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May 13, 2019

Mr. Andrew Modugno P.G.
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 Senior High School**
11254 Gothic Avenue
Granada Hills, California 91344

Reference: **Draft Technical Memorandum on Shallow Soil Excavation Activities**

Mr. Modugno,

This technical memorandum is submitted to the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS) to document shallow soil excavation activities conducted at the John F. Kennedy Senior High School (Site) located at 11254 Gothic Avenue, Granada Hills, California (**Figure 1**). The shallow soil excavation activities consisted of excavating soil in one location based on the results of a Preliminary Environmental Assessment – Equivalent (PEA-E) conducted by Parsons in November and December 2018. The Site history, background, PEA-E scope, results, conclusions and recommendations are documented in the PEA-E (Parsons, 2019).

1.0 BACKGROUND

The PEA-E included soil sampling and laboratory analysis for a proposed seismic retrofit and infrastructure improvement project at the Site. **Figure 2** is a detailed site map of the high school. A total of 41 initial boring locations (SS-1 through SS-41) were sampled at depths of 0 to 0.5-, 1.5 to 2.0-, and 2.5 to 3.0-feet (ft) below ground surface (bgs). The 0.5-ft depth soil sample at each boring location was analyzed by the laboratory, and the step-down samples at 2.0-ft and 3.0-ft bgs were initially placed on hold. The initial sample locations were analyzed for lead, arsenic and organochlorine pesticides (OCPs). Additionally, soil in borings SS-8, SS-9, SS-32 and SS-34 were analyzed for polychlorinated biphenyls (PCBs) and soil in borings SS-10 through SS-12 were analyzed for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH).

Based on a review of the sample results at 0.5-ft bgs there were no exceedances of screening levels, with the exception of 4,4'-DDE and lead, which were detected above their respective screening levels at boring location SS-8. The laboratory results of the step-down samples at 2.0-ft bgs and 3.0-ft bgs vertically delineated 4,4'-DDE and lead 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 and lead in 0.5-ft bgs samples at SS-8-E5, SS-8-S5, and SS-8-NW5, respectively (**Figure 3**). The PEA-E recommended that shallow soil impacted by 4,4'-DDE and lead and defined by the step-out and step-down sample results, should be removed and properly disposed of.

2.0 PRE-FIELD

The following activities were completed prior to the soil excavation work:

- The proposed soil excavation area was delineated by Parsons on the ground with white paint on April 9, 2019.
- Underground Service Alert (USA) was notified on April 9, 2019 of the proposed work and ticket number A190990605 was issued. Representatives from the utility companies then either marked their subsurface structures or directly contacted a Parsons representative to discuss potential utility and subsurface structure conflicts.
- The proposed excavation was geophysically surveyed by Pacific Coast Locators, a private utility locator, on April 15, 2019, for the presence of underground utilities using geophysical methods (including ground-penetrating radar, electromagnetic utility locating, and deep-search metal detector).

3.0 SOIL REMOVAL ACTIVIITES

3.1 Soil Excavation

Soil removal activities were conducted on April 15, 2019. As requested by LAUSD, soil excavation for the removal of lead and 4,4'-DDE impacted soil occurred at one discreet area on the northwestern portion of the Site. A six square foot area was excavated to two feet bgs by Rice General, Inc. (Rice) using hand tools (**Figure 6**). The irrigation lines in the area were uncovered and preserved.

After the excavation was complete, confirmation soil samples were collected from the southern, eastern, western and northern sidewalls and at the bottom of the excavation. The confirmation samples were collected in new laboratory-provided 4-ounce jars, labeled, stored in coolers with ice, and transported to the laboratory under chain of custody procedures. The confirmation soil samples were analyzed for lead by Environmental Protection Agency (EPA) Method 6010B and OCPs by EPA Method 8081A. Analytical results for the confirmation samples are summarized in **Table 1** and **Table 2**. Laboratory analytical data are included in **Appendix A**.

