved properly for the intended analysis?	<u>Y</u>		
10. Are the VOAs free of headspace?	<u>NIS</u>		
11. Are the jars free of headspace?	<u>1</u>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-01
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95593	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 39 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity	Of Containers
95593.01	S7-S1-0.5	12/27/2018	Soil	1	
95593.04	S7-S2-0.5	12/27/2018	Soil	1	
95593.07	S7-S3-0.5	12/27/2018	Soil	1	
95593.10	S7-S4-0.5	12/27/2018	Soil	1	
95593.13	S7-S5-0.5	12/27/2018	Soil	1	
95593.16	S7-N1-0.5	12/28/2018	Soil	1	
95593.19	S7-N2-0.5	12/28/2018	Soil	1	
95593.22	S7-N3-0.5	12/28/2018	Soil	1	
95593.25	S7-N4-0.5	12/28/2018	Soil	1	
95593.28	S7-N5-0.5	12/28/2018	Soil	1	
95593.34	S7-W1-0.5	12/27/2018	Soil	1	
Method ^ Submethod	Req Date	Priority	TAT	Units	
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg	
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg	
95593.02	S7-S1-2.0	12/27/2018	Soil	1	
95593.03	S7-S1-3.0	12/27/2018	Soil	1	
95593.05	S7-S2-2.0	12/27/2018	Soil	1	
95593.06	S7-S2-3.0	12/27/2018	Soil	1	
95593.08	S7-S3-2.0	12/27/2018	Soil	1	
95593.09	S7-S3-3.0	12/27/2018	Soil	1	
95593.11	S7-S4-2.0	12/27/2018	Soil	1	
95593.12	S7-S4-3.0	12/27/2018	Soil	1	
95593.14	S7-S5-2.0	12/27/2018	Soil	1	
95593.15	S7-S5-3.0	12/27/2018	Soil	1	
95593.17	S7-N1-2.0	12/28/2018	Soil	1	

Continued



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Page: 1 B

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Monrovia, CA 91016-

Project ID: 18-41-233-01
Date Received 12/28/2018
Date Reported 01/04/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95593	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95593.18	S7-N1-3.0	12/28/2018	Soil	1
95593.20	S7-N2-2.0	12/28/2018	Soil	1
95593.21	S7-N2-3.0	12/28/2018	Soil	1
95593.23	S7-N3-2.0	12/28/2018	Soil	1
95593.24	S7-N3-3.0	12/28/2018	Soil	1
95593.26	S7-N4-2.0	12/28/2018	Soil	1
95593.27	S7-N4-3.0	12/28/2018	Soil	1
95593.29	S7-N5-2.0	12/28/2018	Soil	1
95593.30	S7-N5-3.0	12/28/2018	Soil	1
95593.32	S7-E1-2.0	12/27/2018	Soil	1
95593.33	S7-E1-3.0	12/27/2018	Soil	1
95593.35	S7-W1-2.0	12/27/2018	Soil	1
95593.36	S7-W1-3.0	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/04/2019	2	Normal	--

95593.31	S7-E1-0.5	12/27/2018	Soil	1
----------	-----------	------------	------	---

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg
(8082)	01/04/2019	2	Normal	ug/Kg

95593.37	COMP7.1-0.5	12/27/2018	Soil	1
95593.38	COMP7.2-0.5	12/27/2018	Soil	1
95593.39	COMP7.3-0.5	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8081A)	01/04/2019	2	Normal	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



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ANALYTICAL RESULTS

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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 2

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			01/02/2019			
Preparation Method			3550B			
Date Analyzed			01/02/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Aldrin	1.0	2.0	ND			
Chlordane (Total)	1.0	2.0	ND			
Chlordane (alpha)	1.0	2.0	ND			
4,4'-DDD (DDD)	1.0	2.0	ND			
4,4'-DDE (DDE)	1.0	2.0	ND			
4,4'-DDT (DDT)	1.0	2.0	ND			
Dieldrin	1.0	2.0	ND			
Endosulfan 1	1.0	2.0	ND			
Endosulfan 11	1.0	2.0	ND			
Endosulfan sulfate	1.0	2.0	ND			
Endrin	1.0	2.0	ND			
Endrin aldehyde	1.0	2.0	ND			
Endrin ketone	1.0	2.0	ND			
Chlordane (gamma)	1.0	2.0	ND			
Heptachlor	1.0	2.0	ND			
Heptachlor epoxide	1.0	2.0	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND			
Methoxychlor	5.0	10.0	ND			
Toxaphene	25.0	50.0	ND			



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ANALYTICAL RESULTS

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.		Method Blank				
Surrogates	%Rec.Limit	% Rec.				
Decachlorobiphenyl	30-150	108				
Tetrachloro-m-xylene	30-150	138				



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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 4

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			95593.37	95593.38	95593.39		
Client Sample I.D.			COMP7.1-0.5	COMP7.2-0.5	COMP7.3-0.5		
Date Sampled			12/27/2018	12/27/2018	12/27/2018		
Date Prepared			01/02/2019	01/02/2019	01/02/2019		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			01/02/2019	01/02/2019	01/02/2019		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			5	5	5		
Analytes	MDL	PQL	Results	Results	Results		
Aldrin	5	10	ND	ND	ND		
Chlordane (Total)	5	10	ND	5.65J	ND		
Chlordane (alpha)	5	10	ND	ND	ND		
4,4'-DDD (DDD)	5	10	ND	ND	ND		
4,4'-DDE (DDE)	5	10	ND	5.73J	ND		
4,4'-DDT (DDT)	5	10	ND	6.99J	ND		
Dieldrin	5	10	ND	ND	ND		
Endosulfan 1	5	10	ND	ND	ND		
Endosulfan 11	5	10	ND	ND	ND		
Endosulfan sulfate	5	10	ND	ND	ND		
Endrin	5	10	ND	ND	ND		
Endrin aldehyde	5	10	ND	ND	ND		
Endrin ketone	5	10	ND	ND	ND		
Chlordane (gamma)	5	10	ND	ND	ND		
Heptachlor	5	10	ND	ND	ND		
Heptachlor epoxide	5	10	ND	ND	ND		
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND	ND	ND		
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND	ND	ND		
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND	ND	ND		
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND	ND	ND		
Methoxychlor	25	50	ND	ND	ND		
Toxaphene	125	250	ND	ND	ND		

Comment(s):

95593.37: Analyzed under dilution due to matrix interference 95593.39: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			95593.37	95593.38	95593.39		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		75.6	80.0	90.0		
Tetrachloro-m-xylene	30-150		98.0	103	112		



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

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Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			01/02/2019			
Preparation Method			3550B			
Date Analyzed			01/02/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Aroclor-1016 (PCB-1016)	25.0	50.0	ND			
Aroclor-1221 (PCB-1221)	25.0	50.0	ND			
Aroclor-1232 (PCB-1232)	25.0	50.0	ND			
Aroclor-1242 (PCB-1242)	25.0	50.0	ND			
Aroclor-1248 (PCB-1248)	25.0	50.0	ND			
Aroclor-1254 (PCB-1254)	25.0	50.0	ND			
Aroclor-1260 (PCB-1260)	25.0	50.0	ND			
Aroclor-1262 (PCB-1262)	25.0	50.0	ND			
Aroclor-1268 (PCB-1268)	25.0	50.0	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
Decachlorobiphenyl	30-150		104			
Tetrachloro-m-xylene	30-150		118			



