REMOVAL ACTION COMPLETION REPORT

SEISMIC MODERNIZATION PROJECT
VENICE HIGH SCHOOL
13000 WEST VENICE BOULEVARD
LOS ANGELES, CALIFORNIA

Prepared for:

LOS ANGELES UNIFIED SCHOOL DISTRICT
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September 14, 2017

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September 25, 2017

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Project Manager

Subject: **Removal Action Completion Report**
Seismic Modernization Project
Venice High School
13000 West Venice Boulevard
Los Angeles, California
Converse Project No. 16-41-186-01

Mr. Schanen:

Converse Consultants is pleased to submit five (5) copies of the Removal Action Completion Report for the Seismic Modernization Project at Venice High School, in the City of Los Angeles, Los Angeles County, California.

If you have any questions regarding the attached Report, please do not hesitate to call John Ziegler at (626) 930-1234 or Norman Eke at (626) 930-1260.

Sincerely,

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PROFESSIONAL CERTIFICATION

Property: Venice High School
13000 West Venice Boulevard
Los Angeles, California
Converse Project No. 16-41-186-01

This Removal Action Completion Report has been prepared by the staff of Converse Consultants (Converse) under the supervision of the Professional Geologist (PG) whose seal and signature appears below.

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EXECUTIVE SUMMARY

This Removal Action Completion Report (RACR) documents the removal of soil impacted with arsenic at the site of the Seismic Modernization Project (SMP) at Venice High School ("Site") and is being submitted on behalf of the Los Angeles Unified School District (LAUSD). Venice High School is bounded on the northwest by West Venice Boulevard, on the northeast by residential properties facing on Lyceum Avenue, on the southeast by West Zanja Street, and on the southwest by South Walgrove Avenue. A Site Location map is presented as **Figure 1** and a Site Plan is presented as **Figure 2.** The RACR has been prepared by Converse Consultants (Converse).

A Removal Action Workplan (RAW), dated August 31, 2016 was prepared by Ninyo & Moore Geotechnical and Environmental Sciences Consultants to address areas at the Site that were identified as containing localized elevated concentrations of arsenic in soil. The nature and extent of the arsenic impacted areas were delineated through investigative activities that were conducted in the Preliminary Environmental Assessment (PEA for arsenic in soil). The total estimated volume of impacted soil at the Site with elevated arsenic was approximately 71.70 cubic yards (CYs).

Soil removal activities were conducted between July 26, and August 2, 2017 at the 11 Site locations (Areas A through K) identified in the RAW. Confirmation soil samples were collected from the sidewalls and bottoms of each excavation area to confirm that the arsenic impacted soil had been sufficiently removed both laterally and vertically (see Section 4.1). Additional excavation was conducted, when Site conditions allowed, at locations where analytical results indicated arsenic concentrations to be in excess of the cleanup goal (CG) of 12 milligrams per kilogram (mg/kg). A total of 93.68 cubic yards of soil were removed. A summary of the removal dimension is provided in **Table 1**

A total of 69 soil samples consisting of 63 primary confirmation soil samples and six (6) duplicate samples were collected and analyzed. Confirmation sample locations are presented on **Figures 3.1** and **3.2**, and results of the sample analysis are summarized on **Table 2**. All final samples were submitted to American Environmental Testing Laboratories Inc. (AETL) in Burbank, California, a DHS-ELAP certified laboratory, for analysis of arsenic in accordance with EPA Method 6020 to confirm that removal action objectives had been met.

A total of 58 confirmation soil samples were initially analyzed by the laboratory for arsenic. Of these, four (4) were reported to have arsenic concentrations in excess of the screening level of 12 mg/kg. Additional excavation was conducted at four (4) of these locations until arsenic concentrations in the confirmation samples were below the screening level. At the east sidewall of Area K, additional excavation was conducted up to the site boundary. No further excavation could be conducted in this area.

Removal actions have sufficiently been completed and no further action is required at the Site.

SECTION 1 - INTRODUCTION

This Removal Action Completion Report (RACR) documents the removal of soil impacted with arsenic at the Seismic Modernization Project (SMP) at Venice High School ("Site") and is being submitted on behalf of the Los Angeles Unified School District (LAUSD). Venice High School is bounded on the northwest by West Venice Boulevard, on the northeast by residential properties facing on Lyceum Avenue, on the southeast by West Zanja Street, and on the southwest by South Walgrove Avenue. A Site Location map is presented as **Figure 1** and a Site Plan is presented as **Figure 2**. The RACR has been prepared by Converse Consultants (Converse).

This RACR describes the soil removal activities at Site identified in the Removal Action Workplan (RAW), dated August 31, 2016, prepared by Ninyo and Moore. All of the subject areas contained localized elevated concentrations of arsenic in soil. The nature and extent of the arsenic impacted areas were delineated through investigative activities that were documented in the Preliminary Environmental Assessment (PEA) prepared by Ninyo and Moore. The Removal Action (RA) described herein was consistent with the criteria specified in the California Health & Safety Code, Section 25356.1(c).

Site-specific RA objectives (RAOs) have been established to protect human health and the environment, and serve as a means of screening potential remedial alternatives for further evaluation. The RAW has identified the following RAOs:

- Minimize potential exposure through ingestion, inhalation, or direct contact with the shallow soils containing elevated concentrations of arsenic that may pose risk to human health;

- Protect human health and the environment by minimizing generation and release of fugitive dust potentially containing elevated concentrations of arsenic into the ambient air in excess of South Coast Air Quality Management District (SCAQMD) requirements; and,

- Minimize potential migration of elevated concentrations of arsenic from soils into air, surface water, or groundwater.

SECTION 2 - SITE BACKGROUND

2.1 SITE DESCRIPTION

The Site is an approximately 6,400 square foot portion of Venice High School that is within the area of the SMP. The Site formerly contained a Student Store and Lunch Pavilion. The Site is currently under construction. The student store and lunch pavilion have been demolished. Removal of pavements and foundations by the general contractor for the SMP is currently underway.

Based on a review of the United States Geological Survey (USGS) 7½-minute Topographic Series, Venice, California Quadrangle Map, the Site is located in Township 2 South, Range 15 West, at an approximate latitude of 33° 58' 48" N and longitude of 118° 26' 41" W longitude.

2.2 PRIOR ASSESSMENTS

Previous investigative activities conducted at the Site included a Phase I Environmental Site Assessment (ESA) prepared by AECOM, dated April 4, 2014, and a Preliminary Environmental Assessment (PEA) for arsenic in soil prepared by Ninyo and Moore, dated July 5, 2016. A RAW was prepared by Ninyo and Moore to address the recommended removal of constituents identified through these previous investigations.

2.2.1 Removal Action Work Plan

The RAW, dated August 31, 2016, outlined the remedy for the chemicals of concern (COCs) at the Site by addressing the elevated concentrations of arsenic.

After reviewing the results of the PEA investigation, Ninyo & Moore addressed the presence of elevated arsenic concentrations in the RAW. Among the three remedial action alternatives, the excavation of impacted soil to a depth of up to 4 feet bgs and transporting to an off-site disposal facility was the recommended remedial alternative to meet the remedial action objectives. It was estimated that approximately 71.70 cubic yards of impacted soil would be removed from the Site and transported to a state licensed off-site disposal facility.

SECTION 3 - REMOVAL ACTION IMPLEMENTATION

The following sections discuss the removal action objectives and implementation of the removal action activities, including any field variances from the approved RAW.

3.1 REMOVAL ACTION OBJECTIVES

The Removal Action Objectives (RAOs) described in the RAW included:

- Minimize potential exposure through ingestion, inhalation, or direct contact with the shallow soils containing elevated concentrations of arsenic that may pose risk to human health;
- Protect human health and the environment by minimizing generation and release of fugitive dust potentially containing elevated concentrations of arsenic into the ambient air in excess of South Coast Air Quality Management District (SCAQMD) requirements; and
- Minimize potential migration of elevated concentrations of arsenic from soils into air, surface water, or groundwater.

As discussed in the RAW, the total estimated volume of impacted soil at the Site with elevated arsenic was approximately 71.70 cubic yards, or approximately 100 tons using the conversion factor of 1.5 tons per cubic yard. Arsenic impacted soil was generally limited to depths between 1.5 and 4 feet bgs.

3.2 PERMITTING

No permits for grading from City of Los Angeles, Department of Building and Safety or the state of California Division of State Architect are required for this LAUSD soil RA. No specific air or other permitting requirements were identified in the RAW for the proposed RA activities at this time.

Although a permit was not required from the South Coast Air Quality Management District (SCAQMD), protocols for the mitigation of potential fugitive dust emissions contained in SCAQMD Fugitive Dust Rule 403 were employed during the soil removal action. Excavation, loading, and transport of arsenic-impacted soils were in compliance with Rule 403 prevention, reduction, and mitigation measures for fugitive dust emissions. Air monitoring of air-borne particulates was conducted continuously during working hours (see Section 3.9).

Although a haul route permit was not required, the RAW provided a description of the transportation route from the Site to the proposed disposal facilities (Appendix G of the RAW).

3.3 PUBLIC PARTICIPATION ACTIVITIES

Prior to implementing the RA, public participation activities were conducted. Activities included the preparation of a community survey, preparation of public notice for publication, publication of the public notice in the Daily Breeze and La Opinion, mailing of the community survey and public notice to local residents and key contacts as well as students.

A copy of the Public Notice is provided in **Appendix A,** Public Notification Information.

3.4 IMPACTED SOIL REMOVAL

Excavation activities to remove soil impacted with arsenic from the Site were conducted between July 26 and August 2, 2017. Removal actions have been completed at all locations identified in the RAW.

The area dimensions of all completed removals are presented on **Table 1** and are shown on **Figures 3.1 and 3.2**. The confirmation sample locations and reported concentrations are also shown on these figures.

Prior to the removal, the Site was marked and underground service alert was notified. Paving had been removed by the general contractor for the SMP.

Based on the sampling results of the PEA investigation, the soil was profiled for disposal as a non-hazardous waste at Chiquita Canyon Landfill in Castaic. A copy of the profile is provided in **Appendix B**.

Prior to mobilizing equipment to the Site, the approximate horizontal and lateral extent of the impacted soil at each area was marked using spray paint and flags to facilitate the excavation process. Security fencing and sound curtain had been installed around the Site by the general contractor for the SMP to secure the work areas and protect passersby.

A geophysical survey of the removal areas was conducted by Southwest Geophysics on July 26, 2017 to identify any potential subsurface utilities or structures that may be present.

Conventional construction equipment, including a backhoe with straight edge bucket and hand tools were used to excavate the soil and transfer it directly to end-dump trucks. Soil that was not able to be removed from the Site on July 26, 2017 was stockpiled on site and placed on plastic sheathing, covered with plastic sheathing and secured. Soil was removed from the Site on August 2, 2017.

During soil excavation and transfer activities, dust suppression was provided, as needed. Shoring of the excavation sidewalls was unnecessary, because excavations generally did not exceed 4 feet bgs.

Confirmation soil samples were collected from the sidewalls and bottoms of each of the excavations to confirm that the arsenic impacted soil had been sufficiently removed, both laterally and vertically (see Section 4.1).