Approximately three cubic yards of soil was removed from the six square foot area during excavation as identified on **Figure 6**. Rice backfilled the excavation using purchased clean sand and clean topsoil. The excavated soil was placed directly into eleven 55-gallon drums and temporarily stored on-site in properly labeled Department of Transportation-approved drums pending disposal profiling. Eleven drums containing non-hazardous soil were removed by Belshire Environmental Services, Inc. (BESI) on May 9, 2019. The drums were disposed of at Soil Safe in Adelanto, California. Drum disposal documentation is provided in **Appendix B**.

3.2 Preliminary Screening Levels

Analytical results for the confirmation soil samples were compared with risk-based screening levels to determine if additional excavation was required. The screening levels are referred to here and after as PSLs (preliminary screening levels). A detailed discussion regarding the screening levels used at the Site is presented in the PEA-E. The screening levels used for OCPs are the USEPA RSLs (2018). The screening level used for lead is 80 mg/kg.

3.3 Soil Excavation Analytical Results

Analytical results for the confirmation soil samples collected from the excavation sidewalls and bottom were compared to the PSLs to determine if additional excavation was required. The confirmation sampling for lead had a maximum detected concentration of 4.48J mg/kg (sample

SS-8-CSN) which is under the PSL of 80 mg/kg. The confirmation sampling for OCPs had a maximum detected 4,4'-DDE concentration of 177 micrograms per kilogram (µg/kg) [sample SS-8-CSE] which is under the PSL of 2,000 µg/kg. All confirmation samples were below their respective PSLs for lead and OCPs, and no additional excavation was necessary.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the PEA-E conducted in November/December 2018, a six square foot by two feet deep area was excavated in April 2019 to remove soil impacted by lead and 4,4'-DDE. Soil impacted with lead and 4,4'-DDE above PSLs was removed in the selected area as directed by LAUSD. A total of approximately three cubic yards of soil was excavated and lawfully disposed of. Confirmation sampling results indicate the soil removal was effective in removing the impacted soil. No further action is necessary with respect to the area subject to this technical memorandum.

5.0 REFFERENCES

DTSC, 2015. *Preliminary Endangerment Assessment Manual. A guidance manual for evaluating hazardous substance release sites.*

DTSC, 2018. *HERO HHRA Note Number 3, DTSC-Modified Screening Levels (DTSC-SLs).* January.

Parsons, 2019. *Preliminary Environmental Assessment – Equivalent Report*, February 13.

USEPA (US Environmental Protection Agency), 2018. *Regional Screening Levels for Chemical Contaminants at Superfund Sites*. May. Available online at https://www.epa.gov/risk/regional-screening-levels-rsls

If you have questions or comments regarding this document, please contact Justin King (Parsons) at 626-440-6133.

Sincerely,

Justin King
Project Manager

Reviewed by Peter Shair, PG 8362

PROFESSIONAL GEOLOGIST
PETER B. SHAIR
NO. 8362
Exp. 5/31/20
STATE OF CALIFORNIA

Attachments:

Table 1 – Analytical Results for Lead in Soil
Table 2 – Analytical Results for Organochlorine Pesticides in Soil
Figure 1 – Site Location
Figure 2 – Kennedy High School Site Map
Figure 3 – Soil and Step-Out Sample Locations Northwester Portion of Campus
Figure 4 – Excavation Detail Map Location SS-8
Appendix A – Certified Laboratory Analytical Report
Appendix B – Waste Manifest

TABLES

TABLE 1
ANALYTICAL RESULTS FOR LEAD IN SOIL
LAUSD Kennedy High School Shallow Soil Excavation

Sample ID	Sample Date	Lead
	Units	**mg/kg**
	Test Method	**6010B**
	Screening Level	**80**
SS-8-CSE	4/15/2019	2.75J
SS-8-CSW	4/15/2019	3.38J
SS-8-CSS	4/15/2019	ND
SS-8-CSN	4/15/2019	4.48J
SS-8-CSB	4/15/2019	3.76J
SS-8-CSB Dup	4/15/2019	4.25J

Notes:
ND = Not detected at or above the indicated practical quantitation limit
mg/kg = miligrams 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).