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Converse Consultants
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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 7

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.		95593.31			
Client Sample I.D.		S7-E1-0.5			
Date Sampled		12/27/2018			
Date Prepared		01/02/2019			
Preparation Method		3550B			
Date Analyzed		01/02/2019			
Matrix		Soil			
Units		ug/Kg			
Dilution Factor		5			
Analytes	MDL	PQL	Results		
Aroclor-1016 (PCB-1016)	125	250	ND		
Aroclor-1221 (PCB-1221)	125	250	ND		
Aroclor-1232 (PCB-1232)	125	250	ND		
Aroclor-1242 (PCB-1242)	125	250	ND		
Aroclor-1248 (PCB-1248)	125	250	ND		
Aroclor-1254 (PCB-1254)	125	250	ND		
Aroclor-1260 (PCB-1260)	125	250	ND		
Aroclor-1262 (PCB-1262)	125	250	ND		
Aroclor-1268 (PCB-1268)	125	250	ND		

Comment(s):

95593.31: Analyzed under dilution due to matrix interference

Our Lab I.D.		95593.31			
Surrogates	%Rec.Limit	% Rec.			
Decachlorobiphenyl	30-150	111			
Tetrachloro-m-xylene	30-150	93.6			



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Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 8

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C4

Our Lab I.D.		Method Blank	95593.01	95593.04	95593.07	95593.10
Client Sample I.D.			S7-S1-0.5	S7-S2-0.5	S7-S3-0.5	S7-S4-0.5
Date Sampled			12/27/2018	12/27/2018	12/27/2018	12/27/2018
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Lead	2.5	5.0	ND	17.5	28.1	10.1



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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 9

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C4

Our Lab I.D.		95593.13	95593.16	95593.19	95593.22	95593.25	
Client Sample I.D.		S7-S5-0.5	S7-N1-0.5	S7-N2-0.5	S7-N3-0.5	S7-N4-0.5	
Date Sampled		12/27/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018	
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Lead	2.5	5.0	26.3	27.5	39.2	4.91J	5.37



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 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 10

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C4

Our Lab I.D.		95593.28	95593.31	95593.34		
Client Sample I.D.		S7-N5-0.5	S7-E1-0.5	S7-W1-0.5		
Date Sampled		12/28/2018	12/27/2018	12/27/2018		
Date Prepared		01/02/2019	01/02/2019	01/02/2019		
Preparation Method		3050B	3050B	3050B		
Date Analyzed		01/03/2019	01/03/2019	01/03/2019		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Lead	2.5	5.0	6.24	22.0	19.8	



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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 11

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C5

Our Lab I.D.		Method Blank	95593.01	95593.04	95593.07	95593.10	
Client Sample I.D.			S7-S1-0.5	S7-S2-0.5	S7-S3-0.5	S7-S4-0.5	
Date Sampled			12/27/2018	12/27/2018	12/27/2018	12/27/2018	
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	5.69	4.93	3.21	3.40



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 12

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C5

Our Lab I.D.		95593.13	95593.16	95593.19	95593.22	95593.25
Client Sample I.D.		S7-S5-0.5	S7-N1-0.5	S7-N2-0.5	S7-N3-0.5	S7-N4-0.5
Date Sampled		12/27/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Arsenic	0.05	0.10	3.50	3.55	2.19	0.606



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Monrovia, CA 91016-

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7812 McKinley Ave.
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Page: 13

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C5

Our Lab I.D.		95593.28	95593.31	95593.34		
Client Sample I.D.		S7-N5-0.5	S7-E1-0.5	S7-W1-0.5		
Date Sampled		12/28/2018	12/27/2018	12/27/2018		
Date Prepared		01/02/2019	01/02/2019	01/02/2019		
Preparation Method		3050B	3050B	3050B		
Date Analyzed		01/03/2019	01/03/2019	01/03/2019		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Arsenic	0.05	0.10	0.825	5.43	4.04	



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 Monrovia, CA 91016-

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McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 14

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C4; Dup or Spiked Sample: 95593.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	17.5	50.0	56.4	77.8	50.0	56.4	77.8	<1	75-125	<15

QC Batch No: 0102192C4; Dup or Spiked Sample: 95593.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Lead	50.0	49.4	98.8	50.0	49.1	98.2	<1	75-125	<15



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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 15

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C5; Dup or Spiked Sample: 95593.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	5.69	10.0	14.1	84.1	10.0	15.0	93.1	10.2	80-120	<15

QC Batch No: 0102191C5; Dup or Spiked Sample: 95593.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	8.25	82.5	10.0	8.74	87.4	5.8	80-120	<15



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 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 16

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	18.4	92.0	20.0	18.5	92.5	<1	40-150	<40
4,4'-DDT (DDT)	1.96	50.0	42.1	80.3	50.0	44.7	85.5	6.3	40-150	<40
Dieldrin	0.276	50.0	47.7	94.8	50.0	48.1	95.6	<1	40-150	<40
Endrin	0.00	50.0	65.0	130	50.0	65.5	131	<1	40-150	<40
Heptachlor	0.00	20.0	19.1	95.5	20.0	19.4	97.0	1.6	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	19.4	97.0	20.0	18.6	93.0	4.2	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	25.0	100	25.0	27.5	110	9.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	34.3	137	25.0	35.3	141	2.9	30-150	<40

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aldrin	20.0	14.9	74.5	20.0	16.1	80.5	7.7	50-150	<40
4,4'-DDT (DDT)	50.0	29.9	59.8	50.0	30.0	60.0	<1	50-150	<40
Dieldrin	50.0	39.7	79.4	50.0	42.4	84.8	6.6	50-150	<40
Endrin	50.0	51.5	103	50.0	53.5	107	3.8	50-150	<40
Heptachlor	20.0	15.7	78.5	20.0	16.3	81.5	3.8	50-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	16.7	83.5	20.0	17.3	86.5	3.5	50-150	<40
Surrogates									
Decachlorobiphenyl	25.0	20.7	82.8	25.0	20.6	82.4	<1	30-150	<40
Tetrachloro-m-xylene	25.0	29.0	116	25.0	30.0	120	3.4	30-150	<40



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McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 17

Project ID: 18-41-233-01

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	478	95.6	500	429	85.8	10.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	396	79.2	500	307	61.4	25.3	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.6	98.4	25.0	17.9	71.6	31.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	28.0	112	25.0	26.0	104	7.4	30-150	<40

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	457	91.4	50-150						
Aroclor-1260 (PCB-1260)	500	387	77.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	26.0	104	30-150						
Tetrachloro-m-xylene	25.0	26.8	107	30-150						



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Number of Pages 3
Date Received 12/28/2018
Date Reported 01/08/2019

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95594	12/28/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 4 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



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CHAIN OF CUSTODY RECORD
110334

95594

Page 1 of 1

AETL JOB No.