Initial excavation activities were conducted on July 26, 2017. Each area, A through K, was excavated to the delineated extents and depths. Confirmation samples were collected from the sidewalls and bottom of each area consistent with the sampling plan provided in the RAW.

Analytical results indicated arsenic exceedances at the following locations:

- Area B – East Sidewall
- Area E - East Sidewall
- Area D – Bottom Sample
- Area K - Upper portion of east sidewall

Additional excavation was conducted on July 31, and August 2, 2017. Confirmation samples collected from the east sidewalls of Areas B and E and from the bottom of Area D reported concentrations of arsenic less than the cleanup goal of 12 mg/kg. Confirmation samples collected from the east sidewall of Area K indicated arsenic concentrations to be in excess of the cleanup goal (CG) of 12 mg/kg. No further excavation could be conducted at Area K as the excavation was at the eastern site boundary.

All impacted soil excavated during the removal action was loaded into end dump and/or transfer trucks and transported off-site to the Chiquita Canyon Landfill in Castaic, California under non-hazardous waste manifests. Based on weight tickets from the landfill, a total of 136 tons of soil were disposed. Transport activities were conducted in accordance with the Transportation Plan included with the approved RAW. Copies of the non-hazardous waste manifests are included in **Appendix C.**

Table 1 presents a summary of the soil removal activities completed at each area. Photographs are provided in **Appendix D.**

3.5 HEALTH AND SAFETY PLAN (HASP) IMPLEMENTATION

Safety meetings were held as required by the Site-specific HASP. A copy of the site-specific HASP was kept onsite at all times during excavation activities.

3.6 DUST CONTROL MEASURES

Fugitive dust control measures were implemented at the Site to mitigate offsite dust migration. A wind screen had been installed along the fence by the General Contractor for the SMP. Dust suppression was performed by spraying or misting the work areas with water. After the soil was loaded into the end-dump trucks, the trucks were covered to prevent spilling during transport to the disposal facility.

While on the Site, all vehicles maintained slow speeds (i.e., less than 5 miles per hour) for safety purposes and for dust control measures. Air monitoring activities were conducted at the Site, as discussed in the following section.

3.7 AIR AND METEOROLOGICAL MONITORING DURING FIELD ACTIVITIES

Converse conducted continuous dust monitoring during soil removal activities using portable dust monitors (model Thermo Dataram 4) to verify and document dust suppression efforts. Air monitoring for dust was performed at the fence line, on equipment within the perimeter of the exclusion zone (continuously during excavation), and at the perimeter of the Site (continuously during excavation) utilizing an upwind/downwind sampling approach.

The National Ambient Air Quality Standard (NAAQS) for dust is 50 µg/m^3, based on dust particles greater than 10 microns in diameter (PM10). This NAAQS dust standard (50 µg/m^3), steady for 5 minutes, was selected as the action level for dust monitoring activities at the perimeter of the property. The action level in the exclusion zone was conservatively set at 1 milligram per cubic meter (mg/m^3), steady for 5 minutes. Brief exceedances of the dust action levels did occur, generally due to the concurrent demolition activities on site.

All visible exceedances were addressed by wetting the excavation areas.

Meteorological monitoring was conducted during the removal activities. Winds were typically from the southwest. Wind speed was generally between 0 and 8 miles per hour.

3.8 EXCAVATION BACKFILL

Backfill of excavations was not required as the site is an active construction site.

3.9 FIELD VARIANCES FROM APPROVED RAW

Excavation at the east sidewall of Area K was halted at the site boundary.

3.10 COMPLIANCE WITH APPLICABLE RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS)

Soil removal activities were conducted in compliance with ARARs presented in the RAW, as summarized below:

- **Chemical Specific ARARs** – No hazardous wastes were generated during the remedial activities. Soil data generated during the PEA Equivalent investigation did not identify any hazardous soil.

- **Location Specific ARARs** - No location specific ARARs were identified in the RAW.

- **Action Specific ARARs –** all excavated soil is characterized as non-hazardous. The excavated impacted soil was sampled, profiled, and disposed of in accordance with applicable hazardous waste regulations.

SECTION 4 - CONFIRMATION SOIL SAMPLING AND ANALYSIS

4.1 CONFIRMATION SOIL SAMPLING

Confirmation soil samples were collected from the sidewalls and bottoms of each excavation area per the approved RAW. A total of 69 soil samples, 63 primary confirmation soil samples and six (6) duplicate soil samples, were collected. Confirmation sample locations are presented on **Figures 3.1 and 3.2**, and results of the sample analysis are summarized on **Table 2**.

Eleven of the confirmation soil samples were prepared and screened in the field for arsenic using an XRF device for the purpose of identifying locations where additional excavation was required. Screening of select samples in the field for arsenic using the XRF was conducted in general accordance with EPA Method 6200. All final samples were submitted to American Environmental Testing Laboratories Inc. (AETL) in Burbank, California, a DHS-ELAP certified laboratory, for analysis for arsenic in accordance with EPA Method 6020 to confirm that removal action objectives had been met. A total of five (5) samples screened in the field for arsenic were not submitted to the laboratory because the concentrations exceeded the cleanup goal (CG) of 12 mg/kg as established in the approved RAW. A summary of the XRF results is presented in **Table 3**. A total of 69 samples were analyzed by the laboratory for arsenic.

The sample jars for all final confirmation samples, as well as the sample cups for those samples screened in the field using the XRF, were submitted to the laboratory for analysis. When possible, the laboratory extracted the portion of sample to be analyzed for arsenic from the XRF sample cup. For all samples not screened in the field, the laboratory prepared a portion of the sample from the sample jar for analysis of arsenic by drying and homogenizing the sample.

Chain-of-custody documentation was prepared for all samples collected during the removal action activities, and is included with the analytical reports in **Appendix E.**

4.2 ANALYTICAL RESULTS

Laboratory analytical results revealed that samples from four (4) locations at four (4) areas were reported to have arsenic concentrations greater than the CG of 12 mg/kg. Further excavation was completed at these locations. Additional step-down or step-out sampling was conducted at each of these locations, and results of the additional confirmation samples analyzed by the fix based laboratory revealed the CG to have been met with the exception of the east wall at Area K which abutted the site boundary.

Analytical results for the confirmation soil samples are summarized in **Table 2**. Copies of the AETL analytical reports and chain-of custody records are included in **Appendix E**. Confirmation soil sample locations are shown on **Figures 3.1 and 3.2**.

Based on laboratory analysis of final confirmation samples no further action is required at the areas identified in the RAW.

4.3 DATA VALIDATION SUMMARY

Data validation was performed on the laboratory data from AETL, and a limited data validation report is presented in **Appendix F.** The data validation uses the same criteria contained in the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (USEPA, 2002); however, the review does not include rechecking the raw data, calibrations, and calculations. Instead, limited data validation utilizes the data summary and QA/QC summary provided in the laboratory standard report, which includes the checking of these parameters. The soil samples were analyzed for arsenic, as discussed in Section 4.2. The following summarizes the areas of the data validation:

- Data completeness
- Holding times and preservation
- Method blanks
- Laboratory control samples
- Matrix spike/matrix spike duplicates
- Field duplicates
- Analyte identification and quantification

Based on the data validation review, the data quality has been determined to be within acceptable standards. Results of the quality control samples indicate appropriate sample collection and handling procedures. All samples were analyzed as requested, and all holding times were met. No data have been qualified and are acceptable for their intended use.

4.4 DISCUSSION OF RESULTS

Results of the final confirmation soil samples analyzed by an off-site laboratory in accordance with EPA Method 6020 for arsenic reveal that cleanup goals have been met, and that no further excavation activities are required. The sidewall sample collected at the eastern sidewall of Area K exceeded the cleanup goal based on the XRF and laboratory analysis. These samples (K-ESW3 and K-ESW4) were located at the eastern boundary of the work area and no further excavation was conducted at this location.

SECTION 5 - CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

A total of approximately 136 tons of arsenic impacted soil was removed from the 11 site areas identified. Except for the east sidewall of Area K, the reported concentrations of arsenic in all of the final confirmation soil samples collected and analyzed following the removal action were below the cleanup goal of 12 mg/kg. The east side of Area K is located at the eastern boundary of the project and no further excavation could be conducted in that area. Therefore, the removal action objectives have been achieved and as such no significant risk to human health is identified at the Site.

5.2 RECOMMENDATIONS

No further action is recommended with respect to the investigation and removal of arsenic impacted soil at the Site. Because this removal action concludes the environmental assessment and response activities required for this Site, it is recommended that the construction of the Venice High School Lunch Shelter Seismic Modernization Project proceed.

SECTION 7 - REFERENCES

AECOM, 2014, Phase I Environmental Site Assessment, Venice High School, 13000 West Venice Boulevard, Los Angeles, California, dated April 4, 2014

Ninyo and Moore, Removal Action Work Plan, Seismic Modernization Project, Venice High School, August 31, 2016

Ninyo and Moore, Preliminary Environmental Assessment Equivalent Report, Seismic Modernization Project, Venice High School, July 5, 2016

Tables

Table 1	Summary of Excavation Areas - Removal Dimensions
Table 2	Summary of Analytical Results – Arsenic EPA 6020
Table 3	Summary of Analytical Results - XRF

Table 1
Summary of Excavation Areas - Removal Dimensions
Arsenic Impacted Soil
Seismic Modernization Project
Venice High School

				Volume		
Area	Length in feet	Width in feet	Depth in feet	Cubic Feet	Cubic Yards	Tons @1.45 CY/ton
A	4.2	10.5	1.5	66.15	2.45	4
B	13	10.5	1.5	204.75	7.58	11
C	8.4	10.5	1.5	132.3	4.9	7
D	10.5	10.5	2.5	275.63	10.21	15
E	12	15	1.5	270.0	10.0	15
F	8.4	8.4	1.5	105.84	3.92	6
G	10.5	6.3	2.5	165.38	6.13	9
H	10.5	10.5	2.5	275.63	10.21	15
I	21	4.2	2.5	220.5	8.17	12
J	6.3	6.3	2.5	99.23	3.68	5
K	17	10.5	4	714.0	26.44	38
Total					**93.68**	**136**