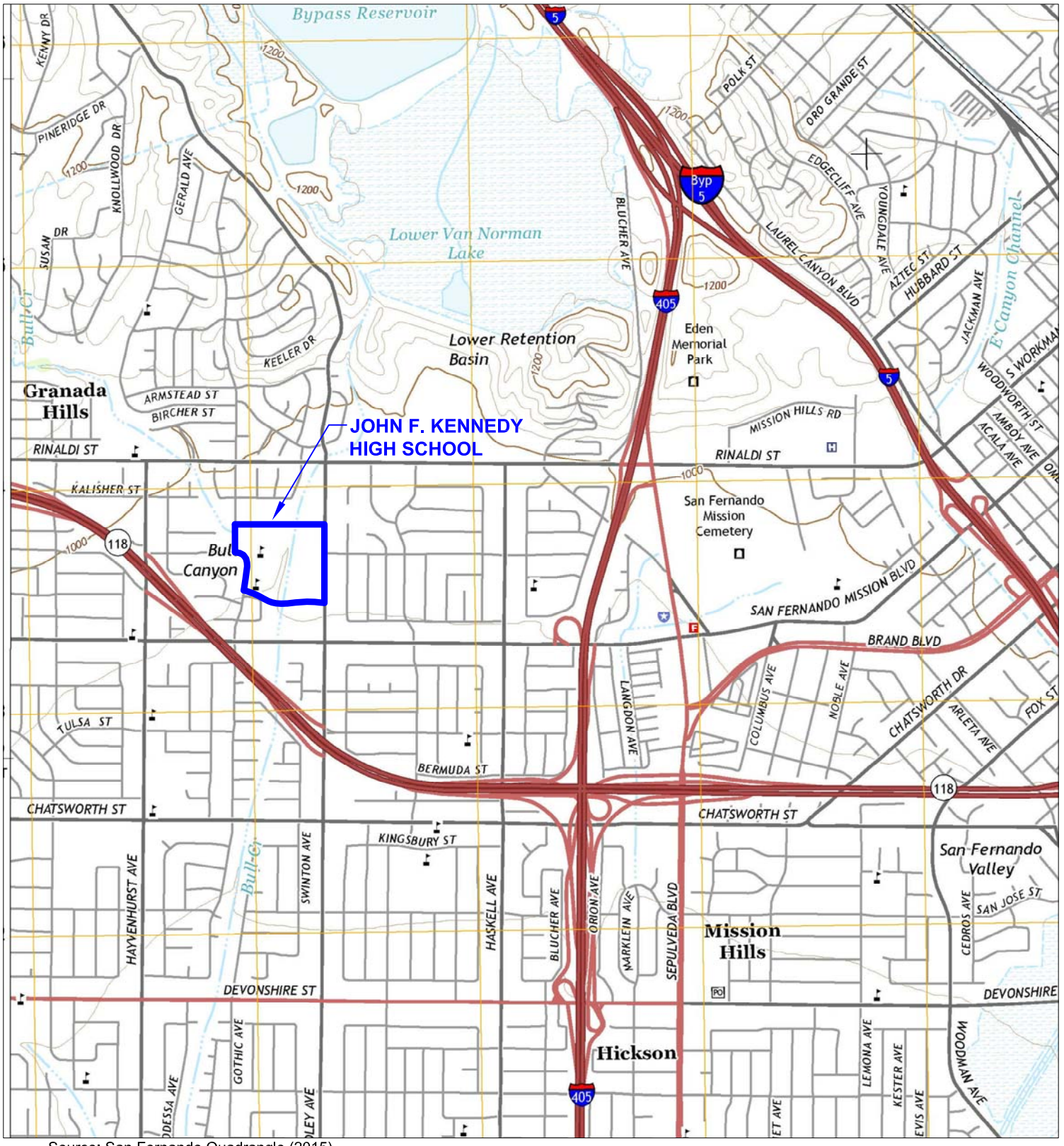
Lead screening level based on Department of Toxic Substances Control (DTSC) The Human and Ecological Risk Office (HERO) Human Health Risk (DTSC. 2013a. Human Health Risk Assessment (HHRA) Note Number 3. Office of Human and Ecological Risk. May 21, 2013.)

