PRELIMINARY ENVIRONMENTAL ASSESSMENT – EQUIVALENT REPORT

JOHN F. KENNEDY SENIOR HIGH SCHOOL
11254 GOTHIC AVENUE
GRANADA HILLS, CALIFORNIA 91344

Prepared for

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

February 13, 2019

Prepared by

PARSONS 100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

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ACRONYMS

Addendum	Preliminary Environmental Assessment-Work Plan Addendum
AIN	Assessors Identification Number
bgs	below ground surface
DOGGR	Department of Conservation of Oil, Vapor and Geothermal Resources
DTSC	Department of Toxic Substances Control
EDR	Environmental Data Resources
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
ft	feet
kg/dl	kilograms per deciliter
IDW	investigation derived waste
LAUSD	Los Angeles Unified School District
MDL	Method Detection Limit
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
OCP	Organochlorine Pesticides
OEHS	Office of Environmental Health and Safety
PCBs	Polychlorinated biphenyl's
PEA-E	Preliminary Environmental Assessment – Equivalent
PID	photoionization detector
p/L	picocuries per liter
ppm	parts per million
PQL	Practical Quantitation Limit
PSL	Preliminary Screening Level
RCRA	Resource Conservation and Recovery Act
RECs	Recognized Environmental Conditions
RFP	Request for Proposal
Report	Preliminary Environmental Assessment – Equivalent Report
Site	John F. Kennedy Senior High School
STLC	Soluble Threshold Limit Concentration
TPH	Total Petroleum Hydrocarbons
ug/L	micrograms per liter
USEPA	United State Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds
Work Plan	Preliminary Environmental Assessment – Equivalent Work Plan

EXECUTIVE SUMMARY

This *Preliminary Environmental Assessment – Equivalent Report* (Report) documents the results of soil sampling and laboratory analyses for the proposed seismic retrofit and infrastructure improvement project at John F. Kennedy Senior High School (Site) in Granada Hills. The Site is located at 11254 Gothic Avenue in Granada Hills, California 91344. This report has been prepared for the Los Angeles Unified School District (LAUSD) to present a summary of the sampling and analyses activities conducted for the proposed project area on the school campus.

The Preliminary Environmental Assessment-Equivalent (PEA-E) was conducted by Parsons as requested by the LAUSD's Office of Environmental Health and Safety (OEHS) based on their review of the Geosyntec Consultants *Technical Memorandum, Preliminary Environmental Assessment – Equivalent Work Plan Kennedy High School* (Geosyntec, 2018) and Parson's *Addendum to the Technical Memorandum for Preliminary Environmental Assessment – Equivalent Workplan* (Parsons, 2018). It was also conducted in accordance with applicable regulatory guidance, including the *Preliminary Endangerment Assessment Guidance Manual* prepared by the California Department of Toxic Substances Control (DTSC).

LAUSD is planning on modernizing the Site in a three-phased construction/remodeling program. As part of this redevelopment, the existing portable classroom buildings (bungalows) will be removed and existing permanent buildings will be remodeled to meet current building standards. This Report documents the efforts conducted to characterize potential environmental impacts present in soil near existing structures in the proposed project areas. The objective of the work was to evaluate potential soil impacts in shallow soil in the proposed project area. Based on the age of the buildings it is possible that arsenic, lead, total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), pesticides and polychlorinated biphenyls (PCBs) may be present in shallow soil. **Figure 2** is a detailed site map of the high school.

Soil samples were collected from 41 initial boring locations at depths of 0 to 0.5-, 1.5 to 2.0-, and 2.5 to 3-feet (ft) below ground surface (bgs). Soil from the 41 initial borings was analyzed for lead, arsenic and organochlorine pesticides (OCPs). The samples at 2.0- and 3.0-ft bgs were placed on hold at the analytical laboratory pending the results of the 0.5-ft sample. Soil from 10% of the initial samples collected at 0.5-ft bgs was analyzed for polychlorinated biphenyls (PCBs). Soil from three (3) borings located in areas where volatile organic compounds (VOCs) may have been stored were analyzed for total petroleum hydrocarbons (TPH) and VOCs to a maximum depth of 0.5-ft bgs. After a review of the soil analytical data from the 41 borings, step-out borings were selected at one of the initial boring locations and analyzed for lead and OCPs.

The following conclusions were derived from the soil sampling and analyses conducted at the John F. Kennedy Senior High School:

- The concentrations of arsenic in the samples analyzed from the 41 borings at 0.5-ft bgs were below the preliminary screening level (PSL) of 12 milligrams per kilogram (mg/kg).

- The concentrations of PCBs in the samples analyzed from the four borings (representing approximately 10% of the 41 soil samples collected at 0.5-ft bgs) were below their respective PSLs.
- The concentrations of TPH and VOCs in the samples analyzed from the three borings in the areas where TPH and or VOC containing materials may have been stored were below their respective PSLs.
- The concentrations of OCPs in the samples collected at 0.5 ft bgs from the 41 boring locations were below their respective PSLs, with the exception of 4,4'-DDE which was detected above the PSL of 2,000 micrograms per kilogram (ug/kg) at sample location SS-8. The step-down samples at 2.0-ft bgs and 3.0-ft bgs vertically delineated 4,4'-DDE at sample location SS-8. SS-8 was laterally delineated 5-ft east, south and northwest of the initial boring location for 4,4'-DDE in 0.5 ft bgs samples at SS-8-E5, SS-8-S5, and SS-8-NW5, respectively.
- The concentrations of lead in the samples analyzed from the 0.5 ft bgs samples were below the PSL (80 mg/kg) in 40 of the 41 boring locations. Lead concentrations above the PSL of 80 mg/kg were only detected at one sample location (SS-8). The step-down samples at 2.0-ft bgs and 3-ft bgs vertically delineated lead at sample location SS-8. SS-8 was laterally delineated 5-ft east, south and northwest of the initial boring location for lead in 0.5 ft bgs samples at SS-8-E5, SS-8-S5, and SS-8-NW5, respectively. The STLC result for SS-8 at 0.50-ft bgs did not exceed the 5 milligram per liter (mg/L) threshold used by the State of California to define a waste as non-Resource Conservation and Recovery Act (RCRA) hazardous.
- An estimated 1.9 cubic yards of soil are impacted by lead and 4,4-DDE above their PSL.

The following recommendation is based on the above conclusions:

- Shallow soil impacted by lead and 4,4-DDE above their PSL should be removed and properly disposed of. The soil can be managed as a non-hazardous waste.

1.0 INTRODUCTION

This *Preliminary Environmental Assessment – Equivalent Report* (Report) documents the results of soil sampling and laboratory analyses for the proposed seismic retrofit and infrastructure improvement project at John F. Kennedy Senior High School (Site) in Granada Hills. The Site is located at 11254 Gothic Avenue in Granada Hills, California 91344 (**Figure 1**). This report has been prepared for the Los Angeles Unified School District (LAUSD) to present a summary of the sampling and analyses activities conducted for the proposed project area on the school campus.

The Preliminary Environmental Assessment-Equivalent (PEA-E) was conducted as requested by the LAUSD's Office of Environmental Health and Safety (OEHS) based on their review of the Geosyntec Consultants *Technical Memorandum, Preliminary Environmental Assessment – Equivalent Work Plan Kennedy High School,* dated August 20, 2018 (Geosyntec, 2018) and Parson's *Addendum to the Technical Memorandum for Preliminary Environmental Assessment – Equivalent Workplan,* dated November 5, 2018 (Parsons, 2018). It was also conducted in accordance with applicable regulatory guidance, including the *Preliminary Endangerment Assessment Guidance Manual* prepared by the California Department of Toxic Substances Control (DTSC).

1.1 OBJECTIVES

LAUSD is planning on modernizing the Site in a three-phased construction/remodeling program. As part of this modernization, the existing portable classroom buildings (bungalows) will be removed and existing permanent buildings will be remodeled to meet current building standards. This Report documents the efforts conducted to characterize potential environmental impacts present in soil near existing structures in the proposed project areas. The objective of the work was to evaluate potential soil impacts in shallow soil in the proposed project area. Based on the age of the buildings it is possible that arsenic, lead, total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), pesticides and polychlorinated biphenyls (PCBs) may be present in shallow soil. **Figure 2** is a detailed site map of the high school.

1.1 SCOPE OF WORK

The PEA-E scope of work consisted of the following:

- Revision of the Technical Memorandum, Preliminary Environmental Assessment Work Plan (Work Plan) (Geosyntec, 2018) based on the OEHS request for proposal (RFP), the preliminary Site walk conducted with OEHS and the project team meeting.

- Preparation and distribution of an English and Spanish fieldwork notice. The fieldwork notice was distributed to line-of-sight neighbors, faculty, parents of John F. Kennedy Senior High School students, properties within 500 feet of the school perimeter and posted on the school fence line.
- Preparation of a Site-Specific Health and Safety Plan.
- Notification of the planned subsurface investigation to DigAlert. Boring locations were marked in the field using chalk-based paint and a geophysical survey was conducted prior to advancement of soil borings.
- Implementation of the Geosyntec Work Plan and Parsons Addendum to the Work Plan as follows:
    - Completion of 41 soil borings (SS-1 through SS-41) to a maximum depth of three (3)-feet (ft) below ground surface (bgs) to evaluate potential impacts in shallow soil from lead-based paint, arsenic and OCPs near Site buildings in the project area. The 0.5-ft depth soil sample was analyzed and the step-down samples at 2.0-ft and 3.0-ft were placed on hold at the analytical laboratory.
    - Soil in borings located near electrical transformers or switch gear (SS-8, SS-9, SS-32 and SS-34) was also analyzed for PCBs.
    - In areas where TPH and or VOCs may have been stored (SS-10 through SS-12), soil was also analyzed for VOCs and TPH.
    - Soil samples (SS-10 through SS-12) were screened using a photoionization detector (PID).
- Preparation of the PEA-E Report.

2.0 SUMMARY OF SITE BACKGROUND

2.1 SITE DESCRIPTION

The Site is located at 11254 Gothic Avenue, Granada Hills, CA 91344. The campus is bound to the south by residential and commercial properties, Gothic Avenue to the west, Simonds Street to the north, and Woodley Avenue to the east (**Figure 1**). The property is identified by the Los Angeles County Assessor's office with Assessor's Identification Numbers (AIN) 2681-10-909/2681-10/2681-10-911. The school was established between 1969 and 1970.

The Site consists of three parcels that are near rectangular with a total usable lot size of approximately 27.7 acres (Geosyntec, 2018). An adult continuation school and John F. Kennedy Senior High School currently occupy the Site (**Figure 2**). The school area consists of 24 permanent structures, 25 portable buildings, two baseball fields, a combination track and field/football field, five tennis courts, six basketball courts, and two parking lots (Geosyntec, 2018).

2.2 SITE BACKGROUND

The results of the historical research for the Site conducted by Geosyntec indicate that the Site consisted of agricultural land until 1952. The western half of the Site was developed as single-family residences between 1952 and 1963. The remainder of the Site was used for agricultural activities. The school was constructed within the current property limits between 1969 and 1970 (Geosyntec, 2017). The Site vicinity is primarily occupied by single-family residential structures to the west and east of the Site, a high-tension power transmission easement with single family and multi-family dwellings to the north, and residential structures and a commercial shopping center to the south (**Figure 2**).

2.3 PHASE 1 ENVIRONMENTAL SITE ASSESSMENT (2017)

A Phase 1 Environmental Site Assessment (ESA) was performed at the Site by Geosyntec in 2017. The ESA included a review of the physical setting and background information, a site reconnaissance to visually observe Site conditions, a review of regulatory agency databases (federal, state, tribal and local), an Environmental Data Resources (EDR) standard environmental database search report, historical research (aerial photographs, topographic maps, Sanborn maps, building department records, etc.), and an interview with the property owner representative regarding the environmental status of the Site. The ESA identified the following recognized environmental condition (REC): "during the site visit based on the warning labels posted on the pipelines, asbestos containing insulation materials were encountered over chilled water pipelines" (Geosyntec, 2017). The ESA did not include any recommendations.

2.4 PEA-E WORK PLAN TECHNICAL MEMORANDUM (2018)

A technical memorandum PEA-E Work Plan (Work Plan) was prepared by Geosyntec in 2018 to characterize potential environmental impacts present in Site soils near existing structures in the proposed project area. Based on the age of the buildings it is possible that arsenic, lead, TPH, VOCs, pesticides and PCBs may be present in shallow soil (Geosyntec, 2018). The Work Plan was approved by LAUSD and is presented in **Appendix A**.

2.5 PEA-E WORK PLAN TECHNICAL MEMORANDUM ADDENDUM (2018)

A technical memorandum PEA-E Work Plan Addendum (Addendum) was prepared by Parsons in 2018 after a Site visit with the project team and a subsequent meeting was conducted to discuss potential modifications to the Work Plan. The Addendum was approved by LAUSD and is presented in **Appendix B**.

3.0 ENVIRONMENTAL SETTING

The information presented in this section provide environmental setting information, including the topographic, geologic, and hydrogeologic characteristics of the subject property and surrounding area.

3.1 REGIONAL PHYSIOGRAPHIC SETTING

3.1.1 Topographic Setting

According to the 2018 United States Geological Survey (USGS) 7.5-minute series San Fernando Quadrangle, the approximate center of the school has a latitude (North) of 34º 16' 3" and longitude (West) of -118º 29' 12". The school elevation is on average approximately 960 feet above mean sea level. The subject school property is essentially flat, with a slight surface gradient toward the south/southeast.

3.1.2 Nearest Surface Water Body

The nearest surface water body to the school is the Lower Van Norman Lakes Reservoir, which is approximately 1.2 miles north of the subject school property. The reservoir drains to the south and is channelized beneath the surface of the school property. Additionally, the confluence of the channel and Bull Creek is present beneath the school property; this concrete channel then flows south toward the Pacific Ocean.

3.2 REGIONAL GEOLOGY

The 1991 Dibblee Geological Foundation Map DF-33 *Geologic Map of the San Fernando and North ½ Van Nuys Quadrangles* shows the school property and surrounding vicinity to be underlain with alluvium (Qa) consisting of alluvial gravel, sand and clay of valley and floodplain areas. The southern slopes of the San Gabriel Mountains are just north of the school. The school property is within the San Fernando Valley, which is a broad syncline within the western San Gabriel Mountains and eastern Santa Monica Mountains.

3.2.1 Nearest Known Earthquake Faults

The nearest fault to the school site is a concealed portion of the east–west trending Mission Hills Fault, which is approximately 0.25 miles north of the northern edge of the subject school property.

The San Fernando Valley is a roughly triangular feature within the Transverse Ranges province, a region noted for its intense and relatively young deformation (Morton and Yerkes, 1987; Donnellan et al., 1993; Wright, 1991; Yeats et al., 1994). The Transverse Ranges province is a region of north-south shortening that extends east-west across the northwest-trending San Andreas fault system. Its topographic features and geologic structure trend east-west and are most strikingly developed in the Ventura Basin. The San Fernando Valley is south of the east end of the present Ventura Basin. The Santa Monica Mountains, part of the Transverse Ranges, form the southern

margin of the San Fernando Valley. The northern margin of the San Fernando Valley is marked by a steep topographic front associated with the north-dipping Santa Susana thrust and Sierra Madre faults, part of a discontinuous, predominantly north-dipping thrust belt extending from the Santa Barbara Channel on the west to the San Bernardino Valley on the east (V.E. Langenheim, 2011).

3.2.2 Potential for Liquefaction and Landslides

According to the California Geological Survey *Earthquake Zones of Required Investigation* Map containing earthquake fault and seismic hazard zones, the northern edge of the school property is adjacent to a liquification zone. These zones are classified as "areas where historical occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required." The school property does not fall within an identified earthquake-induced landslide zone.

According to the City of Los Angeles Planning Department's ZIMAS interactive mapping tool (http://zimas.lacity.org) accessed on January 23, 2019, the school property is not within a potentially liquefiable zone, potential landslide area, Preliminary Fault Rupture Study Area, or an Alquist-Priolo Earthquake Fault Zone. This is based on soil type and historical depth to groundwater, not site-specific investigation.

3.2.3 Potential for Flooding

The school property is not located within a designated flood plain area, according to the Flood Insurance Rate Map #06037C1075F, dated September 26, 2008 (Prepared by the Federal Emergency Management Agency). The Site is determined to be in an area that is outside the 0.2% annual chance floodplain. The school property is not located within a designated flood zone per City of Los Angeles Planning Department's ZIMAS interactive mapping tool (http://zimas.lacity.org) accessed on January 23, 2019.

3.2.4 Radon

The California Geologic Survey's Radon Potential Zone Map (prepared for the California Department of Health Services, Environmental Health Division, for Southern Los Angeles County dated January 2005) indicates the school property is within an area estimated to have low potential for indoor radon levels above 4.0 Picocuries per liter (P/L). Radon information for Los Angeles County indicates that the United States Environmental Protection Agency (USEPA) has categorized Los Angeles County as Zone 2 for radon. A Zone 2 classification is for areas with indoor average radon levels of greater than or equal to 2 P/L, but less than or equal to 4 P/L. The USEPA radon recommended action level is 4 P/L.

3.2.5 Methane

According to the City of Los Angeles Planning Department's ZIMAS interactive mapping tool (http://zimas.lacity.org) accessed on January 23, 2019, the school property is not identified as or within a Methane Hazard Site (LAPD, 2019).

3.2.6 Oil Fields and Wells

No known oil wells are located on-Site or adjacent to the school property per State of California Department of Conservation Division of Oil, Gas, and Geothermal Resources (DOGGR) Online Mapping System (https://maps.conservation.ca.gov/doggr/wellfinder/#close). A review of the DOGGR oil well tracking maps (accessed January 23, 2019) did not identify any oil wells or natural gas fields located on the school property. The closest oil well is located more than one mile northwest of the school property, within the (former, now abandoned) Mission Oil Field.

Additionally, according to the Oil Wells, Oil Fields and Landfill Sites Map produced by the City of Los Angeles, Bureau of Engineering (2007), the school property is not located within or adjacent to a boundary of a productive oil field.

3.3 REGIONAL HYDROGEOLOGY

3.3.1 Groundwater Flow Direction

State of California's Geotracker database (accessed on January 24, 2019) nearest monitoring wells are associated with an environmental case (Target #T-0287 at 11155 Balboa Boulevard in Granada Hills), which is approximately 0.9 miles west/southwest of the school property. This case is currently in closure request phase, which is being evaluated by the Los Angeles Regional Water Quality Control Board. Depth to groundwater at their site has historically ranged from approximately 206 to 225 feet below ground surface. At their site, groundwater generally flows to the south with an estimated gradient of approximately 0.04 (1 foot per 24 feet) [Orion, 2018]. This was is an underground storage tank (UST) case that was opened in 1989. At 11501 Sepulveda Boulevard approximately 0.9 miles to the east/northeast of the school property, in 1995 during UST removal and subsequent environmental investigation, depth to water during monitoring well installation was found to be approximately 31 feet below grade (Broadbent, 1995).

3.3.2 Groundwater Wells Within a 1-Mile Radius of the School Property

The nearest groundwater well identified in the County of Los Angeles Department of Public Works production well location database (accessed January 23, 2019) is active well #4812C, located near Halsey Street and Swinton Avenue, approximately 0.25 miles north of the school property. The most recent depth to water measurement was 176.40 feet below grade, on May 28, 2015. The next nearest well is active well #4803B, which had a reported depth to water measurement of 287 feet below grade, measured on December 4, 2009. This well is located approximately one mile to the southwest of the school property, just to the northwest of the Petit Granada Hills Recreation Center.

4.0 SAMPLING ACTIVITIES AND RESULTS

4.1 SAMPLING ACTIVITIES

The following subsections summarize the field activities conducted during the soil sampling and analyses. A total of 41 initial boring locations were sampled at depths of 0 to 0.5-, 1.5 to 2.0-, and 2.5 to 3.0-ft bgs. The samples at 2.0- and 3.0-ft bgs were placed on hold with the analytical laboratory pending the results of the 0.5-ft sample. After review of the soil analytical data from the 41 borings, step-out borings were selected at one of the initial boring locations. Sampling locations are depicted on **Figures 3 - 5**.

4.1.1 NOTIFICATIONS AND PERMITTING

Prior to intrusive fieldwork, pre-field notifications to LAUSD were made. A work notice was prepared and mailed to all student residences and residences within a 500-foot radius of the school property. The work notice was provided to school staff and faculty and all residences and businesses within line-of-sight of the school where the work was being conducted. Work notices were also posted on all sides of the school perimeter fence within view from the public right-of-way. No regulatory permits were required to perform the work.

4.1.2 UTILITY CLEARANCE

The proposed soil borings were pre-marked with white paint and Underground Service Alert of Southern California (DigAlert) was notified of the proposed boring locations on November 13 and December 10, 2018, prior to initiating sampling activities. DigAlert contacted all utility owners of record within the Site vicinity and notified them of the planned subsurface investigation. All utility owners of record, or their designated agents, clearly marked the position of their utilities on the ground surface, the public right-of-way sidewalks, and street adjacent to the area designated for investigation, up to the school property line. LAUSD provided several available as-built plans depicting locations of subsurface structures and utilities which were also reviewed prior to marking the boring locations.

The proposed sampling area was surveyed by Pacific Coast Locaters, Inc. (PCL), a private utility locator on November 19, 2018, for the presence of underground utilities using geophysical methods (including ground-penetrating radar, electromagnetic utility locating, and deep search metal detector). The step-out sampling locations were surveyed by PCL on December 18, 2018. Based on the presence of several identified subsurface utilities, several of the proposed soil boring locations were relocated several feet to avoid utilities during hand augering.

4.1.3 SOIL LOGGING AND SAMPLE COLLECTION

Soil samples were collected on November 19 and 20, 2018 and step-out soil samples were collected on December 18, 2018. The asphalt or concrete was cored before samples were collected. Soil samples were collected using a hand auger at each location. Each soil sample was collected in a

manner that minimized disturbance and allowed the sample to retain as much of the original structure as possible. Soil samples were collected in new laboratory-provided glass jars, which were then placed in individual sealable plastic bags. Each sample jar was labeled individually, stored in an ice chest containing ice, and delivered to a certified laboratory with a chain-of-custody form. Soil characteristics were logged on field boring logs (**Appendix C**). Per LAUSD instruction, borings were backfilled with leftover soil cuttings and clean sand, and the top approximately four (4) inches was set with concrete flush with the existing surface.

Field screening was conducted at soil borings SS-10 through SS-12 using a PID. The PID was calibrated with 100 parts per million (ppm) isobutylene gas at the beginning of each fieldwork day. Soil was placed into a resealable bag and allowed to sit exposed to the sun for approximately five (5) minutes, at which time the VOC concentration in the headspace was measured by inserting the PID probe inside the bag. The PID readings were recorded on the boring logs prepared by the field geologist during soil sampling activities. The remaining soil borings were only screened using the PID if visual staining or odors were observed.

4.1.4 Equipment Decontamination and Investigation-Derived Waste

Down-hole equipment used during soil sampling activities was decontaminated prior to use at each sampling point to reduce the potential for cross-contamination. Reusable sampling equipment was decontaminated between each sampling location using the following procedures:

- Wash with Liquinox and brush to remove excess contaminants;
- Rinse with distilled water; and
- Rinse twice with distilled water.

Used personal protective equipment and disposable equipment was double-bagged and placed in the on-site dumpster. These wastes are not considered hazardous and were sent to a municipal landfill.

One (1) 55-gallon drum of asphalt, along with approximately 10 gallons of decontamination water, was generated during the field activities. The asphalt and decontamination water were temporarily stored onsite in properly labeled Department of Transportation-approved drums pending disposal profiling. The two drums were removed by Belshire Environmental Services, Inc. BESI on January 4, 2019. The decontamination water drum was disposed of at Demenno Kerdoon in Compton, CA and the asphalt drum was disposed of at Philadelphia Recycling Mine in Mira Loma, CA. Drum disposal documentation is provided in **Appendix D.**

4.2 Preliminary Screening Levels

Analytical results for the soil samples were compared with risk-based screening levels to determine if the analytes are present at the Site at concentrations that may represent a potential health risk. The screening levels are referred to here and after as PSLs (preliminary screening levels). For

direct exposures to soils, the DTSC's (2015a) *Preliminary Endangerment Assessment Manual* states that risk-based screening levels used should be "the USEPA Regional Screening Level (RSL) for residential land use, modified as necessary by the DTSC in HHRA Note 3." Thus, the screening levels used here are, in general, the USEPA RSLs (2018) unless DTSC (2018) has published a screening value of its own, termed the DTSC-SLs. Chemicals with special considerations are discussed in more detail below.

Arsenic: The residential risk-based screening levels from USEPA (2018) and DTSC (2018) of 0.68 and 0.11 milligrams per kilogram (mg/kg) are well below background concentrations (Chernoff et al. 2008). DTSC conducted a statistical evaluation of background data for arsenic in soils from Los Angeles, Orange, Riverside, San Bernardino, and San Diego Counties to derive an upper bound background threshold value for arsenic. Based on an evaluation of 1,086 data points, the authors derived a background threshold value for arsenic of 12 mg/kg, which is used here as the arsenic screening level.

Lead: Adverse health effects associated with exposure to lead have been correlated with concentrations of lead in whole blood. Although USEPA uses 10 micrograms per deciliter (µg/dl) as the threshold level of concern, California (OEHHA 2007) uses 1 µg/dl. A screening level of 80 mg/kg protective of a 90th percentile estimate of 1 µg/dl blood lead concentration in children was calculated by Cal EPA (OEHHA 2009), which is used by DTSC (2018). This standard represents the concentration of lead in soil that will result in a 90th percentile estimate of a 1 µg/dl increase in blood lead in the most sensitive receptor (i.e., child or fetus). DTSC (2018) states that individual samples may exceed 80 mg/kg, as long as the 95% UCL is below 80 mg/kg and hot spots are not present.

Petroleum hydrocarbons: Neither DTSC (2018) nor USEPA (2018) provide risk-based screening levels for petroleum hydrocarbons as measured by USEPA Method 8015. Instead, DTSC (2015) recommends that the risk-based screening levels derived by the San Francisco Regional Board (2016) for direct contact be used.

4.3 SOIL SAMPLING RESULTS

The soil samples were analyzed by American Environmental Testing Laboratory (AETL) in Burbank, California. Copies of the analytical laboratory reports are provided in **Appendix E**.

4.3.1 LEAD AND ARSENIC

Shallow soil samples (0.5-ft bgs) at the 41 initial boring locations (SS-1 through SS-41) along with five (5) duplicates were collected and analyzed for lead and arsenic, using Environmental Protection Agency (EPA) Method 6010B for lead and EPA Method 6020 for arsenic. Detected arsenic concentrations ranged from 1.09 mg/kg (SS-10) to 5.68 mg/kg (SS-26). Detected lead concentrations ranged from 2.63J mg/kg (SS-10) to 81.6 mg/kg (SS-8). A J Flag is an estimated

value, which is between the method detection limit (MDL) and practical quantitation limit (PQL). **Table 1** provides a summary of all the arsenic and lead results.

Based on a review of the sample results at 0.5-ft bgs there were no PSL exceedances for arsenic. The lead concentration at one shallow soil sample location (SS-8) exceeded the PSL. To bound the vertical extent of lead at SS-8 the step-down samples at 2.0-ft bgs and 3.0-ft bgs were analyzed for lead. The lead concentrations in the vertical step-down samples at SS-8 were below the PSL.

Step-out sampling for lead was conducted at boring location SS-8, approximately 5-feet east, 5-feet northwest and 5-feet south of the initial sample location. at 0.5-ft bgs. The maximum concentration of lead in the step-out samples was 30.6 mg/kg (SS-8-E), which is below the PSL of 80 mg/kg. The step-out sample locations are presented on **Figure 3.**

The lead concentration at sample location SS-8 at 0.5-ft bgs exceeded 80 mg/kg. The sample was analyzed for soluble lead by the California Soluble Threshold Limit Concentration (STLC) test method for waste characterization purposes. The STLC result for SS-8 at 0.50-ft bgs did not exceed the 5.0 milligram per liter (mg/L) threshold used by the State of California to define a waste as non-Resource Conservation and Recovery Act (RCRA) hazardous. The result of the STLC analysis is presented in **Table 1** and a copy of the analytical laboratory report is provided in **Appendix E**.

4.2.2 ORGANOCHLORINE PESTICIDES

Shallow soil samples (0.5-ft bgs) at the 41 initial boring locations (SS-1 through SS-41) along with five (5) duplicates were collected and analyzed for OCPs by EPA Method 8081A. The laboratory results indicated the only OCP detections above the practical quantitation limit (PQL) in soil samples were for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, chlordane (total), and dieldrin. The 4,4'-DDE detection at SS-8 at 4,100 micrograms/kilogram (ug/kg) was the only OCP detection above PSLs. To bound the vertical extent of 4,4'-DDE at SS-8 the step-down samples at 2.0-ft bgs and 3.0-ft bgs were analyzed for OCPs. The 4,4'-DDE concentrations in the vertical samples at SS-8 were below the PSL. The OCP results are presented in **Table 2**.

To laterally delineate 4,4'-DDE from location SS-8, three step-out borings were completed, at approximately 5-feet east, 5-feet northwest and 5-feet south of the initial sample location. The maximum concentration of 4,4'-DDE in the 0.5-ft bgs step-out samples was 1,100 ug/kg (SS-8-E), which is below the PSL of 2,000 ug/kg. The step-out sample locations are presented on **Figure 3.**

4.2.3 PCBS

A total of four (4) shallow soil samples (0.5 ft bgs) and one (1) duplicate sample, representing 10% of the initial sample locations, were collected and analyzed for PCBs using EPA Method 8082. PCBs were detected above the PQL at only one (1) of the soil sample locations (SS-32).

The PCB detection (PCB-1248) at SS-32 (55.4 ug/kg) was below the PCB-1248 PSL of 230 ug/kg. The PCB results are presented in **Table 3**.

4.2.4 TPH

A total of three (3) shallow soil samples (0.5 ft bgs) and one (1) duplicate sample were collected and analyzed for TPH as gasoline (C4-C12), TPH as Diesel (C13-C22), and TPH as Heavy Hydrocarbons (C23-C40) by EPA Method 8015. TPH was not detected above the laboratory reporting limits in any of the samples analyzed. The analytical results are presented in **Table 4**.

4.2.5 VOCs

A total of three (3) shallow soil samples (0.5 ft bgs) and one (1) duplicate sample were collected and analyzed for VOCs by EPA Method 8260. VOCs were not detected above their respective laboratory reporting limits in any of the samples analyzed. One primary sample (SS-10) and the duplicate sample at SS-10 had laboratory J-qualifiers between the PQL and method detection limit (MDL) for benzene. As presented in **Table 5**, none of the VOC sample compounds exceeded their respective PSLs.

4.2.5 DELINEATION OF IMPACTS IN SOIL

Lead and 4,4'-DDE concentrations in soil exceeded their PSLs at one location (SS-8) at 0.5-ft bgs. The vertical extent of PSL exceedances in soil at SS-8 was delineated by analyzing the step-down samples. PSL exceedances of lead and 4,4-DDE in soil do not extend below 2.0-ft bgs at SS-8. Step-out sampling conducted at SS-8 also delineated the lateral extent of PSL exceedance in soil. An estimated 1.9 cubic yards of soil are impacted by lead and 4,4-DDE above their PSLs.

5.0 HEALTH AND SAFETY

Fieldwork was performed in accordance with the Parsons Health and Safety Plan (HASP) and the requirements of the LAUSD. A copy of the HASP was on-Site during the field activities. A tailgate safety meeting was conducted daily prior to the start of work. An Activity Hazard Analysis appropriate to each field task was reviewed and a daily toolbox meeting record was signed prior to the start of any work on-site. Subcontractor personnel were trained to meet all HASP requirements.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions were derived from the soil sampling and analyses conducted at the John F. Kennedy Senior High School:

- The concentrations of arsenic in the samples analyzed from the 41 borings at 0.5-ft bgs were below the preliminary screening level (PSL) of 12 mg/kg.
- The concentrations of PCBs in the samples analyzed from the four borings (representing approximately 10% of the 41 soil samples collected at 0.5-ft bgs) were below their respective PSLs.
- The concentrations of TPH and VOCs in the samples analyzed from the three borings in the areas where TPH and or VOC containing materials may have been stored were below their respective PSLs.
- The concentrations of OCPs in the samples collected at 0.5 ft bgs from the 41 boring locations were below their respective PSLs, with the exception of 4,4'-DDE which was detected above the PSL of 2,000 ug/kg at sample location SS-8. The step-down samples at 2.0-ft bgs and 3.0-ft bgs vertically delineated 4,4'-DDE at sample location SS-8. SS-8 was laterally delineated 5-ft east, south and northwest of the initial boring location for 4,4'-DDE in 0.5 ft bgs samples at SS-8-E5, SS-8-S5, and SS-8-NW5, respectively (**Figure 3**).
- The concentrations of lead in the samples analyzed from the 0.5 ft bgs samples were below the PSL (80 mg/kg) in 40 of the 41 boring locations. Lead concentrations above the PSL of 80 mg/kg were only detected at one sample location (SS-8). The step-down samples at 2.0-ft bgs and 3-ft bgs vertically delineated lead at sample location SS-8. SS-8 was laterally delineated 5-ft east, south and northwest of the initial boring location for lead in 0.5 ft bgs samples at SS-8-E5, SS-8-S5, and SS-8-NW5, respectively. The STLC result for SS-8 at 0.50-ft bgs did not exceed the 5.0 mg/L threshold used by the State of California to define a waste as non-Resource Conservation and Recovery Act (RCRA) hazardous.
- An estimated 1.9 cubic yards of soil are impacted by lead and 4,4-DDE above their PSL.