Table 2
Summary of Analytical Results
Arsenic - EPA 6020
Venice High School

AREA	Sample ID	Sample Date	Laboratory Job Number	Arsenic
A	A-B1	7/26/2017	88725	**2.26**
	A-B2	7/26/2017	88725	**2.52**
	ZDUP1	7/26/2017	88725	**2.24**
	A-NSW1	7/26/2017	88725	**2.27**
	A-SSW1	7/26/2017	88725	**7.23**
	A-WSW1	7/26/2017	88725	**2.76**
B	B-B1	7/26/2017	88725	**2.59**
	B-ESW1	7/26/2017	88725	**2.19**
	B-ESW2	7/26/2017	88725	**17.2**
	B-ESW3	7/26/2017	88783	**2.77**
	B-NSW1	7/26/2017	88725	**2.32**
	B-WSW1	7/26/2017	88725	**3.20**
C	C-B1	7/26/2017	88725	**3.10**
	C-B2	7/26/2017	88725	**4.55**
	C-ESW1	7/26/2017	88725	**2.64**
	C-WSW1	7/26/2017	88725	**5.31**
D	D-B1	7/26/2017	88725	**4.35**
	D-B2	7/26/2017	88725	**20.1**
	D-B3	7/31/2017	88783	**8.06**
	D-ESW1	7/26/2017	88725	**2.88**
	ZDUP2	7/26/2017	88725	**3.27**
	D-SSW1	7/26/2017	88725	**8.81**
	D-WSW1	7/26/2017	88725	**3.27**
E	E-B1	7/26/2017	88725	**3.40**
	E-B2	7/26/2017	88725	**3.80**
	E-ESW1	7/26/2017	88725	**3.31**
	E-ESW2	7/26/2017	88725	**20.8**
	E-ESW-3	7/31/2017	88783	**17.4**
	E-ESW8	8/2/2017	88843	**8.13**
	E-ESW9	8/2/2017	88843	**10.5**
	E-NSW1	7/26/2017	88725	**2.97**
	E-SSW1	7/26/2017	88725	**6.64**
	E-WSW1	7/26/2017	88725	**3.35**
	E-WSW2	7/26/2017	88725	**3.80**
	ZDUP3	7/26/2017	88725	**3.72**
F	F-B1	7/26/2017	88726	**4.45**
	F-ESW1	7/26/2017	88726	**4.50**
	F-NSW1	7/26/2017	88726	**4.78**
	F-SSW1	7/26/2017	88726	**5.13**
	F-WSW1	7/26/2017	88726	**5.21**
G	G-B1	7/26/2017	88726	**4.45**
	G-ESW1	7/26/2017	88726	**3.58**
	G-NSW1	7/26/2017	88726	**6.72**
	G-SSW1	7/26/2017	88726	**5.20**

Table 2
Summary of Analytical Results
Arsenic - EPA 6020
Venice High School

AREA	Sample ID	Sample Date	Laboratory Job Number	Arsenic
H	H-B1	7/26/2017	88726	**4.97**
	H-NSW1	7/26/2017	88726	**6.16**
	ZDUP5	7/26/2017	88726	**9.47**
	H-WSW1	7/26/2017	88726	**8.65**
I	I-B1	7/26/2017	88726	**4.92**
	I-B2	7/26/2017	88726	**5.36**
	I-B3	7/26/2017	88726	**5.77**
	I-NSW1	7/26/2017	88726	**12.0**
	ZDUP6	7/26/2017	88726	**7.77**
	I-SSW1	7/26/2017	88726	**6.91**
	I-WSW1	7/26/2017	88726	**5.35**
	I-WSW2	7/26/2017	88726	**4.77**
J	J-B1	7/26/2017	88726	**8.34**
	J-ESW1	7/26/2017	88726	**5.64**
	J-SSW1	7/26/2017	88726	**4.99**
K	K-B1	7/26/2017	88726	**5.86**
	ZDUP4	7/26/2017	88726	**6.72**
	K-ESW1	7/26/2017	88726	**14.1**
	K-ESW2	7/26/2017	88726	**6.19**
	K-ESW-3	7/31/2017	88783	**21**
	K-NSW1	7/26/2017	88726	**5.00**
	K-SSW1	7/26/2017	88726	**10.8**
	K-SSW2	7/26/2017	88726	**4.86**
	K-WSW1	7/26/2017	88726	**3.99**
	KCSW1	7/26/2017	88726	**6.00**
		Samples Analyzed		69
		Detections		69
		Maximum Concentration		21
		Average Concentration		6.28
		Count > than SL		6

All concentrations in milligrams per kilogram (mg/kg)
SL Screening level (12 mg/kg)

Table 3
Summary of Analytical Results
XRF
Venice High School

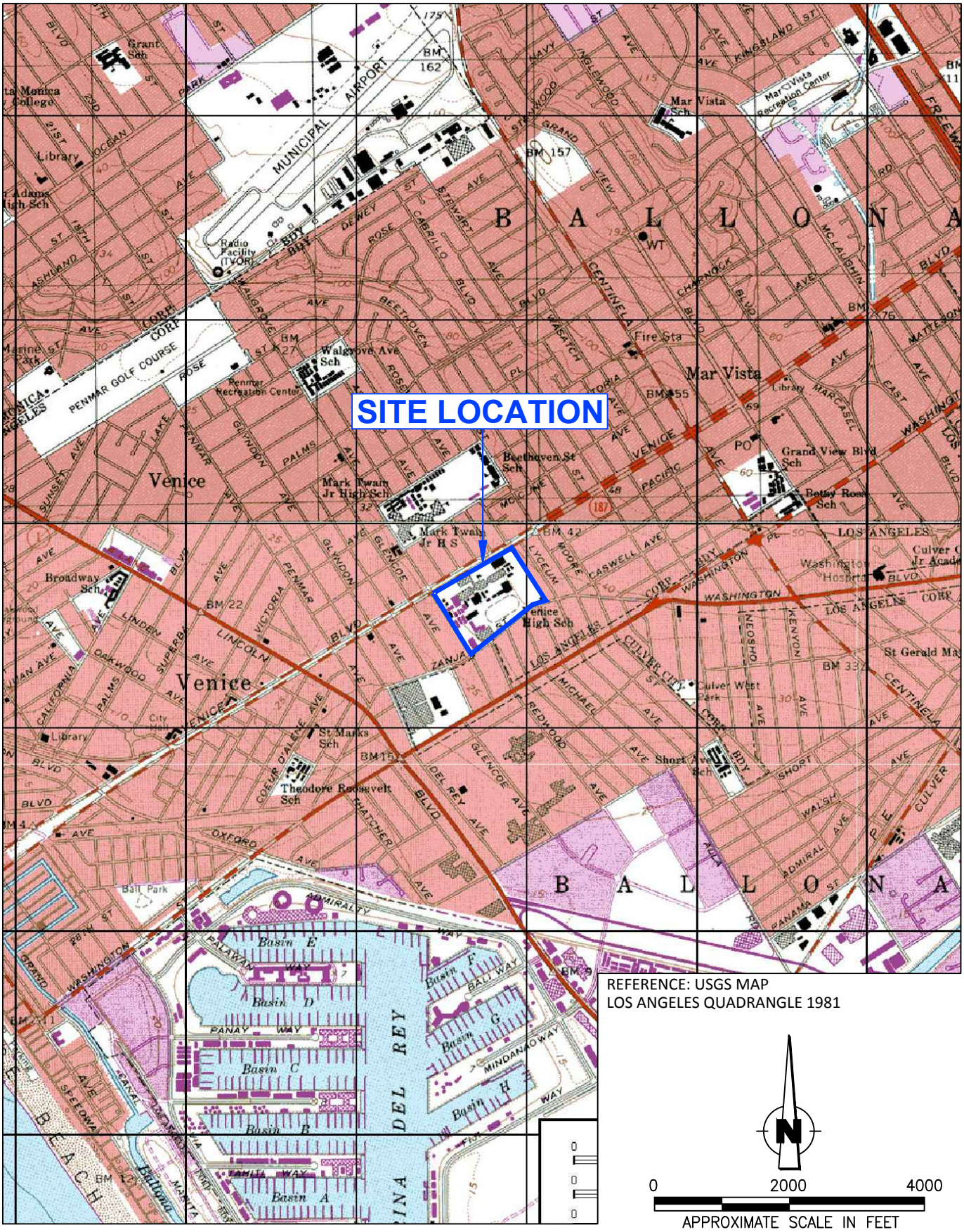
Reading No	Time	Type	Duration	Units	Sequence	SAMPLE	LOCATION	INSPECTOR	As	Lab Results
1	7/31/2017 7:41	SHUTTER_CAL	359.66	cps	Final				0.56	--
2	7/31/2017 7:57	SHUTTER_CAL	357.74	cps	Final				0.58	--
3	7/31/2017 8:10	BULK	120	ppm	Final	High Cal	VENICE HS	GJP	686.38	--
4	7/31/2017 8:22	BULK	120	ppm	Final	Medium Cal	VENICE HS	GJP	98.11	--
5	7/31/2017 8:34	BULK	120	ppm	Final	Low Cal	VENICE HS	GJP	16.59	--
6	7/31/2017 8:46	BULK	120	ppm	Final	Blank	VENICE HS	GJP	0.54	--
7	7/31/2017 8:58	BULK	120	ppm	Final	test sample	VENICE HS	GJP	20.45	--
8	**7/31/2017 9:10**	**BULK**	**120**	**ppm**	**Final**	**B-ESW-3**	**VENICE HS**	**GJP**	**6.25**	**2.77**
9	**7/31/2017 9:28**	**BULK**	**120**	**ppm**	**Final**	**DB-3**	**VENICE HS**	**GJP**	**13.24**	**8.06**
10	**7/31/2017 9:47**	**BULK**	**120**	**ppm**	**Final**	**E-ESW-3**	**VENICE HS**	**GJP**	**23.1**	**17.4**
11	**7/31/2017 10:03**	**BULK**	**120**	**ppm**	**Final**	**K-ESW-3**	**VENICE HS**	**GJP**	**33.63**	**21**
12	7/31/2017 10:16	BULK	120	ppm	Final	High Cal	VENICE HS	GJP	672.3	--
13	7/31/2017 10:27	BULK	120	ppm	Final	Medium Cal	VENICE HS	GJP	83.39	--
14	7/31/2017 10:39	BULK	120	ppm	Final	Low Cal	VENICE HS	GJP	20.63	--
15	7/31/2017 10:51	BULK	120	ppm	Final	Blank	VENICE HS	GJP	2.13	--

1	8/2/2017 7:41	SHUTTER_CAL	359.54	cps	Final				0.62	--
2	8/2/2017 7:53	BULK	120	ppm	Final	High Cal	VENICE HS	GJP	651.92	--
3	8/2/2017 8:05	BULK	120	ppm	Final	Medium Cal	VENICE HS	GJP	85.66	--
4	8/2/2017 8:17	BULK	120	ppm	Final	Low Cal	VENICE HS	GJP	13.28	--
5	8/2/2017 8:29	BULK	120	ppm	Final	Blank	VENICE HS	GJP	2.09	--
6	**8/2/2017 8:40**	**BULK**	**120**	**ppm**	**Final**	**E-ESW-4**	**VENICE HS**	**GJP**	**20.61**	**NA**
7	**8/2/2017 8:52**	**BULK**	**120**	**ppm**	**Final**	**E-ESW-5**	**VENICE HS**	**GJP**	**30.4**	**NA**
8	**8/2/2017 9:04**	**BULK**	**120**	**ppm**	**Final**	**K-ESW-4**	**VENICE HS**	**GJP**	**33.73**	**NA**
9	**8/2/2017 9:23**	**BULK**	**120**	**ppm**	**Final**	**E-ESW-6**	**VENICE HS**	**GJP**	**35.41**	**NA**
10	**8/2/2017 9:46**	**BULK**	**120**	**ppm**	**Final**	**E-ESW-7**	**VENICE HS**	**GJP**	**56.81**	**NA**
11	**8/2/2017 10:06**	**BULK**	**120**	**ppm**	**Final**	**E-ESW-8**	**VENICE HS**	**GJP**	**10.6**	**8.13**
12	**8/2/2017 10:23**	**BULK**	**120**	**ppm**	**Final**	**E-ESW-9**	**VENICE HS**	**GJP**	**10.76**	**10.5**
13	8/2/2017 10:42	BULK	120	ppm	Final	High Cal	VENICE HS	GJP	599.54	--
14	8/2/2017 10:54	BULK	120	ppm	Final	Medium Cal	VENICE HS	GJP	105.37	--
15	8/2/2017 11:06	BULK	120	ppm	Final	Low Cal	VENICE HS	GJP	17.42	--
16	8/2/2017 11:17	BULK	120	ppm	Final	Blank	VENICE HS	GJP	0.09	--

all concentrations in parts per million (ppm)
NA - Not analyzed

Figures

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3.1	Confirmation Sample Locations – Areas A – F
Figure 3.2	Confirmation Sample Locations – Areas G – K