TABLE 2
ANALYTICAL RESULTS FOR ORGANOCHLORINE PESTICIDES IN SOIL
LAUSD Kennedy High School Shallow Soil Excavation Report

Sample ID	Sample Collection Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Chlordane (total)	Endrin	Other OCPs
	RSL*	1900	2000	1900	440	1900	--
	Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
SS-8-CSE	4/15/2019	1.99J	177	5.18	1.54J	1.11J	ND
SS-8-CSW	4/15/2019	ND	10.5	3.31	ND	ND	ND
SS-8-CSS	4/15/2019	ND	6.72	2.69	ND	ND	ND
SS-8-CSN	4/15/2019	ND	36.8	2.07	ND	ND	ND
SS-8-CSB	4/15/2019	ND	39.3	3.36	ND	ND	ND
SS-8-CSB Dup	4/15/2019	1.66J	80.9	4.09	ND	ND	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.
OCPs = Organochlorine Pesticides

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

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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

LEGEND

School Boundary

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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_fig3.mxd Date: 5/13/2019

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)
- Shallow Soil Excavation Area

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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

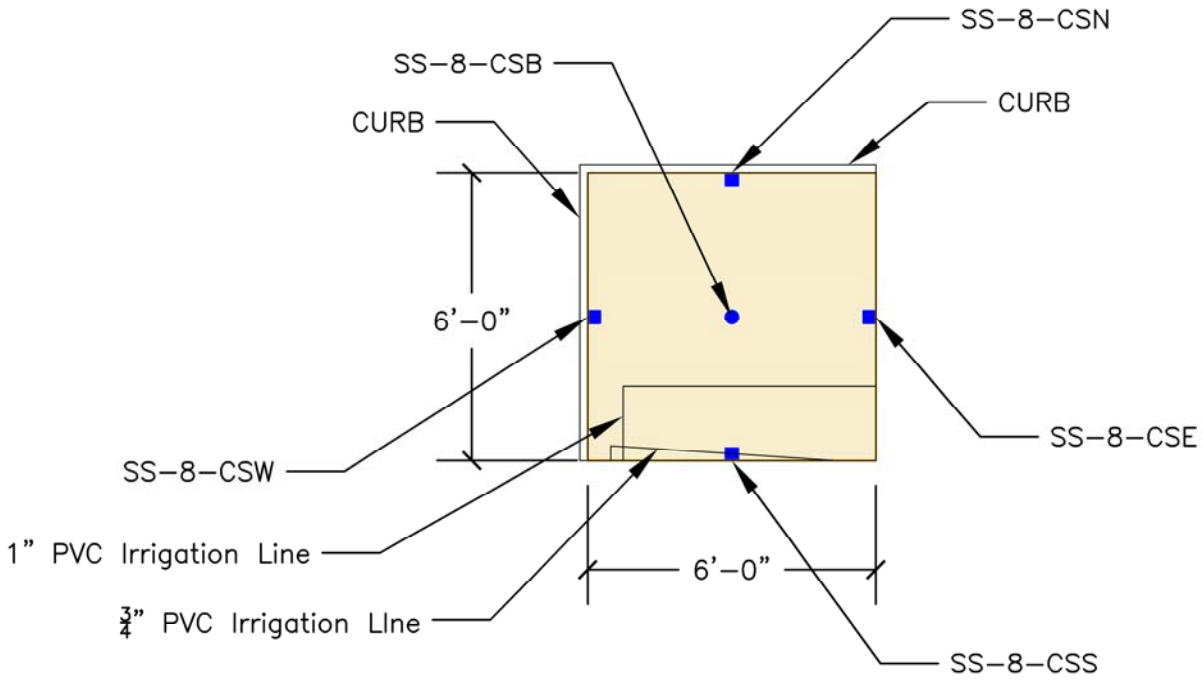
LEGEND

2.0 FOOT TOTAL DEPTH EXCAVATION LIMITS

SIDEWALL SAMPLE

BOTTOM SAMPLE

Inset from Figures 2 and 3



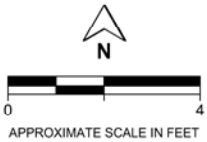


Figure 4

EXCAVATION and CONFIRMATION
SAMPLE DETAIL MAP
LOCATION SS-8
KENNEDY HIGH SCHOL

11254 Gothic Ave.
Granada Hills, CA

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PASADENA, CA

U:\Depts\Dept48\LAUSD\MSA WORK\Kennedy HS\Excavation Report\Figures\Figure 4 - Excavation Detail Map.dwg

APPENDIX A
Certified Analytical Laboratory Reports

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	**9**
Date Received	**04/15/2019**
Date Reported	**04/26/2019**

Job Number	Order Date	Client
97205	04/15/2019	PARSNS

Project ID: KENNEDY HS
Project Name: Kennedy HS Housekeeping
Site: LAUSD Kennedy High School

Enclosed please find results of analyses of 6 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
2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

112822

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 West Walnut St
PHONE: 626-440-6133
FAX:
PROJECT NAME: ~~LAUSD~~ Kennedy HS Housekeeping
PROJECT #:
SITE NAME AND ADDRESS: LAUSD Kennedy High School
PO #:

AETL JOB No. 97205