PROJECT MANAGER JRZ

COMPANY CONVERSE

COMPANY ADDRESS 717 S. MYRTLEAY MONROVIA CA 91906 PHONE 626 930-1234 FAX

PROJECT NAME McKinley Comp Mod PROJECT # 18-X1-2330Z
 SITE NAME AND ADDRESS McKinley Es 7012 McKinley LAGA 9001 PO #

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED												TEST INSTRUCTIONS & COMMENTS
							1	2	3	4	5	6	7	8	9	10	11	12	
1	S11-1-0.5	95594.01	12/27/18	SOIL	JARVE														
2	S11-1-2.0	95594.02	11:21		JARVE														
3	S11-1-3.0	95594.03	11:22																
4	S11-1-0.5	95594.04	11:30																
5	S11-2-2.0	95594.05	11:31																
6	S11-2-3.0	95594.06	11:32																
7	S12-1-0.5	95594.07	11:00																
8	S12-1-2.0	95594.08	11:01																
9	S12-1-3.0	95594.09	11:02																
10	S12-2-0.5	95594.10	11:10																
11	S12-2-2.0	95594.11	11:11																
12	S12-2-3.0	95594.12	11:12																
13																			
14																			
15																			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 12

CUSTODY SEALS Y/N/NA Y/N/NA

RECEIVED IN GOOD COND. Y/N Y

RECEIVED BY: DATE: 12/20/18 TIME: 5:00

SIGNATURE: J. H. ZIEGLER

PRINTED NAME: JOHN ZIEGLER

RELINQUISHED BY: DATE: 12/20/18 TIME: 5:00

SIGNATURE: [Signature]

PRINTED NAME: [Name]

RELINQUISHED BY: DATE: 12/20/18 TIME: 5:00

SIGNATURE: [Signature]

PRINTED NAME: [Name]

RECEIVED BY LABORATORY: DATE: 12/20/18 TIME: 5:00

SIGNATURE: [Signature]

PRINTED NAME: [Name]

RECEIVED BY LABORATORY: DATE: 12/20/18 TIME: 5:00

SIGNATURE: [Signature]

PRINTED NAME: [Name]

RECEIVED BY LABORATORY: DATE: 12/20/18 TIME: 5:00

SIGNATURE: [Signature]

PRINTED NAME: [Name]

RECEIVED BY LABORATORY: DATE: 12/20/18 TIME: 5:00

SIGNATURE: [Signature]

PRINTED NAME: [Name]

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>Converse</u>			
Project Name:			
AETL Job Number: <u>95594</u>			
Date Received: <u>12/28/18</u>		Received by: <u>Ant</u>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>1</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.4</u> , No 2: , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<u>None</u> , <u>HNO₃</u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na₂S₂O₃</u> , <u>MeOH</u>			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>Y</u>		
2. Are the Sample labels legible?	<u>Y</u>		
3. Do samples match the COC?	<u>Y</u>		
4. Are the required analyses clear?	<u>Y</u>		
5. Is there enough samples for required analysis?	<u>Y</u>		
6. Are samples sealed with evidence tape?		<u>N</u>	
7. Are sample containers in good condition?	<u>Y</u>		
8. Are samples preserved?	<u>Y</u>		
9. Are samples preserved properly for the intended analysis?	<u>Y</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>1</u>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/08/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95594	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 12 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity	Of Containers
95594.01	S11-1-0.5	12/27/2018	Soil	1	
95594.04	S11-2-0.5	12/27/2018	Soil	1	
95594.07	S12-1-0.5	12/27/2018	Soil	1	
95594.10	S12-2-0.5	12/27/2018	Soil	1	
Method ^ Submethod	Req Date	Priority	TAT	Units	
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg	
95594.02	S11-1-2.0	12/27/2018	Soil	1	
95594.03	S11-1-3.0	12/27/2018	Soil	1	
95594.05	S11-2-2.0	12/27/2018	Soil	1	
95594.06	S11-2-3.0	12/27/2018	Soil	1	
95594.08	S12-1-2.0	12/27/2018	Soil	1	
95594.09	S12-1-3.0	12/27/2018	Soil	1	
95594.11	S12-2-2.0	12/27/2018	Soil	1	
95594.12	S12-2-3.0	12/27/2018	Soil	1	
Method ^ Submethod	Req Date	Priority	TAT	Units	
ARCHIVE	01/04/2019	2	Normal	--	

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 2

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95594	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0103191C1

Our Lab I.D.		Method Blank	95594.01	95594.04	95594.07	95594.10	
Client Sample I.D.			S11-1-0.5	S11-2-0.5	S12-1-0.5	S12-2-0.5	
Date Sampled			12/27/2018	12/27/2018	12/27/2018	12/27/2018	
Date Prepared		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/05/2019	01/05/2019	01/05/2019	01/05/2019	01/05/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	2.65	4.34	2.69	3.28



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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 3

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95594	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0103191C1; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/05/2019;
Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	7.91	10.0	17.7	97.9	10.0	17.8	98.9	1.0	80-120	<15

QC Batch No: 0103191C1; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/05/2019;
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	9.20	92.0	10.0	9.58	95.8	4.0	80-120	<15



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Ordered By

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Monrovia, CA 91016-

Number of Pages 10
Date Received 12/28/2018
Date Reported 01/08/2019

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95597	12/28/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 4 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



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CHAIN OF CUSTODY RECORD
110423

AETL JOB No. **95597**

Page **1** of **1**

COMPANY: **CONVERSE** PROJECT MANAGER: **JRZ**

COMPANY ADDRESS: **717 S. MYRTLE AV HOUNSAYIA** PHONE: **626 930 1234**

PROJECT NAME: **Mckinley Comp Mod** PROJECT #: **18-41-233-07**

SITE NAME AND ADDRESS: **Mckinley Es 7812 Mckinley Av LA CA 90001** PO #:

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
U5T-5	95597.01	12/20/18	9:20	soil	1 sleeve	
U5T-15/10	95597.02		9:22			
U5T-15/15	95597.03		9:25			
U5T-DUP	95597.04		9:30		embrey	

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
EPA 815 TRL	X		
EPA 816 VOCs	X		
EPA 817 TRL	X		
EPA 818 TRL	X		
EPA 819 TRL	X		
EPA 820 TRL	X		
EPA 821 TRL	X		
EPA 822 TRL	X		
EPA 823 TRL	X		
EPA 824 TRL	X		
EPA 825 TRL	X		
EPA 826 TRL	X		
EPA 827 TRL	X		
EPA 828 TRL	X		
EPA 829 TRL	X		
EPA 830 TRL	X		
EPA 831 TRL	X		
EPA 832 TRL	X		
EPA 833 TRL	X		
EPA 834 TRL	X		
EPA 835 TRL	X		
EPA 836 TRL	X		
EPA 837 TRL	X		
EPA 838 TRL	X		
EPA 839 TRL	X		
EPA 840 TRL	X		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: **5** PROPERLY COOLED: **Y/N/NA**