The following recommendation is based on the above conclusions:

- Shallow soil impacted by lead and 4,4-DDE above their PSL should be removed and properly disposed of (**Figure 3**). The soil can be managed as a non-hazardous waste.

7.0 REFERENCES

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TABLES

TABLE 1
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD Kennedy High School PEA Equivalent

Sample ID	Sample Date	Sample Depth	Lead	Arsenic	STLC - Lead
	Units	ft bgs	mg/kg	mg/kg	mg/L
	Test Methods	--	6010B	6020	6010B
	Screening Levels	--	80	12	5.0
SS-1-D0.5	11/20/2018	0.5	7.09	1.74	--
SS-2-D0.5	11/20/2018	0.5	5.02	2.46	--
SS-2-D0.5D	11/20/2018	0.5	5.36	2.11	--
SS-3-D0.5	11/20/2018	0.5	5.21	2.02	--
SS-4-D0.5	11/20/2018	0.5	3.63J	2.04	--
SS-5-D0.5	11/20/2018	0.5	6.00	1.88	--
SS-6-D0.5	11/20/2018	0.5	8.76	2.65	--
SS-7-D0.5	11/20/2018	0.5	4.17J	1.52	--
SS-8-D0.5	11/20/2018	0.5	81.6	3.93	3.35
SS-8-D0.5D	11/20/2018	0.5	55	4.16	--
SS-8-D2.0	11/20/2018	2.0	4.82J	--	--
SS-8-D3.0	11/20/2018	3.0	4.18J	--	--
SS-8-NW5-D0.5	12/18/2018	0.5	2.84J	--	--
SS-8-NW5-D0.5D	12/18/2018	0.5	2.55J	--	--
SS-8-E5-D0.5	12/18/2018	0.5	30.6	--	--
SS-8-S5-D0.5	12/18/2018	0.5	16.8	--	--
SS-9-D0.5	11/20/2018	0.5	5.85	2.35	--
SS-10-D0.5	11/20/2018	0.5	3.25J	1.55	--
SS-10-D0.5D	11/20/2018	0.5	2.63J	1.09	--
SS-11-D0.5	11/20/2018	0.5	4.62J	1.51	--
SS-12-D0.5	11/20/2018	0.5	9.77	1.69	--
SS-13-D0.5	11/20/2018	0.5	4.38J	1.99	--
SS-14-D0.5	11/20/2018	0.5	3.94J	2.18	--
SS-15-D0.5	11/20/2018	0.5	6.74	2.39	--
SS-16-D0.5	11/20/2018	0.5	5.26	3.07	--
SS-17-D0.5	11/19/2018	0.5	ND<5.0	1.81	--
SS-18-D0.5	11/19/2018	0.5	8.45	1.58	--
SS-19-D0.5	11/19/2018	0.5	2.90J	2.83	--
SS-20-D0.5	11/19/2018	0.5	4.75J	2.36	--
SS-21-D0.5	11/19/2018	0.5	5.20	2.56	--
SS-22-D0.5	11/19/2018	0.5	7.46	3.23	--
SS-23-D0.5	11/19/2018	0.5	10.4	4.34	--
SS-24-D0.5	11/19/2018	0.5	5.18	2.63	--
SS-25-D0.5	11/19/2018	0.5	4.94J	3.27	--
SS-26-D0.5	11/19/2018	0.5	6.70	5.01	--
SS-26-D0.5D	11/19/2018	0.5	6.28	5.68	--
SS-27-D0.5	11/19/2018	0.5	5.48	4.25	--
SS-28-D0.5	11/19/2018	0.5	4.54J	4.29	--
SS-29-D0.5	11/19/2018	0.5	4.61J	3.47	--
SS-30-D0.5	11/19/2018	0.5	3.03J	2.62	--
SS-31-D0.5	11/19/2018	0.5	10.9	2.77	--

TABLE 1
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD Kennedy High School PEA Equivalent

Sample ID	Sample Date	Sample Depth	Lead	Arsenic	STLC - Lead
	Units	ft bgs	mg/kg	mg/kg	mg/L
	Test Methods	--	6010B	6020	6010B
	Screening Levels	--	80	12	5.0
SS-32-D0.5	11/19/2018	0.5	3.28J	2.51	--
SS-33-D0.5	11/19/2018	0.5	5.96	4.70	--
SS-34-D0.5	11/19/2018	0.5	5.24	3.35	--
SS-35-D0.5	11/19/2018	0.5	6.81	2.15	--
SS-36-D0.5	11/19/2018	0.5	10.2	2.73	--
SS-37-D0.5	11/19/2018	0.5	14.6	2.03	--
SS-38-D0.5	11/19/2018	0.5	3.50J	2.52	--
SS-39-D0.5	11/19/2018	0.5	3.41J	3.38	--
SS-40-D0.5	11/19/2018	0.5	4.90J	2.12	--
SS-41-D0.5	11/19/2018	0.5	ND<5.0	1.53	--
SS-41-D0.5D	11/19/2018	0.5	ND<5.0	2.11	--

ND = Not detected at or above the indicated practical quantitation limit
Yellow highlighted cell = lead value >80 mg/kg
Gray highlighted cell indicates step-out sample location
mg/kg = miligrams per kilogram
STLC = soluble threshold limit concentration
ft bgs = feet below ground surface
J = Analyte was detected. However, the analyte concentration is an estimated value, which is between the method detection limit (MDL) and the practical quantiation limit (PQL).

Lead screening level based on Department of Toxic Substances Control (DTSC) The Human and Ecological Risk Office (HERO) Human Health Risk (DTSC. 2013a. Human Health Risk Assessment (HHRA) Note Number 3. Office of Human and Ecological Risk. May 21, 2013.)

Arsenic screening level based on DTSC determination of Southern California Regional Background Arsenic Concentration in soil (DTSC. 2008. Determination of a Southern California Regional Background Arsenic Concentration in Soil. G. Chernof, B. Bosan, and D

TABLE 2
ANALYTICAL RESULTS FOR ORGANOCHLORINE PESTICIDES IN SOIL
LAUSD Kennedy High School PEA Equivalent

Sample ID	Sample Collection Date	Depth (ft below grade)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Chlordane (total)	Dieldrin	Other OCPs
		RSL*	1900	2000	1900	440	34	--
		Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
SS-1-D0.5	11/20/2018	0.5	ND<2.0	4.08	ND<2.0	ND<2.0	ND<2.0	ND
SS-2-D0.5	11/20/2018	0.5	2.58	27.4	7.26	2.01	1.86J	ND
SS-2-D0.5D	11/20/2018	0.5	1.06J	13.9	2.26	1.41J	ND<2.0	ND
SS-3-D0.5	11/20/2018	0.5	1.56J	28.4	4.66	1.72J	2.17	ND
SS-4-D0.5	11/20/2018	0.5	8.13	95.0	44.6	32.2	10.2	ND
SS-5-D0.5	11/20/2018	0.5	4.62	38.9	ND<2.0	6.55	7.64	ND
SS-6-D0.5	11/20/2018	0.5	3.93	45.1	7.30	4.40	10.5	ND
SS-7-D0.5	11/20/2018	0.5	ND<2.0	2.02	ND<2.0	2.13	1.53J	ND
SS-8-D0.5	11/20/2018	0.5	8.3	**4,110**	18.5	10.4	6.49	ND
SS-8-D0.5D	11/20/2018	0.5	2.70	**2,650**	9.16	4.19	ND<2.0	ND
SS-8-D2.0	11/20/2018	2.0	ND<1.0	64.0	2.29	ND<1.0	ND<1.0	ND
SS-8-D3.0	11/20/2018	3.0	ND<1.0	3.50	3.15	ND<1.0	ND<1.0	ND
SS-8-NW5-D0.5	12/18/2018	0.5	ND<2.0	3.72	3.08	1.08J	1.05J	ND
SS-8-NW5-D0.5D	12/18/2018	0.5	ND<2.0	3.31	2.84	1.72J	1.32J	ND
SS-8-E5-D0.5	12/18/2018	0.5	11.0	1,100	81.5	5.17	5.78	ND
SS-8-S5-D0.5	12/18/2018	0.5	6.28	841	46.7	2.27	1.78J	ND
SS-9-D0.5	11/20/2018	0.5	3.34	35.1	15.9	2.62	1.90J	ND
SS-10-D0.5	11/20/2018	0.5	ND<2.0	2.42	2.00	ND<2.0	ND<2.0	ND
SS-10-D0.5D	11/20/2018	0.5	ND<2.0	6.07	3.25	ND<2.0	ND<2.0	ND
SS-11-D0.5	11/20/2018	0.5	1.80J	33.3	4.26	2.52	4.42	ND
SS-12-D0.5	11/20/2018	0.5	5.18	38.2	20.9	6.23	7.31	ND
SS-13-D0.5	11/20/2018	0.5	1.58J	9.74	6.88	27.0	3.7	ND
SS-14-D0.5	11/20/2018	0.5	ND<2.0	1.88J	2.82	5.69	1.46J	ND
SS-15-D0.5	11/20/2018	0.5	1.17J	5.53	7.63	3.92	2.38	ND
SS-16-D0.5	11/20/2018	0.5	ND<2.0	ND<2.0	1.26J	ND<2.0	ND<2.0	ND
SS-17-D0.5	11/19/2018	0.5	2.84	15.1	10.0	2.13	ND<2.0	ND
SS-18-D0.5	11/19/2018	0.5	1.32J	12.6	20.4	3.33	2.22	ND
SS-19-D0.5	11/19/2018	0.5	4.20	51.7	31.4	5.64	4.96	ND
SS-20-D0.5	11/19/2018	0.5	ND<2.0	16.2	ND<2.0	4.83	1.90J	ND
SS-21-D0.5	11/19/2018	0.5	ND<10	6.47J	5.94J	5.73J	ND<10	ND
SS-22-D0.5	11/19/2018	0.5	6.69	46.1	46.0	9.46	5.30	ND
SS-23-D0.5	11/19/2018	0.5	1.67J	99.0	16.3	7.23	3.38	ND
SS-24-D0.5	11/19/2018	0.5	2.10	24.0	9.92	3.23	3.89	ND
SS-25-D0.5	11/19/2018	0.5	3.46	36.8	38.8	7.90	3.21	ND
SS-26-D0.5	11/19/2018	0.5	2.99	75.7	24.3	13.6	7.68	ND
SS-26-D0.5D	11/19/2018	0.5	2.99	88.6	33.7	15.1	8.57	ND
SS-27-D0.5	11/19/2018	0.5	2.24	9.76	19.7	6.38	5.35	ND
SS-28-D0.5	11/19/2018	0.5	2.00	24.3	17.1	8.76	7.48	ND
SS-29-D0.5	11/19/2018	0.5	1.64J	28.5	33.4	6.63	2.86	ND
SS-30-D0.5	11/19/2018	0.5	ND<2.0	2.55	ND<2.0	4.38	1.70J	ND
SS-31-D0.5	11/19/2018	0.5	2.60	145	8.92	3.47	ND<2.0	ND
SS-32-D0.5	11/19/2018	0.5	ND<2.0	5.9	ND<2.0	1.26J	ND<2.0	ND
SS-33-D0.5	11/19/2018	0.5	6.46	65.1	52.2	7.97	3.77	ND
SS-34-D0.5	11/19/2018	0.5	ND<2.0	71.2	9.34	2.29	1.21J	ND
SS-35-D0.5	11/19/2018	0.5	3.00	10.3	9.83	1.19J	ND<2.0	ND

TABLE 2
ANALYTICAL RESULTS FOR ORGANOCHLORINE PESTICIDES IN SOIL
LAUSD Kennedy High School PEA Equivalent

Sample ID	Sample Collection Date	Depth (ft below grade)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Chlordane (total)	Dieldrin	Other OCPs
		RSL*	1900	2000	1900	440	34	--
		Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
SS-36-D0.5	11/19/2018	0.5	ND<2.0	11.9	6.05	3.13	ND<2.0	ND
SS-37-D0.5	11/19/2018	0.5	1.94J	202	13.7	3.41	ND<2.0	ND
SS-38-D0.5	11/19/2018	0.5	1.55J	5.26	7.93	6.53	2.67	ND
SS-39-D0.5	11/19/2018	0.5	1.10J	6.47	4.14	3.09	1.80J	ND
SS-40-D0.5	11/19/2018	0.5	11.2	126	45.7	10.9	5.39	ND
SS-41-D0.5	11/19/2018	0.5	ND<2.0	2.58	ND<2.0	ND<2.0	ND<2.0	ND
SS-41-D0.5D	11/19/2018	0.5	ND<2.0	5.93	ND<2.0	ND<2.0	ND<2.0	ND

Notes:

ND = Not detected at or above the indicated practical quantitation limit

µg/kg = micrograms per kilogram

J = Analyte was detected. However, the analyte concentration is an estimated value, which is between the method detection limit (MDL) and the practical quantiation limit (PQL).

Samples analyzed by Environmental Protection Agency Method 8081A.

RSL = regional screening level

* = As recommended by DTSC (2013, 2014) guidance, the RSLs were used as screening values.

yellow highlight = value exceeds RSL

gray highlighted cell indicates step-out sample location

OCPs = Organochlorine Pesticides

ft = feet

TABLE 3
ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS IN SOIL
LAUSD Kennedy High School PEA Equivalent

Sample ID	Sample Collection Date	Depth (ft below ground surface)	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268
		Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		RSLs	4,100	200	170	230	230	240	240	--	--
SS-8-D0.5	11/20/2018	0.5	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
SS-8-D0.5D	11/20/2018	0.5	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
SS-9-D0.5	11/20/2018	0.5	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
SS-32-D0.5	11/19/2018	0.5	ND<50	ND<50	ND<50	ND<50	55.4	ND<50	ND<50	ND<50	ND<50
SS-34-D0.5	11/19/2018	0.5	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50

NOTES:

ug/kg - micrograms per kilogram

PCBs = polychlorinated biphenyls analyzed by Environmental Protection Agency Method 8082

ND = Not detected at or above the indicated practical quantitation limit

Resident Soil Regional Screening Levels (RSLs) were used as screening values (USEPA, November 2018).

TABLE 4
ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN SOIL
LAUSD Kennedy High School PEA Equivalent

Sample ID	Sample Date	Sample Depth	TPH as Gasoline (C4-C12)	TPH as Diesel (C13-C22)	TPH as Heavy Hydrocarbons (C23-C40)
Units		**ft bgs**	**mg/kg**	**mg/kg**	**mg/kg**
USEPA Test Method		**--**	**M8015G**	**M8015D**	**M8015D**
SFB RWQCB ESL (human health)		**--**	**736**	**226**	**10,746**
SS-10-0.5	11/20/2018	0.5	ND<1.0	ND<5.0	ND<5.0
SS-10-0.5D	11/20/2018	0.5	ND<1.0	ND<5.0	ND<5.0
SS-11-0.5	11/20/2018	0.5	ND<1.0	ND<5.0	ND<5.0
SS-12-0.5	11/20/2018	0.5	ND<1.0	ND<5.0	ND<5.0

NOTES:
mg/kg - miligrams per kilogram
Total petroleum hydrocarbons analyzed by United States Environmental Protection Agency Method 8015M
TPH = total petroleum hydrocarbons
ND = Not detected at or above the indicated practical quantitation limit
Showing the San Francisco Regional Water Quality Control Board (2016) risk-based direct contact screening levels
SFB RWQCB ESL = San Francisco Bay Regional Water Quality Control Board Environmental Screening Level
ft bgs = feet below ground surface
USEPA = United States Environmental Protection Agency

TABLE 5
ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
LAUSD Kennedy High School PEA Equivalent

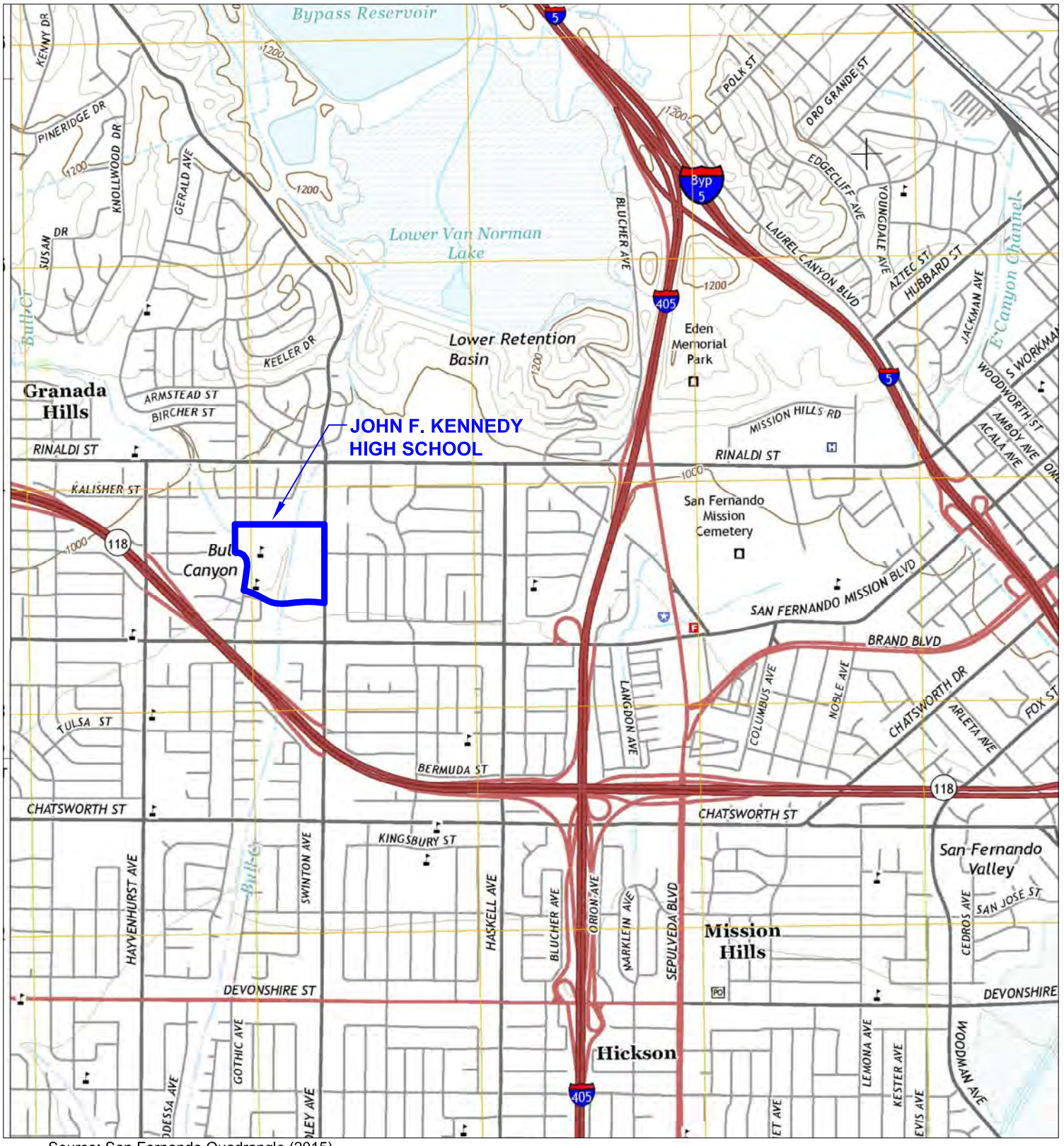
Sample ID	Sample Date	Sample Depth	Benzene	All Other VOCs
Units		**ft bgs**	**µg/kg**	**µg/kg**
USEPA Test Method		**--**	**8260B**	**8260B**
Screening Level		**--**	**330**	**--**
SS-10-0.5	11/20/2018	0.5	1.52J	ND
SS-10-0.5D	11/20/2018	0.5	1.57J	ND
SS-11-0.5	11/20/2018	0.5	ND<10	ND
SS-12-0.5	11/20/2018	0.5	ND<10	ND

NOTES:

µg/kg - micrograms per kilogram
Volatile organic compounds analyzed by United States Environmental Protection Agency Method 8260B
VOCs = Volatile organic compounds
ND = Not detected at or above the indicated practical quantitation limit
Screening Levels from USEPA RSLs (2018) unless DTSC (2017) has published a screening value of its own, termed the DTSC-SLs
J = Analyte was detected. However, the analyte concentration is an estimated value, which is between the method detection limit (MDL) and the practical quantiation limit (PQL).

ft bgs = feet below ground surface

FIGURES



Source: San Fernando Quadrangle (2015)
7.5 Minute Series USGS Map

N

1,000 0 2,000

Approximate Scale (ft)

Site Location

Figure 1

Site Location Map

LAUSD
John F. Kennedy High School
11254 Gothic Ave.,
Los Angeles, CA

PARSONS

K:\Depts\Dept48\LAUSD\MSA WORK\Kennedy HS\Workplan\Workplan\Addendum\Figures\Figure 1 - Site Location Map.dwg

FIGURE 2

KENNEDY HIGH SCHOOL
SITE MAP

Kennedy High School
11254 Gothic Avenue
Granada Hills, California

PARSONS

Coordinate System: Image - LA County, LARIAC3, 2011
WGS 1984 UTM Zone 11N

Feet
100 0 100 200

N

PATH: F:\GISCADD\projects\LAUSD_Kennedy\Mapfiles\LAUSD_Kennedy_overview_proposed_samples.mxd Date: 10/12/2018

FIGURE 3

SOIL AND STEP-OUT SOIL SAMPLE LOCATIONS (Northwestern Portion of Campus)

LAUSD - Kennedy High School
11254 Gothic Avenue
Granada Hills, California

LEGEND

- Soil Sample Location (Arsenic, Lead, OCPs)
- Soil Sample Location (Arsenic, Lead, OCPs, PCBs)
- Step-Out Soil Sample Location (Lead, OCPs)
- Proposed Housecleaning Excavation Area

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC3, 2011

25 0 25 50 Feet

N

PATH: F:\GISCADD\projects\LAUSD_Kennedy\Mapfiles\Report\LAUSD_Kennedy_NW_proposed_stepout.mxd Date: 2/11/2019

FIGURE 4

SOIL
SAMPLE LOCATIONS
(Northeastern Portion of Campus)

LAUSD - Kennedy High School
11254 Gothic Avenue
Granada Hills, California

LEGEND

- Soil Sample Location (Arsenic, Lead, OCPs)
- Soil Sample Location (Arsenic, Lead, OCPs, TPH, VOCs)

PARSONS

Coordinate System: Image - LA County, LARIAC3, 2011
WGS 1984 UTM Zone 11N

40 0 40 80 Feet

N

PATH: F:\GISCADD\projects\LAUSD_Kennedy\Mapfiles\Report\LAUSD_Kennedy_NE_proposed_samples.mxd Date: 2/11/2019

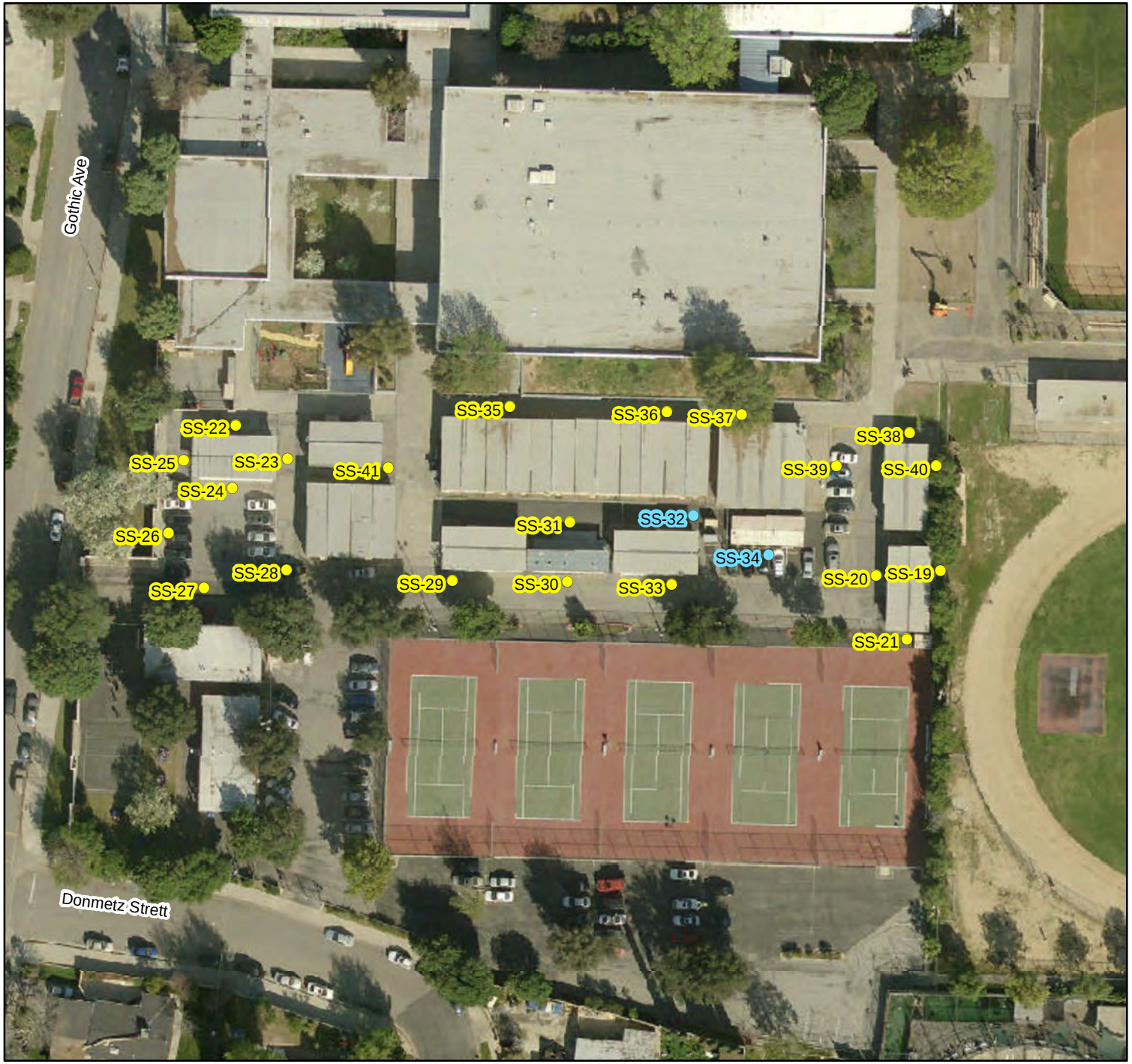


FIGURE 5

SOIL SAMPLE LOCATIONS (Southern Portion of Campus)

LAUSD - Kennedy High School
11254 Gothic Avenue
Granada Hills, California

LEGEND

- Soil Sample Location (Arsenic, Lead, OCPs)
- Soil Sample Location (Arsenic, Lead, OCPs, PCBs)

PARSONS

Coordinate System: Image - LA County, LARIAC3, 2011
WGS 1984 UTM Zone 11N

40 0 40 80 Feet

N

PATH: F:\GISCADD\projects\LAUSD_Kennedy\Mapfiles\Report\LAUSD_Kennedy_South_proposed_samples.mxd Date: 2/11/2019

APPENDIX A

Geosyntec consultants

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Technical Memorandum

Date:	20 August 2018
To:	Andrew Modugno, P.G. – Los Angeles Unified School District – Office of Environmental Health and Safety
From:	Ruth Custance, MPH and Kevin Coffman, P.G. - Geosyntec Consultants
Subject:	**Preliminary Environmental Assessment – Equivalent Work Plan Kennedy High School 11254 Gothic Avenue Granada Hills, California**

INTRODUCTION

This Preliminary Environmental Assessment – Equivalent Work Plan (PEA-E Work Plan) has been prepared by Geosyntec Consultants (Geosyntec) for Los Angeles Unified School District (LAUSD) – Office of Environmental Health and Safety (OEHS). This PEA-E Work Plan has been developed based on the findings of the Phase I Environmental Site Assessment (Phase I ESA) [Geosyntec, 2017] prepared for the Kennedy High School located at 11254 Gothic Avenue, Granada Hills, California (Site) (**Figure 1**).

LAUSD is planning on modernizing the Site in a three-phased construction/remodeling program. As part of this redevelopment the existing portable classroom buildings will be removed and permanent buildings will be remodeled to meet current building standards. This PEA-E Work Plan is aimed at characterizing potential environmental impacts present in Site soils near existing structures.

BACKGROUND

The Site is located at 11254 Gothic Avenue, Granada Hills, California, between Gothic Avenue and Woodley Avenue and south of Simonds Street. A map showing the

location of the Site is presented as **Figure 1**. The Site is comprised of a high school and an adult continuation high school.

For further information on the site location, site use, topography, and geology/hydrogeology, please refer to the Phase I ESA [Geosyntec, 2017].

OBJECTIVES AND APPROACH

The objective of the work described herein will be to evaluate potential soil impacts in shallow soil around several bungalows at the Site. Based on the age of the buildings it is possible that arsenic, lead, total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), pesticides and polychlorinated biphenyls (PCBs) may be present in shallow soil. The proposed soil sample locations are included on **Figure 2**.

SCOPE OF WORK

General

The scope of work includes the following tasks:

- Pre-field activities;
- Field investigation and laboratory analysis; and
- Data analysis and Reporting.

These tasks are described in further detail below.

Pre-Field Activities

Work Coordination and Permitting

Planning and preparation will be conducted in cooperation with Site personnel and the LAUSD-OEHS project manager. Borings will be completed around portable buildings as shown on **Figure 2**. Groundwater is not anticipated to be encountered during the shallow soil sampling activities; no drilling permits will be required from the Los Angeles County Health Department or Los Angeles County Building and Planning Department.

Health and Safety

A Health and Safety Plan (HASP) that describes potential physical and chemical hazards to field personnel will be developed prior to commencing field work. Protocols and procedures in the HASP are designed to protect field personnel, community members, students, and LAUSD staff during the implementation of field activities.

Utility Clearance

The proposed boring locations will be marked prior to commencing fieldwork. Underground Service Alert (USA, Digalert) will be notified for underground utility clearance. A subsurface geophysical survey will also be conducted at each proposed boring location to assess the presence of subsurface utilities and obstructions prior to commencing subsurface exploration and sampling.

Field Investigation

Drilling and Soil Screening

A total of approximately 43 exterior locations (SS-01 through SS-43) will be sampled (**Table 1**). Each location will be sampled at three (3) depths. Soil properties for each borehole will be logged using the Unified Soil Classification System (USCS).

The asphalt or concrete surface cover around the portable buildings will be cut and patched with cold patch asphalt or rapid set concrete, as appropriate, following sample collections. The bore holes will be back filled with granular bentonite following soil sample collections.

The soil samples will be collected from each location for laboratory testing at 0 to 6 inches, 1.5 to 2 feet, and 2.5 to 3 feet below ground surface or below the bottom of asphalt/concrete cover. The 0 to 6-inch soil samples will be composited in groups recommended in **Table 1** for Organochlorine Pesticides (OCP) testing. The soil samples will be properly preserved on ice, in coolers, and the samples will be submitted to a fixed California certified laboratory under chain of custody documentations for the following tests:

- OCPs by EPA Method 8081A (composite samples per **Table 1**),
- Arsenic by EPA Method 6020B (discrete samples), and
- Lead by EPA Method 6010B (discrete samples).

In addition, soil borings located near electrical transformers or switch gear (SS-08, SS-09, SS-32, and SS-34) or approximately 10% of the soil samples collected at 0 to 6-inches (**Table 1**) will also be analyzed for:

- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Soil borings SS-10 through SS-12 will also be advanced in areas where TPH and or VOC containing materials may have been stored. Soil samples will be field screened with a photo ionization detector (PID) for volatile organic compounds (VOCs). Field screening will be conducted by placing soil samples in a zip-lock bag where they will be allowed to volatilize for approximately 5 minutes, and then screened with a PID. If PID readings indicate elevated VOC concentrations above background (i.e., above 5 ppm), soil samples from that location will be collected and submitted for the following additional laboratory testing:

- Total Petroleum Hydrocarbons (TPH) by EPA Method 8015M, and
- Volatile organic compounds (VOCs) by EPA Method 8260/5035.

The soil samples collected at 1.5 to 2 feet and 2.5 to 3 feet will be archived at the laboratory for further analyses pending the result of the 0 to 6-inch soil samples. If concentrations of target analytes exceed the screening levels in the 0-6-inch sample, then the 1.5-2-foot sample from the same boring will be analyzed.

Quality Assurance and Quality Control (QA/QC)

The following QA/QC procedures will be followed during sampling and analysis:

- Duplicate soil samples will be collected and analyzed by the fixed laboratory at an approximate rate of 10% of the primary samples. At a minimum, one duplicate sample will be collected during each day samples are collected.

- Samples will be transferred under chain-of-custody control and will be subject to the laboratory's conventional QA/QC analytical procedures, including method blank, laboratory control sample and sample duplicate analyses.

Analytical data will be validated according to a Level II data review and the results of the validation will be included in the PEA-E report.

Decontamination Procedures

Reusable soil sampling equipment (direct-push rods and tips, hand augers, etc.) will be washed prior to each sample collection by the "three-bucket-wash" method. Sampling equipment will be first washed in a solution of Alconox and potable water, then rinsed with potable water, and finally rinsed with distilled water and allowed to air-dry.