Page 1 of 1

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: lead by 6010's	ANALYSIS REQUESTED: CAM's	TEST INSTRUCTIONS & COMMENTS
1	SS-8-CSE	97205.01	4-15-19	1040	soil	1/4oz	NA	X	X	
2	SS-8-CSW	97205.02		1042			NA	X	X	
3	SS-8-CSS	97205.03		1044			NA	X	X	
4	SS-8-CSN	97205.04		1046			NA	X	X	
5	SS-8-CSB	97205.05		1048			NA	X	X	
6	SS-8-CSBDup	97205.06		1050			NA	X	X	
7										
8										
9										
10										
11										
12										
13										
14										
15										

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	6	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) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:		
	Printed Name: Justin King		
	Date: 4-15-19 Time: 1345		
RELINQUISHED BY:		Signature:	
		Printed Name:	
		Date: Time:	
RECEIVED BY:	Signature:		
	Printed Name:		
	Date: Time:		
RECEIVED BY:		Signature:	
		Printed Name:	
		Date: Time:	
RECEIVED BY LABORATORY:			Signature:
			Printed Name:
			Date: 4-15-19 Time: 1350

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

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

COOLER RECEIPT FORM

Client Name: Parson

Project Name:

AETL Job Number: 97205

Date Received: 04/15/19 Received by: AT / Sarkis

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?	1		

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 04/15/2019** **Date Reported 04/26/2019**

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

Job Number	Order Date	Client
97205	04/15/2019	PARSNS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 6 samples with the following specification on 04/15/2019.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
97205.01	SS-8-CSE	04/15/2019	Soil	1
97205.02	SS-8-CSW	04/15/2019	Soil	1
97205.03	SS-8-CSS	04/15/2019	Soil	1
97205.04	SS-8-CSN	04/15/2019	Soil	1
97205.05	SS-8-CSB	04/15/2019	Soil	1
97205.06	SS-8-CSB DUP	04/15/2019	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6010B.LEAD)	04/22/2019	2	Normal	mg/Kg
(8081A)	04/22/2019	2	Normal	ug/Kg

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

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

Checked By: _____ Approved By: 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

LAUSD Kennedy High School

Project ID: KENNEDY HS
Project Name: Kennedy HS Housekeeping

AETL Job Number	Submitted	Client
97205	04/15/2019	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 041719EB1