CUSTODY SEALS: **Y/N/NA** SAMPLES INTACT: **Y/N/NA**

RECEIVED IN GOOD COND.: **Y/N** SAMPLES ACCEPTED: **Y/N**

TURN AROUND TIME: NORMAL RUSH SAME DAY NEXT DAY 2 DAYS 3 DAYS

DATA DELIVERABLE REQUIRED: HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

RELINQUISHED BY: **1.** Signature: **[Signature]** Date: **12/20/18** Time: **5:00**

RECEIVED BY: **1.** Signature: **[Signature]** Date: **12/20/18** Time: **5:00**

RELINQUISHED BY: **2.** Signature: **[Signature]** Date: **12/20/18** Time: **17:00**

RECEIVED BY: **2.** Signature: **[Signature]** Date: **12/20/18** Time: **17:00**

RELINQUISHED BY: **3.** Signature: **[Signature]** Date: **12/20/18** Time: **17:00**

RECEIVED BY: **3.** Signature: **[Signature]** Date: **12/20/18** Time: **17:00**

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>Convers</u>			
Project Name:			
AETL Job Number: <u>95597</u>			
Date Received: <u>12/28/18</u>		Received by: <u>Ant</u>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>1</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>2.4</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): <u>encore</u>			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<u>None</u> , <u>HNO₃</u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na₂S₂O₃</u> , <u>MeOH</u>			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>Y</u>		
2. Are the Sample labels legible?	<u>Y</u>		
3. Do samples match the COC?	<u>Y</u>		
4. Are the required analyses clear?	<u>Y</u>		
5. Is there enough samples for required analysis?	<u>Y</u>		
6. Are samples sealed with evidence tape?	<u>Y</u>	<u>N</u>	
7. Are sample containers in good condition?	<u>Y</u>		
8. Are samples preserved?	<u>Y</u>		
9. Are samples preserved properly for the intended analysis?	<u>Y</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>Y</u>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/08/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95597	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 4 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
95597.01	UST-5	12/28/2018	Soil	1	
95597.03	UST-15	12/28/2018	Soil	1	
95597.04	UST-DUP	12/28/2018	Soil	1	
	Method ^ Submethod	Req Date	Priority	TAT	Units
	(M8015D) ^ C13-C40	01/04/2019	2	Normal	mg/Kg
	(M8015G)	01/04/2019	2	Normal	mg/Kg
95597.02	UST-10	12/28/2018	Soil	1	
	Method ^ Submethod	Req Date	Priority	TAT	Units
	(8260B)	01/04/2019	2	Normal	ug/Kg
	(M8015D) ^ C13-C40	01/04/2019	2	Normal	mg/Kg
	(M8015G)	01/04/2019	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 2

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0103192A1

Our Lab I.D.			Method Blank	95597.02		
Client Sample I.D.				UST-10		
Date Sampled				12/28/2018		
Date Prepared			01/03/2019	12/28/2018		
Preparation Method			5030	5035A		
Date Analyzed			01/03/2019	01/03/2019		
Matrix			Soil	Soil		
Units			ug/Kg	ug/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Acetone	25	50	ND	ND		
Benzene	1.0	10.0	ND	ND		
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND		
Bromochloromethane	5.0	10.0	ND	ND		
Bromodichloromethane	5.0	10.0	ND	ND		
Bromoform (Tribromomethane)	25	50	ND	ND		
Bromomethane (Methyl bromide)	15	30	ND	ND		
2-Butanone (MEK)	25	50	ND	ND		
n-Butylbenzene	5.0	10.0	ND	ND		
sec-Butylbenzene	5.0	10.0	ND	ND		
tert-Butylbenzene	5.0	10.0	ND	ND		
Carbon Disulfide	25	50	ND	ND		
Carbon tetrachloride	5.0	10.0	ND	ND		
Chlorobenzene	5.0	10.0	ND	ND		
Chloroethane	15	30	ND	ND		
2-Chloroethyl vinyl ether	50	50	ND	ND		
Chloroform (Trichloromethane)	5.0	10.0	ND	ND		
Chloromethane (Methyl chloride)	15	30	ND	ND		
2-Chlorotoluene	5.0	10.0	ND	ND		
4-Chlorotoluene	5.0	10.0	ND	ND		
1,2-Dibromo-3-chloropropane (DBCP)	5.0	10.0	ND	ND		
Dibromochloromethane	5.0	10.0	ND	ND		
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND		
Dibromomethane	5.0	10.0	ND	ND		
1,2-Dichlorobenzene	5.0	10.0	ND	ND		
1,3-Dichlorobenzene	5.0	10.0	ND	ND		
1,4-Dichlorobenzene	5.0	10.0	ND	ND		
Dichlorodifluoromethane	15	30	ND	ND		



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ANALYTICAL RESULTS

Page: 3

Project ID: 18-41-233-02
 Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0103192A1

Our Lab I.D.			Method Blank	95597.02			
Client Sample I.D.				UST-10			
Date Sampled				12/28/2018			
Date Prepared			01/03/2019	12/28/2018			
Preparation Method			5030	5035A			
Date Analyzed			01/03/2019	01/03/2019			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND	ND			
trans-1,2-Dichloroethene	5.0	10.0	ND	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Iodomethane	5.0	10.0	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	2.0	10.0	ND	ND			
Toluene (Methyl benzene)	1.0	10.0	ND	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	1.5	10.0	ND	ND			
Trichlorofluoromethane	5.0	10.0	ND	ND			
1,2,3-Trichloropropane	1.0	5.0	ND	ND			



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ANALYTICAL RESULTS

Page: 4

Project ID: 18-41-233-02
 Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0103192A1

Our Lab I.D.			Method Blank	95597.02			
Client Sample I.D.				UST-10			
Date Sampled				12/28/2018			
Date Prepared			01/03/2019	12/28/2018			
Preparation Method			5030	5035A			
Date Analyzed			01/03/2019	01/03/2019			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND			
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND			
Vinyl Acetate	25	50	ND	ND			
Vinyl chloride (Chloroethene)	5.0	10.0	ND	ND			
o-Xylene	1.0	10.0	ND	ND			
m,p-Xylenes	1.0	20.0	ND	ND			
Our Lab I.D.			Method Blank	95597.02			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Bromofluorobenzene	75-125		118	124			
Dibromofluoromethane	75-125		90.1	88.3			
Toluene-d8	75-125		119	118			



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 5

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 123118OB1

Our Lab I.D.		Method Blank	95597.01	95597.02	95597.03	95597.04	
Client Sample I.D.			UST-5	UST-10	UST-15	UST-DUP	
Date Sampled			12/28/2018	12/28/2018	12/28/2018	12/28/2018	
Date Prepared		12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018	
Preparation Method		5030	5030	5030	5030	5030	
Date Analyzed		12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	95597.01	95597.02	95597.03	95597.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Bromofluorobenzene	75-125	105	104	104	102	103	



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ANALYTICAL RESULTS

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 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 6