SITE LOCATION MAP

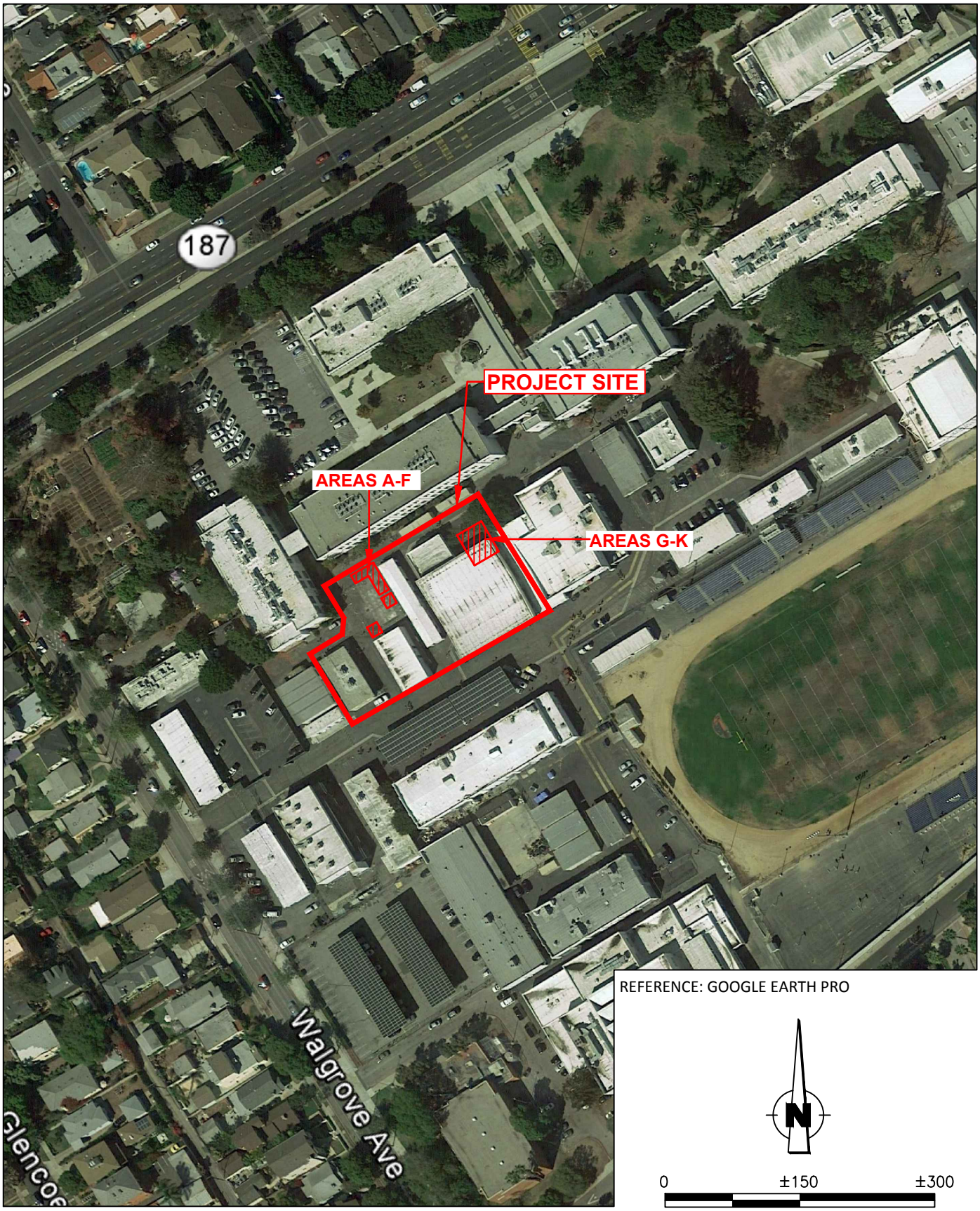
Converse Consultants

LOS ANGELES UNIFIED SCHOOL DISTRICT
VENICE HIGH SCHOOL
SEISMIC MODERNIZATION PROJECT

Project No. 16-41-186-01

Figure No. 1

I:\ACADDRAWINGS\16\41\186\16-41-186-01-SITELOCATION.DWG



SITE PLAN

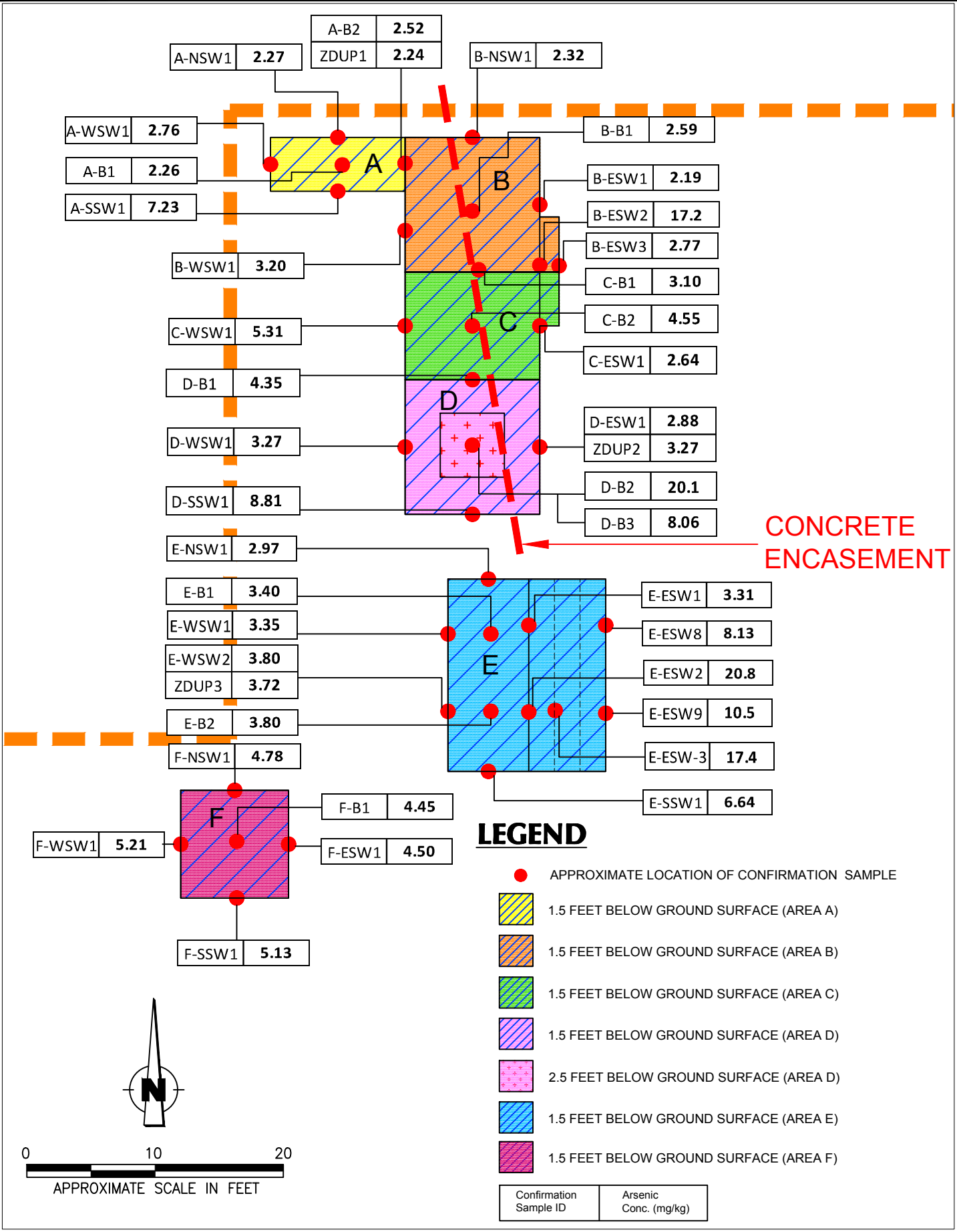
Converse Consultants

LOS ANGELES UNIFIED SCHOOL DISTRICT
VENICE HIGH SCHOOL
SEISMIC MODERNIZATION PROJECT

Project No.
16-41-186-01

Figure No.
2

I:\ACADDRAWINGS\16\41\186\16-41-186-01-SITELOCATION.DWG



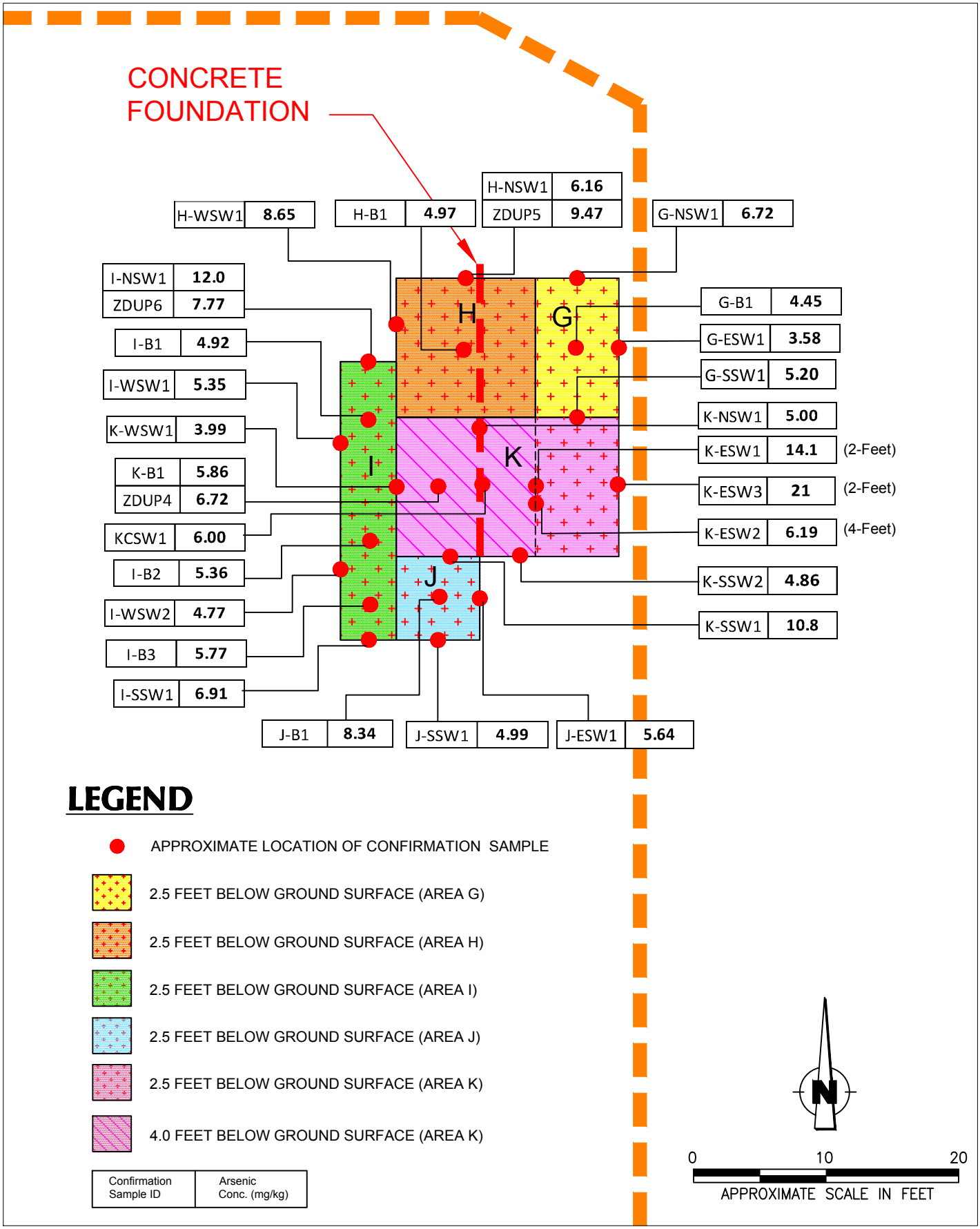
CONFIRMATION SAMPLE LOCATIONS AND RESULTS - AREAS A THROUGH F

Converse Consultants

LOS ANGELES UNIFIED SCHOOL DISTRICT
VENICE HIGH SCHOOL
SEISMIC MODERNIZATION PROJECT

Project No. 16-41-186-01

Drawing No. 3.1



CONFIRMATION SAMPLE LOCATIONS AND RESULTS - AREAS G THROUGH K

Converse Consultants

LOS ANGELES UNIFIED SCHOOL DISTRICT
VENICE HIGH SCHOOL
SEISMIC MODERNIZATION PROJECT

Project No. 16-41-186-01

Drawing No. 3.2

Public Notification Information

Appendix A

NOTICE OF PUBLIC COMMENT PERIOD AND MEETING
REMOVAL ACTION WORKPLAN
VENICE HIGH SCHOOL
LUNCH SHELTER SEISMIC MODERNIZATION PROJECT
13000 Venice Boulevard, Los Angeles

PUBLIC COMMENT PERIOD: March 1 to March 30, 2017

WHAT'S BEING PROPOSED?

The Los Angeles Unified School District's (LAUSD) invites public comment on the Removal Action Workplan (hereinafter "RAW") for the lunch shelter seismic modernization project at Venice High School in Los Angeles, California. The RAW presents the findings of the environmental investigation performed for this project and proposes the removal and off-site disposal of approximately seventy one cubic yards (71 CY) of soil with elevated concentrations of arsenic.

WHY THIS NOTICE AND WHERE/WHEN IS THE PUBLIC MEETING?

The purpose of this notice and public meeting is to provide the community with an opportunity to learn more about the project and to provide comments on the RAW. The public meeting will be held on:

Tuesday, March 28, 2017
From 6:00 to 7:30 p.m.
Venice High School
Lunch Shelter
13000 Venice Boulevard, Los Angeles

HOW DO I PARTICIPATE?

The community has an opportunity to provide comments to LAUSD during the public comment period. All written comments must be postmarked or e-mailed by March 31, 2017. Comments concerning the RAW may be submitted in writing to the following address or emailed to dane.robinson@lausd.net:

LAUSD Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor, LA, CA 90017
(213) 241-4122 Telephone Number; (213) 241-6816 Facsimile
Attention: Dane Robinson, Site Assessment Project Manager

WHERE DO I GET MORE INFORMATION?

A copy of the RAW is available by appointment during regular office hours at the LAUSD Office of Environmental Health and Safety address listed above and at the following locations:

- **Venice High School Library:** 13000 Venice Blvd, Los Angeles, CA
- **Mar Vista Branch Library:** 12006 Venice Boulevard, Los Angeles, CA
- **LAUSD Website:** http://achieve.lausd.net/siteassessment

For information in Spanish please call Fortunato Tapia, LAUSD/FSD Community Relations
Main Line (213) 241-1340, Direct Line (213) 241-1338, or by email to fortunato.tapia@lausd.net

AVISO DE PERIODO DE COMENTARIO PÚBLICO Y REUNIÓN COMUNITARIA
PLAN DE TRABAJO DE ACCIÓN DE REMOCIÓN
VENICE HIGH SCHOOL
PROYECTO DE MODERNIZACIÓN SÍSMICA PARA EL COBERTIZO PARA COMER
13000 Venice Boulevard, Los Ángeles

PERIODO DE COMENTARIOS PÚBLICOS: 1 de marzo al 30 de marzo, 2017

¿QUE SE PROPONE?

El Distrito Unificado de Los Ángeles (por sus siglas en inglés, "LAUSD") invita al público que revise y envíe comentarios sobre el proyecto del Plan de Trabajo de Acción de Remoción (por sus siglas en inglés, "RAW") para la modernización sísmica de Venice High School en Los Ángeles, California. El Proyecto"RAW"presenta los resultados de las investigaciones ambientales realizadas; documenta la remoción y eliminación fuera del sitio de aproximadamente setenta y una yardas cúbicas (71 YC) de suelo con concentraciones elevadas de arsénico, e incluye recomendaciones relativas a las actividades de construcción que se planean para el futuro.

¿CUÁL ES EL PROPÓSITO DE ESTE AVISO Y CUANDO ES LA REUNIÓN?

El propósito de este aviso y de la reunión es de darle a la comunidad una oportunidad para obtener más información sobre el proyecto y para que envíen sus comentarios sobre el informe RAW. La junta comunitaria se llevará a cabo en:

Martes, 28 de marzo, 2017
De 6:00 a 7:30 p.m.
Venice High School
Cobertizo del Almuerzo
13000 Venice Boulevard, Los Ángeles

¿CÓMO PUEDO PARTICIPAR?