Our Lab I.D.			Method Blank	97205.01	97205.02	97205.03	97205.04
Client Sample I.D.				SS-8-CSE	SS-8-CSW	SS-8-CSS	SS-8-CSN
Date Sampled				04/15/2019	04/15/2019	04/15/2019	04/15/2019
Date Prepared			04/17/2019	04/17/2019	04/17/2019	04/17/2019	04/17/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			04/17/2019	04/17/2019	04/17/2019	04/17/2019	04/17/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	1.54J	ND	ND	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	1.99J	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	177	10.5	6.72	36.8
4,4'-DDT (DDT)	1.0	2.0	ND	5.18	3.31	2.69	2.07
Dieldrin	1.0	2.0	ND	1.83J	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	1.11J	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	25.0	50.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS Housekeeping

AETL Job Number	Submitted	Client
97205	04/15/2019	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	97205.01	97205.02	97205.03	97205.04
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		130	140	125	129	124
Tetrachloro-m-xylene	30-150		142	121	132	143	130

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ANALYTICAL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Justin King
Page: **4**

Site

LAUSD Kennedy High School

Project ID: KENNEDY HS
Project Name: Kennedy HS Housekeeping

AETL Job Number	Submitted	Client
97205	04/15/2019	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 041719EB1

Our Lab I.D.			97205.05	97205.06			
Client Sample I.D.			SS-8-CSB	SS-8-CSB DUP			
Date Sampled			04/15/2019	04/15/2019			
Date Prepared			04/17/2019	04/17/2019			
Preparation Method			3550B	3550B			
Date Analyzed			04/17/2019	04/17/2019			
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	ND	ND			
Chlordane (alpha)	1.0	2.0	ND	ND			
4,4'-DDD (DDD)	1.0	2.0	ND	1.66J			
4,4'-DDE (DDE)	1.0	2.0	39.3	80.9			
4,4'-DDT (DDT)	1.0	2.0	3.36	4.09			
Dieldrin	1.0	2.0	ND	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	ND	ND			
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	25.0	50.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: KENNEDY HS
Project Name: Kennedy HS Housekeeping

AETL Job Number	Submitted	Client
97205	04/15/2019	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			97205.05	97205.06			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		132	132			
Tetrachloro-m-xylene	30-150		144	134			

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ANALYTICAL RESULTS

Ordered By

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100 West Walnut Street
Pasadena, CA 91124-

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

LAUSD Kennedy High School

Project ID: KENNEDY HS
Project Name: Kennedy HS Housekeeping

AETL Job Number	Submitted	Client
97205	04/15/2019	PARSNS

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

QC Batch No: 0417192C3

Our Lab I.D.			Method Blank	97205.01	97205.02	97205.03	97205.04
Client Sample I.D.				SS-8-CSE	SS-8-CSW	SS-8-CSS	SS-8-CSN
Date Sampled				04/15/2019	04/15/2019	04/15/2019	04/15/2019
Date Prepared			04/17/2019	04/17/2019	04/17/2019	04/17/2019	04/17/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/18/2019	04/18/2019	04/18/2019	04/18/2019	04/18/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	2.75J	3.38J	ND	4.48J

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ANALYTICAL RESULTS

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Site

LAUSD Kennedy High School

Project ID: KENNEDY HS
Project Name: Kennedy HS Housekeeping

AETL Job Number	Submitted	Client
97205	04/15/2019	PARSNS

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

QC Batch No: 0417192C3

Our Lab I.D.			97205.05	97205.06			
Client Sample I.D.			SS-8-CSB	SS-8-CSB DUP			
Date Sampled			04/15/2019	04/15/2019			
Date Prepared			04/17/2019	04/17/2019			
Preparation Method			3050B	3050B			
Date Analyzed			04/18/2019	04/18/2019			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	2.5	5.0	3.76J	4.25J			

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QUALITY CONTROL RESULTS

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Site

LAUSD Kennedy High School

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Project ID: KENNEDY HS
Project Name: Kennedy HS Housekeeping

AETL Job Number	Submitted	Client
97205	04/15/2019	PARSNS

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

QC Batch No: 0417192C3; Dup or Spiked Sample: 97205.01; LCS: Clean Sand; QC Prepared: 04/17/2019; QC Analyzed: 04/18/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	2.75	50.0	43.5	81.5	50.0	43.4	81.3	<1	75-125	<15