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 010219DB1

Our Lab I.D.		Method Blank	95597.01	95597.02	95597.03	95597.04	
Client Sample I.D.			UST-5	UST-10	UST-15	UST-DUP	
Date Sampled			12/28/2018	12/28/2018	12/28/2018	12/28/2018	
Date Prepared		01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		01/02/2019	01/02/2019	01/02/2019	01/03/2019	01/03/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	95597.01	95597.02	95597.03	95597.04	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Chlorobenzene	75-125		106	109	107	107	109



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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 7

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0103192A1; Dup or Spiked Sample: 95597.02; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	54.5	109	50.0	48.9	97.8	10.8	75-125	<20
Carbon tetrachloride	0.00	50.0	54.5	109	50.0	48.8	97.6	11.0	75-125	<20
Chlorobenzene	0.00	50.0	58.0	116	50.0	53.5	107	8.1	75-125	<20
Chloroform (Trichloromethane)	0.00	50.0	37.9	75.8	50.0	33.6 M	67.2	12.0	75-125	<20
1,2-Dichlorobenzene	0.00	50.0	56.5	113	50.0	51.5	103	9.3	75-125	<20
1,1-Dichloroethane	0.00	50.0	35.7 M	71.4	50.0	28.5 M	57.0	22.4	75-125	<20
1,1-Dichloroethene	0.00	50.0	42.8	85.6	50.0	39.5	79.0	8.0	75-125	<20
cis-1,2-Dichloroethene	0.00	50.0	45.5	91.0	50.0	40.6	81.2	11.4	75-125	<20
Ethylbenzene	0.00	50.0	5.50	11.0	50.0	51.0	102	161.1	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	39.7	79.4	50.0	31.4 M	62.8	23.3	75-125	<20
n-Propylbenzene	0.00	50.0	60.5	121	50.0	54.0	108	11.4	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	57.5	115	50.0	51.5	103	11.0	75-125	<20
1,1,1-Trichloroethane	0.00	50.0	53.5	107	50.0	47.9	95.8	11.0	75-125	<20
1,1,2-Trichloroethane	0.00	50.0	51.0	102	50.0	43.5	87.0	15.9	75-125	<20
Trichloroethene	0.00	50.0	58.5	117	50.0	54.0	108	8.0	75-125	<20
1,2,4-Trimethylbenzene	0.00	50.0	55.5	111	50.0	51.0	102	8.5	75-125	<20
1,3,5-Trimethylbenzene	0.00	50.0	55.5	111	50.0	50.0	100	10.4	75-125	<20
o-Xylene	0.00	50.0	55.5	111	50.0	50.5	101	9.4	75-125	<20
m,p-Xylenes	0.00	100	117	117	100	103	103	12.7	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	61.0	122	50.0	60.0	120	1.7	75-125	<20
Dibromofluoromethane	0.00	50.0	41.8	83.6	50.0	42.1	84.2	<1	75-125	<20
Toluene-d8	0.00	50.0	56.0	112	50.0	53.5	107	4.6	75-125	<20



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QUALITY CONTROL RESULTS

Page: 8

Project ID: 18-41-233-02
 Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0103192A1; Dup or Spiked Sample: 95597.02; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzene	50.0	52.5	105	50.0	54.5	109	3.7	75-125	<20
Carbon tetrachloride	50.0	50.5	101	50.0	53.5	107	5.8	75-125	<20
Chlorobenzene	50.0	55.5	111	50.0	58.0	116	4.4	75-125	<20
Chloroform (Trichloromethane)	50.0	42.7	85.4	50.0	44.0	88.0	3.0	75-125	<20
1,2-Dichlorobenzene	50.0	55.5	111	50.0	56.0	112	<1	75-125	<20
1,1-Dichloroethane	50.0	39.1	78.2	50.0	39.5	79.0	1.0	75-125	<20
1,1-Dichloroethene	50.0	41.1	82.2	50.0	42.5	85.0	3.3	75-125	<20
cis-1,2-Dichloroethene	50.0	47.7	95.4	50.0	49.0	98.0	2.7	75-125	<20
Ethylbenzene	50.0	53.5	107	50.0	54.5	109	1.9	75-125	<20
Methyl-tert-butyl ether (MTBE)	50.0	44.5	89.0	50.0	47.0	94.0	5.5	75-125	<20
n-Propylbenzene	50.0	53.5	107	50.0	57.0	114	6.3	75-125	<20
Toluene (Methyl benzene)	50.0	55.0	110	50.0	57.0	114	3.6	75-125	<20
1,1,1-Trichloroethane	50.0	50.0	100	50.0	53.0	106	5.8	75-125	<20
1,1,2-Trichloroethane	50.0	56.5	113	50.0	58.0	116	2.6	75-125	<20
Trichloroethene	50.0	55.0	110	50.0	55.5	111	<1	75-125	<20
1,2,4-Trimethylbenzene	50.0	48.6	97.2	50.0	51.0	102	4.8	75-125	<20
1,3,5-Trimethylbenzene	50.0	48.4	96.8	50.0	51.5	103	6.2	75-125	<20
o-Xylene	50.0	53.5	107	50.0	46.5	93.0	14.0	75-125	<20
m,p-Xylenes	100	110	110	100	111	111	<1	75-125	<20
Surrogates									
Bromofluorobenzene	50.0	58.5	117	50.0	62.0	124	5.8	75-125	<20
Dibromofluoromethane	50.0	41.7	83.3	50.0	39.5	78.9	5.4	75-125	<20
Toluene-d8	50.0	55.5	111	50.0	55.0	110	<1	75-125	<20



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QUALITY CONTROL RESULTS

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Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 9

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 010219DB1; Dup or Spiked Sample: 95597.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	470	94.0	500	505	101	7.2	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	102	102	100	102	102	<1	75-125	<20

QC Batch No: 010219DB1; Dup or Spiked Sample: 95597.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Diesel (C13-C22)	500	496	99.2	500	505	101	1.8	75-125	<20
Surrogates									
Chlorobenzene	100	101	101	100	102	102	<1	75-125	<20



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 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 10

Project ID: 18-41-233-02

Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 123118OB1; Dup or Spiked Sample: 95597.01A; LCS: Clean Sand; QC Prepared: 12/31/2018; QC Analyzed: 12/31/2018;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	1.00	100	1.00	1.01	101	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0555	111	0.0500	0.0535	107	3.7	75-125	<20

QC Batch No: 123118OB1; Dup or Spiked Sample: 95597.01A; LCS: Clean Sand; QC Prepared: 12/31/2018; QC Analyzed: 12/31/2018;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	1.00	1.01	101	1.00	0.995	99.5	1.5	75-125	<20
Surrogates									
Bromofluorobenzene	0.0500	0.0535	107	0.0500	0.0570	114	6.3	75-125	<20



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Number of Pages 7
Date Received 12/31/2018
Date Reported 01/08/2019

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95598	12/31/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Mod.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 7 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110338