Usted tiene la oportunidad de enviar sus comentarios al LAUSD durante el período de comentarios públicos. Los comentarios escritos deben enviarse por correo o por correo electrónico antes del 31 de marzo de 2017. Los comentarios sobre el informe RAW pueden ser presentados por escrito a la siguiente dirección o por correo electrónico a dane.robinson@lausd.net:

Oficina de Seguridad y Salud Ambiental del LAUSD
333 South Beaudry Avenue, Piso 21, Los Ángeles, CA 90017
Tel (213) 241-4122; Fax (213) 241-6816
Atención: Dane Robinson, Gerente de Proyectos de Evaluación

¿DÓNDE PUEDO OBTENER MÁS INFORMACIÓN?

Una copia del informe RAW está disponible en la Oficina del LAUSD (dirección mencionada anteriormente). Por favor llame y haga una cita para su visita. Copias del informe también están disponibles en los siguientes lugares:

- **Venice High School:** 13000 Venice Boulevard, Los Ángeles, CA
- **Biblioteca Mar Vista:** 12006 Venice Boulevard, Los Ángeles, CA
- **Página Web del LAUSD:** http://achieve.lausd.net/siteassessment

Para información en español por favor llame a Fortunato Tapia, LAUSD/FSD Community Relations, línea principal (213) 241-1340, línea directa (213) 241-1338, o por correo electrónico fortunato.tapia@lausd.net.

Waste Profiling Data

Appendix B

Converse Project No. 16-41-186-01

Waste profile name: LAUSD - Venice High School
ID: f439bafc-ae2d-4e92-8773-8d6b2e9472cc

WASTE CONNECTIONS INC.

Status: DRAFT

GENERATOR

Name: LAUSD - Venice High School

Contact: Dane Robertson Email: dane.robinson@lausd.net
Phone: (213) 241-4122 x____ Mobile: (714) 801-3777 x____ Fax:

MATERIAL ORIGIN

Address: 13000 Venice Boulevard City: Los Angeles State: CA Zip Code: 90066 County: Los Angeles
EPA ID: CAD982025058 State ID:

DESTINATION FACILITY

Name: Chiquita Canyon LF

BILLING

Name: American Integrated Services, Inc.

Contact: John Farmer Email: jfarmer@americanintegrated.com
Phone: (714) 307-4322 x____ Mobile: Fax:

TRANSPORTER

Transporter Name: American Integrated Services, Inc.

Contact: Giovanni Carballo Email: gcarballo@americanintegrated.com
Phone: (661) 212-7238 x____ Mobile: Fax:

MATERIAL

Common Name: Non-Hazardous Waste Solid (Soil)
Generation Process: Excavation for campus modernization and new construction
Source of Contamination: Historical Agriculture use

MATERIAL COMPOSITION

Constituent Soil 98 % TO 100 %
Constituent Debris (plastic, PPE, concrete, gravel) 0 % TO 2 %

State Waste Codes: N/A
Color: Brown
Physical state at 70° F: ● Solid ○ Liquid ○ Sludge ○ Dust ○ Other
pH ____ TO ____
Strong Odor No Describe Odor
Reactivity Reactivity Explanation
Flash Point ○ < 140°F ○ 140°-199°F ○ > 200°F ● NA

REGULATORY

EPA Hazardous Waste? ○ Yes ● No

If **No**, Attached Non-Hazardous Determination Document(s) *(Check all that apply)*

☐ Process Knowledge Process Details
☐ SDS
☐ Certified Analytical Sample

Is the data derived from testing a representative sample in accordance with 40 CFR 261 and/or other applicable laws? ● Yes ○ No

If **Yes,** Type of Analytical Sample ○ Composite ● Grab Sample ID # SMP-B1 sample series

☐ Exempt Waste

Applicable Exempt Waste Item

○ UST Corrective Action - 40 CFR 261.4 (b)(10) ○ PCB Bulk Product Waste - 40 CFR 761.62 ○ Oil & Gas E&P Waste - 40 CFR 261.4 (b)(5)
○ RCRA-Empty Containers - 40 CFR 261.7 ○ Other

If **Other**, Provided reference

State Hazardous Waste? ○ Yes ● No
Is this material non-hazardous due to treatment, delisting, or exclusion? ○ Yes ● No
From an industry regulated under Benzene NESHAP? ○ Yes ● No

Facility remediation subject to 40 CFR 63 GGGGG? ○ Yes ● No

CERCLA or State-Mandated clean-up? ○ Yes ● No

Regulated, Licensed or NORM Radioactive Waste? ○ Yes ● No

Contains PCBs? ○ Yes ● No

Regulated and/or Untreated Medical/Infectious Waste? ○ Yes ● No

Contains Asbestos? ○ Yes ● No

Subject to RCRA Subpart CC controls? ○ Yes ● No

SHIPPING & DOT

Event Frequency ● One Time ○ On-Going

Estimated Annual Qty 100

Unit of Measure ○ Tons ● Yards ○ Drums ○ Gallons ○ Other

Shipping Frequency ● Once ○ Daily ○ Weekly ○ Monthly ○ Other

Qty Per Shipment 18Y

Container Type End-dump Transports

Container Size 25Y

USDOT Shipping Name

PROFILE CERTIFICATION

I hereby certify that (1) all information submitted on this form and on supplemental materials is complete and accurate to the best of my knowledge and ability to determine; (2) the information provided herein, including any supplemental information, such as laboratory analytical, MSDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed. I understand that, once the waste stream is approved by Destination Facility based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Destination Facility. I further understand that any deviation from the information contained herein will require immediate notification to the Destination Facility and cessation of disposal.