QC Batch No: 0417192C3; Dup or Spiked Sample: 97205.01; LCS: Clean Sand; QC Prepared: 04/17/2019; QC Analyzed: 04/18/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	50.0	49.5	99.0	50.0	49.6	99.2	<1	75-125	<15	

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QUALITY CONTROL RESULTS

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Site

LAUSD Kennedy High School

Project ID: KENNEDY HS
Project Name: Kennedy HS Housekeeping

AETL Job Number	Submitted	Client
97205	04/15/2019	PARSNS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 041719EB1; Dup or Spiked Sample: 97205.06; LCS: Clean Sand; QC Prepared: 04/17/2019; QC Analyzed: 04/17/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	23.7	119	20.0	23.7	119	<1	40-150	<40
4,4'-DDT (DDT)	4.09	50.0	35.7	63.2	50.0	38.3	68.4	7.90	40-150	<40
Dieldrin	0.876	50.0	63.9	126	50.0	64.6	127	<1	40-150	<40
Endrin	0.739	50.0	64.8	128	50.0	65.8	130	1.55	40-150	<40
Heptachlor	0.00	20.0	22.8	114	20.0	22.4	112	1.77	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	22.9	115	20.0	22.5	113	1.75	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	30.3	121	25.0	32.8	131	8.26	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	32.5	130	25.0	34.3	137	5.38	30-150	<40

QC Batch No: 041719EB1; Dup or Spiked Sample: 97205.06; LCS: Clean Sand; QC Prepared: 04/17/2019; QC Analyzed: 04/17/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	23.6	118	20.0	23.8	119	<1	50-150	<40	
4,4'-DDT (DDT)	50.0	55.6	111	50.0	49.2	98.4	12.0	50-150	<40	
Dieldrin	50.0	63.1	126	50.0	63.8	128	1.57	50-150	<40	
Endrin	50.0	63.1	126	50.0	64.3	129	2.35	50-150	<40	
Heptachlor	20.0	23.9	120	20.0	23.8	119	<1	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	23.6	118	20.0	23.8	119	<1	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	31.5	126	25.0	31.4	126	<1	30-150	<40	
Tetrachloro-m-xylene	25.0	34.1	136	25.0	33.7	135	<1	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

APPENDIX B
Waste Manifest

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
/ /			A07	AS-0357	001

Generator and/or Consultant

Generator's Name and Billing Address: L.A.U.S.D. - OEHS ATTN: ERIC LONGENECKER 333 S. BEAUDRY AVE., 21ST FLOOR LOS ANGELES, CA 90017	Generator's Phone #: 213-241-3199	
	Person to Contact:	
	FAX#:	Customer Account Number
Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number
Generation Site (Transport from): *(name & address)* LAUSD - KENNEDY HIGH SCHOOL 11254 GOTHIC AVENUE GRANADA HILLS, CA 91344	Site Phone #:	
	Person to Contact:	
	FAX#:	
Designated Facility (Transport to): *(name & address)* SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001	
	Person to Contact: JOE PROVANSAL	
	FAX#: (760) 246-8004	
Transporter Name and Mailing Address: BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 306626	Transporter's Phone #: 949-460-5200	CAR000183913
	Person to Contact: LARRY MOOTHART	450647
	FAX#: 949-460-5210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ❑ Organic ❑ Clay ❑ Other ❑	0 - 10% ❑ 10 - 20% ❑ 20% - over ❑	Gas ❑ Diesel ❑ Other ❑	11 DM	SOIL			
Sand ❑ Organic ❑ Clay ❑ Other ❑	0 - 10% ❑ 10 - 20% ❑ 20% - over ❑	Gas ❑ Diesel ❑ Other ❑					

List any exception to items listed above: Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ❑ Consultant ❑ Andrea Maduena for LAUSD

Signature and date: Andrea Maduena

Month 05 Day 09 Year 19

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Frankie Garcia

Signature and date:

Month 7 Day 9 Year 19

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: J. PROVANSAL / BILL BISHOP / BARRY MEEK

Signature and date:

Please print or type.

GENERATOR/CONSULTATANTS COPY