Investigation Derived Waste Management

Soil cuttings from the soil borings and decontamination liquids will be placed into labeled 55-gallon DOT approved drums for temporary on-Site storage. Based on investigation results, the waste will be properly profiled and classified for disposal and removed from the Site within 90 days of generation.

Data Analysis and Reporting

A report will be prepared to summarize the results of the analyses and interpret the findings. The report will include Site background and environmental setting information, field procedures, boring logs, presentation of field observations and analytical results including laboratory reports, and conclusions and recommendations.

Additionally, soil data will be used in a screening level human health risk assessment to characterize potential risks from soil exposure to students and faculty. As a conservative assessment, soil concentrations will be compared to the residential soil screening levels listed in Department of Toxic Substances Control (DTSC) Human Health Risk Assessment (HHRA), Note 3 (DTSC, 2018). If the value is not listed in DTSC HHRA Note 3, then the USEPA Regional Screening Level (RSL) for residential soil (USEPA, 2018) will be used for comparison. For arsenic, the soil concentrations will be compared to the DTSC arsenic background concentration of 12 mg/kg for southern California sites (DTSC, 2009).

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LIMITATIONS AND SIGNATURE

This document was prepared by the staff of Geosyntec Consultants under the supervision of a geologist whose signature appears hereon. The document was prepared in accordance with generally accepted professional engineering and geologic practice. The guidance contained in this document is based solely on the analysis of the conditions, as observed by Geosyntec personnel and as reported by other named sources, at the time the work was performed.

No warranty, expressed or implied, is made regarding the professional opinions expressed in this document or concerning the completeness of the data presented to Geosyntec. If actual conditions are found to differ from those described in this document or if new information regarding the Site is obtained, Geosyntec should be notified and additional recommendations, if required, will be provided. Geosyntec is not liable for any use of the information contained in the document by persons other than LAUSD.

Ruth Custance, MPH
Senior Principal

Kevin Coffman, P.G.
Senior Geologist

Geosyntec consultants

REFERENCES

Department of Toxic Substances Control (DTSC), 2018. HERO Human Health Risk Assessment (HHRA) No. Number 3, DTSC-modified Screening Levels (DTSC-SLs). Office of Human and Ecological Risk (HERO). Revised June 2018.

DTSC, 2009. Arsenic Strategies, Determination of Arsenic Remediation, Development of Arsenic Cleanup Goals. January 2018.

Geosyntec, 2017. Phase I Environmental Site Assessment, Kennedy High School, 11254 Gothic Avenue, Granada Hills, California, July 2017.

United States Environmental Protection Agency (USEPA), 2018. Regional Screening Levels. Revised May 2018.

ENCLOSURES

Table 1: Proposed Soil Sampling Program

Figure 1: Site Location

Figure 2: Proposed Soil Sample Locations

* * * * *

Geosyntec consultants

TABLE

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Kennedy High School
11254 Gothic Avenue, Granda Hills, California

Boring Name	Composite Sample Group for OCPs	Depth (fbg)	Sample Matrix	Analytes						Laboratory Analytical Method(s)	Comments
				Arsenic	Lead	OCPs	PCBs	TPH*	VOCs*		
			SSL	**12**	**80**	CS	CS	NA	CS		
			units	mg/kg	mg/kg						
SS-01	1	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-02		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-03		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-04	2	0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-05		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-06		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-07	3	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-08		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-09		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-10	4	0-0.5	soil	x	x	x		x		EPA Methods 6020, 8081, 8015M, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-11		0-0.5	soil	x	x	x		x		EPA Methods 6020, 8081, 8015M, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-12		0-0.5	soil	x	x	x		x		EPA Methods 6020, 8081, 8015M, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Kennedy High School
11254 Gothic Avenue, Granda Hills, California

Boring Name	Composite Sample Group for OCPs	Depth (fbg)	Sample Matrix	Analytes						Laboratory Analytical Method(s)	Comments
				Arsenic	Lead	OCPs	PCBs	TPH*	VOCs*		
			SSL	**12**	**80**	CS	CS	NA	CS		
			units	mg/kg	mg/kg						
SS-13		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-14	5	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-15		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-16		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-17	6	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-18		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-19		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-20	7	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-21		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-22		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-23		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
	8	2.5-3	soil							Archive	
SS-24		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	

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Boring Name	Composite Sample Group for OCPs	Depth (fbg)	Sample Matrix	Analytes						Laboratory Analytical Method(s)	Comments
				Arsenic	Lead	OCPs	PCBs	TPH*	VOCs*		
			SSL	**12**	**80**	CS	CS	NA	CS		
			units	mg/kg	mg/kg						
SS-25		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-26		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-27	9	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-28		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-29		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-30	10	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-31		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-32		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-33	11	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-34		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-35		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-36	12	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Kennedy High School
11254 Gothic Avenue, Granda Hills, California

Boring Name	Composite Sample Group for OCPs	Depth (fbg)	Sample Matrix	Analytes						Laboratory Analytical Method(s)	Comments
				Arsenic	Lead	OCPs	PCBs	TPH*	VOCs*		
			SSL	**12**	**80**	CS	CS	NA	CS		
			units	mg/kg	mg/kg						
SS-37		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-38	13	0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-39		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-40		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-41	14	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-42		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-43		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
Total Composite Samples				**0**	**0**	**14**	**0**	**TBD***	**TBD***		
Total Discreet Samples				**43**	**43**	**0**	**8**	**3/TBD***	**TBD***		
Total Duplicate Samples				**4**	**4**	**2**	**2**	**TBD***	**TBD***		
Total Samples				**47**	**47**	**16**	**10**	**3/TBD***	**TBD***		

Notes:

LAUSD = Los Angeles Unified School District

fbg = Feet below grade

OCPs = Organochlorine pesticides

PCBs = Polychlorinated biphenyls

VOCs = Volatile organic compounds

mg/kg = Milligrams per kilogram

NA = Not applicable

SSL = Soil Screening Level

TPH = Total petroleum hydrocarbons

CS = Chemical specific

EPA = Environmental Protection Agency

* = TPH (except for borings SS-10-12) and VOC samples will be collected if PID readings indicate potential presence of TPH/VOCs

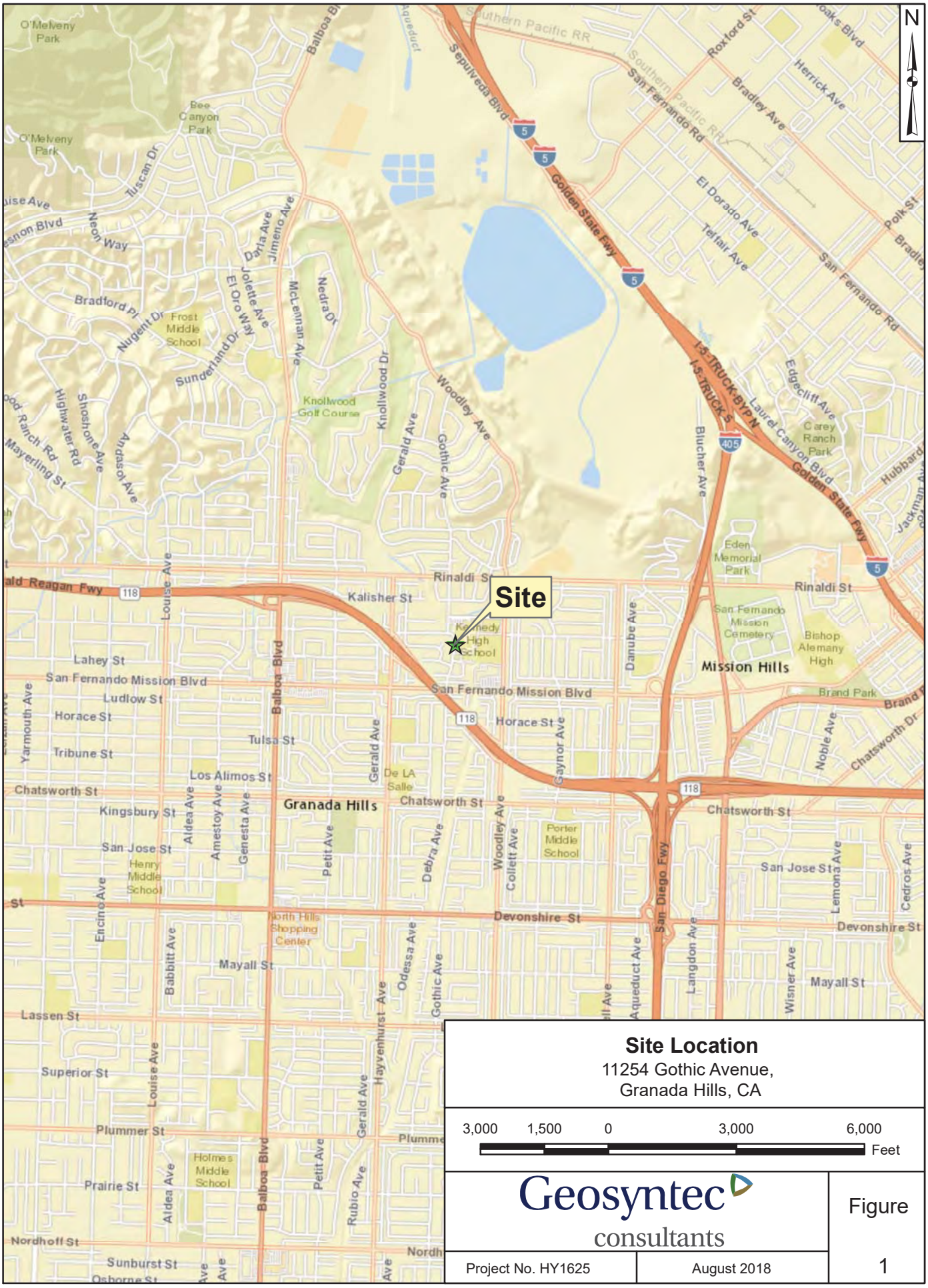
TBD = To be determined based on PID readings

= Discrete Samples

= Composite Group

Geosyntec consultants

FIGURES



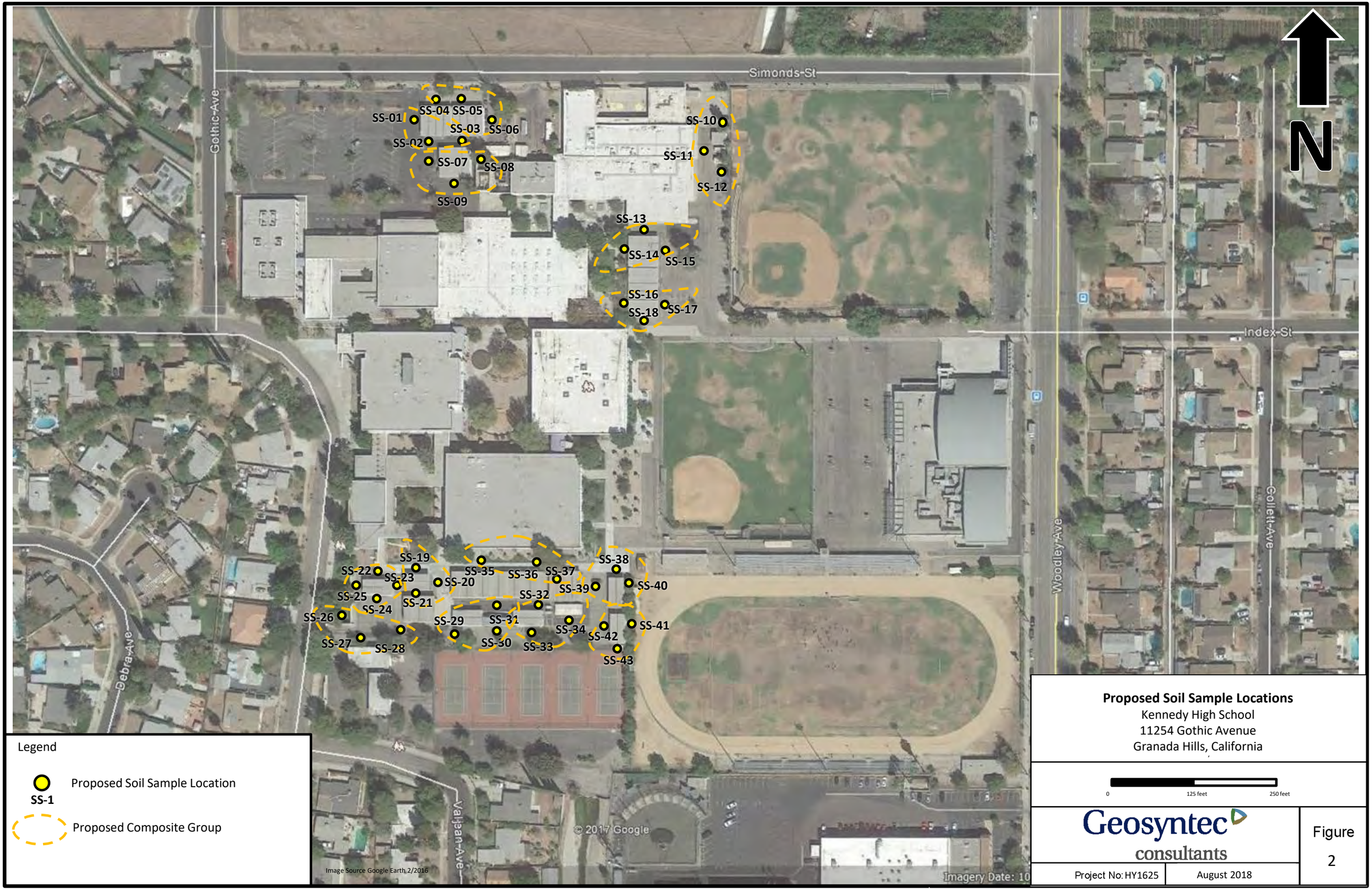
Site Location
11254 Gothic Avenue,
Granada Hills, CA

3,000 1,500 0 3,000 6,000
Feet

Geosyntec consultants

Project No. HY1625	August 2018	Figure 1

S:\GIS\HY1625\Project\SiteMap.mxd cc 7/18/2017



Legend

SS-1 Proposed Soil Sample Location

Proposed Composite Group

Proposed Soil Sample Locations
Kennedy High School
11254 Gothic Avenue
Granada Hills, California

0 125 feet 250 feet

Geosyntec consultants

Project No: HY1625 | August 2018

Figure 2

APPENDIX B

PARSONS

100 West Walnut Street • Pasadena, CA 91124 • (626) 440-2000 • Fax: (626) 440-2630 • www.parsons.com

November 5, 2018

Mr. Andrew Modugno
Los Angeles Unified School District
Office of Environmental Health and Safety
333 North Beaudry Street, 21st Floor
Los Angeles, CA 90017

Site: **John F. Kennedy High School**
11254 Gothic Avenue
Granada Hills, California, 91344

Reference: **Addendum to Technical Memorandum for Preliminary Environmental Assessment – Equivalent Workplan**

Mr. Modugno,

This technical memorandum addendum (addendum) is submitted to the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS) to document modifications to the Technical Memorandum for Preliminary Environmental Assessment – Equivalent Workplan (Workplan) prepared by Geosyntec (Geosyntec, 2018) for John F. Kennedy High School (Kennedy High School) located at 11254 Gothic Avenue, Granada Hills, California (**Figure 1**). The addendum reflects changes in the scope of work presented in Geosyntec's Workplan that were discussed during a meeting with LAUSD and Parsons personnel on October 25, 2018.

Sampling exhibits with greater detail than the original Workplan Figure 2 (Geosyntec, 2018) were prepared for use when implementing the scope of work (**Figure 2** through **Figure 5**). The Geosyntec Workplan will be implemented in the field with the exception of the following:

1. **Section: Field Investigation, Drilling and Soil Screening, Page 3** – A total of 40 exterior locations (SS-01 through SS-40) will be sampled (**Table 1**). Proposed soil sample locations SS-19, SS-20 and SS-21 were eliminated from the scope of work per LAUSD and the remaining locations were renumbered (**Figure 5**).
2. **Section: Field Investigation, Drilling and Soil Screening, Page 3** – Composite samples for Organochlorine Pesticide (OCP) will not be collected. Discreet samples will be collected at each location and analyzed by for OCPs by EPA Method 8081A (**Table 1**).
3. **Section: Field Investigation, Drilling and Soil Screening, Page 4 –** Soil borings SS-10 through SS-12 will be screened using a photoionization detector (PID) and sampled for total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs) as indicated in **Table 1**.
4. **Section: Field Investigation, Drilling and Soil Screening, Page 4** – Soil borings SS-1 through SS-9 and SS-13 through SS-40 will be screened using the PID if visual staining or odors are observed. If PID readings indicate VOC concentrations above 5 parts per million

(ppm), LAUSD will be consulted to determine if TPH and VOC samples should be collected at that boring location.

5. **Section: Investigation Derived Waste Management, Page 5 –** Waste characterization includes analyses of decontamination water and soil for TPH (separated into gasoline, diesel, and oil ranges) by EPA Method 8015M, CA Title 22 Metals by EPA Method 6010B/7470A, and OCPs by EPA Method 8081A.

If you have questions or comments regarding this document, please contact Peter Shair (Parsons) at 626-440-6153.

Sincerely,

Peter Shair, PG 8362

PROFESSIONAL GEOLOGIST
PETER B. SHAIR
NO. 8362
Exp. 5/31/19
STATE OF CALIFORNIA

Attachments:

Table 1 – Proposed Soil Sampling Program
Figure 1 – Site Location Map
Figures 2 through 5 – Proposed Sample Locations
Attachment 1 – Geosyntec Technical Memorandum

TABLE 1

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Kennedy High School

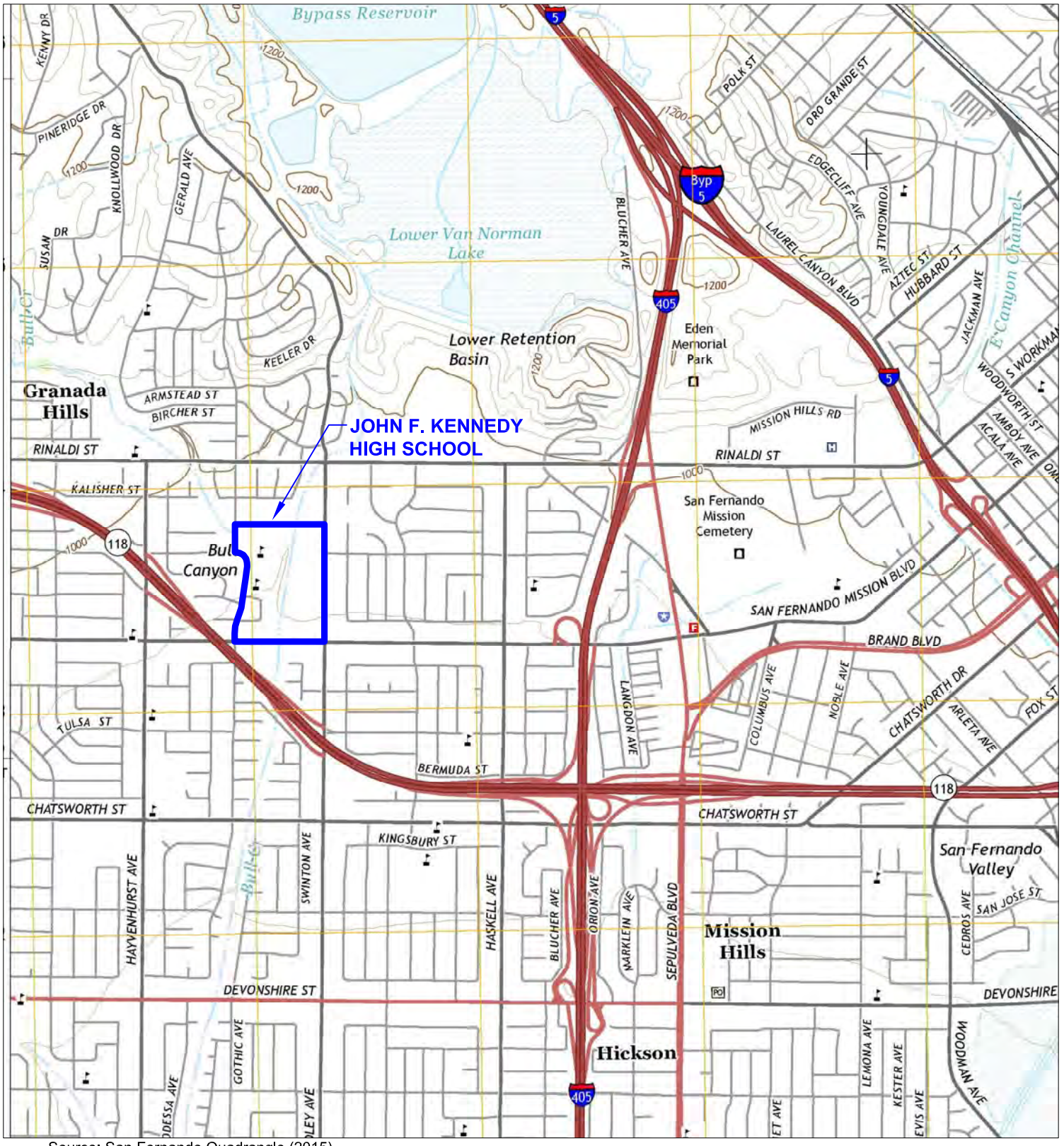
Borning Name	Sample Depth feet bgs	Analytes						Laboratory Analytical Method(s)	Comments
		Arsenic	Lead	OCPs	PCBs	TPH	VOCs		
SS-01	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-02	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-03	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-04	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-05	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-06	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-07	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-08	0-0.5	X	X	X	X			EPA Methods 6010, 6020, 8081, 8082	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-09	0-0.5	X	X	X	X			EPA Methods 6010, 6020, 8081, 8082	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-10	0-0.5	X	X	X		X	X	EPA Methods 6010, 6020, 8081, 8015cc 8260B	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-11	0-0.5	X	X	X		X	X	EPA Methods 6010, 6020, 8081, 8015cc 8260B	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-12	0-0.5	X	X	X		X	X	EPA Methods 6010, 6020, 8081, 8015cc 8260B	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-13	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-14	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-15	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-16	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-17	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-18	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-19	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-20	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-21	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-22	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-23	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-24	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-25	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-26	0-0.5	X	X	X				EPA Methods 6010B, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-27	0-0.5	X	X	X				EPA Methods 6010B, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-28	0-0.5	X	X	X				EPA Methods 6010B, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Kennedy High School

Borning Name	Sample Depth feet bgs	Analytes						Laboratory Analytical Method(s)	Comments
		Arsenic	Lead	OCPs	PCBs	TPH	VOCs		
SS-29	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-30	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-31	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-32	0-0.5	X	X	X	X			EPA Methods 6010, 6020, 8081, 8082	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-33	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-34	0-0.5	X	X	X	X			EPA Methods 6010, 6020, 8081, 8082	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-35	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-36	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-37	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-38	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-39	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	
SS-40	0-0.5	X	X	X				EPA Methods 6010, 6020, 8081	Borings to be continuously cored, logged, sampled at 0.5-ft intervals, and advanced to a total depth of 3-feet
	1.5-2							Archive	
	2.5-3							Archive	

OCPs = Organochlorine Pesticides (8081A)
Lead (6010)
Arsenic (6020)
PCBs = Polychlorinated biphenyls (8082)
VOCs = Volatile Organic Compounds (8260B)
TPH = Total petroleum hydrocarbons (full-carbon chain by 8015M)
If odors and/or staining are observed the sample will be screened using a Photo-ionization detector

FIGURES



Source: San Fernando Quadrangle (2015)
7.5 Minute Series USGS Map

N

1,000 0 2,000

Approximate Scale (ft)

Site Location

October 2018

Figure 1

Site Location Map

LAUSD
John F. Kennedy High School
11254 Gothic Ave.,
Los Angeles, CA

PARSONS

K:\Depts\Dept48\LAUSD\MSA WORK\Kennedy HS\Figures\Figure 1 - Site Location Map.dwg

FIGURE 2

KENNEDY HIGH SCHOOL
SITE MAP

Kennedy High School
11254 Gothic Avenue
Granada Hills, California

PARSONS

Coordinate System: Image - LA County, LARIAC3, 2011
WGS 1984 UTM Zone 11N

Feet
100 0 100 200

N

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FIGURE 3

PROPOSED SAMPLE LOCATIONS

Kennedy High School
11254 Gothic Avenue
Granada Hills, California

LEGEND

- Proposed Soil Sample Location (Arsenic, Lead, OCPs)
- Proposed Soil Sample Location (Arsenic, Lead, OCPs, PCBs)

PARSONS

Coordinate System: Image - LA County, LARIAC3, 2011
WGS 1984 UTM Zone 11N

25 0 25 50 Feet

N

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FIGURE 4

PROPOSED SAMPLE LOCATIONS

Kennedy High School
11254 Gothic Avenue
Granada Hills, California

LEGEND

- Proposed Soil Sample Location (Arsenic, Lead, OCPs)
- Proposed Soil Sample Location (Arsenic, Lead, OCPs, TPH, VOCs)

PARSONS

Coordinate System: Image - LA County, LARIAC3, 2011
WGS 1984 UTM Zone 11N

40 0 40 80 Feet

N

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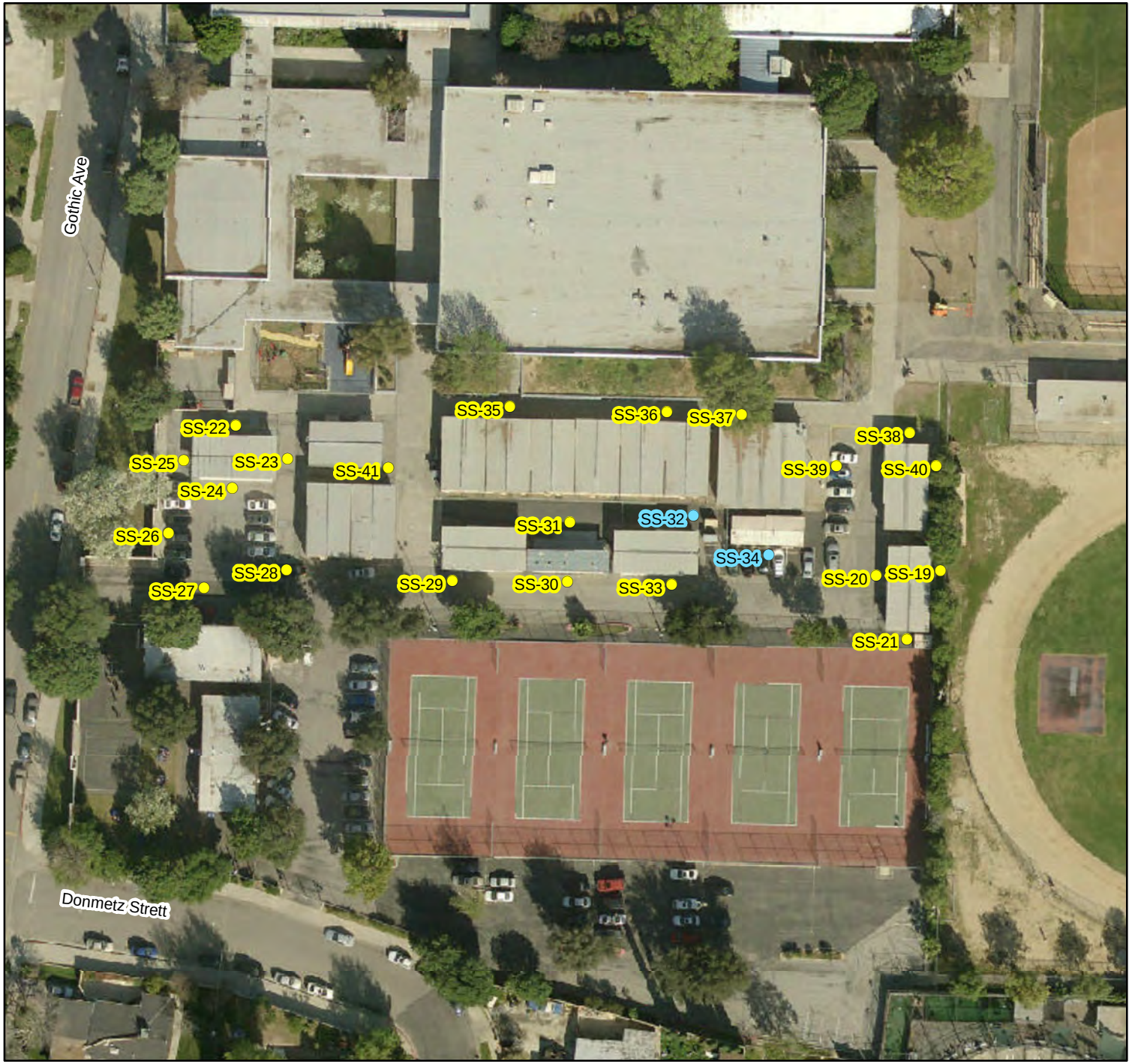

FIGURE 5

PROPOSED SAMPLE LOCATIONS

Kennedy High School
11254 Gothic Avenue
Granada Hills, California

LEGEND

- Proposed Soil Sample Location (Arsenic, Lead, OCPs)
- Proposed Soil Sample Location (Arsenic, Lead, OCPs, PCBs)

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC3, 2011

40 0 40 80 Feet

N

PATH: F:\GISCADD\projects\LAUSD_Kennedy\Mapfiles\LAUSD_Kennedy_South_proposed_samples.mxd Date: 11/13/2018

APPENDIX A
Geosyntec Technical Memorandum

Geosyntec consultants

2100 Main Street, Suite 150
Huntington Beach, California 92648
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Technical Memorandum

Date:	20 August 2018
To:	Andrew Modugno, P.G. – Los Angeles Unified School District – Office of Environmental Health and Safety
From:	Ruth Custance, MPH and Kevin Coffman, P.G. - Geosyntec Consultants
Subject:	**Preliminary Environmental Assessment – Equivalent Work Plan Kennedy High School 11254 Gothic Avenue Granada Hills, California**

INTRODUCTION

This Preliminary Environmental Assessment – Equivalent Work Plan (PEA-E Work Plan) has been prepared by Geosyntec Consultants (Geosyntec) for Los Angeles Unified School District (LAUSD) – Office of Environmental Health and Safety (OEHS). This PEA-E Work Plan has been developed based on the findings of the Phase I Environmental Site Assessment (Phase I ESA) [Geosyntec, 2017] prepared for the Kennedy High School located at 11254 Gothic Avenue, Granada Hills, California (Site) (**Figure 1**).

LAUSD is planning on modernizing the Site in a three-phased construction/remodeling program. As part of this redevelopment the existing portable classroom buildings will be removed and permanent buildings will be remodeled to meet current building standards. This PEA-E Work Plan is aimed at characterizing potential environmental impacts present in Site soils near existing structures.

BACKGROUND

The Site is located at 11254 Gothic Avenue, Granada Hills, California, between Gothic Avenue and Woodley Avenue and south of Simonds Street. A map showing the

location of the Site is presented as **Figure 1**. The Site is comprised of a high school and an adult continuation high school.

For further information on the site location, site use, topography, and geology/hydrogeology, please refer to the Phase I ESA [Geosyntec, 2017].

OBJECTIVES AND APPROACH

The objective of the work described herein will be to evaluate potential soil impacts in shallow soil around several bungalows at the Site. Based on the age of the buildings it is possible that arsenic, lead, total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), pesticides and polychlorinated biphenyls (PCBs) may be present in shallow soil. The proposed soil sample locations are included on **Figure 2**.

SCOPE OF WORK

General

The scope of work includes the following tasks:

- Pre-field activities;
- Field investigation and laboratory analysis; and
- Data analysis and Reporting.

These tasks are described in further detail below.

Pre-Field Activities

Work Coordination and Permitting

Planning and preparation will be conducted in cooperation with Site personnel and the LAUSD-OEHS project manager. Borings will be completed around portable buildings as shown on **Figure 2**. Groundwater is not anticipated to be encountered during the shallow soil sampling activities; no drilling permits will be required from the Los Angeles County Health Department or Los Angeles County Building and Planning Department.

Health and Safety

A Health and Safety Plan (HASP) that describes potential physical and chemical hazards to field personnel will be developed prior to commencing field work. Protocols and procedures in the HASP are designed to protect field personnel, community members, students, and LAUSD staff during the implementation of field activities.

Utility Clearance

The proposed boring locations will be marked prior to commencing fieldwork. Underground Service Alert (USA, Digalert) will be notified for underground utility clearance. A subsurface geophysical survey will also be conducted at each proposed boring location to assess the presence of subsurface utilities and obstructions prior to commencing subsurface exploration and sampling.

Field Investigation

Drilling and Soil Screening

A total of approximately 43 exterior locations (SS-01 through SS-43) will be sampled (**Table 1**). Each location will be sampled at three (3) depths. Soil properties for each borehole will be logged using the Unified Soil Classification System (USCS).

The asphalt or concrete surface cover around the portable buildings will be cut and patched with cold patch asphalt or rapid set concrete, as appropriate, following sample collections. The bore holes will be back filled with granular bentonite following soil sample collections.