Certified On

Certified By

Certified As

Waste Manifests

Appendix C

Converse Project No. 16-41-186-01

1

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NOT REQUIRED	1	888-423-6060	0532692

5. Generator's Name and Mailing Address
Los Angeles Unified School District - OEHS
333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Generator's Phone: (213) 241-3199

Generator's Site Address (if different than mailing address)
LAUSD - Venice High School
13000 Venice Blvd., Los Angeles, CA 90066

6. Transporter 1 Company Name: R MUNOZ 15 — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chiquita Canyon Landfill
29201 Henry Mayo Drive., Castaic, CA 91384
Facility's Phone: (661) 257-3655
U.S. EPA ID Number: NOT REQUIRED

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Hazardous Waste, Solid (Soil)	001	DT	18	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Soil: 99-100% CCL Profile No: CCL-17-196
Debris: 0-1 %
Wear appropriate PPE when handling
Acct No: 2002
Project No: 37231
AOC: Lunch Shelter SMP

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Scott Anderson on behalf of LAUSD - OEHS — Signature — Month 7 Day 26 Year 17

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rigoberto Munoz — Signature — Month 7 Day 26 Year 17
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

169-BLC-O 5 11977 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

CHIQUITA CANYON LANDFILL
A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	1126619		DOLORESL

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
07/26/17	07/26/17	10:36	10:36	AIS-M15	

REFERENCE	ORIGIN
17-196	LOS ANGELES

2002
AMERICAN INTEGRATED SERVICES
ATTN: ACCOUNTS PAYABLE
PO BOX 92316
LONG BEACH, CA 90809

Scale Gross Wt. 74240
Stored Tare Wt. 35020
Net Weight 39220

Charge Ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
19.61	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1: LAUSD-VENICE HIGH SCHOOL
Note2: 13000 VENICE BLVD
Route: LOS ANGELES, CA 90066
PO Number 0532692

SIGNATURE:_____

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

JR 4

2

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone: 800-423-6060	4. Waste Tracking Number: 0532693

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District - OEHS
333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Generator's Phone: (213) 241-3199

Generator's Site Address (if different than mailing address)
LAUSD - Venice High School
13000 Venice Blvd., Los Angeles, CA 90066

6. Transporter 1 Company Name: J&R PAZ TRUCKING — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chiquita Canyon Landfill
29201 Henry Mayo Drive., Castaic, CA 91384
Facility's Phone: (661) 257-3655
U.S. EPA ID Number: NOT REQUIRED

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Hazardous Waste, Solid (Soil)	001	DT	18	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Soil: 99-100% CCL Profile No: CCL-17-195
Debris: 0-1 %
Wear appropriate PPE when handling
Acct No: 2002
Project No: 37231
AOC: Lunch Shelter SMP

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Scott Anderson on behalf of LAUSD - OEHS — Signature: Scott Anderson — Month 7 Day 20 Year 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JUAN PAZ — Signature — Month 7 Day 26 Year 17

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

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

169-BLC-O 5 /1977 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

CHIQUITA CANYON LANDFILL
A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	1126652		DOLORESL

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
07/26/17	07/26/17	11:12	11:12	A-JR4	

REFERENCE	ORIGIN
17-196	LOS ANGELES

2002
AMERICAN INTEGRATED SERVICES
ATTN: ACCOUNTS PAYABLE
PO BOX 92316
LONG BEACH, CA 90809

Scale Gross Wt. 77120
Stored Tare Wt. 29280
Net Weight 47840

Charge Ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
23.92	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1: LAUSD-VENICE HIGH SCHOOL
Note2: 13000 VENICE BLVD
Route: LOS ANGELES, CA 90066
PO Number 0532693

SIGNATURE:_____

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

3

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NOT REQUIRED	1	888-423-6838	0532694

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District - OEHS
333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Generator's Phone: (213) 241-3199

Generator's Site Address (if different than mailing address)
LAUSD - Venice High School
13000 Venice Blvd., Los Angeles, CA 90066

6. Transporter 1 Company Name: R MUNOZ 15 — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chiquita Canyon Landfill
29201 Henry Mayo Drive., Castaic, CA 91384
Facility's Phone: (661) 257-3655
U.S. EPA ID Number: NOT REQUIRED

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Hazardous Waste, Solid (Soil)	001	DT	18	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Soil: 99-100% CCL Profile No: CCL-17-196
Debris: 0-1 %
Wear appropriate PPE when handling
Acct No: 2002
Project No: 37231
AOC: Lunch Shelter SMP

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Scott Anderson on behalf of LAUSD - OEHS — Signature — Month 7 Day 26 Year 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Gigobefio MUNOZ — Signature — Month 7 Day 26 Year 17
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Carl — Signature — Month 7 Day 26 Year 17

CHIQUITA CANYON LANDFILL
A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	1126785		DOLORESL

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
07/26/17	07/26/17	13:44	13:44	AIS-M15	

REFERENCE	ORIGIN
17-196	LOS ANGELES

2002
AMERICAN INTEGRATED SERVICES
ATTN: ACCOUNTS PAYABLE
PO BOX 92316
LONG BEACH, CA 90809

Scale Gross Wt.	73180
Stored Tare Wt.	35020
Net Weight	38160

Charge Ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
19.08	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1:	LAUSD-VENICE HIGH SCHOOL
Note2:	13000 VENICE BLVD
Route:	LOS ANGELES, CA 90066
PO Number	0532694

SIGNATURE:_____

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

JR 4 4

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NOT REQUIRED	1	888-423-6060	0532695

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District - OEHS
333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Generator's Phone: (213) 241-3199

Generator's Site Address (if different than mailing address)
LAUSD - Venice High School
13000 Venice Blvd., Los Angeles, CA 90066

6. Transporter 1 Company Name: J&R PAZ TRUCKING — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chiquita Canyon Landfill
29201 Henry Mayo Drive., Castaic, CA 91384
Facility's Phone: (661) 257-3655
U.S. EPA ID Number: NOT REQUIRED

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Hazardous Waste, Solid (Soil)	001	DT	18	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Soil: 99-100% CCL Profile No: CCL-17-195
Debris: 0-1 %
Wear appropriate PPE when handling
Acct No: 2002
Project No: 37231
AOC: Lunch Shelter SMP

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Scott Anderson on behalf of LAUSD - OEHS — Signature: Scott Anderson — Month 7 Day 26 Year 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JUAN PAZ — Signature: [signature] — Month 7 Day 26 Year 17

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

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

CHIQUITA CANYON LANDFILL
A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	1126821		ALEXAG

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
07/26/17	07/26/17	14:39	14:39	A-JR4	

REFERENCE	ORIGIN
17-196	LOS ANGELES

2002
AMERICAN INTEGRATED SERVICES
ATTN: ACCOUNTS PAYABLE
PO BOX 92316
LONG BEACH, CA 90809

Scale Gross Wt. 77880
Stored Tare Wt. 29280
Net Weight 48600

Charge Ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
24.30	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1: LAUSD-VENICE HIGH SCHOOL
Note2: 13000 VENICE BLVD
Route: LOS ANGELES, CA 90066
PO Number 0532695

SIGNATURE:_____

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

5

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1	800-423-0359	0532696

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District - OEHS
333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Generator's Phone: (213) 241-3199

Generator's Site Address (if different than mailing address)
LAUSD - Venice High School
13000 Venice Blvd., Los Angeles, CA 90066

6. Transporter 1 Company Name: EB Logistic — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chiquita Canyon Landfill
29201 Henry Mayo Drive., Castaic, CA 91384
Facility's Phone: (661) 257-3655
U.S. EPA ID Number: NOT REQUIRED

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Waste, Solid (Soil)	001	DT	18	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Soil: 99-100% CCL Profile No: CCL-17-196
Debris: 0-1 %
Wear appropriate PPE when handling
LIGHT
6D29580
Acct No: 2002
Project No: 37231
AOC: Lunch Shelter SMP

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: SCOTT ANDERSON on behalf of LAUSD - OEHS — Signature: Scott Anderson — Month: 7 Day: 31 Year: 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Carlos Padilla — Signature: Carlos Padilla — Month: 7 Day: 31 Year: 17

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

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Leon — Signature — Month: 7 Day: 31 Year: 17

169-BLC-O 5 11977 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

CHIQUITA CANYON LANDFILL
A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	1128720		DOLORESL

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
07/31/17	07/31/17	10:37	10:58	17-196	

REFERENCE	ORIGIN
17-196	LOS ANGELES

2002
AMERICAN INTEGRATED SERVICES
ATTN: ACCOUNTS PAYABLE
PO BOX 92316
LONG BEACH, CA 90809

Scale Gross Wt.	50000
Scale Tare Wt.	24840
Net Weight	25160

Charge Ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
12.58	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1: LAUSD-VENICE HIGH SCHOOL
Note2: 13000 VENICE BLVD
Route: LOS ANGELES, CA 90066
PO Number 0532696

SIGNATURE:

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

6

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1	866-423-6060	0532697

GENERATOR

5. Generator's Name and Mailing Address

Los Angeles Unified School District - OEHS
333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017

Generator's Phone: (213) 241-3199

Generator's Site Address (if different than mailing address)

LAUSD - Venice High School
13000 Venice Blvd., Los Angeles, CA 90066

6. Transporter 1 Company Name: W.C. Logistics Inc — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

Chiquita Canyon Landfill
29201 Henry Mayo Drive., Castaic, CA 91384
(661) 257-3655

U.S. EPA ID Number: NOT REQUIRED

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Waste, Solid (Soil)	001	DT	18	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Soil: 99-10015 CCL Profile No: CCL-17-186
Debris: 0-1 %
Wear appropriate PPE when handling
LIC # CP92542
Acct No: 2082
Project No: 37231
ACC: Lunch Shelter SMP

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Scott ANDERSON on behalf of LAUSD - OEHS — Signature: Scott Anderson — Month: 8 Day: 2 Year: 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Isaac Rocera — Signature — Month: 08 Day: 02 Year: 17

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

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Alexa Grijalva — Signature — 8/2/17 — Month Day Year

CHIQUITA CANYON LANDFILL
A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	1130007		ALEXAG

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
08/02/17	08/02/17	14:17	14:17	ICS-WC7	

REFERENCE	ORIGIN
17-196	LOS ANGELES

2002
AMERICAN INTEGRATED SERVICES
ATTN: ACCOUNTS PAYABLE
PO BOX 92316
LONG BEACH, CA 90809

Scale Gross Wt.	59740
Stored Tare Wt.	26580
Net Weight	33160

Charge Ticket

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
16.58	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1: LAUSD-VENICE HIGH SCHOOL
Note2: 13000 VENICE BLVD
Route: LOS ANGELES, CA 90066
PO Number 0532697