AETL JOB No. **95598**

Page **1** of **2**

COMPANY **CONVERSE** PROJECT MANAGER **JRZ**

COMPANY ADDRESS **717 S. MYRTLE AV** PHONE **626 930-1234** FAX _____

PROJECT NAME **McKinley Comp Mod** PROJECT # **18-41-233-02** PO # _____

SITE NAME AND ADDRESS **McKinley Es**
7012 McKinley Av. LA CA 90001

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
53-003-05						
63-003-05						
55-003-05						
DUP1-0.5	95598.01	12/27/18		SOIL	1 JAR	
DUP1-2.0	95598.02					
DUP1-3.0	95598.03					
DUP2-0.5	95598.04	12/27/18			SLEEVE	
DUP2-2.0	95598.05					
DUP2-3.0	95598.06				SLEEVE	
DUP3-0.5	95598.07	12/27/18				
DUP3-2.0	95598.08					
DUP3-3.0	95598.09				SLEEVE	
DUP4-0.5	95598.10	12/28/18				
DUP4-2.0	95598.11					
DUP4-3.0	95598.12					

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS **12** PROPERLY COOLED Y / N / NA

CUSTODY SEALS Y / N / NA SAMPLES INTACT Y / N / NA

RECEIVED IN GOOD COND. Y / N SAMPLES ACCEPTED Y / N

TURN AROUND TIME NORMAL RUSH SAME DAY NEXT DAY 2 DAYS 3 DAYS

DATA DELIVERABLE REQUIRED HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: <i>JRZ</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Printed Name: JAN ZIEGLER	Printed Name: _____	Printed Name: _____
Date: 12-31-18 Time: 1100	Date: _____ Time: _____	Date: 12-31-18 Time: 1315
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.
Signature: _____	Signature: _____	Signature: _____
Printed Name: <i>[Signature]</i>	Printed Name: _____	Printed Name: <i>[Signature]</i>
Date: 12-31-18 Time: 1100	Date: _____ Time: _____	Date: 12-31-18 Time: 1315
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.
Signature: _____	Signature: _____	Signature: _____
Printed Name: <i>[Signature]</i>	Printed Name: _____	Printed Name: <i>[Signature]</i>
Date: 12-31-18 Time: 1100	Date: _____ Time: _____	Date: 12-31-18 Time: 1315

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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CHAIN OF CUSTODY RECORD
 110341

AETL JOB No. 95598 Page 2 of 2

COMPANY: CONNORRE PROJECT MANAGER: JRZ
 COMPANY ADDRESS: 717 S. MYRTLE PHONE: 626 930 1234
 PROJECT NAME: McKinley Comp Mod PROJECT #: 18-A1-233-01
 SITE NAME AND ADDRESS: McKinley ES PO #: _____
7812 McKinley Av. LA CA 90001

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED										TEST INSTRUCTIONS & COMMENTS							
1	DOP5-0.5	95598-13	12/29/18	SOIL	SLEEVE																			
2	DOP5-2.0	95598-14			↓																			
3	DOP5-3.0	95598-15			↓																			
4	DOP6-0.5	95598-16			JAR																			
5	DOP6-2.0	95598-17			↓																			
6	DOP6-3.0	95598-18			↓																			
7	DOP7-0.5	95598-19			↓																			
8	DOP7-2.0	95598-20			↓																			
9	DOP7-3.0	95598-21			↓																			
10																								
11																								
12																								
13																								
14																								
15																								

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: 9 PROPERLY COOLED: Y / N / NA

CUSTODY SEALS: Y / N / NA SAMPLES INTACT: Y / N / NA

RECEIVED IN GOOD COND.: Y / N SAMPLES ACCEPTED: Y / N

TURN AROUND TIME

NORMAL RUSH SAME DAY NEXT DAY 2 DAYS 3 DAYS

DATA DELIVERABLE REQUIRED

HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY) _____

RECEIVED BY: 1. Signature: [Signature] Printed Name: JOHN ZAPKA Date: 12-31-18 Time: 11:00

RECEIVED BY: 2. Signature: _____ Printed Name: _____ Date: _____ Time: _____

RECEIVED BY: 3. Signature: _____ Printed Name: _____ Date: _____ Time: _____

RELINQUISHED BY: 1. Signature: [Signature] Printed Name: TERESA LEBLANC Date: 12-31-18 Time: 1315

RELINQUISHED BY: 2. Signature: _____ Printed Name: _____ Date: _____ Time: _____

RELINQUISHED BY: 3. Signature: _____ Printed Name: _____ Date: _____ Time: _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>Converse</u>			
Project Name:			
AETL Job Number: <u>95598</u>			
Date Received: <u>12/31/18</u>		Received by: <u>Art</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u> / </u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.4°</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): <u>Sleeves</u>			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<u> / </u> None, <u> / </u> HNO ₃ , <u> / </u> NaOH, <u> / </u> ZnOAc, <u> / </u> HCl, <u> / </u> Na ₂ S ₂ O ₃ , <u> / </u> MeOH			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>Y</u>		
2. Are the Sample labels legible?	<u>Y</u>		
3. Do samples match the COC?	<u>Y</u>		
4. Are the required analyses clear?	<u>Y</u>		
5. Is there enough samples for required analysis?	<u>Y</u>		
6. Are samples sealed with evidence tape?		<u>Y</u>	
7. Are sample containers in good condition?	<u>Y</u>		
8. Are samples preserved?	<u>Y</u>		
9. Are samples preserved properly for the intended analysis?	<u>Y</u>		
10. Are the VOAs free of headspace?	<u>NO</u>		
11. Are the jars free of headspace?	<u>Y</u>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/31/2018
Date Reported 01/08/2019

Telephone: (626) 930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95598	12/31/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 21 samples with the following specification on 12/31/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity	Of Containers
95598.01	DUP1-0.5	12/27/2018	Soil	1	
95598.04	DUP2-0.5	12/27/2018	Soil	1	
95598.07	DUP3-0.5	12/27/2018	Soil	1	
95598.10	DUP4-0.5	12/28/2018	Soil	1	
95598.13	DUP5-0.5	12/28/2018	Soil	1	
95598.16	DUP6-0.5	12/28/2018	Soil	1	
95598.19	DUP7-0.5	12/28/2018	Soil	1	
Method ^ Submethod	Req Date	Priority	TAT	Units	
(6010B.LEAD)	01/07/2019	2	Normal	mg/Kg	
(6020) ^ AS	01/07/2019	2	Normal	mg/Kg	
95598.02	DUP1-2.0	12/27/2018	Soil	1	
95598.03	DUP1-3.0	12/27/2018	Soil	1	
95598.05	DUP2-2.0	12/27/2018	Soil	1	
95598.06	DUP2-3.0	12/27/2018	Soil	1	
95598.08	DUP3-2.0	12/27/2018	Soil	1	
95598.09	DUP3-3.0	12/27/2018	Soil	1	
95598.11	DUP4-2.0	12/28/2018	Soil	1	
95598.12	DUP4-3.0	12/28/2018	Soil	1	
95598.14	DUP5-2.0	12/28/2018	Soil	1	
95598.15	DUP5-3.0	12/28/2018	Soil	1	
95598.17	DUP6-2.0	12/28/2018	Soil	1	
95598.18	DUP6-3.0	12/28/2018	Soil	1	
95598.20	DUP7-2.0	12/28/2018	Soil	1	
95598.21	DUP7-3.0	12/28/2018	Soil	1	
Method ^ Submethod	Req Date	Priority	TAT	Units	
ARCHIVE	01/07/2019	2	Normal	--	