The soil samples will be collected from each location for laboratory testing at 0 to 6 inches, 1.5 to 2 feet, and 2.5 to 3 feet below ground surface or below the bottom of asphalt/concrete cover. The 0 to 6-inch soil samples will be composited in groups recommended in **Table 1** for Organochlorine Pesticides (OCP) testing. The soil samples will be properly preserved on ice, in coolers, and the samples will be submitted to a fixed California certified laboratory under chain of custody documentations for the following tests:

- OCPs by EPA Method 8081A (composite samples per **Table 1**),
- Arsenic by EPA Method 6020B (discrete samples), and
- Lead by EPA Method 6010B (discrete samples).

In addition, soil borings located near electrical transformers or switch gear (SS-08, SS-09, SS-32, and SS-34) or approximately 10% of the soil samples collected at 0 to 6-inches (**Table 1**) will also be analyzed for:

- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Soil borings SS-10 through SS-12 will also be advanced in areas where TPH and or VOC containing materials may have been stored. Soil samples will be field screened with a photo ionization detector (PID) for volatile organic compounds (VOCs). Field screening will be conducted by placing soil samples in a zip-lock bag where they will be allowed to volatilize for approximately 5 minutes, and then screened with a PID. If PID readings indicate elevated VOC concentrations above background (i.e., above 5 ppm), soil samples from that location will be collected and submitted for the following additional laboratory testing:

- Total Petroleum Hydrocarbons (TPH) by EPA Method 8015M, and
- Volatile organic compounds (VOCs) by EPA Method 8260/5035.

The soil samples collected at 1.5 to 2 feet and 2.5 to 3 feet will be archived at the laboratory for further analyses pending the result of the 0 to 6-inch soil samples. If concentrations of target analytes exceed the screening levels in the 0-6-inch sample, then the 1.5-2-foot sample from the same boring will be analyzed.

Quality Assurance and Quality Control (QA/QC)

The following QA/QC procedures will be followed during sampling and analysis:

- Duplicate soil samples will be collected and analyzed by the fixed laboratory at an approximate rate of 10% of the primary samples. At a minimum, one duplicate sample will be collected during each day samples are collected.

- Samples will be transferred under chain-of-custody control and will be subject to the laboratory's conventional QA/QC analytical procedures, including method blank, laboratory control sample and sample duplicate analyses.

Analytical data will be validated according to a Level II data review and the results of the validation will be included in the PEA-E report.

Decontamination Procedures

Reusable soil sampling equipment (direct-push rods and tips, hand augers, etc.) will be washed prior to each sample collection by the "three-bucket-wash" method. Sampling equipment will be first washed in a solution of Alconox and potable water, then rinsed with potable water, and finally rinsed with distilled water and allowed to air-dry.

Investigation Derived Waste Management

Soil cuttings from the soil borings and decontamination liquids will be placed into labeled 55-gallon DOT approved drums for temporary on-Site storage. Based on investigation results, the waste will be properly profiled and classified for disposal and removed from the Site within 90 days of generation.

Data Analysis and Reporting

A report will be prepared to summarize the results of the analyses and interpret the findings. The report will include Site background and environmental setting information, field procedures, boring logs, presentation of field observations and analytical results including laboratory reports, and conclusions and recommendations.

Additionally, soil data will be used in a screening level human health risk assessment to characterize potential risks from soil exposure to students and faculty. As a conservative assessment, soil concentrations will be compared to the residential soil screening levels listed in Department of Toxic Substances Control (DTSC) Human Health Risk Assessment (HHRA), Note 3 (DTSC, 2018). If the value is not listed in DTSC HHRA Note 3, then the USEPA Regional Screening Level (RSL) for residential soil (USEPA, 2018) will be used for comparison. For arsenic, the soil concentrations will be compared to the DTSC arsenic background concentration of 12 mg/kg for southern California sites (DTSC, 2009).

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LIMITATIONS AND SIGNATURE

This document was prepared by the staff of Geosyntec Consultants under the supervision of a geologist whose signature appears hereon. The document was prepared in accordance with generally accepted professional engineering and geologic practice. The guidance contained in this document is based solely on the analysis of the conditions, as observed by Geosyntec personnel and as reported by other named sources, at the time the work was performed.

No warranty, expressed or implied, is made regarding the professional opinions expressed in this document or concerning the completeness of the data presented to Geosyntec. If actual conditions are found to differ from those described in this document or if new information regarding the Site is obtained, Geosyntec should be notified and additional recommendations, if required, will be provided. Geosyntec is not liable for any use of the information contained in the document by persons other than LAUSD.

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Senior Principal

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Senior Geologist

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Department of Toxic Substances Control (DTSC), 2018. HERO Human Health Risk Assessment (HHRA) No. Number 3, DTSC-modified Screening Levels (DTSC-SLs). Office of Human and Ecological Risk (HERO). Revised June 2018.

DTSC, 2009. Arsenic Strategies, Determination of Arsenic Remediation, Development of Arsenic Cleanup Goals. January 2018.

Geosyntec, 2017. Phase I Environmental Site Assessment, Kennedy High School, 11254 Gothic Avenue, Granada Hills, California, July 2017.

United States Environmental Protection Agency (USEPA), 2018. Regional Screening Levels. Revised May 2018.

ENCLOSURES

Table 1: Proposed Soil Sampling Program

Figure 1: Site Location

Figure 2: Proposed Soil Sample Locations

* * * * *

Geosyntec consultants

TABLE

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Kennedy High School
11254 Gothic Avenue, Granda Hills, California

Boring Name	Composite Sample Group for OCPs	Depth (fbg)	Sample Matrix	Analytes						Laboratory Analytical Method(s)	Comments
				Arsenic	Lead	OCPs	PCBs	TPH*	VOCs*		
			SSL	**12**	**80**	CS	CS	NA	CS		
			units	mg/kg	mg/kg						
SS-01	1	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-02		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-03		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-04	2	0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-05		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-06		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-07	3	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-08		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-09		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-10	4	0-0.5	soil	x	x	x		x		EPA Methods 6020, 8081, 8015M, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-11		0-0.5	soil	x	x	x		x		EPA Methods 6020, 8081, 8015M, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-12		0-0.5	soil	x	x	x		x		EPA Methods 6020, 8081, 8015M, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Kennedy High School
11254 Gothic Avenue, Granda Hills, California

Boring Name	Composite Sample Group for OCPs	Depth (fbg)	Sample Matrix	Analytes						Laboratory Analytical Method(s)	Comments
				Arsenic	Lead	OCPs	PCBs	TPH*	VOCs*		
			SSL	**12**	**80**	CS	CS	NA	CS		
			units	mg/kg	mg/kg						
SS-13		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-14	5	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-15		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-16		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-17	6	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-18		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-19		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-20	7	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-21		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-22		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-23		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
	8	2.5-3	soil							Archive	
SS-24		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Kennedy High School
11254 Gothic Avenue, Granda Hills, California

Boring Name	Composite Sample Group for OCPs	Depth (fbg)	Sample Matrix	Analytes						Laboratory Analytical Method(s)	Comments
				Arsenic	Lead	OCPs	PCBs	TPH*	VOCs*		
			SSL	**12**	**80**	CS	CS	NA	CS		
			units	mg/kg	mg/kg						
SS-25		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-26		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-27	9	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-28		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-29		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-30	10	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-31		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-32		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-33	11	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-34		0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-35		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-36	12	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Kennedy High School
11254 Gothic Avenue, Granda Hills, California

Boring Name	Composite Sample Group for OCPs	Depth (fbg)	Sample Matrix	Analytes						Laboratory Analytical Method(s)	Comments
				Arsenic	Lead	OCPs	PCBs	TPH*	VOCs*		
			SSL	**12**	**80**	CS	CS	NA	CS		
			units	mg/kg	mg/kg						
SS-37		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-38	13	0-0.5	soil	x	x	x	x			EPA Methods 6020, 8081, 8082, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-39		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-40		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-41	14	0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-42		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
SS-43		0-0.5	soil	x	x	x				EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5- foot intervals, and advanced to a total depth of 3 feet.
		1.5-2	soil							Archive	
		2.5-3	soil							Archive	
Total Composite Samples				**0**	**0**	**14**	**0**	**TBD***	**TBD***		
Total Discreet Samples				**43**	**43**	**0**	**8**	**3/TBD***	**TBD***		
Total Duplicate Samples				**4**	**4**	**2**	**2**	**TBD***	**TBD***		
Total Samples				**47**	**47**	**16**	**10**	**3/TBD***	**TBD***		

Notes:

LAUSD = Los Angeles Unified School District

fbg = Feet below grade

OCPs = Organochlorine pesticides

PCBs = Polychlorinated biphenyls

VOCs = Volatile organic compounds

mg/kg = Milligrams per kilogram

NA = Not applicable

SSL = Soil Screening Level

TPH = Total petroleum hydrocarbons

CS = Chemical specific

EPA = Environmental Protection Agency

* = TPH (except for borings SS-10-12) and VOC samples will be collected if PID readings indicate potential presence of TPH/VOCs

TBD = To be determined based on PID readings

= Discrete Samples

= Composite Group

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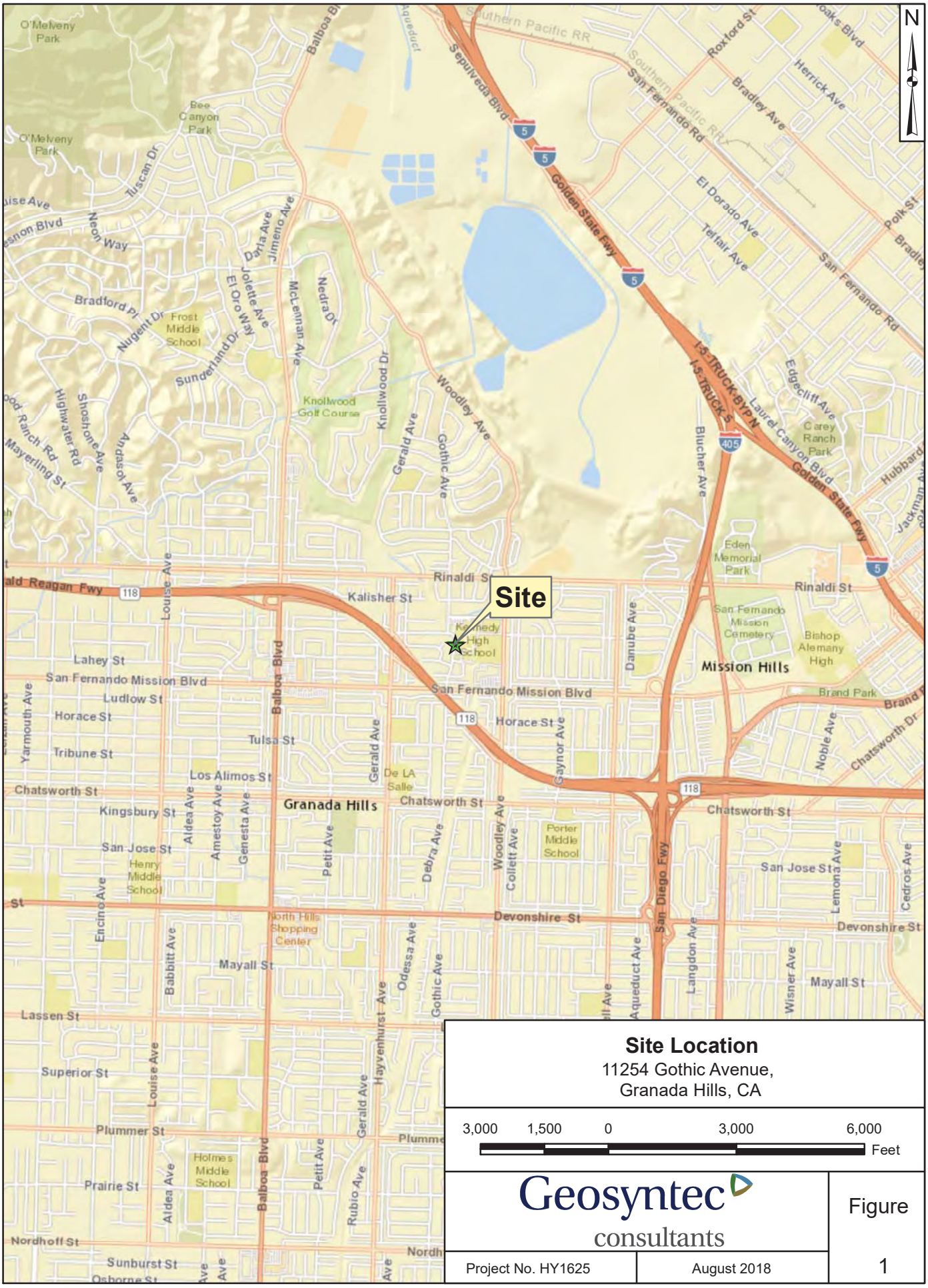
FIGURES



Site Location
11254 Gothic Avenue,
Granada Hills, CA

3,000 1,500 0 3,000 6,000
Feet

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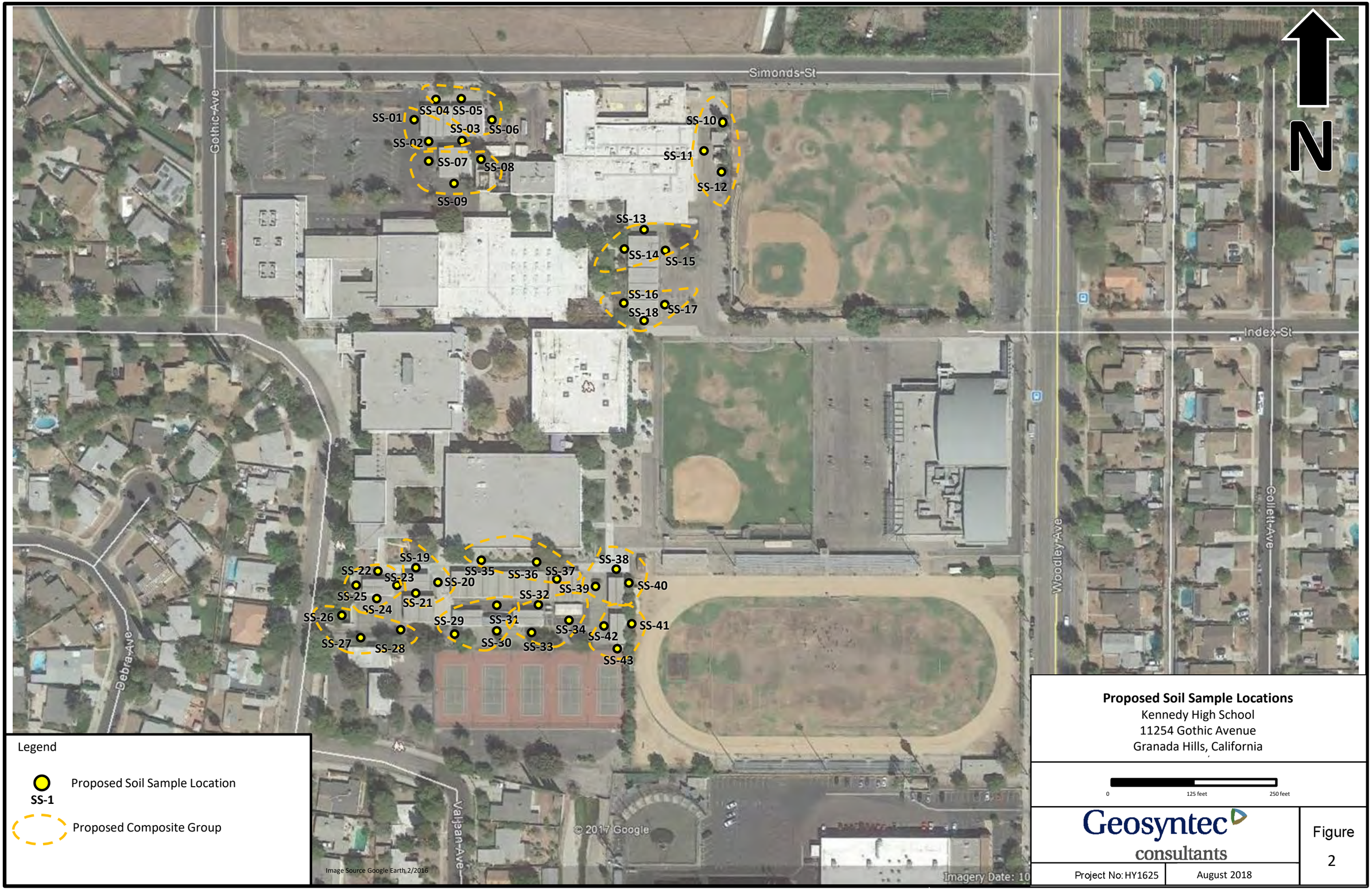
Project No. HY1625	August 2018	Figure 1

S:\GIS\HY1625\Project\SiteMap.mxd cc 7/18/2017



Legend

SS-1 Proposed Soil Sample Location

Proposed Composite Group

Proposed Soil Sample Locations
Kennedy High School
11254 Gothic Avenue
Granada Hills, California

0 125 feet 250 feet

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Project No: HY1625 | August 2018

Figure 2

APPENDIX C

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 1**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt core

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes
							0	ML	Sandy SILT, brown, 15-20% fine grained sand, dry.
	1030						0.5		
							1		
							1.5		Same as above
	1032						2		
							2.5		Same as above
	1035						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 2**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt core

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes
							0	SM	Silty SAND, brown, fine grained sand, 15% silt, dry.
	0953						0.5		
							1		
	0957						1.5	SM	Same as above, trace gravel
							2		
	1005						2.5	ML	SILT, brown, dry.
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 3**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt core

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	ML	Sandy SILT, brown, 20% fine grained sand, slightly moist.
	0930						0.5		
							1		
							1.5	ML	Same as above, trace clay
	0935						2		
							2.5	ML	same as above
	0937						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 4**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt core

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Iso 100 PPM

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, slightly moist.
	1055						0.5		
							1		
							1.5	ML	Sandy SILT, brown, 25% fine grained sand, slightly moist.
	1105						2		
							2.5	ML	same as above
	1108						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger

Sampling Method: Hand Auger

Weather Conditions:

Surface Material: 3" asphalt core

Boring/Well Number: **SS - 5**

Sheet 1 of 1

Drilling Start Date: 11-20-18 Time:

Drilling Finish Date: 11-20-18 Time:

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [ ] Yes [X] No

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes
							0	SM	Silty SAND, brown, fine to medium grained sand,
									15% silt, slightly moist.
	1132								
							0.5		
							1		
							1.5	ML	SILT, brown, dry.
	1138								
							2		
							2.5	ML	same as above
	1142								
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 6**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt core

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [ ] Yes [X] No

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, 15% silt,
									slightly moist.
	0842								
							0.5		
							1		
							1.5		same as above.
	0847								
							2	TD	Hit pipe at 2.25 ft bgs. (4" transite irrigation pipe)
							2.5		
							3		
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 7**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt core

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, 15 to 20% silt,
									trace brick fragments, slightly moist.
	1015								
							0.5		
							1		
							1.5		same as above.
	1017								
							2		
							2.5	ML	SILT, dark brown, trace clay, slightly moist.
	1022								
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS

Parsons Sensitive, Proprietary

Field Boring Log

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395

Client/Site: LAUSD / Kennedy High School
Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger

Boring/Well Number
SS - 8 - E5

Sampling Method: Hand Auger

Sheet
1 of 1

Weather Conditions:

Drilling

Surface Material: dirt

Start Date 12/18-18 Time

Finish Date 12/8-18 Time

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

☒ No ☐ Yes

Personal Sampling:

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, slightly moist, roots.
	0745						0.5		
							1		
	0750						1.5		same as above
							2	TD	pipe encountered at 2.0 feet bgs. Stopped hand auger.
							2.5		
							3		
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS

Parsons Sensitive, Proprietary

Field Boring Log

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Datum:

Job No. 451395

Client/Site: LAUSD / Kennedy High School
Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger

Boring/Well Number
SS - 8 - NW5

Sampling Method: Hand Auger

Sheet
1 of 1

Weather Conditions:

Drilling

Surface Material: asphalt

Start	Finish
Date	Date
12/18-18	12/8-18
Time	Time

Notes: 2-inches of asphalt

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

☒ No ☐ Yes

Personal Sampling:

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	
							0	SM	Silty SAND, dark brown, fine grained sand, moist.
	0725						0.5		
							1		
	0730						1.5		same as above, rocks
							2		
	0735						2.5		same as above
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS

Parsons Sensitive, Proprietary

Field Boring Log

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Datum:

Job No. 451395

Client/Site: LAUSD / Kennedy High School
Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger

Boring/Well Number
SS - 8 - S5

Sampling Method: Hand Auger

Sheet
1 of 1

Weather Conditions:

Drilling

Surface Material: dirt

Start Date	Finish Date
12/18-18	12/8-18
Time	Time

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, moist.
	0805						0.5		
							1		
							1.5		same as above
	0810						2		
							2.5		same as above, dry
	0815						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 9**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time; Finish Date 11-20-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, 15% silt,
									slightly moist, some plastic debris.
	0805								
							0.5		
							1		
							1.5		same as above, no plastic debris
	0812								
							2		
							2.5		same as above
	0816								
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 10**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	ML	SILT, brown, dry.
	1322				0.0				
							0.5		
							1		
							1.5		same as above
	1335				0.0				
							2		
							2.5		same as above
	1340				0.0				
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 11**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, dry.
	1300				0.0				
							0.5		
							1		
							1.5	ML	Sandy SILT, brown, 20% fine grained sand, slightly moist.
	1305				0.0				
							2		
							2.5		same as above
	1315				0.0				
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 12**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling Start Date: 11-20-18 | Drilling Finish Date: 11-20-18

Surface Material: 3" asphalt

Datum:

Notes: 4" of base

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	
							0	ML	Sandy SILT, brown, 10 to 15% fine grained sand, dry.
	1225				0.0		0.5		
							1		
							1.5		same as above
	1230				0.0		2		
							2.5		same as above
	1235				0.0		3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 13**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, 20% silt, trace coarse grained sand, dry.
	0728						0.5		
							1		
							1.5		same as above, trace gravel
	0730						2		
							2.5	ML	Sandy SILT, brown, 30% fine grained sand, trace brick fragments, dry.
	0735						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 14**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, trace gravel, dry.
	0752						0.5		
							1		
	0755						1.5	ML	Sandy SILT, brown, 20% fine grained sand, trace 1/2" rocks, trace gravel.
							2		
	0757						2.5	ML	same as above
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 15**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, dry.
	0705						0.5		
							1		
	0715						1.5	ML	Sandy SILT, brown, 15% fine grained sand, dry.
							2		
	0720						2.5	ML	same as above, trace gravel
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 16**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-20-18 Time | Finish Date 11-20-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes
							0	SM	Silty SAND, brown, fine to medium grained sand, 20% silt, dry.
	0740						0.5		
							1		
							1.5	ML	Sandy SILT, brown, 15% fine grained sand, trace roots, dry.
	0743						2		
							2.5	ML	same as above
	0745						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 17**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling Start Date: 11-19-18 | Drilling Finish Date: 11-19-18

Surface Material: 4" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Iso 100 PPM

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:	Start Time	Finish Time
							0	ML	Sandy SILT, light brown, 15% fine grained sand, dry.		
	1347						0.5				
							1				
							1.5	ML	same as above, dark brown.		
	1350						2				
							2.5	ML	same as above, trace gravel.		
	1353						3	TD			
							3.5				
							4				
							4.5				
							5		TD = Total depth hand augered and sampled		

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 18**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	ML	Sandy SILT, brown, 20% fine grained sand, slightly moist.
	1330						0.5		
							1		
							1.5	ML	same as above, trace gravel.
	1335						2		
							2.5	SM	Silty SAND, light brown, fine grained sand.
	1338						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 19**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 4" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [ ] Yes [X] No

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SW	SAND, well graded, gravel 10-15%, moist, loose.
	1027						0.5		
							1		
							1.5		same as above
	1030						2	TD	hit refusal at 2.25 feet. Stepped out and hit refusal again.
							2.5		
							3		
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 20**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling Start Date: 11-19-18 | Drilling Finish Date: 11-19-18

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:	Drilling Start Time	Drilling Finish Time
							0	SP	SAND, brown, loose, moist.		
	1000						0.5				
							1				
							1.5		same as above		
	1003						2				
							2.5		same as above.		
	1006						3	TD			
							3.5				
							4				
							4.5				
							5		TD = Total depth hand augered and sampled		

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 21**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling Start Date: 11-19-18 | Drilling Finish Date: 11-19-18

Surface Material: 3" asphalt

Datum:

Notes: base 9"

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	
							0	SP	SAND, brown, gravel 5-10%, 5% clay, loose, moist.
	1014						0.5		
							1		
	1016						1.5		same as above, dark brown.
							2		
	1020						2.5		same as above.
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 22**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes: base 9"
							0	SP	SAND, brown, loose, moist.
	0827						0.5		
							1		
	0829						1.5		same as above
							2		
	0832						2.5		same as above.
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 23**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 4" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SP	SAND, dark brown, fine grained sand, loose, 10% gravel, moist.
	0811						0.5		
							1		
							1.5		same as above, more sandy
	0813						2		
							2.5		same as above, brown, drier.
	0815						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 24**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Iso 100 PPM

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes
							0	SM	Silty SAND, brown, loose, 20% fine grained sand,
									5% gravel, moist.
	0802								
							0.5		
							1		
							1.5	SP	SAND, brown, moist, loose.
	0804								
							2		
							2.5		same as above.
	0806								
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 25**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 2.5" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes
							0	SP	SAND, brown, 5% gravel, almost dry, loose.
	0836						0.5		
							1		
	0839						1.5	SM	Silty SAND, as above.
							2		
	0840						2.5		same as above.
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 26**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes
							0	ML	SILT, brown, loose, moist.
	0728						0.5		Concrete slab.
							1	ML	SILT, brown, loose, moist, several 1/4-1/2 inch gravel.
	0740						1.5		
							2		
	0743						2.5		same as above, 20% fine grained sand.
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 27**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 2.5" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, loose, 25% gravel, moist to almost dry.
	0748						0.5		
							1		
	0750						1.5		Same as above, no gravel.
							2		
	0754						2.5	ML	SILT, light brown, 25% fine grained sand, loose, dry.
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 28**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 2.5" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SP	SAND, brown, loose, 5-10% gravel, moist.
	0844						0.5		
							1		
							1.5	SM/SP	as above, 25% silt.
	0846						2		
							2.5	SP	SAND, light brown, fine grained sand, loose, moist.
	0848						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 29**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling Start Date: 11-19-18 | Drilling Finish Date: 11-19-18

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:	Drilling Start Time	Drilling Finish Time
							0	SP	SAND, brown, 5% gravel, loose, moist.		
	0900						0.5				
							1				
	0902						1.5		same as above		
							2				
	0904						2.5		same as above, drier.		
							3	TD			
							3.5				
							4				
							4.5				
							5		TD = Total depth hand augered and sampled		

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 30**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 2.5" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SP	SAND, brown, 5-10% gravel, loose, moist.
	0912						0.5		
							1		
							1.5		same as above, dark brown, more moist, 10% clay.
	0914						2		
							2.5		As above, several 1" chunks of concrete.
	0917						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 31**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	ML	Clayey SILT, dark brown, slightly moist.
	1300						0.5		
							1		
							1.5	SM	Silty SAND, brown, fine grained sand, 20% silt, slightly moist.
	1305						2		
							2.5	ML	SILT, brown, trace fine grained sand, slightly moist.
	1308						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 32**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time; Finish Date 11-19-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	ML	SILT, dark brown, trace fine grained sand, moist.
	1311						0.5		
							1		
	1315						1.5		same as above
							2		
	1318						2.5		same as above
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 33**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 2.5" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SP	SAND, brown, 10-15% gravel, loose, moist.
	0925						0.5		
							1		
							1.5	SM	Silty SAND, dark brown, medium dense, very moist.
	0929						2		
							2.5		same as above
	0930						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 34**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start / Finish

Surface Material: 2.5" asphalt | Date: 11-19-18 / 11-19-18

Datum:

Notes: 10" compacted gravel base | Time / Time

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	
							0	SW	SAND, dark brown, well graded, medium dense,
									moist.
	0940								
							0.5		
							1		
							1.5		same as above, less graded.
	0942								
							2		
							2.5	SP	SAND, brown, loose, moist.
	0944								
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 35**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 4" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	ML	Sandy SILT, brown, 20% fine grained sand, trace gravel, slightly moist.
	1232						0.5		
							1		
							1.5		same as above, dark brown, trace roots, dry
	1235						2		
							2.5		same as above, rocks
	1237						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 36**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, trace gravel,
									moist.
	1225								
							0.5		
							1		
							1.5		same as above, no gravel
	1226								
							2		
							2.5		
	1228								
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 37**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling Start Date: 11-19-18 | Drilling Finish Date: 11-19-18

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes	Drilling Start Time	Drilling Finish Time
							0	ML	SILT, gray, very loose, trace roots, dry.		
	1217						0.5				
							1				
							1.5		same as above, grayish brown, roots		
	1220						2				
							2.5		same as above, gray.		
	1222						3	TD			
							3.5				
							4				
							4.5				
							5		TD = Total depth hand augered and sampled		

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 38**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time | Finish Date 11-19-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Iso 100 PPM

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, loose, trace gravel, dry.
	1115						0.5		
							1		
							1.5	ML	Sandy SILT, brown, 20% fine grained sand, trace roots, dry.
	1118						2		
							2.5		same as above, big rocks.
	1124						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 39**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling: Start Date 11-19-18 Time; Finish Date 11-19-18 Time

Surface Material: 3" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: [X] No [ ] Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SM	Silty SAND, brown, fine grained sand, dry.
	1130						0.5		
							1		
							1.5		same as above, trace gravel.
	1134						2		
							2.5		same as above
	1138						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 40**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling Start Date: 11-19-18 | Drilling Finish Date: 11-19-18

Surface Material: 2.5" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	SW	SAND, compact gravel 15-20%, almost dry.
	1048						0.5		
							1		
							1.5		same as above
	1054						2		
							2.5		same as above
	1100						3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

PARSONS **Field Boring Log**

Location of Boring/Well:

SEE SITE PLAN FIGURE IN REPORT

Job No. 451395 | Client/Site: LAUSD / Kennedy High School, Granada Hills, CA

Drilling Co./Method: Rice General / Hand Auger | Boring/Well Number: **SS - 41**

Sampling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: | Drilling Start Date: 11-19-18 Time: | Drilling Finish Date: 11-19-18 Time:

Surface Material: 2.5" asphalt

Datum:

Geologist: P. Shair / J. King

Reviewed By:

Type of Instrument/Serial No. MiniRAE

Calibration Date/Gas: Iso 100 PPM

Sample Container:

Sample Analyses:

Personal Sampling: ☒ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	PID (ppm) Auger	PID (ppm) Sample	XRF Lead (ppm)	Depth in Feet	USCS Soil Type	Notes:
							0	ML	Sandy SILT, light brown, 20% fine grained sand,
									trace coarse grained sand, slightly moist.
	1249								
							0.5		
							1		
							1.5		same as above, no coarse grained sand, dry.
	1255								
							2		
							2.5	SM	Silty SAND, brown, fine grained sand, 30% silt, trace
	1258								gravel, dry.
							3	TD	
							3.5		
							4		
							4.5		
							5		TD = Total depth hand augered and sampled

APPENDIX D

NO. 745498

ON-HAZARDOUS WASTE DATA FORM

BESI # 301440

Generator's Name and Mailing Address
L.A.U.S.D. - OEHS
ATTN: ANDREW MODUGNO
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)
LAUSD - KENNEDY HIGH SCHOOL
11254 GOTHIC AVENUE
GRANADA HILLS, CA 91344

Generator's Phone: 213-241-3199

Container type removed from site:

☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck

☐ Other _____

Quantity 001

Container type transported to receiving facility:

☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck

☐ Other _____

Quantity _____ Volume _____

WASTE DESCRIPTION Non-Hazardous Asphalt

GENERATING PROCESS Site Investigation

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. Asphalt		100%	3.		
2.			4.		

Waste Profile _____ PROPERTIES: pH _____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: Andrew Modugno for LAUSD | Signature: Andrew Modugno for LAUSD | Month 01 Day 04 Year 19

The Generator certifies that the waste as described is 100% non-hazardous

Transporter 1 Company Name: BELSHIRE | Phone#: 949-460-5200

Transporter 1 Printed/Typed Name: Thomas Bock | Signature | Month 01 Day 04 Year 19

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month Day Year

Transporter Acknowledgment of Receipt of Materials

Designated Facility Name and Site Address
PHILADELPHIA RECYCLING MINE
12000 PHILADELPHIA AVE
MIRA LOMA, CA 91752

Phone#: 951-685-8343

Printed/Typed Name | Signature | Month Day Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

NO. 745497

ION-HAZARDOUS WASTE DATA FORM

BESI # 301440

Generator's Name and Mailing Address
L.A.U.S.D. - OEHS
ATTN: ANDREW MODUGNO
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)
LAUSD - KENNEDY HIGH SCHOOL
11254 GOTHIC AVENUE
GRANADA HILLS, CA 91344

Generator's Phone: 213-241-3199

Container type removed from site:
☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 001

Container type transported to receiving facility:
☐ Drums ☒ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS WASTE LIQUIDS
GENERATING PROCESS DECON WATER

COMPONENTS OF WASTE	PPM	%
1. WATER		95-100%
2. TPH		< 1%
3. SOLIDS		0-5%
4.		