SIGNATURE:_____

NET AMOUNT
TENDERED
CHANGE
CHECK NO

7

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1	800-423-8080	0532698

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District - OEHS
333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Generator's Phone: (213) 241-3199

Generator's Site Address (if different than mailing address)
LAUSD - Venice High School
13000 Venice Blvd., Los Angeles, CA 90066

6. Transporter 1 Company Name: WC Logistics — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chiquita Canyon Landfill
29201 Henry Mayo Drive., Castaic, CA 91384
Facility's Phone: (661) 257-3655
U.S. EPA ID Number: NOT REQUIRED

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Hazardous Waste, Solid (Soil)	001	DT	18	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Soil: 99-100% CCL Profile No: CCL-17-196
Debris: 0-1 %
Wear appropriate PPE when handling
Lic # 8F59966
Acct No: 2002
Project No: 37231
ACC: Lunch Shelter SMP

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: SCOTT ANDERSON on behalf of LAUSD - OEHS — Signature: Scott Anderson — Month: 8 Day: 2 Year: 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Pedro Velasco — Signature — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Alex Gonzalez — Signature — 8/2/17 — Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

TRANSPORTER #1

CHIQUITA CANYON LANDFILL
A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	1130024		ALEXAG

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
08/02/17	08/02/17	14:45	14:45	ICS-WC1301	

REFERENCE	ORIGIN
17-196	LOS ANGELES

2002
AMERICAN INTEGRATED SERVICES
ATTN: ACCOUNTS PAYABLE
PO BOX 92316
LONG BEACH, CA 90809

Scale Gross Wt.	65380
Stored Tare Wt.	25500
Net Weight	39880

Charge Ticket

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
19.94	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1: LAUSD-VENICE HIGH SCHOOL
Note2: 13000 VENICE BLVD
Route: LOS ANGELES, CA 90066
PO Number 0532698

SIGNATURE:_____

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Photographs

Appendix D

Converse Project No. 16-41-186-01

Areas A and B

Area B

Areas D, C, and B

Additional Excavation at Area D

Area E

Additional Excavation at Area E

Area F

Areas G through K

Additional Excavation at Area K

Analytical Reports and Chain of Custody Documentation

Appendix E

Converse Project No. 16-41-186-01

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

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

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

Number of Pages	**15**
Date Received	**07/26/2017**
Date Reported	**07/27/2017**

Job Number	Order Date	Client
88725	07/26/2017	CONVRS

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW
Site: Venice High School
13000 Venice Blvd.
Los Angeles, CA 90066

Enclosed please find results of analyses of 30 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.
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

CHAIN OF CUSTODY RECORD

104620

AETL JOB No. 8725

Page 1 of 5

COMPANY: CONVERSE
PROJECT MANAGER: JEZ
COMPANY ADDRESS: 717 S. MYRTLE AV MONROVIA 91016
PHONE: 626 930-1234
FAX:
PROJECT NAME: ~~LA03D-RAW~~ LA03D - VENICE RAW
PROJECT #: 16-41-186-01
SITE NAME AND ADDRESS: Venice High School, 13000 VENICE BLVD, LA, CA
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	A-WSW1	8725-01	7-26-17	10:10	soil	1 4oz jar	
2	A-B1	8725-02		10:12			
3	A-SSW1	8725-03		10:14			
4	A-NSW1	8725-04		10:15			
5	B-NSW1	8725-05		10:17			
6	B-ESW1	8725-06		10:19			
7	B-ESW2	8725-07		10:21			
8	B-WSW1	8725-08		10:22			
9	A-B2	8725-09		10:24			
10	B-B1	8725-10		10:26			
11	C-B1	8725-11		10:28			
12	C-B2	8725-12		10:30			
13	C-ESW1	8725-13		10:32			
14	C-WSW1	8725-14		10:34			
15	D-B1	8725-15		10:36			

ANALYSIS REQUESTED

As - EPA 6010
X
X
X
X
X
X
X
X
X
X
X
X
X
X
X

TEST INSTRUCTIONS & COMMENTS

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)

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	RELINQUISHED BY: Signature:	RELINQUISHED BY: Signature:
	Printed Name: JOHN ZIEGLER	Printed Name:	Printed Name: Sergio P
	Date: 7/26/17 Time: 15:40	Date: Time:	Date: 7/26/17 Time: 1800
RECEIVED BY:	Signature:	RECEIVED BY: Signature:	RECEIVED BY LABORATORY: AETL Signature:
	Printed Name: Sergio P	Printed Name:	Printed Name: Hugh Laude
	Date: 7/26/17 Time: 1540	Date: Time:	Date: 07/26/17 Time: 1800

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

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

CHAIN OF CUSTODY RECORD

104622

AETL JOB No. 88725

COMPANY: CONVERGE
PROJECT MANAGER: JR2
COMPANY ADDRESS: 717 MYRTLE AV. MONROVIA 91016
PHONE: 626 930-1234
FAX:
PROJECT NAME: LA/SD - VENICE RAW
PROJECT #: 16-41-186-01
SITE NAME AND ADDRESS: Venice High School, 13000 Venice BLVD, LA, CA
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	D-ESW1	88725.16	7-26-17	10:38	soil	1 4oz Jar	
2	D-WSW1	88725.17		10:40			
3	D-SSW1	88725.18		10:40			
4	D-B2	88725.19		10:42			
5	DUP1	88725.20		10:24			
6	DUP2	88725.21		10:38			
7	DUP3	88725.22		12:38			
8	E-NSW1	88725.23		12:33			
9	E-ESW1	88725.24		12:34			
10	E-ESW2	88725.25		12:35			
11	E-WSW1	88725.26		12:36			
12	E-WSW2	88725.27		12:37			
13	E-B1	88725.28		12:39			
14	E-B2	88725.29		12:40			
15	E-SSW1	88725.30		12:41			

ANALYSIS REQUESTED

A2 - EPA 6020
X
X
X
X
X
X
X
X
X
X
X
X
X
X
X

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	30	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:	RELINQUISHED BY: Signature:	RELINQUISHED BY: Signature:
	Printed Name: JOHN ZIEGLER	Printed Name:	Printed Name: Sarah P
	Date: 7/26/17 Time: 15:40	Date: Time:	Date: 7/26/17 Time: 1800
RECEIVED BY:	Signature:	RECEIVED BY: Signature:	RECEIVED BY LABORATORY: AETL Signature:
	Printed Name: Sarah P	Printed Name:	Printed Name: Dean Vande
	Date: 7/26/17 Time: 1540	Date: Time:	Date: 07/26/17 Time: 1800

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

American Environmental Testing Laboratory Inc.
2834 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

COOLER RECEIPT FORM

Client Name: Converse
Project Name: LAUSD - Venice RAW
AETL Job Number: 88725 & 88726
Date Received: 07/26/17 Received by: Jean Conde
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3°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?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	Y		

Explain all "No" answers for above questions:

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Ordered By

Converse Consultants
717 S Myrtle Ave
Monrovia, CA 91016-

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

Project ID: 16-41-186-01
Date Received 07/26/2017
Date Reported 07/27/2017

Job Number	Order Date	Client
88725	07/26/2017	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 07/26/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
88725.01	A-WSW1	07/26/2017	Soil	1
88725.02	A-B1	07/26/2017	Soil	1
88725.03	A-SSW1	07/26/2017	Soil	1
88725.04	A-NSW1	07/26/2017	Soil	1
88725.05	B-NSW1	07/26/2017	Soil	1
88725.06	B-ESW1	07/26/2017	Soil	1
88725.07	B-ESW2	07/26/2017	Soil	1
88725.08	B-WSW1	07/26/2017	Soil	1
88725.09	A-B2	07/26/2017	Soil	1
88725.10	B-B1	07/26/2017	Soil	1
88725.11	C-B1	07/26/2017	Soil	1
88725.12	C-B2	07/26/2017	Soil	1
88725.13	C-ESW1	07/26/2017	Soil	1
88725.14	C-WSW1	07/26/2017	Soil	1
88725.15	D-B1	07/26/2017	Soil	1
88725.16	D-ESW1	07/26/2017	Soil	1
88725.17	D-WSW1	07/26/2017	Soil	1
88725.18	D-SSW1	07/26/2017	Soil	1
88725.19	D-B2	07/26/2017	Soil	1
88725.20	DUP1	07/26/2017	Soil	1
88725.21	DUP2	07/26/2017	Soil	1
88725.22	DUP3	07/26/2017	Soil	1
88725.23	E-NSW1	07/26/2017	Soil	1
88725.24	E-ESW1	07/26/2017	Soil	1

Continued

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Project ID: 16-41-186-01
Date Received 07/26/2017
Date Reported 07/27/2017

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

Job Number	Order Date	Client
88725	07/26/2017	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

88725.25	E-ESW2	07/26/2017	Soil	1
88725.26	E-WSW1	07/26/2017	Soil	1
88725.27	E-WSW2	07/26/2017	Soil	1
88725.28	E-B1	07/26/2017	Soil	1
88725.29	E-B2	07/26/2017	Soil	1
88725.30	E-SSW1	07/26/2017	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	07/27/2017	2	Rush	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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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C1

Our Lab I.D.			Method Blank	88725.01	88725.02	88725.03	88725.04
Client Sample I.D.				A-WSW1	A-B1	A-SSW1	A-NSW1
Date Sampled				07/26/2017	07/26/2017	07/26/2017	07/26/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
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	2.76	2.26	7.23	2.27

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C1

Our Lab I.D.			88725.05	88725.06			
Client Sample I.D.			B-NSW1	B-ESW1			
Date Sampled			07/26/2017	07/26/2017			
Date Prepared			07/26/2017	07/26/2017			
Preparation Method			3050B	3050B			
Date Analyzed			07/27/2017	07/27/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	2.32	2.19			

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C1

Our Lab I.D.			**88725.07**				
Client Sample I.D.			B-ESW2				
Date Sampled			07/26/2017				
Date Prepared			07/26/2017				
Preparation Method			3050B				
Date Analyzed			07/27/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	17.2				

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C1

Our Lab I.D.			88725.08	88725.09	88725.10		
Client Sample I.D.			B-WSW1	A-B2	B-B1		
Date Sampled			07/26/2017	07/26/2017	07/26/2017		
Date Prepared			07/26/2017	07/26/2017	07/26/2017		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/27/2017	07/27/2017	07/27/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	3.20	2.52	2.59		

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C2

Our Lab I.D.			Method Blank	88725.11	88725.12	88725.13	88725.14
Client Sample I.D.				C-B1	C-B2	C-ESW1	C-WSW1
Date Sampled				07/26/2017	07/26/2017	07/26/2017	07/26/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
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	3.10	4.55	2.64	5.31

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C2

Our Lab I.D.			88725.15	88725.16	88725.17	88725.18	
Client Sample I.D.			D-B1	D-ESW1	D-WSW1	D-SSW1	
Date Sampled			07/26/2017	07/26/2017	07/26/2017	07/26/2017	
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.05	0.10	4.35	2.88	3.27	8.81	