Continued



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Page: 1 B

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Project ID: 18-41-233-02
Date Received 12/31/2018
Date Reported 01/08/2019

Telephone: (626) 930-1200

Attention: John Ziegler

Job Number	Order Date	Client
95598	12/31/2018	CONVRS

CERTIFICATE OF ANALYSIS CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 2

Project ID: 18-41-233-02

Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0104192C6

Our Lab I.D.		Method Blank	95598.01	95598.04	95598.07	95598.10	
Client Sample I.D.			DUP1-0.5	DUP2-0.5	DUP3-0.5	DUP4-0.5	
Date Sampled			12/27/2018	12/27/2018	12/27/2018	12/28/2018	
Date Prepared		01/04/2019	01/04/2019	01/04/2019	01/04/2019	01/04/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/04/2019	01/04/2019	01/04/2019	01/04/2019	01/04/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Lead	2.5	5.0	ND	114	2.97J	4.12J	6.43



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 3

Project ID: 18-41-233-02

Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0104192C6

Our Lab I.D.		95598.13	95598.16	95598.19		
Client Sample I.D.		DUP5-0.5	DUP6-0.5	DUP7-0.5		
Date Sampled		12/28/2018	12/28/2018	12/28/2018		
Date Prepared		01/04/2019	01/04/2019	01/04/2019		
Preparation Method		3050B	3050B	3050B		
Date Analyzed		01/04/2019	01/04/2019	01/04/2019		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Lead	2.5	5.0	28.6	4.61J	8.00	



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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 4

Project ID: 18-41-233-02

Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0103191C1

Our Lab I.D.		Method Blank	95598.01	95598.04	95598.07	95598.10	
Client Sample I.D.			DUP1-0.5	DUP2-0.5	DUP3-0.5	DUP4-0.5	
Date Sampled			12/27/2018	12/27/2018	12/27/2018	12/28/2018	
Date Prepared		01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		01/05/2019	01/05/2019	01/05/2019	01/05/2019	01/05/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Arsenic	0.05	0.10	ND	7.91	0.955	1.27	1.23



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ANALYTICAL RESULTS

Ordered By

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717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 5

Project ID: 18-41-233-02

Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0103191C1

Our Lab I.D.		95598.13	95598.16	95598.19		
Client Sample I.D.		DUP5-0.5	DUP6-0.5	DUP7-0.5		
Date Sampled		12/28/2018	12/28/2018	12/28/2018		
Date Prepared		01/03/2019	01/03/2019	01/03/2019		
Preparation Method		3050B	3050B	3050B		
Date Analyzed		01/05/2019	01/05/2019	01/05/2019		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Arsenic	0.05	0.10	1.78	0.966	20.1	



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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 6

Project ID: 18-41-233-02

Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0104192C6; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/04/2019; QC Analyzed: 01/04/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	114	50.0	140 M	52.0	50.0	140 M	52.0	<1	75-125	<15

QC Batch No: 0104192C6; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/04/2019; QC Analyzed: 01/04/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Lead	50.0	47.7	95.4	50.0	48.4	96.8	1.5	75-125	<15



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QUALITY CONTROL RESULTS

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 717 S. Myrtle Ave.
 Monrovia, CA 91016-

Site

McKinley ES
 7812 McKinley Ave.
 Los Angeles, CA 90001

Telephone: (626)930-1200

Attn: John Ziegler

Page: 7

Project ID: 18-41-233-02

Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0103191C1; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/05/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	7.91	10.0	17.7	97.9	10.0	17.8	98.9	1.0	80-120	<15

QC Batch No: 0103191C1; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/05/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Arsenic	10.0	9.20	92.0	10.0	9.58	95.8	4.0	80-120	<15



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



LA Testing

520 Mission Street, South Pasadena, CA 91030

Phone/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com>

pasadenalab@lateesting.com

LA Testing Order: 321900413

CustomerID: 32CONV56

CustomerPO:

ProjectID:

Attn: **John Ziegler**
Converse Consultants
717 S Myrtle Avenue
Monrovia, CA 91016

Phone: (626) 930-1200
Fax: (626) 930-1212
Received: 01/03/19 4:45 PM
Analysis Date: 1/10/2019
Collected:

Project: 18-41-233-02 LAUSD/McKinley ES

Test Report: Asbestos Analysis via Polarized Light Microscopy, Qualitative

Sample	Description	Appearance	Result	Notes
S3E1 0.5 321900413-0001	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
S3W2 0.5 321900413-0002	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
S4S2 0.5 321900413-0003	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
S2N2 0.5 321900413-0004	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
S5W1 0.5 321900413-0005	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
PG11 0.5 321900413-0006	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
PG2 0.5 321900413-0007	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
PG8 0.5 321900413-0008	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
PG19 0.5 321900413-0009	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	

Analyst(s)

Guillermo Hernandez (5)

Rosa Mendoza (10)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

LA Testing recommends that soil samples reported as "ND" be tested by the EPA Screening Method/Qualitative. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by LA Testing, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Samples received in good condition unless otherwise noted.

Samples analyzed by LA Testing South Pasadena, CA

Initial report from 01/10/2019 10:59:43



LA Testing

520 Mission Street, South Pasadena, CA 91030

Phone/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com>

pasadenalab@lateesting.com

LA Testing Order: 321900413

CustomerID: 32CONV56

CustomerPO:

ProjectID:

Attn: **John Ziegler**
Converse Consultants
717 S Myrtle Avenue
Monrovia, CA 91016

Phone: (626) 930-1200
Fax: (626) 930-1212
Received: 01/03/19 4:45 PM
Analysis Date: 1/10/2019
Collected:

Project: 18-41-233-02 LAUSD/McKinley ES

Test Report: Asbestos Analysis via Polarized Light Microscopy, Qualitative

Sample	Description	Appearance	Result	Notes
PG24 0.5 321900413-0010	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
S7N1 0.5 321900413-0011	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
S7S5 0.5 321900413-0012	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
S9W1 0.5 321900413-0013	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
S5N2 0.5 321900413-0014	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	
PG20 0.5 321900413-0015	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	None Detected	

This is a qualitative soil analysis method. Due to the heterogeneity of the samples there is a significant chance for quantification errors and/or false negatives with this method.