Waste Profile _____ PROPERTIES: pH 4-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: Andrew Modugno for LAUSD | Signature: Andrew Modugno for LAUSD | Month/Day/Year: 01/04/19
The Generator certifies that the waste as described is 100% non-hazardous

Transporter 1 Company Name: BELSHIRE | Phone#: 949-460-5200
Transporter 1 Printed/Typed Name: Thomas Buch | Signature | Month/Day/Year: 01/04/19
Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC. | Phone#: 714-990-6855
Transporter 2 Printed/Typed Name | Signature | Month/Day/Year
Transporter Acknowledgment of Receipt of Materials

Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222
Phone#: 310-537-7100

Printed/Typed Name | Signature | Month/Day/Year
Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

APPENDIX E

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Justin King

Number of Pages	**30**
Date Received	**11/19/2018**
Date Reported	**11/29/2018**

Job Number	Order Date	Client
94891	11/19/2018	PARSNS

Project ID: KENNEDY HS
Project Name: Kennedy HS
Site: Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Enclosed please find results of analyses of 16 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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110790

AETL JOB No. 94891

Page 1 of 6

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Pasadena CA
PHONE:
FAX: 626-440-6013
PROJECT NAME: Kennedy HS - LAUSD
PROJECT #:
SITE NAME AND ADDRESS: Kennedy HS - 11254 Gothic Granada Hills
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead/Arsenic (6010)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SS-26-D0.5	94891.01	11-14-18	728	Soil	1-9oz	NO	X	X	X	
2	SS-26-D0.5-D	94891.02		729	"			X	X	X	
3	SS-26-D2.0	94891.03		740	"						Hold analysis
4	SS-26-D3.0	94891.04		743	"						Hold analysis
5	SS-27-D0.5	94891.05		748	"			X	X	X	
6	SS-27-D2.0	94891.06		750	"						Hold analysis
7	SS-27-D3.0	94891.07		754	"						Hold analysis
8	SS-24-D0.5	94891.08		802	"			X	X	X	
9	SS-24-D2.0	94891.09		804	"						Hold
10	SS24-D3.0	94891.10		806	"						Hold
11	SS23-D0.5	94891.11		811	"			X	X	X	
12	SS-23-D2.0	94891.12		813	"						Hold
13	SS-23-D3.0	94891.13		815	"						Hold
14	SS-22-D0.5	94891.14		827	"			X	X	X	
15	SS-22-D2.0	94891.15		829	"						Hold

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

- [X] NORMAL
- [ ] RUSH
- [ ] SAME DAY
- [ ] NEXT DAY
- [ ] 2 DAYS
- [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

- [ ] HARD COPY
- [X] PDF
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	Justin King		
Date: / Time:	11/19/18 1500	/	11/19/18 1550
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:			
Printed Name:			
Date: / Time:	11/19/18 1500	/	11/19/18 1550

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

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CHAIN OF CUSTODY RECORD

110797

AETL JOB No. 94891

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena CA
PHONE / FAX: 626-440-6013
PROJECT NAME:
PROJECT #:
SITE NAME AND ADDRESS: Kennedy HS - LAUSD, 11254 Gothic, Granada Hills
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SS-22-D3.0	94891.16	11-19-18	832	Soil	1-9oz	NO
2	SS-25-D0.5	94891.17		836			
3	SS-25-D2.0	94891.18		839			
4	SS-25-D3.0	94891.19		840			
5	SS-28-D0.5	94891.20		844			
6	SS-28-D2.0	94891.21		846			
7	SS-28-D3.0	94891.22		848			
8	SS-29-D0.5	94891.23		900			
9	SS-29-D2.0	94891.24		902			
10	SS-29-D3.0	94891.25		904			
11	SS-30-D0.5	94891.26		912			
12	SS-30-D2.0	94891.27		914			
13	SS-30-D3.0	94891.28		917			
14	SS-33-D0.5	94891.29		925			
15	SS-33-D2.0	94891.30		928			

ANALYSIS REQUESTED

	Lead (6010)	Arsenic (6020)	OCP (8081A)	PCB (8082)	TEST INSTRUCTIONS & COMMENTS
1	✓				Hold
2	X	X	X		
3					Hold
4					Hold
5	X	X	X		
6					Hold
7					Hold
8	X	X	X		
9					Hold
10					Hold
11	X	X	X		
12					Hold
13					Hold
14	X	X	X		
15					Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Justin King	Printed Name:	Printed Name: C. Pantaleon
Date: 11/19/18 Time: 1500	Date: Time:	Date: 11/19/18 Time: 1550
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name: C. Pantaleon	Printed Name:	Printed Name:
Date: 11/19/18 Time: 1505	Date: Time:	Date: 11/19/18 Time: 1550

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

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CHAIN OF CUSTODY RECORD

110603

AETL JOB No. 94891

COMPANY: Parsons
PROJECT MANAGER: Justin Lars
COMPANY ADDRESS: 100 W. Walnut St. Pasadena CA
PHONE: 310-809-5793
FAX:
PROJECT NAME: Kennedy HS-LAUSD
PROJECT #:
SITE NAME AND ADDRESS: Kennedy HS - 11254 Gothic, Granada Hills
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010)	Arsenic (6020)	OCPs (8081A)	PCBs (8082)	TEST INSTRUCTIONS & COMMENTS
1	SS-33-D3.0	94891.31	11-19-18	930	Soil	1 9oz	NO					HOLD
2	SS-34-D0.5	94891.32		940				X	X	X	X	
3	SS-34-D2.0	94891.33		942								Hold
4	SS-34-D3.0	94891.34		944								Hold
5	SS-20-D0.5	94891.35		1000				X	X	X		
6	SS-20-D2.0	94891.36		1003								Hold
7	SS-20-D3.0	94891.37		1006								Hold
8	SS-21-D0.5	94891.38		1014				X	X	X		
9	SS-21-D2.0	94891.39		1016								Hold
10	SS-21-D3.0	94891.40		1020								Hold
11	SS-19-D0.5	94891.41		1027				X	X	X		
12	SS-19-D2.0	94891.42		1030								Hold
13	~~SS-19-D3.0~~	PS-NO sample										~~Hold~~ no sample
14	SS-40-D0.5	94891.43		1048				X	X	X		
15	SS-40-D2.0	94891.44		1054								Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	14	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

- [X] NORMAL
- [ ] RUSH
  - [ ] SAME DAY
  - [ ] NEXT DAY
  - [ ] 2 DAYS
  - [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

- [ ] HARD COPY
- [X] PDF
- [ ] GEOTRACKER (GLOBAL ID) ____________
- [ ] OTHER (PLEASE SPECIFY) ____________

	1.	2.	3.
RELINQUISHED BY	RELINQUISHED BY SAMPLER: Signature: [signature] Printed Name: Justin Lars Date: 11/19/18 Time: 1500	RELINQUISHED BY: Signature: Printed Name: Date: Time:	RELINQUISHED BY: Signature: [signature] Printed Name: C. Palomino Date: 11/19/18 Time: 1550
RECEIVED BY	RECEIVED BY: Signature: [signature] Printed Name: Carmelon Palomino Date: 11/19/18 Time: 1500	RECEIVED BY: Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: AETL Signature: Printed Name: Art Date: 11/19/18 Time: 1550

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

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COOLER RECEIPT FORM

Client Name: Parson
Project Name:
AETL Job Number: 94891, 94892
Date Received: 11/19/18 Received by: AT
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify): c
Inside temperature of shipping container No 1: 3.2°, No 2: 3.3°, No 3:
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		Y	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	2		

Explain all "No" answers for above questions:

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Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Justin King

Project ID: KENNEDY HS
Date Received 11/19/2018
Date Reported 11/29/2018

Job Number	Order Date	Client
94891	11/19/2018	PARSNS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 44 samples with the following specification on 11/19/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94891.01	SS-26-D0.5	11/19/2018	Soil	1
94891.02	SS-26-D0.5-D	11/19/2018	Soil	1
94891.05	SS-27-D0.5	11/19/2018	Soil	1
94891.08	SS-24-D0.5	11/19/2018	Soil	1
94891.11	SS-23-D0.5	11/19/2018	Soil	1
94891.14	SS-22-D0.5	11/19/2018	Soil	1
94891.17	SS-25-D0.5	11/19/2018	Soil	1
94891.20	SS-28-D0.5	11/19/2018	Soil	1
94891.23	SS-29-D0.5	11/19/2018	Soil	1
94891.26	SS-30-D0.5	11/19/2018	Soil	1
94891.29	SS-33-D0.5	11/19/2018	Soil	1
94891.35	SS-20-D0.5	11/19/2018	Soil	1
94891.38	SS-21-D0.5	11/19/2018	Soil	1
94891.41	SS-19-D0.5	11/19/2018	Soil	1
94891.43	SS-40-D0.5	11/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/26/2018	2	Normal	mg/Kg
(6020) ^ AS	11/26/2018	2	Normal	mg/Kg
(8081A)	11/26/2018	2	Normal	ug/Kg

94891.03	SS-26-D2.0	11/19/2018	Soil	1
94891.04	SS-26-D3.0	11/19/2018	Soil	1
94891.06	SS-27-D2.0	11/19/2018	Soil	1
94891.07	SS-27-D3.0	11/19/2018	Soil	1
94891.09	SS-24-D2.0	11/19/2018	Soil	1
94891.10	SS-24-D3.0	11/19/2018	Soil	1

Continued

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Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Justin King

Project ID: KENNEDY HS
Date Received 11/19/2018
Date Reported 11/29/2018

Job Number	Order Date	Client
94891	11/19/2018	PARSNS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

94891.12	SS-23-D2.0	11/19/2018	Soil	1
94891.13	SS-23-D3.0	11/19/2018	Soil	1
94891.15	SS-22-D2.0	11/19/2018	Soil	1
94891.16	SS-22-D3.0	11/19/2018	Soil	1
94891.18	SS-25-D2.0	11/19/2018	Soil	1
94891.19	SS-25-D3.0	11/19/2018	Soil	1
94891.21	SS-28-D2.0	11/19/2018	Soil	1
94891.22	SS-28-D3.0	11/19/2018	Soil	1
94891.24	SS-29-D2.0	11/19/2018	Soil	1
94891.25	SS-29-D3.0	11/19/2018	Soil	1
94891.27	SS-30-D2.0	11/19/2018	Soil	1
94891.28	SS-30-D3.0	11/19/2018	Soil	1
94891.30	SS-33-D2.0	11/19/2018	Soil	1
94891.31	SS-33-D3.0	11/19/2018	Soil	1
94891.33	SS-34-D2.0	11/19/2018	Soil	1
94891.34	SS-34-D3.0	11/19/2018	Soil	1
94891.36	SS-20-D2.0	11/19/2018	Soil	1
94891.37	SS-20-D3.0	11/19/2018	Soil	1
94891.39	SS-21-D2.0	11/19/2018	Soil	1
94891.40	SS-21-D3.0	11/19/2018	Soil	1
94891.42	SS-19-D2.0	11/19/2018	Soil	1
94891.44	SS-40-D2.0	11/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	11/26/2018	2	Normal	--

94891.32	SS-34-D0.5	11/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/26/2018	2	Normal	mg/Kg
(6020) ^ AS	11/26/2018	2	Normal	mg/Kg
(8081A)	11/26/2018	2	Normal	ug/Kg
(8082)	11/26/2018	2	Normal	ug/Kg

Continued

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

Ordered By

Parsons **100 West Walnut Street** **Pasadena, CA 91124-**	**Project ID: KENNEDY HS** **Date Received 11/19/2018** **Date Reported 11/29/2018**
Telephone: (626)440-6161 **Attention: Justin King**	

Job Number	Order Date	Client
94891	11/19/2018	PARSNS

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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112118EB1

Our Lab I.D.			Method Blank	94891.01	94891.02	94891.05	94891.08
Client Sample I.D.				SS-26-D0.5	SS-26-D0.5-D	SS-27-D0.5	SS-24-D0.5
Date Sampled				11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/21/2018	11/21/2018	11/21/2018	11/21/2018	11/21/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/21/2018	11/21/2018	11/21/2018	11/21/2018	11/21/2018
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	13.6	15.1	6.38	3.23
Chlordane (alpha)	1.0	2.0	ND	7.38	7.85	3.16	1.56J
4,4'-DDD (DDD)	1.0	2.0	ND	2.99	2.99	2.24	2.10
4,4'-DDE (DDE)	1.0	2.0	ND	75.7	88.6	9.76	24.0
4,4'-DDT (DDT)	1.0	2.0	ND	24.3	33.7	19.7	9.92
Dieldrin	1.0	2.0	ND	7.68	8.57	5.35	3.89
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	6.19	7.25	3.22	1.67J
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	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	94891.01	94891.02	94891.05	94891.08
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		108	80.0	97.2	86.8	81.6
Tetrachloro-m-xylene	30-150		66.0	56.0	59.6	57.2	52.4

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112118EB1

Our Lab I.D.			94891.11	94891.14	94891.17	94891.20	94891.23
Client Sample I.D.			SS-23-D0.5	SS-22-D0.5	SS-25-D0.5	SS-28-D0.5	SS-29-D0.5
Date Sampled			11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/21/2018	11/21/2018	11/21/2018	11/21/2018	11/21/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/21/2018	11/21/2018	11/21/2018	11/21/2018	11/21/2018
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	7.23	9.46	7.90	8.76	6.63
Chlordane (alpha)	1.0	2.0	4.01	4.65	3.48	4.41	3.25
4,4'-DDD (DDD)	1.0	2.0	1.67J	6.69	3.46	2.00	1.64J
4,4'-DDE (DDE)	1.0	2.0	99.0	46.1	36.8	24.3	28.5
4,4'-DDT (DDT)	1.0	2.0	16.3	46.0	38.8	17.1	33.4
Dieldrin	1.0	2.0	3.38	5.30	3.21	7.48	2.86
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	3.22	4.81	4.42	4.35	3.38
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	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			94891.11	94891.14	94891.17	94891.20	94891.23
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		71.2	91.6	89.2	80.8	88.8
Tetrachloro-m-xylene	30-150		58.4	48.0	77.6	62.0	72.0

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112118EB1

Our Lab I.D.			94891.26	94891.29	94891.32	94891.35	
Client Sample I.D.			SS-30-D0.5	SS-33-D0.5	SS-34-D0.5	SS-20-D0.5	
Date Sampled			11/19/2018	11/19/2018	11/19/2018	11/19/2018	
Date Prepared			11/21/2018	11/21/2018	11/21/2018	11/21/2018	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			11/21/2018	11/21/2018	11/21/2018	11/21/2018	
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	4.38	7.97	2.29	4.83	
Chlordane (alpha)	1.0	2.0	1.92J	3.86	1.05J	1.54J	
4,4'-DDD (DDD)	1.0	2.0	ND	6.46	ND	ND	
4,4'-DDE (DDE)	1.0	2.0	2.55	65.1	71.2	16.2	
4,4'-DDT (DDT)	1.0	2.0	ND	52.2	9.34	ND	
Dieldrin	1.0	2.0	1.70J	3.77	1.21J	1.90J	
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	2.46	4.11	1.24J	3.29	
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 (Betta-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	85.0	170.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			94891.26	94891.29	94891.32	94891.35	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150		73.6	83.6	74.0	144	
Tetrachloro-m-xylene	30-150		58.0	68.0	66.0	54.4	

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112118EB1

Our Lab I.D.			94891.38				
Client Sample I.D.			SS-21-D0.5				
Date Sampled			11/19/2018				
Date Prepared			11/21/2018				
Preparation Method			3550B				
Date Analyzed			11/21/2018				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	5.73J				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	6.47J				
4,4'-DDT (DDT)	5	10	5.94J				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			94891.38				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		95.6				
Tetrachloro-m-xylene	30-150		72.4				

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112118EB1

Our Lab I.D.			94891.41				
Client Sample I.D.			SS-19-D0.5				
Date Sampled			11/19/2018				
Date Prepared			11/21/2018				
Preparation Method			3550B				
Date Analyzed			11/21/2018				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	5.64				
Chlordane (alpha)	2.0	4.0	2.21J				
4,4'-DDD (DDD)	2.0	4.0	4.20				
4,4'-DDE (DDE)	2.0	4.0	51.7				
4,4'-DDT (DDT)	2.0	4.0	31.4				
Dieldrin	2.0	4.0	4.96				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	3.43J				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			**94891.41**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	**30-150**		**79.2**				
Tetrachloro-m-xylene	**30-150**		**66.0**				

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112118EB1

Our Lab I.D.			94891.43				
Client Sample I.D.			SS-40-D0.5				
Date Sampled			11/19/2018				
Date Prepared			11/21/2018				
Preparation Method			3550B				
Date Analyzed			11/21/2018				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	10.9				
Chlordane (alpha)	1.0	2.0	5.20				
4,4'-DDD (DDD)	1.0	2.0	11.2				
4,4'-DDE (DDE)	1.0	2.0	126				
4,4'-DDT (DDT)	1.0	2.0	45.7				
Dieldrin	1.0	2.0	5.39				
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	5.72				
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	85.0	170.0	ND				

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			**94891.43**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	**30-150**		**73.2**				
Tetrachloro-m-xylene	**30-150**		**56.8**				

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ANALYTICAL RESULTS

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

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

QC Batch No: 112618ZB1

Our Lab I.D.			Method Blank	**94891.32**			
Client Sample I.D.				SS-34-D0.5			
Date Sampled				**11/19/2018**			
Date Prepared			**11/26/2018**	**11/26/2018**			
Preparation Method			**3550B**	**3550B**			
Date Analyzed			**11/26/2018**	**11/26/2018**			
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	**94891.32**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	**30-150**		**89.2**	**74.8**			
Tetrachloro-m-xylene	**30-150**		**66.4**	**86.8**			

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Project ID: KENNEDY HS
Project Name: Kennedy HS

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

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

QC Batch No: 1127182C2

Our Lab I.D.			Method Blank	94891.01	94891.02	94891.05	94891.08
Client Sample I.D.				SS-26-D0.5	SS-26-D0.5-D	SS-27-D0.5	SS-24-D0.5
Date Sampled				11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018
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**
Lead	2.5	5.0	ND	6.70	6.28	5.48	5.18

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Site

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Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

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

QC Batch No: 1127182C2

Our Lab I.D.			94891.11	94891.14	94891.17	94891.20	94891.23
Client Sample I.D.			SS-23-D0.5	SS-22-D0.5	SS-25-D0.5	SS-28-D0.5	SS-29-D0.5
Date Sampled			11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018
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**
Lead	2.5	5.0	10.4	7.46	4.94J	4.54J	4.61J

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

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

QC Batch No: 1127182C2

Our Lab I.D.			94891.26				
Client Sample I.D.			SS-30-D0.5				
Date Sampled			11/19/2018				
Date Prepared			11/27/2018				
Preparation Method			3050B				
Date Analyzed			11/28/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.5	5.0	3.03J				

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Project ID: KENNEDY HS
Project Name: Kennedy HS

Site

Kennedy HS-LAUSD
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Granada Hills, CA 91344

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

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

QC Batch No: 1127182C3

Our Lab I.D.			Method Blank	94891.29	94891.32	94891.35	94891.38
Client Sample I.D.				SS-33-D0.5	SS-34-D0.5	SS-20-D0.5	SS-21-D0.5
Date Sampled				11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018
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**
Lead	2.5	5.0	ND	5.96	5.24	4.75J	5.20

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

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

QC Batch No: 1127182C3

Our Lab I.D.			94891.41	94891.43			
Client Sample I.D.			SS-19-D0.5	SS-40-D0.5			
Date Sampled			11/19/2018	11/19/2018			
Date Prepared			11/27/2018	11/27/2018			
Preparation Method			3050B	3050B			
Date Analyzed			11/28/2018	11/28/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	2.5	5.0	2.90J	4.90J			

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Project ID: KENNEDY HS
Project Name: Kennedy HS

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C6

Our Lab I.D.			Method Blank	94891.01	94891.02	94891.05	94891.08
Client Sample I.D.				SS-26-D0.5	SS-26-D0.5-D	SS-27-D0.5	SS-24-D0.5
Date Sampled				11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018
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	5.01	5.68	4.25	2.63

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Kennedy HS-LAUSD
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Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C6

Our Lab I.D.			94891.11	94891.14	94891.17	94891.20	94891.23
Client Sample I.D.			SS-23-D0.5	SS-22-D0.5	SS-25-D0.5	SS-28-D0.5	SS-29-D0.5
Date Sampled			11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018
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	4.34	3.23	3.27	4.29	3.47

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C6

Our Lab I.D.			94891.26				
Client Sample I.D.			SS-30-D0.5				
Date Sampled			11/19/2018				
Date Prepared			11/27/2018				
Preparation Method			3050B				
Date Analyzed			11/28/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.62				

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Kennedy HS-LAUSD
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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C7

Our Lab I.D.			Method Blank	94891.29	94891.32	94891.35	94891.38
Client Sample I.D.				SS-33-D0.5	SS-34-D0.5	SS-20-D0.5	SS-21-D0.5
Date Sampled				11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018
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	4.70	3.35	2.36	2.56

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Kennedy HS-LAUSD
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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C7

Our Lab I.D.			94891.41	94891.43			
Client Sample I.D.			SS-19-D0.5	SS-40-D0.5			
Date Sampled			11/19/2018	11/19/2018			
Date Prepared			11/27/2018	11/27/2018			
Preparation Method			3050B	3050B			
Date Analyzed			11/28/2018	11/28/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	2.83	2.12			

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

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

QC Batch No: 1127182C2; Dup or Spiked Sample: 94891.01; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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
Lead	**6.70**	**50.0**	**51.7**	**90.0**	**50.0**	**49.4**	**85.4**	**5.2**	**75-125**	**<15**

QC Batch No: 1127182C2; Dup or Spiked Sample: 94891.01; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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	
Lead	**50.0**	**51.0**	**102**	**50.0**	**51.0**	**102**	**<1**	**75-125**	**<15**	

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Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

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

QC Batch No: 1127182C3; Dup or Spiked Sample: 94891.29; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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
Lead	**5.96**	**50.0**	**56.5**	**101**	**50.0**	**57.0**	**102**	**<1**	**75-125**	**<15**

QC Batch No: 1127182C3; Dup or Spiked Sample: 94891.29; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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	
Lead	**50.0**	**41.3**	**82.6**	**50.0**	**44.4**	**88.8**	**7.2**	**75-125**	**<15**	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C6; Dup or Spiked Sample: 94891.01; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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	**5.01**	**1.00**	**6.35 #**	**134**	**1.00**	**6.45 #**	**144**	**7.2**	**80-120**	**<15**

QC Batch No: 1127181C6; Dup or Spiked Sample: 94891.01; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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	**1.00**	**0.932**	**93.2**	**1.00**	**0.983**	**98.3**	**5.3**	**80-120**	**<15**	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C7; Dup or Spiked Sample: 94891.29; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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	**4.70**	**1.00**	**5.10 #**	**40.0**	**1.00**	**5.20 #**	**50.0**	**22.2**	**80-120**	**<15**

QC Batch No: 1127181C7; Dup or Spiked Sample: 94891.29; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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	**1.00**	**0.845**	**84.5**	**1.00**	**0.838**	**83.8**	**<1**	**80-120**	**<15**	

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Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112118EB1; Dup or Spiked Sample: 94891.05; LCS: Clean Sand; QC Prepared: 11/21/2018; QC Analyzed: 11/21/2018; 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	11.0	55.0	20.0	11.2	56.0	1.8	40-150	<40
4,4'-DDT (DDT)	19.7	50.0	75.2	111	50.0	84.2	129	15.0	40-150	<40
Dieldrin	3.66	50.0	38.3	69.3	50.0	38.0	68.7	<1	40-150	<40
Endrin	0.00	50.0	39.9	79.8	50.0	40.8	81.6	2.2	40-150	<40
Heptachlor	0.00	20.0	11.7	58.5	20.0	11.4	57.0	2.6	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	12.7	63.5	20.0	12.6	63.0	<1	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	22.4	89.6	25.0	20.4	81.6	9.3	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	15.7	62.8	25.0	18.2	72.8	14.7	30-150	<40

QC Batch No: 112118EB1; Dup or Spiked Sample: 94891.05; LCS: Clean Sand; QC Prepared: 11/21/2018; QC Analyzed: 11/21/2018; 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	12.6	63.0	20.0	10.3	51.5	20.1	50-150	<40	
4,4'-DDT (DDT)	50.0	45.9	91.8	50.0	49.0	98.0	6.5	50-150	<40	
Dieldrin	50.0	38.6	77.2	50.0	33.1	66.2	15.3	50-150	<40	
Endrin	50.0	31.8	63.6	50.0	28.6	57.2	10.6	50-150	<40	
Heptachlor	20.0	12.2	61.0	20.0	10.3	51.5	16.9	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	13.8	69.0	20.0	10.7	53.5	25.3	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	25.8	103	25.0	23.2	92.8	10.4	30-150	<40	
Tetrachloro-m-xylene	25.0	17.4	69.6	25.0	13.1	52.4	28.2	30-150	<40	

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QUALITY CONTROL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Justin King
Page: **30**

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94891	11/19/2018	PARSNS

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

QC Batch No: 112618ZB1; Dup or Spiked Sample: 94898.02; LCS: Clean Sand; QC Prepared: 11/26/2018; QC Analyzed: 11/26/2018; 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	540	108	500	540	108	<1	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	426	85.2	500	409	81.8	4.1	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.0	96.0	25.0	20.3	81.2	16.7	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	22.5	90.0	25.0	21.5	86.0	4.5	30-150	<40

QC Batch No: 112618ZB1; Dup or Spiked Sample: 94898.02; LCS: Clean Sand; QC Prepared: 11/26/2018; QC Analyzed: 11/26/2018; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	383	76.6	50-150						
Aroclor-1260 (PCB-1260)	500	372	74.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	21.6	86.4	30-150						
Tetrachloro-m-xylene	25.0	15.8	63.2	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

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Justin King

Number of Pages	**18**
Date Received	**11/19/2018**
Date Reported	**11/29/2018**

Job Number	Order Date	Client
94892	11/19/2018	PARSNS

Project ID: KENNEDY HS
Project Name: Kennedy HS
Site: Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Enclosed please find results of analyses of 11 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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110602

AETL JOB No. 94892

Page 4 of 6

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena CA
PHONE / FAX: 626-440-6013
PROJECT NAME: Kennedy High School
PROJECT #:
SITE NAME AND ADDRESS: 11254 Gothic Granada Hills
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SS-40-D3.0	94892.01	11-19-19	1100	SOIL	1 402		1			Hold
2	SS-38-D0.5	94892.02		1115				X	X	X	
3	SS-38-D2.0	94892.03		1118							Hold
4	SS-38-D3.0	94892.04		1124							Hold
5	SS-39-D0.5	94892.05		1130				X	X	X	
6	SS-39-D2.0	94892.06		1134							Hold
7	SS-39-D3.0	94892.07		~~1217~~ 1138				1			Hold
8	SS-37-D0.5	94892.08		1217				X	X	X	
9	SS-37-D2.0	94892.09		1220							Hold
10	SS-37-D3.0	94892.10		1222							Hold
11	SS-36-D0.5	94892.11		1225				X	X	X	
12	SS-36-D2.0	94892.12		1226							Hold
13	SS-36-D3.0	94892.13		1228							Hold
14	SS-35-D0.5	94892.14		1232				X	X	X	
15	SS-35-D2.0	94892.15		1235							Hold

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 SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Justin King	Printed Name:	Printed Name: C. Rodriguez
Date: 11-19-18 Time: 1500	Date: Time:	Date: 11/19/18 Time: 1550
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: Christopher Rodriguez	Printed Name:	Printed Name: Ant
Date: 11/19/18 Time: 1500	Date: Time:	Date: 11/19/18 Time: 1550

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

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CHAIN OF CUSTODY RECORD

110601

AETL JOB No. 94892

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 West Walnut St, Pasadena
PHONE / FAX: 626-440-6133
PROJECT NAME: Kennedy High School
PROJECT #:
SITE NAME AND ADDRESS: 11254 Gothic Granada Hills
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SS-35-D3.0	94892.16	11-19-18	1245	Soil	1	
2	SS-41-D0.5	94892.17		1249		1	
3	SS-41-D0.5D	94892.18		1250		1	
4	SS-41-D2.0	94892.19		1255		1	
5	SS-41-D3.0	94892.20		1258		1	
6	SS-31-D0.5	94892.21		1300		1	
7	SS-31-D2.0	94892.22		1305		1	
8	SS-31-D3.0	94892.23		1308		1	
9	SS-32-D0.5	94892.24		1311		1	
10	SS-32-D2.0	94892.25		1315		1	
11	SS-32-D3.0	94892.26		1318		1	
12	SS-18-D0.5	94892.27		1330		1	
13	SS-18-D2.0	94892.28		1335		1	
14	SS-18-D3.0	94892.29		1338		1	
15	SS-17-0.5	94892.30		1347		1	

ANALYSIS REQUESTED

	Lead (6010)	Arsenic (6010)	OCPs (8081A)	PCBs (8082)	TEST INSTRUCTIONS & COMMENTS
1					Hold
2	X	X	X	X	no PCB analysis
3	X	X	X	X	no PCB analysis
4					Hold
5					Hold
6	X	X	X		
7					Hold
8					Hold
9	X	X	X	X	
10					Hold
11					Hold
12	X	X	X		
13					Hold
14					Hold
15	X	X	X		

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

- [X] NORMAL
- [ ] RUSH
  - [ ] SAME DAY
  - [ ] NEXT DAY
  - [ ] 2 DAYS
  - [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

- [ ] HARD COPY
- [X] PDF
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY:	SAMPLER:		
Signature:			
Printed Name:	Justin King		
Date:	11/19/18		
Time:	1500		
RECEIVED BY:			
Signature:			
Printed Name:			
Date:	11/19/18		
Time:	1500		
RELINQUISHED BY:			
Signature:			
Printed Name:			
Date:			11/19/18
Time:			1550
RECEIVED BY LABORATORY:			AETL
Signature:			
Printed Name:			Ant
Date:			11/19/18
Time:			1550

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

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CHAIN OF CUSTODY RECORD

110800

AETL JOB No. 94892

COMPANY: Parsons
PROJECT MANAGER:
COMPANY ADDRESS: 100 West Walnut St Pasadena
PHONE:
FAX:
PROJECT NAME: Kenedy High School
PROJECT #:
SITE NAME AND ADDRESS: 11254 Gothic Granada Hills, Ca
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SS-17-D20	94892-31	11-19-18	1350	Soil	1	
2	SS-17-D30	94892-32	11-19-18	1353	Soil	1	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

1. Lead (6010)	Arsenic (6020)	OCPs (8081)

TEST INSTRUCTIONS & COMMENTS

Hold
Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	2	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: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Justin King	Printed Name:	Printed Name: C. Hamilton
Date: 11/19/18 Time: 1500	Date: Time:	Date: 11/19/18 Time: 1550
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name: Christian Hamilton	Printed Name:	Printed Name: Ant
Date: 11/19/18 Time: 1540	Date: Time:	Date: 11/19/18 Time: 1550

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

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COOLER RECEIPT FORM

Client Name: Parson

Project Name:

AETL Job Number: 94891, 94892

Date Received: 11/19/18 Received by: AM

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.2°C, No 2: 3.3°C, No 3:

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):

How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?		✓	
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Justin King

Project ID: KENNEDY HS
Date Received 11/19/2018
Date Reported 11/29/2018

Job Number	Order Date	Client
94892	11/19/2018	PARSNS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 32 samples with the following specification on 11/19/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94892.01	SS-40-D3.0	11/19/2018	Soil	1
94892.03	SS-38-D2.0	11/19/2018	Soil	1
94892.04	SS-38-D3.0	11/19/2018	Soil	1
94892.06	SS-39-D2.0	11/19/2018	Soil	1
94892.07	SS-39-D3.0	11/19/2018	Soil	1
94892.09	SS-37-D2.0	11/19/2018	Soil	1
94892.10	SS-37-D3.0	11/19/2018	Soil	1
94892.12	SS-36-D2.0	11/19/2018	Soil	1
94892.13	SS-36-D3.0	11/19/2018	Soil	1
94892.15	SS-35-D2.0	11/19/2018	Soil	1
94892.16	SS-35-D3.0	11/19/2018	Soil	1
94892.19	SS-41-D2.0	11/19/2018	Soil	1
94892.20	SS-41-D3.0	11/19/2018	Soil	1
94892.22	SS-31-D2.0	11/19/2018	Soil	1
94892.23	SS-31-D3.0	11/19/2018	Soil	1
94892.25	SS-32-D2.0	11/19/2018	Soil	1
94892.26	SS-32-D3.0	11/19/2018	Soil	1
94892.28	SS-18-D2.0	11/19/2018	Soil	1
94892.29	SS-18-D3.0	11/19/2018	Soil	1
94892.31	SS-17-D2.0	11/19/2018	Soil	1
94892.32	SS-17-D3.0	11/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	11/26/2018	2	Normal	--

94892.02	SS-38-D0.5	11/19/2018	Soil	1
94892.05	SS-39-D0.5	11/19/2018	Soil	1

Continued

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Ordered By

Parsons 100 West Walnut Street Pasadena, CA 91124-

Project ID: KENNEDY HS Date Received 11/19/2018 Date Reported 11/29/2018

Telephone: (626)440-6161
Attention: Justin King

Job Number	Order Date	Client
94892	11/19/2018	PARSNS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

94892.08	SS-37-D0.5	11/19/2018	Soil	1
94892.11	SS-36-D0.5	11/19/2018	Soil	1
94892.14	SS-35-D0.5	11/19/2018	Soil	1
94892.17	SS-41-D0.5	11/19/2018	Soil	1
94892.18	SS-41-D0.5D	11/19/2018	Soil	1
94892.21	SS-31-D0.5	11/19/2018	Soil	1
94892.27	SS-18-D0.5	11/19/2018	Soil	1
94892.30	SS-17-D0.5	11/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/26/2018	2	Normal	mg/Kg
(6020) ^ AS	11/26/2018	2	Normal	mg/Kg
(8081A)	11/26/2018	2	Normal	ug/Kg

94892.24	SS-32-D0.5	11/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/26/2018	2	Normal	mg/Kg
(6020) ^ AS	11/26/2018	2	Normal	mg/Kg
(8081A)	11/26/2018	2	Normal	ug/Kg
(8082)	11/26/2018	2	Normal	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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Justin King
Page: **2**

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112618EB1

Our Lab I.D.			Method Blank	94892.02	94892.05	94892.08	94892.11
Client Sample I.D.				SS-38-D0.5	SS-39-D0.5	SS-37-D0.5	SS-36-D0.5
Date Sampled				11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018
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	6.53	3.09	3.41	3.13
Chlordane (alpha)	1.0	2.0	ND	3.14	1.38J	1.47J	1.69J
4,4'-DDD (DDD)	1.0	2.0	ND	1.55J	1.10J	1.94J	ND
4,4'-DDE (DDE)	1.0	2.0	ND	5.26	6.47	202	11.9
4,4'-DDT (DDT)	1.0	2.0	ND	7.93	4.14	13.7	6.05
Dieldrin	1.0	2.0	ND	2.67	1.80J	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	3.39	1.71J	1.94J	1.44J
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	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	94892.02	94892.05	94892.08	94892.11
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		53.6	49.6	39.8	52.2	48.0
Tetrachloro-m-xylene	30-150		36.6	39.4	31.8	39.6	41.0

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112618EB1

Our Lab I.D.			94892.14	94892.17	94892.18	94892.21	94892.24
Client Sample I.D.			SS-35-D0.5	SS-41-D0.5	SS-41-D0.5D	SS-31-D0.5	SS-32-D0.5
Date Sampled			11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018
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	1.19J	ND	ND	3.47	1.26J
Chlordane (alpha)	1.0	2.0	ND	ND	ND	1.12J	ND
4,4'-DDD (DDD)	1.0	2.0	3.00	ND	ND	2.60	ND
4,4'-DDE (DDE)	1.0	2.0	10.3	2.58	5.93	145	5.90
4,4'-DDT (DDT)	1.0	2.0	9.83	ND	ND	8.92	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	2.35	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	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			94892.14	94892.17	94892.18	94892.21	94892.24
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		40.4	46.4	46.4	43.4	39.8
Tetrachloro-m-xylene	30-150		35.6	34.2	34.4	37.8	38.2

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112618EB1

Our Lab I.D.			94892.27	94892.30			
Client Sample I.D.			SS-18-D0.5	SS-17-D0.5			
Date Sampled			11/19/2018	11/19/2018			
Date Prepared			11/26/2018	11/26/2018			
Preparation Method			3550B	3550B			
Date Analyzed			11/26/2018	11/26/2018			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	1.0	2.0	ND	ND			
Chlordane (Total)	1.0	2.0	3.33	2.13			
Chlordane (alpha)	1.0	2.0	1.59J	1.09J			
4,4'-DDD (DDD)	1.0	2.0	1.32J	2.84			
4,4'-DDE (DDE)	1.0	2.0	12.6	15.1			
4,4'-DDT (DDT)	1.0	2.0	20.4	10.0			
Dieldrin	1.0	2.0	2.22	ND			
Endosulfan 1	1.0	2.0	ND	ND			
Endosulfan 11	1.0	2.0	ND	ND			
Endosulfan sulfate	1.0	2.0	ND	ND			
Endrin	1.0	2.0	ND	ND			
Endrin aldehyde	1.0	2.0	ND	ND			
Endrin ketone	1.0	2.0	ND	ND			
Chlordane (gamma)	1.0	2.0	1.74J	1.04J			
Heptachlor	1.0	2.0	ND	ND			
Heptachlor epoxide	1.0	2.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND			
Methoxychlor	5.0	10.0	ND	ND			
Toxaphene	85.0	170.0	ND	ND			

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			94892.27	94892.30			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		46.6	47.4			
Tetrachloro-m-xylene	30-150		37.8	39.4			

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

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

QC Batch No: 112618ZB1

Our Lab I.D.			Method Blank	**94892.24**			
Client Sample I.D.				SS-32-D0.5			
Date Sampled				**11/19/2018**			
Date Prepared			**11/26/2018**	**11/26/2018**			
Preparation Method			**3550B**	**3550B**			
Date Analyzed			**11/26/2018**	**11/26/2018**			
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**	**55.4**			
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	**94892.24**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	**30-150**		**89.2**	**79.2**			
Tetrachloro-m-xylene	**30-150**		**66.4**	**97.2**			

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

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

QC Batch No: 1127182C4

Our Lab I.D.			Method Blank	94892.02	94892.05	94892.08	94892.11
Client Sample I.D.				SS-38-D0.5	SS-39-D0.5	SS-37-D0.5	SS-36-D0.5
Date Sampled				11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018
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**
Lead	2.5	5.0	ND	3.50J	3.41J	14.6	10.2

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Project ID: KENNEDY HS
Project Name: Kennedy HS

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Kennedy HS-LAUSD
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AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

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

QC Batch No: 1127182C4

Our Lab I.D.			94892.14	94892.17	94892.18	94892.21	94892.24
Client Sample I.D.			SS-35-D0.5	SS-41-D0.5	SS-41-D0.5D	SS-31-D0.5	SS-32-D0.5
Date Sampled			11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018
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**
Lead	2.5	5.0	6.81	ND	ND	10.9	3.28J

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

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

QC Batch No: 1127182C4

Our Lab I.D.			94892.27	94892.30			
Client Sample I.D.			SS-18-D0.5	SS-17-D0.5			
Date Sampled			11/19/2018	11/19/2018			
Date Prepared			11/27/2018	11/27/2018			
Preparation Method			3050B	3050B			
Date Analyzed			11/28/2018	11/28/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	2.5	5.0	8.45	ND			

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C8

Our Lab I.D.			Method Blank	94892.02	94892.05	94892.08	94892.11
Client Sample I.D.				SS-38-D0.5	SS-39-D0.5	SS-37-D0.5	SS-36-D0.5
Date Sampled				11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018
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	2.52	3.38	2.03	2.73

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Kennedy HS-LAUSD
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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C8

Our Lab I.D.			94892.14	94892.17	94892.18	94892.21	94892.24
Client Sample I.D.			SS-35-D0.5	SS-41-D0.5	SS-41-D0.5D	SS-31-D0.5	SS-32-D0.5
Date Sampled			11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018
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	2.15	1.53	2.11	2.77	2.51

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C8

Our Lab I.D.			94892.27	94892.30			
Client Sample I.D.			SS-18-D0.5	SS-17-D0.5			
Date Sampled			11/19/2018	11/19/2018			
Date Prepared			11/27/2018	11/27/2018			
Preparation Method			3050B	3050B			
Date Analyzed			11/28/2018	11/28/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	1.58	1.81			

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QUALITY CONTROL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Justin King

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Page: **15**

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

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

QC Batch No: 1127182C4; Dup or Spiked Sample: 94892.02; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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
Lead	**3.50**	**50.0**	**55.0**	**103**	**50.0**	**54.0**	**101**	**2.0**	**75-125**	**<15**

QC Batch No: 1127182C4; Dup or Spiked Sample: 94892.02; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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	
Lead	**50.0**	**54.5**	**109**	**50.0**	**55.5**	**111**	**1.8**	**75-125**	**<15**	

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Attn: Justin King

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Page: **16**

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1127181C8; Dup or Spiked Sample: 94892.02; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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	**2.52**	**1.00**	**3.21 #**	**69.0**	**1.00**	**3.15 #**	**63.0**	**9.1**	**80-120**	**<15**

QC Batch No: 1127181C8; Dup or Spiked Sample: 94892.02; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/28/2018; 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	**1.00**	**0.972**	**97.2**	**1.00**	**0.927**	**92.7**	**4.7**	**80-120**	**<15**	

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112618EB1; Dup or Spiked Sample: 94892.17; LCS: Clean Sand; QC Prepared: 11/26/2018; QC Analyzed: 11/26/2018; 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	12.4	62.0	20.0	12.5	62.5	<1	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	45.1	90.2	50.0	43.9	87.8	2.7	40-150	<40
Dieldrin	0.00	50.0	37.9	75.8	50.0	37.7	75.4	<1	40-150	<40
Endrin	0.00	50.0	37.2	74.4	50.0	37.1	74.2	<1	40-150	<40
Heptachlor	0.00	20.0	13.7	68.5	20.0	12.6	63.0	8.4	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	14.1	70.5	20.0	14.5	72.5	2.8	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	25.2	50.4	50.0	23.2	46.4	8.3	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	17.3	34.6	50.0	19.3	38.6	10.9	30-150	<40

QC Batch No: 112618EB1; Dup or Spiked Sample: 94892.17; LCS: Clean Sand; QC Prepared: 11/26/2018; QC Analyzed: 11/26/2018; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aldrin	20.0	10.6	53.0	50-150						
4,4'-DDT (DDT)	50.0	37.3	74.6	50-150						
Dieldrin	50.0	35.8	71.6	50-150						
Endrin	50.0	31.3	62.6	50-150						
Heptachlor	20.0	11.2	56.0	50-150						
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	12.1	60.5	50-150						
Surrogates										
Decachlorobiphenyl	50.0	26.2	52.4	30-150						
Tetrachloro-m-xylene	50.0	16.3	32.6	30-150						

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QUALITY CONTROL RESULTS

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Page: **18**

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94892	11/19/2018	PARSNS

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

QC Batch No: 112618ZB1; Dup or Spiked Sample: 94898.02; LCS: Clean Sand; QC Prepared: 11/26/2018; QC Analyzed: 11/26/2018; 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	540	108	500	540	108	<1	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	426	85.2	500	409	81.8	4.1	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.0	96.0	25.0	20.3	81.2	16.7	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	22.5	90.0	25.0	21.5	86.0	4.5	30-150	<40

QC Batch No: 112618ZB1; Dup or Spiked Sample: 94898.02; LCS: Clean Sand; QC Prepared: 11/26/2018; QC Analyzed: 11/26/2018; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	383	76.6	50-150						
Aroclor-1260 (PCB-1260)	500	372	74.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	21.6	86.4	30-150						
Tetrachloro-m-xylene	25.0	15.8	63.2	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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Telephone: (626)440-6161
Attention: Justin King

Number of Pages	**50**
Date Received	**11/20/2018**
Date Reported	**11/30/2018**

Job Number	Order Date	Client
94925	11/20/2018	PARSNS

Project ID: KENNEDY HS
Project Name: Kennedy HS
Site: Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Enclosed please find results of analyses of 19 soil and 1 water 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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110799

AETL JOB No. 94925

Page 1 of 4

COMPANY	Parsons
PROJECT MANAGER	Justin King
COMPANY ADDRESS	100 West Walnut St Pasadena
PHONE	310-804-5793
FAX	
PROJECT NAME	Kennedy HS
PROJECT #	
SITE NAME AND ADDRESS	11254 Gothic Granada Hills
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010)	Arsenic (6020)	OCPs (8081)	PCBs (8082)	TEST INSTRUCTIONS & COMMENTS
1	SS-15-D0.5	94925.01	11-20-18	0705	SOIL	1		X	X	X		
2	SS-15-D2.0	94925.02		0715		1						Hold
3	SS-15-D3.0	94925.03		0720		1						Hold
4	SS-13-D0.5	94925.04		0728		1		X	X	X		
5	SS-13-D2.0	94925.05		0730		1						Hold
6	SS-13-D3.0	94925.06		0735		1						Hold
7	SS-16-D0.5	94925.07		0740		1		X	X	X		
8	SS-16-D2.0	94925.08		0743		1						Hold
9	SS-16-D3.0	94925.09		0745		1						Hold
10	SS-14-D0.5	94925.10		0752		1		X	X	X		
11	SS-14-D2.0	94925.11		0755		1						Hold
12	SS-14-D3.0	94925.12		0757		1						Hold
13	SS-9-D0.5	94925.13		0805		1		X	X	X	X	
14	SS-9-D2.0	94925.14		0812		1						Hold
15	SS-9-D3.0	94925.15		0816		1						Hold

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

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	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	Justin K.		
Date: / Time:	11-20-18 / 1545	/	/

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	AETL		
Printed Name:	ANT		
Date: / Time:	11/20/18 / 1545	/	/

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CHAIN OF CUSTODY RECORD

110798

COMPANY: Parsons
PROJECT MANAGER: Justin k.
COMPANY ADDRESS: 100 West Walnut St. Pasadena
PHONE: 310-809-5743
FAX:
PROJECT NAME: Kennedy HS
PROJECT #:
SITE NAME AND ADDRESS: 11254 Gothic Granada Hills
PO #:
AETL JOB No. 94925
Page 2 of 3

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010)	Arsenic (6020)	OCPs (8081)	PCBs (8082)	TEST INSTRUCTIONS & COMMENTS
1	SS-8-D0.5	94925.16	11-20-18	0822	Soil	1		X	X	X	X	
2	SS-8-D0.50	94925.17		0823		1		X	X	X	X	
3	SS-8-D2.0	94925.18		0825		1						Hold
4	SS-8-D3.0	94925.19		0836		1						Hold
5	SS-6-D0.5	94925.20		0842		1		X	X	X		
6	SS-6-D2.0	94925.21		0847		1						Hold
7	~~SS-6-D3.0~~					1						Hold
8	SS-3-D0.5	94925.22		0930		1		X	X	X		
9	SS-3-D2.0	94925.23		0935		1						Hold
10	SS-3-D3.0	94925.24		0937		1						Hold
11	SS-2-D0.5	94925.25		0953		1		X	X	X		
12	SS-2-D0.50	94925.26		0955		1		X	X	X		
13	SS-2-D2.0	94925.27		0957		1						Hold
14	SS-2-D3.0	94925.28		1005		1						Hold
15	SS-7-D0.5	94925.29		1015		1		X	X	X		

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

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Signature:			
Printed Name:	Justin k.		
Date: / Time:	11/20/18 1545		

	RECEIVED BY: AETL 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			
Printed Name:			
Date: / Time:	11/20/18 1545		

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CHAIN OF CUSTODY RECORD

110796

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 West Walnut St
PHONE / FAX: 310-809-5743
PROJECT NAME: Kennedy HS
PROJECT #:
SITE NAME AND ADDRESS: 11254 Gothic Ave, Granada Hills
PO #:
AETL JOB No. 94925
Page 3 of 4

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010)	Arsenic (6020)	OCPs (8081)	TPH (8015cc)	VOCs (8260)	TEST INSTRUCTIONS & COMMENTS
1	SS-7-D2.0	94925.30	11-20-18	1017	Soil	1							Hold
2	SS-7-D3.0	94925.31		1022		1							Hold
3	SS-1-D0.5	94925.32		1030		1		X	X	X			
4	SS-1-D2.0	94925.33		1032		1							Hold
5	SS-1-D3.0	94925.34		1035		1							Hold
6	SS-4-D0.5	94925.35		1055		1		X	X	X			
7	SS-4-D2.0	94925.36		1105		1							Hold
8	SS-4-D3.0	94925.37		1108		1							Hold
9	SS-5-D0.5	94925.38		1132		1		X	X	X			
10	SS-5-D2.0	94925.39		1138		1							Hold
11	SS-5-D3.0	94925.40		1142		1							Hold
12	SS-12-D0.5	94925.41		1225		1		X	X	X	X	X	
13	SS-12-D2.0	94925.42		1230		1							Hold
14	SS-12-D3.0	94925.43		1235		1							Hold
15	SS-11-D0.5	94925.44		1300		1		X	X	X	X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	31	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

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Signature:	Signature:	Signature:
Printed Name: Justin King	Printed Name:	Printed Name:
Date: 11-20-18 Time: 1545	Date: Time:	Date: Time:
RECEIVED BY: AETL 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name: AM	Printed Name:	Printed Name:
Date: 11/20/18 Time: 1545	Date: Time:	Date: Time:

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CHAIN OF CUSTODY RECORD

110795

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 west Walnut st Pasadena
PHONE: 310-809-5793
FAX:
PROJECT NAME: Kennedy HS
PROJECT #:
SITE NAME AND ADDRESS: 11254 Gothic Granada Hills
PO #:
AETL JOB No. 94925
Page 4 of 4

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010)	Arsenic (6020)	OCPs (8081)	TPH (8015c)	VOCs (8260B)	Title 22 metals (Cam 17/6010/7471A)	TEST INSTRUCTIONS & COMMENTS
1	SS-11-D2.0	94925.45	11-20-18	1305	Soil	9 oz								Hold
2	SS-11-D3.0	94925.46		1315										Hold
3	SS-10-D0.5	94925.47		1322				X	X	X	X	X		
4	SS-10-D0.5D	94925.48		1327				X	X	X	X	X		
5	SS-10-D2.0	94925.49		1335										Hold
6	SS-10-D3.0	94925.50		1340										Hold
7	IDW	94925.51		1430	Water	various	various			X	X	X	X	
8														
9														
10														
11														
12														
13														
14														
15														

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	38	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

- [x] NORMAL
- [ ] RUSH
  - [ ] SAME DAY
  - [ ] NEXT DAY
  - [ ] 2 DAYS
  - [ ] 3 DAYS

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Printed Name:	Justin King		
Date / Time:	11/20/18 1545		
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	AETL		
Printed Name:	AM		
Date / Time:	11/21/18 1545		

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COOLER RECEIPT FORM

Client Name: Parson
Project Name:
AETL Job Number: 94925
Date Received: 11/20/18 Received by: Justin
Carrier: ☐ AETL Courier ☑ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☑ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3', No 2: 3.4 , No 3: ____
Type of sample containers: ☑ VOA, ☑ Glass bottles, ☑ Wide mouth jars, ☑ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): ____
How are samples preserved: ☐ None, ☐ Ice , ☑ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, ✓ HCl, ✓ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?		✓	
11. Are the jars free of headspace?		✓	

Explain all "No" answers for above questions:

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Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Justin King

Project ID: KENNEDY HS
Date Received 11/20/2018
Date Reported 11/30/2018

Job Number	Order Date	Client
94925	11/20/2018	PARSNS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 51 samples with the following specification on 11/20/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94925.51	IDW	11/20/2018	Aqueous	32

Method ^ Submethod	Req Date	Priority	TAT	Units
6010/7000CAM	11/27/2018	2	Normal	mg/L
8081A	11/27/2018	2	Normal	ug/L
8260B	11/27/2018	2	Normal	ug/L
M8015D ^ C13-C40	11/27/2018	2	Normal	mg/L
M8015G	11/27/2018	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94925.01	SS-15-D0.5	11/20/2018	Soil	1
94925.04	SS-13-D0.5	11/20/2018	Soil	1
94925.07	SS-16-D0.5	11/20/2018	Soil	1
94925.10	SS-14-D0.5	11/20/2018	Soil	1
94925.20	SS-6-D0.5	11/20/2018	Soil	1
94925.22	SS-3-D0.5	11/20/2018	Soil	1
94925.25	SS-2-D0.5	11/20/2018	Soil	1
94925.26	SS-2-D0.5D	11/20/2018	Soil	1
94925.29	SS-7-D0.5	11/20/2018	Soil	1
94925.32	SS-1-D0.5	11/20/2018	Soil	1
94925.35	SS-4-D0.5	11/20/2018	Soil	1
94925.38	SS-5-D0.5	11/20/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/27/2018	2	Normal	mg/Kg
(6020) ^ AS	11/27/2018	2	Normal	mg/Kg
(8081A)	11/27/2018	2	Normal	ug/Kg

94925.02	SS-15-D2.0	11/20/2018	Soil	1

Continued

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Telephone: (626)440-6161
Attention: Justin King

Project ID: KENNEDY HS
Date Received 11/20/2018
Date Reported 11/30/2018

Job Number	Order Date	Client
94925	11/20/2018	PARSNS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

94925.03	SS-15-D3.0	11/20/2018	Soil	1
94925.05	SS-13-D2.0	11/20/2018	Soil	1
94925.06	SS-13-D3.0	11/20/2018	Soil	1
94925.08	SS-16-D2.0	11/20/2018	Soil	1
94925.09	SS-16-D3.0	11/20/2018	Soil	1
94925.11	SS-14-D2.0	11/20/2018	Soil	1
94925.12	SS-14-D3.0	11/20/2018	Soil	1
94925.14	SS-9-D2.0	11/20/2018	Soil	1
94925.15	SS-9-D3.0	11/20/2018	Soil	1
94925.18	SS-8-D2.0	11/20/2018	Soil	1
94925.19	SS-8-D3.0	11/20/2018	Soil	1
94925.21	SS-6-D2.0	11/20/2018	Soil	1
94925.23	SS-3-D2.0	11/20/2018	Soil	1
94925.24	SS-3-D3.0	11/20/2018	Soil	1
94925.27	SS-2-D2.0	11/20/2018	Soil	1
94925.28	SS-2-D3.0	11/20/2018	Soil	1
94925.30	SS-7-D2.0	11/20/2018	Soil	1
94925.31	SS-7-D3.0	11/20/2018	Soil	1
94925.33	SS-1-D2.0	11/20/2018	Soil	1
94925.34	SS-1-D3.0	11/20/2018	Soil	1
94925.36	SS-4-D2.0	11/20/2018	Soil	1
94925.37	SS-4-D3.0	11/20/2018	Soil	1
94925.39	SS-5-D2.0	11/20/2018	Soil	1
94925.40	SS-5-D3.0	11/20/2018	Soil	1
94925.42	SS-12-D2.0	11/20/2018	Soil	1
94925.43	SS-12-D3.0	11/20/2018	Soil	1
94925.45	SS-11-D2.0	11/20/2018	Soil	1
94925.46	SS-11-D3.0	11/20/2018	Soil	1
94925.49	SS-10-D2.0	11/20/2018	Soil	1

Continued

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Ordered By

Parsons 100 West Walnut Street Pasadena, CA 91124-

Project ID: KENNEDY HS Date Received 11/20/2018 Date Reported 11/30/2018

Telephone: (626)440-6161
Attention: Justin King

Job Number	Order Date	Client
94925	11/20/2018	PARSNS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

94925.50	SS-10-D3.0	11/20/2018	Soil		1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	11/27/2018	2	Normal	--

94925.13	SS-9-D0.5	11/20/2018	Soil		1
94925.16	SS-8-D0.5	11/20/2018	Soil		1
94925.17	SS-8-D0.5D	11/20/2018	Soil		1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/27/2018	2	Normal	mg/Kg
(6020) ^ AS	11/27/2018	2	Normal	mg/Kg
(8081A)	11/27/2018	2	Normal	ug/Kg
(8082)	11/27/2018	2	Normal	ug/Kg

94925.41	SS-12-D0.5	11/20/2018	Soil		1
94925.44	SS-11-D0.5	11/20/2018	Soil		1
94925.47	SS-10-D0.5	11/20/2018	Soil		1
94925.48	SS-10-D0.5D	11/20/2018	Soil		1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/27/2018	2	Normal	mg/Kg
(6020) ^ AS	11/27/2018	2	Normal	mg/Kg
(8081A)	11/27/2018	2	Normal	ug/Kg
(8260B)	11/27/2018	2	Normal	ug/Kg
(M8015D) ^ C13-C40	11/27/2018	2	Normal	mg/Kg
(M8015G)	11/27/2018	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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Justin King
Page: **2**

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1127182A1

Our Lab I.D.			Method Blank	94925.41	94925.44	94925.47	94925.48
Client Sample I.D.				SS-12-D0.5	SS-11-D0.5	SS-10-D0.5	SS-10-D0.5D
Date Sampled				11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/27/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Preparation Method			5030	5035A	5035A	5035A	5035A
Date Analyzed			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
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**
Acetone	25	50	ND	ND	ND	ND	ND
Benzene	1.0	10.0	ND	ND	ND	1.52J	1.57J
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND	ND	ND	ND
Bromochloromethane	5.0	10.0	ND	ND	ND	ND	ND
Bromodichloromethane	5.0	10.0	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	25	50	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	15	30	ND	ND	ND	ND	ND
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND
n-Butylbenzene	5.0	10.0	ND	ND	ND	ND	ND
sec-Butylbenzene	5.0	10.0	ND	ND	ND	ND	ND
tert-Butylbenzene	5.0	10.0	ND	ND	ND	ND	ND
Carbon Disulfide	25	50	ND	ND	ND	ND	ND
Carbon tetrachloride	5.0	10.0	ND	ND	ND	ND	ND
Chlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
Chloroethane	15	30	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	50	50	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	5.0	10.0	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	15	30	ND	ND	ND	ND	ND
2-Chlorotoluene	5.0	10.0	ND	ND	ND	ND	ND
4-Chlorotoluene	5.0	10.0	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	5.0	10.0	ND	ND	ND	ND	ND
Dibromochloromethane	5.0	10.0	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND	ND	ND	ND
Dibromomethane	5.0	10.0	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
Dichlorodifluoromethane	15	30	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1127182A1

Our Lab I.D.			Method Blank	94925.41	94925.44	94925.47	94925.48
Client Sample I.D.				SS-12-D0.5	SS-11-D0.5	SS-10-D0.5	SS-10-D0.5D
Date Sampled				11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/27/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Preparation Method			5030	5035A	5035A	5035A	5035A
Date Analyzed			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
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**
1,1-Dichloroethane	5.0	10.0	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND	ND	ND	ND
1,1-Dichloroethene	5.0	10.0	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.0	10.0	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.0	10.0	ND	ND	ND	ND	ND
1,2-Dichloropropane	5.0	10.0	ND	ND	ND	ND	ND
1,3-Dichloropropane	5.0	10.0	ND	ND	ND	ND	ND
2,2-Dichloropropane	5.0	10.0	ND	ND	ND	ND	ND
1,1-Dichloropropene	5.0	10.0	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5.0	10.0	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5.0	10.0	ND	ND	ND	ND	ND
Ethylbenzene	1.0	10.0	ND	ND	ND	ND	ND
Hexachlorobutadiene	15	30	ND	ND	ND	ND	ND
2-Hexanone	25	50	ND	ND	ND	ND	ND
Iodomethane	5.0	10.0	ND	ND	ND	ND	ND
Isopropylbenzene	5.0	10.0	ND	ND	ND	ND	ND
p-Isopropyltoluene	5.0	10.0	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND	ND	ND	ND
Methylene chloride (DCM)	25	50	ND	ND	ND	ND	ND
Naphthalene	5.0	10.0	ND	ND	ND	ND	ND
n-Propylbenzene	5.0	10.0	ND	ND	ND	ND	ND
Styrene	5.0	10.0	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND	ND	ND	ND
Tetrachloroethene	2.0	10.0	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	1.0	10.0	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5.0	10.0	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5.0	10.0	ND	ND	ND	ND	ND
Trichloroethene	1.5	10.0	ND	ND	ND	ND	ND
Trichlorofluoromethane	5.0	10.0	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	1.0	5.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1127182A1

Our Lab I.D.			Method Blank	94925.41	94925.44	94925.47	94925.48
Client Sample I.D.				SS-12-D0.5	SS-11-D0.5	SS-10-D0.5	SS-10-D0.5D
Date Sampled				11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/27/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Preparation Method			5030	5035A	5035A	5035A	5035A
Date Analyzed			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
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**
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND	ND	ND	ND
Vinyl Acetate	25	50	ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	5.0	10.0	ND	ND	ND	ND	ND
o-Xylene	1.0	10.0	ND	ND	ND	ND	ND
m,p-Xylenes	1.0	20.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	94925.41	94925.44	94925.47	94925.48
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125		93.8	99.7	96.7	99.4	97.6
Dibromofluoromethane	75-125		76.8	82.9	80.7	82.0	82.6
Toluene-d8	75-125		104	107	105	105	104

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ANALYTICAL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Justin King
Page: **5**

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 112618OB2

Our Lab I.D.			Method Blank	94925.41	94925.44	94925.47	94925.48
Client Sample I.D.				SS-12-D0.5	SS-11-D0.5	SS-10-D0.5	SS-10-D0.5D
Date Sampled				11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/26/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Preparation Method			5030	5035A	5035A	5035A	5035A
Date Analyzed			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
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	94925.41	94925.44	94925.47	94925.48
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		99.6	105	105	112	108

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ANALYTICAL RESULTS

Ordered By

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Attn: Justin King
Page: **6**

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 112718PB1

Our Lab I.D.			Method Blank	94925.41	94925.44	94925.47	94925.48
Client Sample I.D.				SS-12-D0.5	SS-11-D0.5	SS-10-D0.5	SS-10-D0.5D
Date Sampled				11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
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 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	94925.41	94925.44	94925.47	94925.48
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		95.9	107	99.0	104	96.7

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112618EB1

Our Lab I.D.			Method Blank	94925.01	94925.04	94925.07	94925.10
Client Sample I.D.				SS-15-D0.5	SS-13-D0.5	SS-16-D0.5	SS-14-D0.5
Date Sampled				11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
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	3.92	27.0	ND	5.69
Chlordane (alpha)	1.0	2.0	ND	2.59	13.3	ND	3.14
4,4'-DDD (DDD)	1.0	2.0	ND	1.17J	1.58J	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	5.53	9.74	ND	1.88J
4,4'-DDT (DDT)	1.0	2.0	ND	7.63	6.88	1.26J	2.82
Dieldrin	1.0	2.0	ND	2.38	3.70	ND	1.46J
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	1.33J	13.7	ND	2.55
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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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	94925.01	94925.04	94925.07	94925.10
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		104	103	56.4	88.0	94.8
Tetrachloro-m-xylene	30-150		82.4	94.4	51.2	66.0	70.4

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112618EB1

Our Lab I.D.			94925.13	94925.16	94925.17	94925.20	94925.22
Client Sample I.D.			SS-9-D0.5	SS-8-D0.5	SS-8-D0.5D	SS-6-D0.5	SS-3-D0.5
Date Sampled			11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
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	2.62	10.4	4.19	4.40	1.72J
Chlordane (alpha)	1.0	2.0	1.68J	3.82	1.84J	2.28	ND
4,4'-DDD (DDD)	1.0	2.0	3.34	8.30	2.70	3.93	1.56J
4,4'-DDE (DDE)	1.0	2.0	35.1	4,110	2,650	45.1	28.4
4,4'-DDT (DDT)	1.0	2.0	15.9	18.5	9.16	7.30	4.66
Dieldrin	1.0	2.0	1.90J	6.49	ND	10.5	2.17
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	6.55	2.35	2.12	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

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			94925.13	94925.16	94925.17	94925.20	94925.22
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		96.8	121	76.8	108	87.6
Tetrachloro-m-xylene	30-150		74.8	61.6	72.4	83.6	72.8

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Project ID: KENNEDY HS
Project Name: Kennedy HS

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112618EB1

Our Lab I.D.			94925.25	94925.26	94925.29	94925.32	94925.35
Client Sample I.D.			SS-2-D0.5	SS-2-D0.5D	SS-7-D0.5	SS-1-D0.5	SS-4-D0.5
Date Sampled			11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
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	2.01	1.41J	2.13	ND	32.2
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	15.8
4,4'-DDD (DDD)	1.0	2.0	2.58	1.06J	ND	ND	8.13
4,4'-DDE (DDE)	1.0	2.0	27.4	13.9	2.02	4.08	95.0
4,4'-DDT (DDT)	1.0	2.0	7.26	2.26	ND	ND	44.6
Dieldrin	1.0	2.0	1.86J	ND	1.53J	ND	10.2
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	1.22J	ND	1.28J	ND	16.4
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

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			94925.25	94925.26	94925.29	94925.32	94925.35
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		88.4	86.4	94.4	94.0	90.0
Tetrachloro-m-xylene	30-150		79.6	57.2	83.2	90.4	87.2

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Project ID: KENNEDY HS
Project Name: Kennedy HS

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112618EB1

Our Lab I.D.			94925.38	94925.41	94925.44	94925.47	94925.48
Client Sample I.D.			SS-5-D0.5	SS-12-D0.5	SS-11-D0.5	SS-10-D0.5	SS-10-D0.5D
Date Sampled			11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
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	6.55	6.23	2.52	ND	ND
Chlordane (alpha)	1.0	2.0	2.66	2.90	1.26J	ND	ND
4,4'-DDD (DDD)	1.0	2.0	4.62	5.18	1.80J	ND	ND
4,4'-DDE (DDE)	1.0	2.0	38.9	38.2	33.3	2.42	6.07
4,4'-DDT (DDT)	1.0	2.0	ND	20.9	4.26	2.00	3.25
Dieldrin	1.0	2.0	7.64	7.31	4.42	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	3.89	3.33	1.26J	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

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			94925.38	94925.41	94925.44	94925.47	94925.48
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		99.6	96.8	95.2	82.8	150
Tetrachloro-m-xylene	30-150		88.0	84.0	88.8	66.8	133

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Project ID: KENNEDY HS
Project Name: Kennedy HS