Analyst(s)

Guillermo Hernandez (5)
Rosa Mendoza (10)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

LA Testing recommends that soil samples reported as "ND" be tested by the EPA Screening Method/Qualitative. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by LA Testing, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Samples received in good condition unless otherwise noted.
Samples analyzed by LA Testing South Pasadena, CA

Initial report from 01/10/2019 10:59:43



Asbestos Chain of Custody

LA Testing Order Number (Lab Use Only):

#321900413

LA TESTING
520 MISSION STREET
S. PASADENA, CA 91030
PHONE: (323) 254-9960
FAX: (323) 254-9982

Company : Converse Consultants		LA Testing-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 717 S Myrtle Avenue		<i>Third Party Billing requires written authorization from third party</i>	
City: Monrovia	State/Province: CA	Zip/Postal Code: 91061	Country: USA
Report To (Name): John Ziegler		Fax #:	
Telephone #: (626) 807-3416		Email Address: jziegler@converseconsultants.com	
Project Name/Number: 18-41-233-02 LAUSD/McKinley ES			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken:
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*For TEM Air 3 hours through 6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with LA Testing's Terms and Conditions located in the Analytical Price Guide.</small>			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>	
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group			
Samplers Name:		Samplers Signature:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
S3 E1 0.5	Soil Depth - 0.5 ft		
S3 W2 0.5	↓		
S4 S2 0.5	↓		
S2 N2 0.5	↓		
S5 W1 0.5	↓		
PG 11 0.5	↓		
PG 2 0.5	↓		
PG 8 0.5	↓		
Client Sample # (s):		Total # of Samples: 15	
Relinquished (Client): <i>[Signature]</i>		Date: 1/3/19	Time: 16:43
Received (Lab): <i>T.P. (WI)</i>		Date: 1-3-19	Time: 4:45pm
Comments/Special Instructions: PLM Qualitative Analysis for Soils			



Asbestos Chain of Custody
LA Testing Order Number (Lab Use Only):

#321900413

LA TESTING
 520 MISSION STREET
 S. PASADENA, CA 91030
 PHONE: (323) 254-9960
 FAX: (323) 254-9982

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
PG19 0.5	Soil Depth 0.5 ft.		
PG24 0.5			
S7N1 0.5			
S7S5 0.5			
S9W1 0.5			
S5N2 0.5			
PG20 0.5			
*Comments/Special Instructions:			

ProUCL Calculations

Appendix E



UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation 1/15/2019 7:58:17 AM
 From File WorkSheet.xls
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Pb

General Statistics

Total Number of Observations	52	Number of Distinct Observations	48
Number of Detects	47	Number of Non-Detects	5
Number of Distinct Detects	47	Number of Distinct Non-Detects	1
Minimum Detect	2.88	Minimum Non-Detect	2.5
Maximum Detect	114	Maximum Non-Detect	2.5
Variance Detects	444.1	Percent Non-Detects	9.615%
Mean Detects	21.84	SD Detects	21.07
Median Detects	17.5	CV Detects	0.965
Skewness Detects	2.155	Kurtosis Detects	6.776
Mean of Logged Detects	2.673	SD of Logged Detects	0.939

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.792	Shapiro Wilk GOF Test	
5% Shapiro Wilk Critical Value	0.946	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.184	Lilliefors GOF Test	
5% Lilliefors Critical Value	0.129	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	19.98	Standard Error of Mean	2.891
SD	20.62	95% KM (BCA) UCL	24.8
95% KM (t) UCL	24.83	95% KM (Percentile Bootstrap) UCL	25.06
95% KM (z) UCL	24.74	95% KM Bootstrap t UCL	26.23
90% KM Chebyshev UCL	28.66	95% KM Chebyshev UCL	32.58
97.5% KM Chebyshev UCL	38.04	99% KM Chebyshev UCL	48.75

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.814	Anderson-Darling GOF Test	
5% A-D Critical Value	0.771	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.141	Kolmogrov-Smirnoff GOF	
5% K-S Critical Value	0.132	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.359	k star (bias corrected MLE)	1.286
Theta hat (MLE)	16.08	Theta star (bias corrected MLE)	16.98
nu hat (MLE)	127.7	nu star (bias corrected)	120.9
MLE Mean (bias corrected)	21.84	MLE Sd (bias corrected)	19.26

Gamma Kaplan-Meier (KM) Statistics

	A	B	C	D	E	F	G	H	I	J	K	L
105	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
106	Recommendations are based upon data size, data distribution, and skewness.											
107	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
108	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
109												

UCL Statistics for Uncensored Full Data Sets

User Selected Options

Date/Time of Computation 1/15/2019 7:50:36 AM
 From File WorkSheet.xls
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

As

General Statistics

Total Number of Observations	90	Number of Distinct Observations	89
		Number of Missing Observations	0
Minimum	0.606	Mean	6.129
Maximum	77.6	Median	2.78
SD	12.03	Std. Error of Mean	1.268
Coefficient of Variation	1.963	Skewness	4.329

Normal GOF Test

Shapiro Wilk Test Statistic	0.459	Shapiro Wilk GOF Test
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.326	Lilliefors GOF Test
5% Lilliefors Critical Value	0.0934	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	8.237	95% Adjusted-CLT UCL (Chen-1995)	8.834
		95% Modified-t UCL (Johnson-1978)	8.334

Gamma GOF Test

A-D Test Statistic	5.194	Anderson-Darling Gamma GOF Test
5% A-D Critical Value	0.792	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.189	Kolmogrov-Smirnoff Gamma GOF Test
5% K-S Critical Value	0.0978	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.777	k star (bias corrected MLE)	0.758
Theta hat (MLE)	7.892	Theta star (bias corrected MLE)	8.084
nu hat (MLE)	139.8	nu star (bias corrected)	136.5
MLE Mean (bias corrected)	6.129	MLE Sd (bias corrected)	7.039
		Approximate Chi Square Value (0.05)	110.5
Adjusted Level of Significance	0.0473	Adjusted Chi Square Value	110.1

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	7.571	95% Adjusted Gamma UCL (use when n<50)	7.597
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Lognormal GOF Test

Shapiro Wilk Test Statistic	0.923	Shapiro Wilk Lognormal GOF Test
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	A	B	C	D	E	F	G	H	I	J	K	L
53				5% Shapiro Wilk P Value		1.4959E-5						Data Not Lognormal at 5% Significance Level
54				Lilliefors Test Statistic		0.0936						Lilliefors Lognormal GOF Test
55				5% Lilliefors Critical Value		0.0934						Data Not Lognormal at 5% Significance Level
56				Data Not Lognormal at 5% Significance Level								
57												
58				Lognormal Statistics								
59				Minimum of Logged Data		-0.501					Mean of logged Data	1.046
60				Maximum of Logged Data		4.352					SD of logged Data	1.097
61												
62				Assuming Lognormal Distribution								
63				95% H-UCL		6.817					90% Chebyshev (MVUE) UCL	7.333
64				95% Chebyshev (MVUE) UCL		8.326					97.5% Chebyshev (MVUE) UCL	9.705
65				99% Chebyshev (MVUE) UCL		12.41						
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		8.215					95% Jackknife UCL	8.237
72				95% Standard Bootstrap UCL		8.096					95% Bootstrap-t UCL	9.56
73				95% Hall's Bootstrap UCL		9.022					95% Percentile Bootstrap UCL	8.346
74				95% BCA Bootstrap UCL		9.005						
75				90% Chebyshev(Mean, Sd) UCL		9.934					95% Chebyshev(Mean, Sd) UCL	11.66
76				97.5% Chebyshev(Mean, Sd) UCL		14.05					99% Chebyshev(Mean, Sd) UCL	18.75
77												
78				Suggested UCL to Use								
79				95% Chebyshev (Mean, Sd) UCL		11.66						
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				These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)								
83				and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.								
84				For additional insight the user may want to consult a statistician.								
85												