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 112718ZB1

Our Lab I.D.			Method Blank	94925.13	94925.16	94925.17	
Client Sample I.D.				SS-9-D0.5	SS-8-D0.5	SS-8-D0.5D	
Date Sampled				11/20/2018	11/20/2018	11/20/2018	
Date Prepared			11/27/2018	11/27/2018	11/27/2018	11/27/2018	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			11/27/2018	11/27/2018	11/27/2018	11/27/2018	
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**	
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	94925.13	94925.16	94925.17	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Decachlorobiphenyl	30-150		86.4	83.6	109	69.2	
Tetrachloro-m-xylene	30-150		89.6	79.6	81.2	67.2	

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Site

Kennedy HS-LAUSD
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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 1129182C5

Our Lab I.D.			Method Blank	94925.01	94925.04	94925.07	94925.10
Client Sample I.D.				SS-15-D0.5	SS-13-D0.5	SS-16-D0.5	SS-14-D0.5
Date Sampled				11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/30/2018	11/30/2018	11/30/2018	11/30/2018	11/30/2018
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**
Lead	2.5	5.0	ND	6.74	4.38J	5.26	3.94J

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ANALYTICAL RESULTS

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Project ID: KENNEDY HS
Project Name: Kennedy HS

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 1129182C5

Our Lab I.D.			94925.13	94925.16	94925.17	94925.20	94925.22
Client Sample I.D.			SS-9-D0.5	SS-8-D0.5	SS-8-D0.5D	SS-6-D0.5	SS-3-D0.5
Date Sampled			11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/30/2018	11/30/2018	11/30/2018	11/30/2018	11/30/2018
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**
Lead	2.5	5.0	5.85	81.6	55.0	8.76	5.21

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 1129182C5

Our Lab I.D.			94925.25				
Client Sample I.D.			SS-2-D0.5				
Date Sampled			11/20/2018				
Date Prepared			11/29/2018				
Preparation Method			3050B				
Date Analyzed			11/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.5	5.0	5.02				

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Project ID: KENNEDY HS
Project Name: Kennedy HS

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AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 1129182C6

Our Lab I.D.			Method Blank	94925.26	94925.29	94925.32	94925.35
Client Sample I.D.				SS-2-D0.5D	SS-7-D0.5	SS-1-D0.5	SS-4-D0.5
Date Sampled				11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/30/2018	11/30/2018	11/30/2018	11/30/2018	11/30/2018
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**
Lead	2.5	5.0	ND	5.36	4.17J	7.09	3.63J

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Project ID: KENNEDY HS
Project Name: Kennedy HS

Site

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AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 1129182C6

Our Lab I.D.			94925.38	94925.41	94925.44	94925.47	94925.48
Client Sample I.D.			SS-5-D0.5	SS-12-D0.5	SS-11-D0.5	SS-10-D0.5	SS-10-D0.5D
Date Sampled			11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/30/2018	11/30/2018	11/30/2018	11/30/2018	11/30/2018
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**
Lead	2.5	5.0	6.00	9.77	4.62J	3.25J	2.63J

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1129181C1

Our Lab I.D.			Method Blank	94925.01	94925.04	94925.07	94925.10
Client Sample I.D.				SS-15-D0.5	SS-13-D0.5	SS-16-D0.5	SS-14-D0.5
Date Sampled				11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/30/2018	11/30/2018	11/30/2018	11/30/2018	11/30/2018
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	2.39	1.99	3.07	2.18

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1129181C1

Our Lab I.D.			94925.13	94925.16	94925.17	94925.20	94925.22
Client Sample I.D.			SS-9-D0.5	SS-8-D0.5	SS-8-D0.5D	SS-6-D0.5	SS-3-D0.5
Date Sampled			11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/30/2018	11/30/2018	11/30/2018	11/30/2018	11/30/2018
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	2.35	3.93	4.16	2.65	2.02

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Kennedy HS-LAUSD
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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1129181C1

Our Lab I.D.			94925.25				
Client Sample I.D.			SS-2-D0.5				
Date Sampled			11/20/2018				
Date Prepared			11/29/2018				
Preparation Method			3050B				
Date Analyzed			11/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.46				

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Project ID: KENNEDY HS
Project Name: Kennedy HS

Site

Kennedy HS-LAUSD
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AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1129181C2

Our Lab I.D.			Method Blank	94925.26	94925.29	94925.32	94925.35
Client Sample I.D.				SS-2-D0.5D	SS-7-D0.5	SS-1-D0.5	SS-4-D0.5
Date Sampled				11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/30/2018	11/30/2018	11/30/2018	11/30/2018	11/30/2018
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	2.11	1.52	1.74	2.04

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1129181C2

Our Lab I.D.			94925.38	94925.41	94925.44	94925.47	94925.48
Client Sample I.D.			SS-5-D0.5	SS-12-D0.5	SS-11-D0.5	SS-10-D0.5	SS-10-D0.5D
Date Sampled			11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Date Prepared			11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/30/2018	11/30/2018	11/30/2018	11/30/2018	11/30/2018
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	1.88	1.69	1.51	1.55	1.09

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1126181A1

Our Lab I.D.			Method Blank	94925.51			
Client Sample I.D.				IDW			
Date Sampled				11/20/2018			
Date Prepared			11/26/2018	11/20/2018			
Preparation Method			5030B	5030B			
Date Analyzed			11/26/2018	11/26/2018			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	10	10	ND	ND			
Benzene	0.5	1.0	ND	ND			
Bromobenzene (Phenyl bromide)	0.5	1.0	ND	ND			
Bromochloromethane	0.5	1.0	ND	ND			
Bromodichloromethane	0.5	1.0	ND	ND			
Bromoform (Tribromomethane)	2.5	5.0	ND	ND			
Bromomethane (Methyl bromide)	1.5	3.0	ND	ND			
2-Butanone (MEK)	5.0	5.0	ND	ND			
n-Butylbenzene	0.5	1.0	ND	ND			
sec-Butylbenzene	0.5	1.0	ND	ND			
tert-Butylbenzene	0.5	1.0	ND	ND			
Carbon Disulfide	0.5	1.0	ND	ND			
Carbon tetrachloride	0.5	1.0	ND	ND			
Chlorobenzene	0.5	1.0	ND	ND			
Chloroethane	1.5	3.0	ND	ND			
2-Chloroethyl vinyl ether	2.5	5.0	ND	ND			
Chloroform (Trichloromethane)	0.5	1.0	ND	ND			
Chloromethane (Methyl chloride)	1.5	3.0	ND	ND			
2-Chlorotoluene	0.5	1.0	ND	ND			
4-Chlorotoluene	0.5	1.0	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	2.5	5.0	ND	ND			
Dibromochloromethane	0.5	1.0	ND	ND			
1,2-Dibromoethane (EDB)	0.5	1.0	ND	ND			
Dibromomethane	0.5	1.0	ND	ND			
1,2-Dichlorobenzene	0.5	1.0	ND	ND			
1,3-Dichlorobenzene	0.5	1.0	ND	ND			
1,4-Dichlorobenzene	0.5	1.0	ND	ND			
Dichlorodifluoromethane	1.5	3.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1126181A1

Our Lab I.D.			Method Blank	94925.51			
Client Sample I.D.				IDW			
Date Sampled				11/20/2018			
Date Prepared			11/26/2018	11/20/2018			
Preparation Method			5030B	5030B			
Date Analyzed			11/26/2018	11/26/2018			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,1-Dichloroethane	0.5	1.0	ND	ND			
1,2-Dichloroethane (EDC)	0.5	1.0	ND	ND			
1,1-Dichloroethene	0.5	1.0	ND	ND			
cis-1,2-Dichloroethene	0.5	1.0	ND	ND			
trans-1,2-Dichloroethene	0.5	1.0	ND	ND			
1,2-Dichloropropane	0.5	1.0	ND	ND			
1,3-Dichloropropane	0.5	1.0	ND	ND			
2,2-Dichloropropane	0.5	1.0	ND	ND			
1,1-Dichloropropene	0.5	1.0	ND	ND			
cis-1,3-Dichloropropene	0.5	1.0	ND	ND			
trans-1,3-Dichloropropene	0.5	1.0	ND	ND			
Ethylbenzene	0.5	1.0	ND	ND			
Hexachlorobutadiene	1.5	3.0	ND	ND			
2-Hexanone	2.5	5.0	ND	ND			
Iodomethane	0.5	1.0	ND	ND			
Isopropylbenzene	0.5	1.0	ND	ND			
p-Isopropyltoluene	0.5	1.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	2.5	5.0	ND	ND			
Methyl-tert-butyl ether (MTBE)	0.5	1.0	ND	ND			
Methylene chloride (DCM)	2.0	4.0	ND	ND			
Naphthalene	0.5	1.0	ND	ND			
n-Propylbenzene	0.5	1.0	ND	ND			
Styrene	0.5	1.0	ND	ND			
1,1,1,2-Tetrachloroethane	0.5	1.0	ND	ND			
1,1,2,2-Tetrachloroethane	0.5	1.0	ND	ND			
Tetrachloroethene	0.5	1.0	ND	ND			
Toluene (Methyl benzene)	0.5	1.0	ND	ND			
1,2,3-Trichlorobenzene	0.5	1.0	ND	ND			
1,2,4-Trichlorobenzene	0.5	1.0	ND	ND			
1,1,1-Trichloroethane	0.5	1.0	ND	ND			
1,1,2-Trichloroethane	0.5	1.0	ND	ND			
Trichloroethene	0.5	1.0	ND	ND			
Trichlorofluoromethane	0.5	1.0	ND	ND			
1,2,3-Trichloropropane	0.5	1.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1126181A1

Our Lab I.D.			Method Blank	**94925.51**			
Client Sample I.D.				IDW			
Date Sampled				**11/20/2018**			
Date Prepared			**11/26/2018**	**11/20/2018**			
Preparation Method			**5030B**	**5030B**			
Date Analyzed			**11/26/2018**	**11/26/2018**			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Trichlorotrifluoroethane (Freon-113)	**0.5**	**1.0**	**ND**	**ND**			
1,2,4-Trimethylbenzene	**0.5**	**1.0**	**ND**	**ND**			
1,3,5-Trimethylbenzene	**0.5**	**1.0**	**ND**	**ND**			
Vinyl Acetate	**0.5**	**5.0**	**ND**	**ND**			
Vinyl chloride (Chloroethene)	**0.5**	**3.0**	**ND**	**ND**			
o-Xylene	**0.5**	**1.0**	**ND**	**ND**			
m,p-Xylenes	**1.0**	**2.0**	**ND**	**ND**			
Our Lab I.D.			Method Blank	**94925.51**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	**75-125**		**98.8**	**96.4**			
Dibromofluoromethane	**75-125**		**102**	**106**			
Toluene-d8	**75-125**		**112**	**112**			

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: M8015G, TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 112618NB1

Our Lab I.D.			Method Blank	**94925.51**			
Client Sample I.D.				IDW			
Date Sampled				**11/20/2018**			
Date Prepared			**11/26/2018**	**11/20/2018**			
Preparation Method			**5030**	**5030B**			
Date Analyzed			**11/26/2018**	**11/27/2018**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Gasoline and Light HC. (C4-C12)	**0.005**	**0.010**	**ND**	**ND**			
Our Lab I.D.			Method Blank	**94925.51**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	**75-125**		**108**	**104**			

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: M8015D, TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 112718DB1

Our Lab I.D.			Method Blank	**94925.51**			
Client Sample I.D.				IDW			
Date Sampled				**11/20/2018**			
Date Prepared			**11/27/2018**	**11/27/2018**			
Preparation Method			**3510C**	**3510C**			
Date Analyzed			**11/27/2018**	**11/27/2018**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	**0.1**	**0.5**	**ND**	**1.15**			
TPH as Heavy Hydrocarbons (C23-C40)	**0.1**	**0.5**	**ND**	**0.601**			
TPH Total as Diesel and Heavy HC.C13-C40	**0.1**	**0.5**	**ND**	**1.75**			
Our Lab I.D.			Method Blank	**94925.51**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	**60-125**		**90.5**	**106**			

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ANALYTICAL RESULTS

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 8081A, Organochlorine Pesticides by GC/ECD

QC Batch No: 112718EB1

Our Lab I.D.			Method Blank	94925.51			
Client Sample I.D.				IDW			
Date Sampled				11/20/2018			
Date Prepared			11/27/2018	11/27/2018			
Preparation Method			3550B	3550B			
Date Analyzed			11/27/2018	11/27/2018			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	0.05	0.10	ND	ND			
Chlordane (Total)	0.50	1.00	ND	ND			
Chlordane (alpha)	0.05	0.10	ND	ND			
4,4'-DDD (DDD)	0.10	0.20	ND	ND			
4,4'-DDE (DDE)	0.10	0.20	ND	ND			
4,4'-DDT (DDT)	0.10	0.20	ND	ND			
Dieldrin	0.10	0.20	ND	ND			
Endosulfan 1	0.05	0.10	ND	ND			
Endosulfan 11	0.10	0.20	ND	ND			
Endosulfan sulfate	0.10	0.20	ND	ND			
Endrin	0.10	0.20	ND	ND			
Endrin aldehyde	0.10	0.20	ND	ND			
Endrin ketone	0.10	0.20	ND	ND			
Chlordane (gamma)	0.05	0.10	ND	ND			
Heptachlor	0.05	0.10	ND	ND			
Heptachlor epoxide	0.05	0.10	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	0.05	0.10	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	0.05	0.10	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	0.05	0.10	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.05	0.10	ND	ND			
Methoxychlor	0.50	1.00	ND	ND			
Toxaphene	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 8081A, Organochlorine Pesticides by GC/ECD

Our Lab I.D.			Method Blank	**94925.51**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	**30-150**		**94.4**	**52.6**			
Tetrachloro-m-xylene	**30-150**		**68.2**	**61.2**			

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Site

Kennedy HS-LAUSD
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Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 1126182C2

Our Lab I.D.			Method Blank	94925.51			
Client Sample I.D.				IDW			
Date Sampled				11/20/2018			
Date Prepared			11/26/2018	11/26/2018			
Preparation Method			200.2	200.2			
Date Analyzed			11/27/2018	11/27/2018			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	0.05	0.10	ND	ND			
Arsenic	0.05	0.10	ND	ND			
Barium	0.03	0.05	ND	0.561			
Beryllium	0.01	0.05	ND	ND			
Cadmium	0.01	0.05	ND	ND			
Chromium	0.01	0.05	ND	0.187			
Cobalt	0.01	0.05	ND	0.0640			
Copper	0.01	0.05	ND	0.131			
Lead	0.05	0.10	ND	0.0564J			
Mercury (By EPA 7470)	0.001	0.002	ND	ND			
Molybdenum	0.01	0.05	ND	0.0109J			
Nickel	0.01	0.05	ND	0.153			
Selenium	0.05	0.10	ND	ND			
Silver	0.01	0.05	ND	ND			
Thallium	0.05	0.10	ND	ND			
Vanadium	0.03	0.05	ND	0.259			
Zinc	0.01	0.05	ND	0.430			

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QUALITY CONTROL RESULTS

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 1126182C2; Dup or Spiked Sample: 94882.02; LCS: Clean Water; QC Prepared: 11/26/2018; QC Analyzed: 11/27/2018; Units: mg/L

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
Antimony	0.00	1.00	0.966	96.6	1.00	0.966	96.6	<1	75-125	<15
Arsenic	0.00	1.00	0.979	97.9	1.00	1.00	100	2.1	75-125	<15
Barium	0.0803	1.00	0.968	88.8	1.00	0.963	88.3	<1	75-125	<15
Beryllium	0.00	1.00	0.959	95.9	1.00	0.947	94.7	1.3	75-125	<15
Cadmium	0.00	1.00	0.950	95.0	1.00	0.949	94.9	<1	75-125	<15
Chromium	0.00	1.00	0.941	94.1	1.00	0.939	93.9	<1	75-125	<15
Cobalt	0.00	1.00	0.914	91.4	1.00	0.911	91.1	<1	75-125	<15
Copper	0.125	1.00	1.10	97.5	1.00	1.09	96.5	1.0	75-125	<15
Lead	0.00	1.00	0.839	83.9	1.00	0.846	84.6	<1	75-125	<15
Mercury (By EPA 7470)	0.0380	0.0100	0.0480	100	0.0100	0.0480	99.5	<1	75-125	<15
Molybdenum	0.00	1.00	0.907	90.7	1.00	0.915	91.5	<1	75-125	<15
Nickel	0.00	1.00	0.885	88.5	1.00	0.926	92.6	4.5	75-125	<15
Selenium	0.00	1.00	0.940	94.0	1.00	0.954	95.4	1.5	75-125	<15
Silver	0.00	1.00	0.952	95.2	1.00	0.947	94.7	<1	75-125	<15
Thallium	0.00	1.00	0.833	83.3	1.00	0.832	83.2	<1	75-125	<15
Vanadium	0.00	1.00	0.976	97.6	1.00	0.971	97.1	<1	75-125	<15
Zinc	0.141	1.00	1.05	90.9	1.00	1.10	95.9	5.4	75-125	<15

QC Batch No: 1126182C2; Dup or Spiked Sample: 94882.02; LCS: Clean Water; QC Prepared: 11/26/2018; QC Analyzed: 11/27/2018; Units: mg/L

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	
Antimony	1.00	0.939	93.9	1.00	0.954	95.4	1.6	75-125	<15	
Arsenic	1.00	0.967	96.7	1.00	0.977	97.7	1.0	75-125	<15	
Barium	1.00	0.910	91.0	1.00	0.922	92.2	1.3	75-125	<15	
Beryllium	1.00	0.945	94.5	1.00	0.942	94.2	<1	75-125	<15	
Cadmium	1.00	0.981	98.1	1.00	0.985	98.5	<1	75-125	<15	
Chromium	1.00	0.935	93.5	1.00	0.942	94.2	<1	75-125	<15	
Cobalt	1.00	0.906	90.6	1.00	0.909	90.9	<1	75-125	<15	
Copper	1.00	0.924	92.4	1.00	0.939	93.9	1.6	75-125	<15	
Lead	1.00	0.874	87.4	1.00	0.881	88.1	<1	75-125	<15	
Mercury (By EPA 7470)	0.0100	0.00992	99.2	0.0100	0.0100	100	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 1126182C2; Dup or Spiked Sample: 94882.02; LCS: Clean Water; QC Prepared: 11/26/2018; QC Analyzed: 11/27/2018; Units: mg/L

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	
Molybdenum	**1.00**	**0.919**	**91.9**	**1.00**	**0.919**	**91.9**	**<1**	**75-125**	**<15**	
Nickel	**1.00**	**0.912**	**91.2**	**1.00**	**0.915**	**91.5**	**<1**	**75-125**	**<15**	
Selenium	**1.00**	**0.961**	**96.1**	**1.00**	**0.982**	**98.2**	**2.2**	**75-125**	**<15**	
Silver	**1.00**	**0.957**	**95.7**	**1.00**	**0.971**	**97.1**	**1.5**	**75-125**	**<15**	
Thallium	**1.00**	**0.874**	**87.4**	**1.00**	**0.879**	**87.9**	**<1**	**75-125**	**<15**	
Vanadium	**1.00**	**0.969**	**96.9**	**1.00**	**0.982**	**98.2**	**1.3**	**75-125**	**<15**	
Zinc	**1.00**	**1.04**	**104**	**1.00**	**1.05**	**105**	**<1**	**75-125**	**<15**	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 8081A, Organochlorine Pesticides by GC/ECD

QC Batch No: 112718EB1; Dup or Spiked Sample: 1127; LCS: Clean Water; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; Units: ug/L

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	0.400	0.404	101	0.400	0.404	101	<1	40-140	<40
4,4'-DDT (DDT)	0.00	1.00	0.839	83.9	1.00	0.921	92.1	9.3	40-140	<40
Dieldrin	0.00	1.00	1.04	104	1.00	1.06	106	1.9	40-140	<40
Endrin	0.00	1.00	0.772	77.2	1.00	0.839	83.9	8.3	40-140	<40
Heptachlor	0.00	0.400	0.287	71.8	0.400	0.293	73.3	2.1	40-140	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	0.400	0.380	95.0	0.400	0.412	103	8.1	40-140	<40
Surrogates										
Decachlorobiphenyl	0.00	0.500	0.444	88.8	0.500	0.462	92.4	4.0	30-150	<20
Tetrachloro-m-xylene	0.00	0.500	0.399	79.8	0.500	0.391	78.2	2.0	30-150	<20

QC Batch No: 112718EB1; Dup or Spiked Sample: 1127; LCS: Clean Water; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aldrin	0.400	0.373	93.3	40-140						
4,4'-DDT (DDT)	1.00	0.871	87.1	40-140						
Dieldrin	1.00	0.986	98.6	40-140						
Endrin	1.00	0.774	77.4	40-140						
Heptachlor	0.400	0.266	66.5	40-140						
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.400	0.347	86.8	40-140						
Surrogates										
Decachlorobiphenyl	0.500	0.457	91.4	30-150						
Tetrachloro-m-xylene	0.500	0.335	67.0	30-150						

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QUALITY CONTROL RESULTS

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1126181A1; Dup or Spiked Sample: B1126181A1; LCS: Clean Water; QC Prepared: 11/26/2018; QC Analyzed: 11/26/2018; Units: ug/L

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	52.0	104	50.0	51.5	103	<1	75-125	<20
Carbon tetrachloride	0.00	50.0	50.5	101	50.0	49.6	99.2	1.8	75-125	<20
Chlorobenzene	0.00	50.0	55.0	110	50.0	55.0	110	<1	75-125	<20
Chloroform (Trichloromethane)	0.00	50.0	54.5	109	50.0	54.5	109	<1	75-125	<20
1,2-Dichlorobenzene	0.00	50.0	47.7	95.4	50.0	48.3	96.6	1.3	75-125	<20
1,1-Dichloroethane	0.00	50.0	53.5	107	50.0	53.5	107	<1	75-125	<20
1,1-Dichloroethene	0.00	50.0	53.5	107	50.0	53.5	107	<1	75-125	<20
cis-1,2-Dichloroethene	0.00	50.0	55.0	110	50.0	55.0	110	<1	75-125	<20
Ethylbenzene	0.00	50.0	55.0	110	50.0	55.5	111	<1	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	50.5	101	50.0	51.0	102	<1	75-125	<20
n-Propylbenzene	0.00	50.0	44.5	89.0	50.0	44.5	89.0	<1	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	57.0	114	50.0	57.0	114	<1	75-125	<20
1,1,1-Trichloroethane	0.00	50.0	50.5	101	50.0	51.5	103	2.0	75-125	<20
1,1,2-Trichloroethane	0.00	50.0	53.5	107	50.0	54.0	108	<1	75-125	<20
Trichloroethene	0.00	50.0	59.0	118	50.0	58.0	116	1.7	75-125	<20
1,2,4-Trimethylbenzene	0.00	50.0	44.9	89.8	50.0	45.2	90.4	<1	75-125	<20
1,3,5-Trimethylbenzene	0.00	50.0	45.0	90.0	50.0	45.6	91.2	1.3	75-125	<20
o-Xylene	0.00	50.0	55.5	111	50.0	55.5	111	<1	75-125	<20
m,p-Xylenes	0.00	100	113	113	100	114	114	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	40.9	81.8	50.0	40.4	80.8	1.2	75-125	<20
Dibromofluoromethane	0.00	50.0	58.5	117	50.0	59.0	118	<1	75-125	<20
Toluene-d8	0.00	50.0	57.0	114	50.0	56.5	113	<1	75-125	<20

QC Batch No: 1126181A1; Dup or Spiked Sample: B1126181A1; LCS: Clean Water; QC Prepared: 11/26/2018; QC Analyzed: 11/26/2018; Units: ug/L

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	50.0	100	50.0	48.9	97.8	2.2	75-125	<20	
Carbon tetrachloride	50.0	49.3	98.6	50.0	47.0	94.0	4.8	75-125	<20	
Chlorobenzene	50.0	53.5	107	50.0	52.0	104	2.8	75-125	<20	
Chloroform (Trichloromethane)	50.0	46.8	93.6	50.0	46.6	93.2	<1	75-125	<20	

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QUALITY CONTROL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1126181A1; Dup or Spiked Sample: B1126181A1; LCS: Clean Water; QC Prepared: 11/26/2018; QC Analyzed: 11/26/2018; Units: ug/L

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	
1,2-Dichlorobenzene	50.0	46.7	93.4	50.0	46.5	93.0	<1	75-125	<20	
1,1-Dichloroethane	50.0	47.7	95.4	50.0	46.5	93.0	2.5	75-125	<20	
1,1-Dichloroethene	50.0	49.0	98.0	50.0	47.3	94.6	3.5	75-125	<20	
cis-1,2-Dichloroethene	50.0	47.9	95.8	50.0	47.5	95.0	<1	75-125	<20	
Ethylbenzene	50.0	54.5	109	50.0	52.5	105	3.7	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	44.0	88.0	50.0	44.0	88.0	<1	75-125	<20	
n-Propylbenzene	50.0	44.7	89.4	50.0	43.0	86.0	3.9	75-125	<20	
Toluene (Methyl benzene)	50.0	56.5	113	50.0	54.5	109	3.6	75-125	<20	
1,1,1-Trichloroethane	50.0	49.7	99.4	50.0	47.4	94.8	4.7	75-125	<20	
1,1,2-Trichloroethane	50.0	49.2	98.4	50.0	49.0	98.0	<1	75-125	<20	
Trichloroethene	50.0	55.5	111	50.0	54.5	109	1.8	75-125	<20	
1,2,4-Trimethylbenzene	50.0	44.6	89.2	50.0	43.5	87.0	2.5	75-125	<20	
1,3,5-Trimethylbenzene	50.0	45.4	90.8	50.0	44.0	88.0	3.1	75-125	<20	
o-Xylene	50.0	54.5	109	50.0	53.0	106	2.8	75-125	<20	
m,p-Xylenes	100	111	111	100	107	107	3.7	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	44.3	88.5	50.0	43.7	87.3	1.4	75-125	<20	
Dibromofluoromethane	50.0	47.9	95.8	50.0	48.6	97.2	1.5	75-125	<20	
Toluene-d8	50.0	54.5	109	50.0	54.5	109	<1	75-125	<20	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: M8015D, TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 112718DB1; Dup or Spiked Sample: 1127; LCS: Clean Water; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; Units: mg/L

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	5.00	5.10	102	5.00	5.30	106	3.8	75-125	<20
Surrogates										
Chlorobenzene	0.00	2.00	2.14	107	2.00	2.04	102	4.8	60-125	<20

QC Batch No: 112718DB1; Dup or Spiked Sample: 1127; LCS: Clean Water; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
TPH as Diesel (C13-C22)	5.00	5.40	108	75-125						
Surrogates										
Chlorobenzene	2.00	1.99	99.5	60-125						

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: M8015G, TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 112618NB1; Dup or Spiked Sample: B112618NB1; LCS: Clean Water; QC Prepared: 11/26/2018;MS Analyzed: 11/27/2018; LCS Analyzed: 11/26/2018; Units: mg/L

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	0.500	0.495	99.0	0.500	0.481	96.2	2.9	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0500	100	0.0500	0.0493	98.6	1.4	75-125	<20

QC Batch No: 112618NB1; Dup or Spiked Sample: B112618NB1; LCS: Clean Water; QC Prepared: 11/26/2018;MS Analyzed: 11/27/2018; LCS Analyzed: 11/26/2018; Units: mg/L

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)	0.500	0.520	104	0.500	0.500	100	3.9	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0590	118	0.0500	0.0550	110	7.0	75-125	<20	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 1129182C5; Dup or Spiked Sample: 94925.01; LCS: Clean Sand; QC Prepared: 11/29/2018; QC Analyzed: 11/30/2018; 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
Lead	**6.74**	**50.0**	**52.5**	**91.5**	**50.0**	**53.1**	**92.7**	**1.3**	**75-125**	**<15**

QC Batch No: 1129182C5; Dup or Spiked Sample: 94925.01; LCS: Clean Sand; QC Prepared: 11/29/2018; QC Analyzed: 11/30/2018; 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	
Lead	**50.0**	**51.0**	**102**	**50.0**	**51.0**	**102**	**<1**	**75-125**	**<15**	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 1129182C6; Dup or Spiked Sample: 94925.26; LCS: Clean Sand; QC Prepared: 11/29/2018; QC Analyzed: 11/30/2018; 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
Lead	**5.36**	**50.0**	**52.2**	**93.7**	**50.0**	**52.9**	**95.1**	**1.5**	**75-125**	**<15**

QC Batch No: 1129182C6; Dup or Spiked Sample: 94925.26; LCS: Clean Sand; QC Prepared: 11/29/2018; QC Analyzed: 11/30/2018; 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	
Lead	**50.0**	**51.0**	**102**	**50.0**	**51.5**	**103**	**<1**	**75-125**	**<15**	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1129181C1; Dup or Spiked Sample: 94925.01; LCS: Clean Sand; QC Prepared: 11/29/2018; QC Analyzed: 11/30/2018; 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	**2.39**	**1.00**	**3.58**	**119**	**1.00**	**3.43**	**104**	**13.5**	**80-120**	**<15**

QC Batch No: 1129181C1; Dup or Spiked Sample: 94925.01; LCS: Clean Sand; QC Prepared: 11/29/2018; QC Analyzed: 11/30/2018; 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	**1.00**	**0.990**	**99.0**	**1.00**	**0.997**	**99.7**	**<1**	**80-120**	**<15**	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1129181C2; Dup or Spiked Sample: 94925.26; LCS: Clean Sand; QC Prepared: 11/29/2018; QC Analyzed: 11/30/2018; 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	**2.11**	**1.00**	**3.18**	**107**	**1.00**	**3.18**	**107**	**<1**	**80-120**	**<15**

QC Batch No: 1129181C2; Dup or Spiked Sample: 94925.26; LCS: Clean Sand; QC Prepared: 11/29/2018; QC Analyzed: 11/30/2018; 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	**1.00**	**0.953**	**95.3**	**1.00**	**0.950**	**95.0**	**<1**	**80-120**	**<15**	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112618EB1; Dup or Spiked Sample: 94925.47; LCS: Clean Sand; QC Prepared: 11/26/2018; QC Analyzed: 11/27/2018; 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	21.4	107	20.0	22.6	113	5.5	40-150	<40
4,4'-DDT (DDT)	2.00	50.0	77.0	150	50.0	76.0	148	1.3	40-150	<40
Dieldrin	0.00	50.0	54.5	109	50.0	59.0	118	7.9	40-150	<40
Endrin	0.00	50.0	48.7	97.4	50.0	53.5	107	9.4	40-150	<40
Heptachlor	0.00	20.0	17.6	88.0	20.0	18.3	91.5	3.9	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	21.2	106	20.0	22.4	112	5.5	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	26.5	106	25.0	28.5	114	7.3	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	17.6	70.4	25.0	23.4	93.6	28.3	30-150	<40

QC Batch No: 112618EB1; Dup or Spiked Sample: 94925.47; LCS: Clean Sand; QC Prepared: 11/26/2018; QC Analyzed: 11/27/2018; 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	16.3	81.5	20.0	16.2	81.0	<1	50-150	<40	
4,4'-DDT (DDT)	50.0	54.5	109	50.0	55.5	111	1.8	50-150	<40	
Dieldrin	50.0	46.3	92.6	50.0	46.3	92.6	<1	50-150	<40	
Endrin	50.0	37.2	74.4	50.0	38.0	76.0	2.1	50-150	<40	
Heptachlor	20.0	13.3	66.5	20.0	13.5	67.5	1.5	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	14.9	74.5	20.0	13.2	66.0	12.1	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	24.7	98.8	25.0	30.5	122	21.0	30-150	<40	
Tetrachloro-m-xylene	25.0	16.6	66.4	25.0	17.6	70.4	5.8	30-150	<40	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 112718ZB1; Dup or Spiked Sample: 94925.13; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; 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	483	96.6	500	590	118	19.9	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	411	82.2	500	449	89.8	8.8	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	20.7	82.8	25.0	21.9	87.6	5.6	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	22.8	91.2	25.0	24.4	97.6	6.8	30-150	<40

QC Batch No: 112718ZB1; Dup or Spiked Sample: 94925.13; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; 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	
Aroclor-1016 (PCB-1016)	500	274	54.8	500	345	69.0	22.9	50-150	<40	
Aroclor-1260 (PCB-1260)	500	510	102	500	445	89.0	13.6	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	27.5	110	25.0	21.0	84.0	26.8	30-150	<40	
Tetrachloro-m-xylene	25.0	21.3	85.2	25.0	18.4	73.6	14.6	30-150	<40	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1127182A1; Dup or Spiked Sample: 94925.47; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; 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	1.52	50.0	43.1	83.2	50.0	43.1	83.2	<1	75-125	<20
Carbon tetrachloride	0.00	50.0	40.2	80.4	50.0	41.2	82.4	2.5	75-125	<20
Chlorobenzene	0.00	50.0	41.2	82.4	50.0	41.3	82.6	<1	75-125	<20
Chloroform (Trichloromethane)	0.00	50.0	41.3	82.6	50.0	40.2	80.4	2.7	75-125	<20
1,2-Dichlorobenzene	0.00	50.0	39.0	78.0	50.0	38.2	76.4	2.1	75-125	<20
1,1-Dichloroethane	0.00	50.0	43.2	86.4	50.0	42.2	84.4	2.3	75-125	<20
1,1-Dichloroethene	0.00	50.0	41.4	82.8	50.0	41.6	83.2	<1	75-125	<20
cis-1,2-Dichloroethene	0.00	50.0	34.0 #	68.0	50.0	33.3 #	66.6	2.1	75-125	<20
Ethylbenzene	0.00	50.0	40.8	81.6	50.0	40.7	81.4	<1	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	45.4	90.8	50.0	39.3	78.6	14.4	75-125	<20
n-Propylbenzene	0.00	50.0	38.2	76.4	50.0	38.3	76.6	<1	75-125	<20
Toluene (Methyl benzene)	0.530	50.0	42.4	83.7	50.0	42.4	83.7	<1	75-125	<20
1,1,1-Trichloroethane	0.00	50.0	39.9	79.8	50.0	40.2	80.4	<1	75-125	<20
1,1,2-Trichloroethane	0.00	50.0	41.2	82.4	50.0	38.8	77.6	6.0	75-125	<20
Trichloroethene	0.00	50.0	45.8	91.6	50.0	46.0	92.0	<1	75-125	<20
1,2,4-Trimethylbenzene	0.00	50.0	41.6	83.2	50.0	41.4	82.8	<1	75-125	<20
1,3,5-Trimethylbenzene	0.00	50.0	39.6	79.2	50.0	39.8	79.6	<1	75-125	<20
o-Xylene	0.00	50.0	41.2	82.4	50.0	40.8	81.6	<1	75-125	<20
m,p-Xylenes	0.00	100	82.7	82.7	100	82.5	82.5	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	45.3	90.6	50.0	45.9	91.8	1.3	75-125	<20
Dibromofluoromethane	0.00	50.0	39.4	78.7	50.0	38.4	76.7	2.6	75-125	<20
Toluene-d8	0.00	50.0	51.0	102	50.0	51.5	103	<1	75-125	<20

QC Batch No: 1127182A1; Dup or Spiked Sample: 94925.47; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; 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	47.1	94.2	50.0	47.0	94.0	<1	75-125	<20	
Carbon tetrachloride	50.0	44.0	88.0	50.0	45.0	90.0	2.2	75-125	<20	
Chlorobenzene	50.0	45.9	91.8	50.0	46.5	93.0	1.3	75-125	<20	
Chloroform (Trichloromethane)	50.0	40.5	81.0	50.0	40.1	80.2	<1	75-125	<20	

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Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1127182A1; Dup or Spiked Sample: 94925.47; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; 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	
1,2-Dichlorobenzene	50.0	45.8	91.6	50.0	46.0	92.0	<1	75-125	<20	
1,1-Dichloroethane	50.0	37.8	75.6	50.0	45.5	91.0	18.5	75-125	<20	
1,1-Dichloroethene	50.0	38.3	76.6	50.0	45.0	90.0	16.1	75-125	<20	
cis-1,2-Dichloroethene	50.0	37.9	75.8	50.0	38.2	76.4	<1	75-125	<20	
Ethylbenzene	50.0	44.8	89.6	50.0	45.5	91.0	1.6	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	41.5	82.9	50.0	40.0	80.0	3.6	75-125	<20	
n-Propylbenzene	50.0	42.2	84.4	50.0	42.5	85.0	<1	75-125	<20	
Toluene (Methyl benzene)	50.0	45.7	91.4	50.0	47.0	94.0	2.8	75-125	<20	
1,1,1-Trichloroethane	50.0	42.4	84.8	50.0	43.0	86.0	1.4	75-125	<20	
1,1,2-Trichloroethane	50.0	48.6	97.2	50.0	49.0	98.0	<1	75-125	<20	
Trichloroethene	50.0	47.9	95.8	50.0	48.0	96.0	<1	75-125	<20	
1,2,4-Trimethylbenzene	50.0	45.9	91.8	50.0	46.0	92.0	<1	75-125	<20	
1,3,5-Trimethylbenzene	50.0	43.8	87.6	50.0	44.0	88.0	<1	75-125	<20	
o-Xylene	50.0	45.5	91.0	50.0	46.0	92.0	1.1	75-125	<20	
m,p-Xylenes	100	91.6	91.6	100	93.5	93.5	2.1	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	45.5	90.9	50.0	45.6	91.2	<1	75-125	<20	
Dibromofluoromethane	50.0	37.9	75.8	50.0	37.9	75.8	<1	75-125	<20	
Toluene-d8	50.0	50.5	101	50.0	51.5	103	2.0	75-125	<20	

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QUALITY CONTROL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Justin King

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Page: **49**

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 112718PB1; Dup or Spiked Sample: 94925.47; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; 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 Diesel (C13-C22)	0.00	500	500	100	500	498	99.6	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	92.6	92.6	100	90.2	90.2	2.6	75-125	<20

QC Batch No: 112718PB1; Dup or Spiked Sample: 94925.47; LCS: Clean Sand; QC Prepared: 11/27/2018; QC Analyzed: 11/27/2018; 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 Diesel (C13-C22)	500	465	93.0	500	500	100	7.3	75-125	<20	
Surrogates										
Chlorobenzene	100	93.8	93.8	100	97.2	97.2	3.6	75-125	<20	

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QUALITY CONTROL RESULTS

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Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Justin King

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Page: **50**

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 112618OB2; Dup or Spiked Sample: 94925.47A; LCS: Clean Sand; QC Prepared: 11/26/2018;MS Analyzed: 11/27/2018; LCS Analyzed: 11/26/2018; 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	0.841	84.1	1.00	0.842	84.2	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0500	100	0.0500	0.0510	102	2.0	75-125	<20

QC Batch No: 112618OB2; Dup or Spiked Sample: 94925.47A; LCS: Clean Sand; QC Prepared: 11/26/2018;MS Analyzed: 11/27/2018; LCS Analyzed: 11/26/2018; 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	0.983	98.3	1.00	0.981	98.1	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0530	106	0.0500	0.0545	109	2.8	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

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Justin King

Number of Pages	**9**
Date Received	**11/20/2018**
Date Reported	**12/10/2018**

Job Number	Order Date	Client
94925	11/20/2018	PARSNS

Project ID: KENNEDY HS
Project Name: Kennedy HS
Site: Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Enclosed please find results of analyses of 3 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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110799

COMPANY: Parsons	PROJECT MANAGER: Justin King	AETL JOB No. 94925	Page 1 of 4
COMPANY ADDRESS: 100 West Walnut St Pasadena	PHONE: 310-804-5743		
PROJECT NAME: Kennedy HS	FAX:		
SITE NAME AND ADDRESS: 11251 Gothic Granada Hills	PROJECT #:		
	PO #:		

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010)	Arsenic (6020)	OCPs (8081)	PCBs (8082)	TEST INSTRUCTIONS & COMMENTS
1	SS-15-D0.5	94925.01	11-20-18	0705	Soil	1		X	X	X		*(6)
2	SS-15-D2.0	94925.02		0715		1						*(6)
3	SS-15-D3.0	94925.03		0720		1						Hold
4	SS-13-D0.5	94925.04		0728		1		X	X	X		Hold
5	SS-13-D2.0	94925.05		0730		1						
6	SS-13-D3.0	94925.06		0735		1						Hold
7	SS-16-D0.5	94925.07		0740		1		X	X	X		Hold
8	SS-16-D2.0	94925.08		0743		1						
9	SS-16-D3.0	94925.09		0745		1						Hold
10	SS-14-D0.5	94925.10		0752		1		X	X	X		Hold
11	SS-14-D2.0	94925.11		0755		1						
12	SS-14-D3.0	94925.12		0757		1						Hold
13	SS-9-D0.5	94925.13		0805		1		X	X	X	X	Hold
14	SS-9-D2.0	94925.14		0812		1						
15	SS-9-D3.0	94925.15		0816		1						Hold

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

- [x] NORMAL
- [ ] RUSH
- [ ] SAME DAY
- [ ] NEXT DAY
- [ ] 2 DAYS
- [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

- [x] HARD COPY
- [x] PDF
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	Justin K.		
Date: / Time:	11-20-18 / 1545	/	/
	RECEIVED BY: AETL 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:			
Printed Name:	AET		
Date: / Time:	11/20/18 / 1545	/	/

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

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CHAIN OF CUSTODY RECORD

110798

COMPANY: Parsons
PROJECT MANAGER: Justin K.
COMPANY ADDRESS: 100 West Walnut St. Pasadena
PHONE: 310-809-5743
FAX:
PROJECT NAME: Kennedy HS
PROJECT #:
SITE NAME AND ADDRESS: 11254 Gothic Granada Hills
PO #:
AETL JOB No. 94925
Page 2 of 3

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SS-8-D0.5	94925.16	11-20-18	0822	Soil	1	
2	SS-8-D0.5D	94925.17		0823		1	
3	SS-8-D2.0	94925.18		0825		1	
4	SS-8-D3.0	94925.19		0836		1	
5	SS-6-D0.5	94925.20		0842		1	
6	SS-6-D2.0	94925.21		0847		1	
7	~~SS-6-D3.0~~					1	
8	SS-3-D0.5	94925.22		0930		1	
9	SS-3-D2.0	94925.23		0935		1	
10	SS-3-D3.0	94925.24		0937		1	
11	SS-2-D0.5	94925.25		0953		1	
12	SS-2-D0.5D	94925.26		0955		1	
13	SS-2-D2.0	94925.27		0957		1	
14	SS-2-D3.0	94925.28		1005		1	
15	SS-7-D0.5	94925.29		1015		1	

ANALYSIS REQUESTED

	Lead (6010)	Arsenic (6020)	OCPs (8081)	PCBs (8082)		STLC Lead						
1	X	X	X	X		*						
2	X	X	X	X								
3	*		*									
4	*		*									
5	X	X	X									
6												
7												
8	X	X	X									
9												
10												
11	X	X	X									
12	X	X	X									
13												
14												
15	X	X	X									

TEST INSTRUCTIONS & COMMENTS

*(2) 12/3
*(1) 12/5
~~Hold~~
~~Hold~~
Hold
Hold
Hold
Hold
Hold
Hold

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

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	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	Justin K.		
Date:	11/20/18 Time: 1545	Time:	Time:
	RECEIVED BY: AETL 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			
Printed Name:			
Date:	11/20/18 Time: 1545	Time:	Time:

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CHAIN OF CUSTODY RECORD

110796

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 west walnut St
PHONE / FAX: 310 & 809-5743
PROJECT NAME: Kennedy HS
PROJECT #:
SITE NAME AND ADDRESS: 11254 Gothic Ave Granada Hills
PO #:

AETL JOB No. 94925

Page 3 of 4

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010)	Arsenic (6020)	OCPs (8081)	TPH (8015cc)	VOCs (8260)	TEST INSTRUCTIONS & COMMENTS
1	SS-7-D2.0	94925.30	11-20-18	1017	Soil	1							*(0)
2	SS-7-D3.0	94925.31		1022		1							*(0)
3	SS-1-D0.5	94925.32		1030		1		X	X	X			Hold
4	SS-1-D2.0	94925.33		1032		1							Hold
5	SS-1-D3.0	94925.34		1035		1							Hold
6	SS-4-D0.5	94925.35		1055		1		X	X	X			
7	SS-4-D2.0	94925.36		1105		1							Hold
8	SS-4-D3.0	94925.37		1108		1							Hold
9	SS-5-D0.5	94925.38		1132		1		X	X	X			
10	SS-5-D2.0	94925.39		1138		1							Hold
11	SS-5-D3.0	94925.40		1142		1							Hold
12	SS-11-D0.5	94925.41		1225		1		X	X	X	X	X	
13	SS-11-D2.0	94925.42		1230		1							Hold
14	SS-11-D3.0	94925.43		1235		1							Hold
15	SS-11-D0.5	94925.44		1300		1		X	X	X	X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	31	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

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☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	Justin King		
Date / Time:	11-20-18 1545		
	RECEIVED BY: AETL 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			
Printed Name:	AK		
Date / Time:	11/20/18 1545		

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

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CHAIN OF CUSTODY RECORD

110795

AETL JOB No. 94925

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 West Walnut St Pasadena
PHONE / FAX: 310-809-5793
PROJECT NAME: Kennedy HS
PROJECT #:
SITE NAME AND ADDRESS: 11254 Gothic Granada Hills
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010)	Arsenic (6020)	OCPs (8081)	TPH (8015cc)	VOCs (8260B)	Title 22 metals (6010/7471A)				TEST INSTRUCTIONS & COMMENTS
1	SS-11-D2.0	94925.45	11-20-18	1305	Soil	9 oz											Hold
2	SS-11-D3.0	94925.46	↓	1315	↓	↓											Hold
3	SS-10-D0.5	94925.47	↓	1322	↓	↓		X	X	X	X	X					
4	SS-10-D0.5D	94925.48	↓	1327	↓	↓		X	X	X	X	X					
5	SS-~~10~~-D2.0	94925.49	↓	1335	↓	↓											Hold
6	SS-10-D3.0	94925.50	↓	1340	↓	↓											Hold
7	IDW	94925.51	↓	1430	water	various	various			X	X	X	X				
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Comments: *(0) ⊛(0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	38	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

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☑ PDF
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☐ OTHER (PLEASE SPECIFY) ______

	1.	2.	3.
RELINQUISHED BY (SAMPLER / RELINQUISHED BY)	Signature: [signature] Printed Name: Justin King Date: 11/20/18 Time: 1545	Signature: Printed Name: Date: Time:	Signature: Printed Name: Date: Time:
RECEIVED BY (RECEIVED BY / RECEIVED BY LABORATORY)	AETL Signature: [signature] Printed Name: AH Date: 11/20/18 Time: 1545	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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Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Justin King

Project ID: KENNEDY HS
Date Received 11/20/2018
Date Reported 12/10/2018

Job Number	Order Date	Client
94925	11/20/2018	PARSNS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 51 samples with the following specification on 11/20/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94925.51	IDW	11/20/2018	Aqueous	32

Method ^ Submethod	Req Date	Priority	TAT	Units
6010/7000CAM	11/27/2018	2	Normal	mg/L
8081A	11/27/2018	2	Normal	ug/L
8260B	11/27/2018	2	Normal	ug/L
M8015D ^ C13-C40	11/27/2018	2	Normal	mg/L
M8015G	11/27/2018	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94925.01	SS-15-D0.5	11/20/2018	Soil	1
94925.04	SS-13-D0.5	11/20/2018	Soil	1
94925.07	SS-16-D0.5	11/20/2018	Soil	1
94925.10	SS-14-D0.5	11/20/2018	Soil	1
94925.20	SS-6-D0.5	11/20/2018	Soil	1
94925.22	SS-3-D0.5	11/20/2018	Soil	1
94925.25	SS-2-D0.5	11/20/2018	Soil	1
94925.26	SS-2-D0.5D	11/20/2018	Soil	1
94925.29	SS-7-D0.5	11/20/2018	Soil	1
94925.32	SS-1-D0.5	11/20/2018	Soil	1
94925.35	SS-4-D0.5	11/20/2018	Soil	1
94925.38	SS-5-D0.5	11/20/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/27/2018	2	Normal	mg/Kg
(6020) ^ AS	11/27/2018	2	Normal	mg/Kg
(8081A)	11/27/2018	2	Normal	ug/Kg

94925.02	SS-15-D2.0	11/20/2018	Soil	1

Continued

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Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Justin King

Project ID: KENNEDY HS
Date Received 11/20/2018
Date Reported 12/10/2018

Job Number	Order Date	Client
94925	11/20/2018	PARSNS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

94925.03	SS-15-D3.0	11/20/2018	Soil	1
94925.05	SS-13-D2.0	11/20/2018	Soil	1
94925.06	SS-13-D3.0	11/20/2018	Soil	1
94925.08	SS-16-D2.0	11/20/2018	Soil	1
94925.09	SS-16-D3.0	11/20/2018	Soil	1
94925.11	SS-14-D2.0	11/20/2018	Soil	1
94925.12	SS-14-D3.0	11/20/2018	Soil	1
94925.14	SS-9-D2.0	11/20/2018	Soil	1
94925.15	SS-9-D3.0	11/20/2018	Soil	1
94925.21	SS-6-D2.0	11/20/2018	Soil	1
94925.23	SS-3-D2.0	11/20/2018	Soil	1
94925.24	SS-3-D3.0	11/20/2018	Soil	1
94925.27	SS-2-D2.0	11/20/2018	Soil	1
94925.28	SS-2-D3.0	11/20/2018	Soil	1
94925.30	SS-7-D2.0	11/20/2018	Soil	1
94925.31	SS-7-D3.0	11/20/2018	Soil	1
94925.33	SS-1-D2.0	11/20/2018	Soil	1
94925.34	SS-1-D3.0	11/20/2018	Soil	1
94925.36	SS-4-D2.0	11/20/2018	Soil	1
94925.37	SS-4-D3.0	11/20/2018	Soil	1
94925.39	SS-5-D2.0	11/20/2018	Soil	1
94925.40	SS-5-D3.0	11/20/2018	Soil	1
94925.42	SS-12-D2.0	11/20/2018	Soil	1
94925.43	SS-12-D3.0	11/20/2018	Soil	1
94925.45	SS-11-D2.0	11/20/2018	Soil	1
94925.46	SS-11-D3.0	11/20/2018	Soil	1
94925.49	SS-10-D2.0	11/20/2018	Soil	1
94925.50	SS-10-D3.0	11/20/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	11/27/2018	2	Normal	--

Continued

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Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Justin King

Project ID: KENNEDY HS
Date Received 11/20/2018
Date Reported 12/10/2018

Job Number	Order Date	Client
94925	11/20/2018	PARSNS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94925.13	SS-9-D0.5	11/20/2018	Soil	1
94925.17	SS-8-D0.5D	11/20/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/27/2018	2	Normal	mg/Kg
(6020) ^ AS	11/27/2018	2	Normal	mg/Kg
(8081A)	11/27/2018	2	Normal	ug/Kg
(8082)	11/27/2018	2	Normal	ug/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94925.16	SS-8-D0.5	11/20/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B-STLC) ^ STLC-PB	11/27/2018	2	Normal	mg/L
(6010B.LEAD)	11/27/2018	2	Normal	mg/Kg
(6020) ^ AS	11/27/2018	2	Normal	mg/Kg
(8081A)	11/27/2018	2	Normal	ug/Kg
(8082)	11/27/2018	2	Normal	ug/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94925.18	SS-8-D2.0	11/20/2018	Soil	1
94925.19	SS-8-D3.0	11/20/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/27/2018	2	Normal	mg/Kg
(8081A)	11/27/2018	2	Normal	ug/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94925.41	SS-12-D0.5	11/20/2018	Soil	1
94925.44	SS-11-D0.5	11/20/2018	Soil	1
94925.47	SS-10-D0.5	11/20/2018	Soil	1
94925.48	SS-10-D0.5D	11/20/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	11/27/2018	2	Normal	mg/Kg
(6020) ^ AS	11/27/2018	2	Normal	mg/Kg
(8081A)	11/27/2018	2	Normal	ug/Kg
(8260B)	11/27/2018	2	Normal	ug/Kg
(M8015D) ^ C13-C40	11/27/2018	2	Normal	mg/Kg
(M8015G)	11/27/2018	2	Normal	mg/Kg

Continued

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Ordered By

Parsons **100 West Walnut Street** **Pasadena, CA 91124-**	**Project ID: KENNEDY HS** **Date Received 11/20/2018** **Date Reported 12/10/2018**
Telephone: (626)440-6161 **Attention: Justin King**	

Job Number	Order Date	Client
94925	11/20/2018	PARSNS

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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Justin King
Page: **2**

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 120418EB1

Our Lab I.D.			Method Blank	94925.18	94925.19		
Client Sample I.D.				SS-8-D2.0	SS-8-D3.0		
Date Sampled				11/20/2018	11/20/2018		
Date Prepared			12/04/2018	12/04/2018	12/04/2018		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			12/05/2018	12/05/2018	12/05/2018		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aldrin	1.0	2.0	ND	ND	ND		
Chlordane (Total)	1.0	2.0	ND	ND	ND		
Chlordane (alpha)	1.0	2.0	ND	ND	ND		
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND		
4,4'-DDE (DDE)	1.0	2.0	ND	64.0	3.50		
4,4'-DDT (DDT)	1.0	2.0	ND	2.29	3.15		
Dieldrin	1.0	2.0	ND	ND	ND		
Endosulfan 1	1.0	2.0	ND	ND	ND		
Endosulfan 11	1.0	2.0	ND	ND	ND		
Endosulfan sulfate	1.0	2.0	ND	ND	ND		
Endrin	1.0	2.0	ND	ND	ND		
Endrin aldehyde	1.0	2.0	ND	ND	ND		
Endrin ketone	1.0	2.0	ND	ND	ND		
Chlordane (gamma)	1.0	2.0	ND	ND	ND		
Heptachlor	1.0	2.0	ND	ND	ND		
Heptachlor epoxide	1.0	2.0	ND	ND	ND		
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND		
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND		
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND		
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND		
Methoxychlor	5.0	10.0	ND	ND	ND		
Toxaphene	25.0	50.0	ND	ND	ND		

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	94925.18	94925.19		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		78.8	63.6	76.8		
Tetrachloro-m-xylene	30-150		58.0	92.8	97.2		

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ANALYTICAL RESULTS

Ordered By

Parsons
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Telephone: (626)440-6161
Attn: Justin King

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Page: **4**

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 1203182C11

Our Lab I.D.			Method Blank	94925.18	94925.19		
Client Sample I.D.				SS-8-D2.0	SS-8-D3.0		
Date Sampled				11/20/2018	11/20/2018		
Date Prepared			12/03/2018	12/03/2018	12/03/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			12/04/2018	12/04/2018	12/04/2018		
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	ND	4.82J	4.18J		

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ANALYTICAL RESULTS

Ordered By

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Page: **5**

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 1205182C12

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			12/05/2018				
Preparation Method			TITLE 22				
Date Analyzed			12/07/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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ANALYTICAL RESULTS

Ordered By

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Telephone: (626)440-6161
Attn: Justin King
Page: **6**

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 1205182C12

Our Lab I.D.			94925.16				
Client Sample I.D.			SS-8-D0.5				
Date Sampled			11/20/2018				
Date Prepared			12/05/2018				
Preparation Method			TITLE 22				
Date Analyzed			12/07/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.50	1.00	3.35				

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QUALITY CONTROL RESULTS

Ordered By

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100 West Walnut Street
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Telephone: (626)440-6161
Attn: Justin King

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Page: **7**

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 1205182C12; Dup or Spiked Sample: 95075.06; LCS: Clean Sand; LCS Prepared: 12/05/2018; LCS Analyzed: 12/07/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**3.94**	**4.06**	**3.0**	**<20**						

QC Batch No: 1205182C12; Dup or Spiked Sample: 95075.06; LCS: Clean Sand; LCS Prepared: 12/05/2018; LCS Analyzed: 12/07/2018; Units: mg/L

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 (STLC)	**10.0**	**8.59**	**85.9**	**10.0**	**8.57**	**85.7**	**<1**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

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Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Page: **8**

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

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

QC Batch No: 1203182C11; Dup or Spiked Sample: 94925.18; LCS: Clean Sand; QC Prepared: 12/03/2018; QC Analyzed: 12/04/2018; 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
Lead	**4.82**	**50.0**	**52.9**	**96.2**	**50.0**	**53.0**	**96.4**	**<1**	**75-125**	**<15**

QC Batch No: 1203182C11; Dup or Spiked Sample: 94925.18; LCS: Clean Sand; QC Prepared: 12/03/2018; QC Analyzed: 12/04/2018; 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	
Lead	**50.0**	**52.5**	**105**	**50.0**	**52.5**	**105**	**<1**	**75-125**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

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Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Justin King
Page: **9**

Site

Kennedy HS-LAUSD
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS

AETL Job Number	Submitted	Client
94925	11/20/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 120418EB1; Dup or Spiked Sample: 95030.16; LCS: Clean Sand; QC Prepared: 12/04/2018; QC Analyzed: 12/05/2018; 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	19.2	96.0	20.0	18.0	90.0	6.5	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	58.0	116	50.0	55.5	111	4.4	40-150	<40
Dieldrin	0.00	50.0	50.5	101	50.0	49.0	98.0	3.0	40-150	<40
Endrin	0.00	50.0	64.0	128	50.0	63.0	126	1.6	40-150	<40
Heptachlor	0.00	20.0	14.8	74.0	20.0	11.5	57.5	25.1	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	19.1	95.5	20.0	18.3	91.5	4.3	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	21.0	84.0	25.0	20.9	83.6	<1	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	24.9	99.6	25.0	17.1	68.4	37.1	30-150	<40

QC Batch No: 120418EB1; Dup or Spiked Sample: 95030.16; LCS: Clean Sand; QC Prepared: 12/04/2018; QC Analyzed: 12/05/2018; 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	17.2	86.0	20.0	15.3	76.5	11.7	50-150	<40	
4,4'-DDT (DDT)	50.0	47.9	95.8	50.0	44.3	88.6	7.8	50-150	<40	
Dieldrin	50.0	47.5	95.0	50.0	42.6	85.2	10.9	50-150	<40	
Endrin	50.0	46.0	92.0	50.0	43.3	86.6	6.0	50-150	<40	
Heptachlor	20.0	12.5	62.5	20.0	11.2	56.0	11.0	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	17.4	87.0	20.0	15.3	76.5	12.8	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	19.4	77.6	25.0	18.2	72.8	6.4	30-150	<40	
Tetrachloro-m-xylene	25.0	18.8	75.2	25.0	17.8	71.2	5.5	30-150	<40	

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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

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Peter Shair

Number of Pages	**6**
Date Received	**12/18/2018**
Date Reported	**12/28/2018**

Job Number	Order Date	Client
95478	12/18/2018	PARSNS

Project ID: KENNEDY HS
Project Name: Kennedy HS PEA
Site: Kennedy HS
11254 Gothic Ave.
Granada Hills, CA 91344

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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

104041

AETL JOB No. 95478

Page 1 of 1

COMPANY	Parsons
PROJECT MANAGER	Peter Stuver
COMPANY ADDRESS	100 west Walnut St
PHONE	626-440-6153
FAX	
PROJECT NAME	Kennedy HS PEA
PROJECT #	
SITE NAME AND ADDRESS	11254 Gothic Ave, Granada Hills, Ca
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010)	CCRs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SS-8-NWS-00.5	95478.01	12-18-18	0725	Soil	1	Wt	X	X	
2	SS-8-NWS-00.5D	95478.02		0726		1		X	X	
3	SS-8-NWS-02.0	95478.03		0730		1				Hold
4	SS-8-NWS-03.0	95478.04		0735		1				Hold
5	SS-8-EES-00.5	95478.05		0745		1		X	X	
6	SS-8-EES-02.0	95478.06		0750		1				Hold
7	~~SS-8-EES-03.0~~	DK				1				Hold
8	SS-8-SS-00.5	95478.07		0805		1		X	X	
9	SS-8-SS-02.0	95478.08		0810		1				Hold
10	SS-8-SS-03.0	95478.09		0815		1				Hold
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) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			Peter Stuver
Printed Name:	Peter Stuver		Peter Stuver
Date:	12-18-18		12/18/18
Time:	0850		1205

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			
Printed Name:	Peter Stuver		Austin
Date:	12/18/18		12/18/18
Time:	0830		1205

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

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COOLER RECEIPT FORM

Client Name: Parson
Project Name:
AETL Job Number: 95478
Date Received: 12/18/18 Received by: AT
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.4°C, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice, ☒ Blue Ice, ☐ Dry Ice
☒ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified:
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		Y	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	Y		

Explain all "No" answers for above questions:

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Ordered By

Parsons 100 West Walnut Street Pasadena, CA 91124-

Project ID: KENNEDY HS Date Received 12/18/2018 Date Reported 12/28/2018

Telephone: (626)440-6161
Attention: Peter Shair

Job Number	Order Date	Client
95478	12/18/2018	PARSNS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 9 samples with the following specification on 12/18/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95478.01	SS-8-NW5-D0.5	12/18/2018	Soil	1
95478.02	SS-8-NW5-D0.5D	12/18/2018	Soil	1
95478.05	SS-8-E5-D0.5	12/18/2018	Soil	1
95478.07	SS-8-S5-D0.5	12/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	12/25/2018	2	Normal	mg/Kg
(8081A)	12/25/2018	2	Normal	ug/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95478.03	SS-8-NW5-D2.0	12/18/2018	Soil	1
95478.04	SS-8-NW5-D3.0	12/18/2018	Soil	1
95478.06	SS-8-E5-D2.0	12/18/2018	Soil	1
95478.08	SS-8-S5-D2.0	12/18/2018	Soil	1
95478.09	SS-8-S5-D3.0	12/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	12/25/2018	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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Peter Shair
Page: **2**

Site

Kennedy HS
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS PEA

AETL Job Number	Submitted	Client
95478	12/18/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 122018EB1

Our Lab I.D.			Method Blank	95478.01	95478.02	95478.05	95478.07
Client Sample I.D.				SS-8-NW5-D 0.5	SS-8-NW5-D 0.5D	SS-8-E5-D0.5	SS-8-S5-D0.5
Date Sampled				12/18/2018	12/18/2018	12/18/2018	12/18/2018
Date Prepared			12/20/2018	12/20/2018	12/20/2018	12/20/2018	12/20/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			12/20/2018	12/20/2018	12/20/2018	12/20/2018	12/20/2018
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	1.08J	1.72J	5.17	2.27
Chlordane (alpha)	1.0	2.0	ND	ND	ND	2.76	1.10J
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	11.0	6.28
4,4'-DDE (DDE)	1.0	2.0	ND	3.72	3.31	1,110	841
4,4'-DDT (DDT)	1.0	2.0	ND	3.08	2.84	81.5	46.7
Dieldrin	1.0	2.0	ND	1.05J	1.32J	5.78	1.78J
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	2.41	1.17J
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

Project ID: KENNEDY HS
Project Name: Kennedy HS PEA

AETL Job Number	Submitted	Client
95478	12/18/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	95478.01	95478.02	95478.05	95478.07
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		51.6	52.8	47.6	62.4	54.8
Tetrachloro-m-xylene	30-150		48.6	35.0	45.0	50.8	42.8

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ANALYTICAL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Peter Shair
Page: **4**

Site

Kennedy HS
11254 Gothic Ave.
Granada Hills, CA 91344

Project ID: KENNEDY HS
Project Name: Kennedy HS PEA

AETL Job Number	Submitted	Client
95478	12/18/2018	PARSNS

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

QC Batch No: 1219182C3

Our Lab I.D.			Method Blank	95478.01	95478.02	95478.05	95478.07
Client Sample I.D.				SS-8-NW5-D 0.5	SS-8-NW5-D 0.5D	SS-8-E5-D0.5	SS-8-S5-D0.5
Date Sampled				12/18/2018	12/18/2018	12/18/2018	12/18/2018
Date Prepared			12/19/2018	12/19/2018	12/19/2018	12/19/2018	12/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			12/20/2018	12/20/2018	12/20/2018	12/20/2018	12/20/2018
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**
Lead	2.5	5.0	ND	2.84J	2.55J	30.6	16.8

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QUALITY CONTROL RESULTS

Ordered By

Parsons
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Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Peter Shair

Site

Kennedy HS
11254 Gothic Ave.
Granada Hills, CA 91344

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Project ID: KENNEDY HS
Project Name: Kennedy HS PEA

AETL Job Number	Submitted	Client
95478	12/18/2018	PARSNS

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

QC Batch No: 1219182C3; Dup or Spiked Sample: 95490.11; LCS: Clean Sand; QC Prepared: 12/19/2018; QC Analyzed: 12/20/2018; 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
Lead	**15.3**	**50.0**	**61.2**	**91.8**	**50.0**	**62.3**	**94.0**	**2.37**	**75-125**	**<15**

QC Batch No: 1219182C3; Dup or Spiked Sample: 95490.11; LCS: Clean Sand; QC Prepared: 12/19/2018; QC Analyzed: 12/20/2018; 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	
Lead	**50.0**	**47.3**	**94.6**	**50.0**	**47.9**	**95.8**	**1.26**	**75-125**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

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Site

Kennedy HS
11254 Gothic Ave.
Granada Hills, CA 91344

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Project ID: KENNEDY HS
Project Name: Kennedy HS PEA

AETL Job Number	Submitted	Client
95478	12/18/2018	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 122018EB1; Dup or Spiked Sample: 95451.01; LCS: Clean Sand; QC Prepared: 12/20/2018; QC Analyzed: 12/20/2018; 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	13.3	66.5	20.0	13.5	67.5	1.5	40-150	<40
4,4'-DDT (DDT)	1.79	50.0	56.8	110	50.0	58.3	113	2.7	40-150	<40
Dieldrin	0.00	50.0	40.5	81.0	50.0	40.8	81.6	<1	40-150	<40
Endrin	0.00	50.0	54.5	109	50.0	56.5	113	3.6	40-150	<40
Heptachlor	0.00	20.0	12.9	64.5	20.0	13.0	65.0	<1	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	15.4	77.0	20.0	15.0	75.0	2.6	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	25.6	51.2	50.0	28.2	56.4	9.7	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	21.2	42.4	50.0	26.9	53.8	23.7	30-150	<40

QC Batch No: 122018EB1; Dup or Spiked Sample: 95451.01; LCS: Clean Sand; QC Prepared: 12/20/2018; QC Analyzed: 12/20/2018; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aldrin	20.0	12.9	64.5	50-150						
4,4'-DDT (DDT)	50.0	53.5	107	50-150						
Dieldrin	50.0	41.5	83.0	50-150						
Endrin	50.0	52.5	105	50-150						
Heptachlor	20.0	12.3	61.5	50-150						
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	13.8	69.0	50-150						
Surrogates										
Decachlorobiphenyl	50.0	27.6	55.2	30-150						
Tetrachloro-m-xylene	50.0	24.0	48.0	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