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C2

Our Lab I.D.			88725.19				
Client Sample I.D.			D-B2				
Date Sampled			07/26/2017				
Date Prepared			07/26/2017				
Preparation Method			3050B				
Date Analyzed			07/27/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	20.1				

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C2

Our Lab I.D.			88725.20				
Client Sample I.D.			DUP1				
Date Sampled			07/26/2017				
Date Prepared			07/26/2017				
Preparation Method			3050B				
Date Analyzed			07/27/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.24				

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C3

Our Lab I.D.			Method Blank	88725.21	88725.22	88725.23	88725.24
Client Sample I.D.				DUP2	DUP3	E-NSW1	E-ESW1
Date Sampled				07/26/2017	07/26/2017	07/26/2017	07/26/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
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	3.27	3.72	2.97	3.31

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C3

Our Lab I.D.			**88725.25**				
Client Sample I.D.			E-ESW2				
Date Sampled			07/26/2017				
Date Prepared			07/26/2017				
Preparation Method			3050B				
Date Analyzed			07/27/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	20.8				

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C3

Our Lab I.D.			88725.26	88725.27	88725.28	88725.29	88725.30
Client Sample I.D.			E-WSW1	E-WSW2	E-B1	E-B2	E-SSW1
Date Sampled			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
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	3.35	3.80	3.40	3.80	6.64

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C1; Dup or Spiked Sample: 88725.01; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; 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	2.76	1.00	3.86	110	1.00	3.81	105	4.7	80-120	<15

QC Batch No: 0726171C1; Dup or Spiked Sample: 88725.01; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; 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	1.01	101	1.00	0.989	98.9	2.1	80-120	<15	

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C2; Dup or Spiked Sample: 88725.11; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.10	1.00	4.10	100	1.00	4.24	114	13.1	80-120	<15

QC Batch No: 0726171C2; Dup or Spiked Sample: 88725.11; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; 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	1.01	101	1.00	1.01	101	<1	80-120	<15	

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S Myrtle Ave
Monrovia, CA 91016-

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

Site

Venice High School
13000 Venice Blvd.
Los Angeles, CA 90066

Page: **15**

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88725	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C3; Dup or Spiked Sample: 88725.21; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.27	1.00	4.72 #	145	1.00	4.70 #	143	1.4	80-120	<15

QC Batch No: 0726171C3; Dup or Spiked Sample: 88725.21; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; 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	1.01	101	1.00	1.04	104	2.9	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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

Number of Pages 14 **Date Received 07/26/2017** **Date Reported 07/27/2017**

Job Number	Order Date	Client
88726	07/26/2017	CONVRS

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW
Site: Venice High School
13000 Venice Blvd.
Los Angeles, CA 90066

Enclosed please find results of analyses of 33 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

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CHAIN OF CUSTODY RECORD

104621

AETL JOB No. 88726

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 Myrtle Av. MONROVIA 91016
PHONE / FAX: 626-930-1234
PROJECT NAME: LAUSD- Venice Raw
PROJECT #: 16-41-186-01
SITE NAME AND ADDRESS: Venice High School, 13000 Venice Blvd, LA, CA
PO #:

ANALYSIS REQUESTED: As-EPA 6020

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	As-EPA 6020
1	F-NSW1	88726.01	7-26-17	3:46	Soil	1 4oz Jar		X
2	F-ESW1	88726.02		3:48				X
3	F-WSW1	88726.03		3:45				X
4	F-SSW1	88726.04		3:47				X
5	F-B1	88726.05		3:44				X
6	G-NSW1	88726.06		2:48				X
7	G-ESW1	88726.07		2:46				X
8	G-SSW1	88726.08		2:51				X
9	G-B1	88726.09		2:50				X
10	H-NSW1	88726.10		~~3:03~~ 3:02				X
11	H-[illegible]SW1	88726.11		3:06				X
12	H-B1M	88726.12		3:04				X
13	I-NSW1	88726.13		3:08				X
14	I-WSW1	88726.14		3:08				X
15	I-WSW2	88726.15		3:09				X

TEST INSTRUCTIONS & COMMENTS:

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. Signature: [signature] Printed Name: JOHN ZIEGLER Date: 7/26/17 Time: 15:40	RELINQUISHED BY: 2. Signature: Printed Name: Date: Time:	RELINQUISHED BY: 3. Signature: [signature] Printed Name: Sargis P Date: 7/26/17 Time: 1800
RECEIVED BY: 1. Signature: [signature] Printed Name: Sargis P Date: 7/26/17 Time:	RECEIVED BY: 2. Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: 3. AETL Signature: [signature] Printed Name: [signature] Date: 7/26/17 Time: 1800

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

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CHAIN OF CUSTODY RECORD

104617

AETL JOB No. 88726

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 Myrtle Ave. Monrovia 91016
PHONE: FAX 626-930-1234
PROJECT NAME: LAUSD - Venice Raw
PROJECT #: 16-41-186-01
SITE NAME AND ADDRESS: Venice High School 13000 Venice Blvd, LA, CA
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	I-B1	88726.16	7/26/17	3:20	Soil	1 Aoz Jar	
2	I-B2	88726.17		3:21			
3	I-B3	88726.18		3:22			
4	I-SSW1	88726.19		3:11			
5	J-ESW1	88726.20		3:23			
6	J-SSW1	88726.21		3:10			
7	J-B1	88726.22		3:24			
8	K-B1	88726.23		2:53			
9	K-NSW1	88726.24		2:58			
10	~~K-NSW2~~	—					
11	K-ESW1	88726.25		2:55			
12	K-ESW2	88726.26		2:56			
13	K-WSW1	88726.27		3:18			
14	~~K-WSW2~~	—					
15	~~K-SSW1~~						

ANALYSIS REQUESTED

As EPA 6020

X														
X														
X														
X														
X														
X														
X														
X														
X														
X														
X														
X														
X														
X														
X														

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	12	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☐ NORMAL ☒ RUSH ☐ SAME DAY ☒ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	RELINQUISHED BY: Signature:	RELINQUISHED BY: Signature:
	Printed Name: JOHN ZIEGLER	Printed Name:	Printed Name: Sargis P
	Date: 7/26/17 Time: 1544	Date: Time:	Date: 7/26/17 Time: 1800
RECEIVED BY:	Signature:	RECEIVED BY: Signature:	RECEIVED BY LABORATORY: AETL 3. Signature:
	Printed Name: Sargis P	Printed Name:	Printed Name:
	Date: 7/26/17 Time: 1540	Date: Time:	Date: 7/26/17 Time: 1800

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

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CHAIN OF CUSTODY RECORD

104618

AETL JOB No. 88726

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 Myrtle Ave. Monrovia 91016
PHONE: 626-930-1234
FAX:
PROJECT NAME: LAUSD-Venice Raw
PROJECT #: 16-41-186-01
SITE NAME AND ADDRESS: Venice High School 13000 Venice Blvd, LA, CA
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	K-SSW2	88726.28	7-26-17	3:12	soil	1402 jar	
2	K-SSW1	88726.29	"	3:18	"	"	
3	DUP4	88726.30		3:25			
4	DUP5	88726.31		3:26			
5	DUP6	88726.32		3:27			
6	KCSW1	88726.33		3:19			
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

As EPA 6020										
X										
X										
X										
X										
X										

TEST INSTRUCTIONS & COMMENTS

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:	Signature:	Signature:
	Printed Name: JOAN ZIEGLER	Printed Name:	Printed Name: Sawyer
	Date: 7/26/17 Time: 15:40	Date: Time:	Date: 7/26/17 Time: 1800
RECEIVED BY:	Signature:	Signature:	RECEIVED BY LABORATORY: AET
	Printed Name: Sawyer	Printed Name:	Signature:
	Date: 7/26/17 Time: 1540	Date: Time:	Printed Name: Jean Lauda
			Date: 07/26/17 Time: 1800

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

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COOLER RECEIPT FORM

Client Name: Converse

Project Name: LAUSD - Venice RAW

AETL Job Number: 88725 & 88726

Date Received: 07/26/17 Received by: Jean Conde

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

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.3°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?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	Y		

Explain all "No" answers for above questions:

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Ordered By

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

Project ID: 16-41-186-01
Date Received 07/26/2017
Date Reported 07/27/2017

Job Number	Order Date	Client
88726	07/26/2017	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 33 samples with the following specification on 07/26/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
88726.01	F-NSW1	07/26/2017	Aqueous	1
88726.02	F-ESW1	07/26/2017	Aqueous	1
88726.03	F-WSW1	07/26/2017	Aqueous	1
88726.04	F-SSW1	07/26/2017	Aqueous	1
88726.05	F-B1	07/26/2017	Aqueous	1
88726.06	G-NSW1	07/26/2017	Aqueous	1
88726.07	G-ESW1	07/26/2017	Aqueous	1
88726.08	G-SSW1	07/26/2017	Aqueous	1
88726.09	G-B1	07/26/2017	Aqueous	1
88726.10	H-NSW1	07/26/2017	Aqueous	1
88726.11	H-WSW1	07/26/2017	Aqueous	1
88726.12	H-B1	07/26/2017	Aqueous	1
88726.13	I-NSW1	07/26/2017	Aqueous	1
88726.14	I-WSW1	07/26/2017	Aqueous	1
88726.15	I-WSW2	07/26/2017	Aqueous	1
88726.16	I-B1	07/26/2017	Aqueous	1
88726.17	I-B2	07/26/2017	Aqueous	1
88726.18	I-B3	07/26/2017	Aqueous	1
88726.19	I-SSW1	07/26/2017	Aqueous	1
88726.20	J-ESW1	07/26/2017	Aqueous	1
88726.21	J-SSW1	07/26/2017	Aqueous	1
88726.22	J-B1	07/26/2017	Aqueous	1
88726.23	K-B1	07/26/2017	Aqueous	1
88726.24	K-NSW1	07/26/2017	Aqueous	1

Continued

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

Project ID: 16-41-186-01
Date Received 07/26/2017
Date Reported 07/27/2017

Job Number	Order Date	Client
88726	07/26/2017	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

88726.25	K-ESW1	07/26/2017	Aqueous	1
88726.26	K-ESW2	07/26/2017	Aqueous	1
88726.27	K-WSW1	07/26/2017	Aqueous	1
88726.28	K-SSW2	07/26/2017	Aqueous	1
88726.29	K-SSW1	07/26/2017	Aqueous	1
88726.30	DUP4	07/26/2017	Aqueous	1
88726.31	DUP5	07/26/2017	Aqueous	1
88726.32	DUP6	07/26/2017	Aqueous	1
88726.33	KCSW1	07/26/2017	Aqueous	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	07/27/2017	2	Rush	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

Converse Consultants
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Monrovia, CA 91016-

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

Site

Venice High School
13000 Venice Blvd.
Los Angeles, CA 90066

Page: **2**

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C4

Our Lab I.D.			Method Blank	88726.01	88726.02	88726.03	88726.04
Client Sample I.D.				F-NSW1	F-ESW1	F-WSW1	F-SSW1
Date Sampled				07/26/2017	07/26/2017	07/26/2017	07/26/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
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	4.78	4.50	5.21	5.13

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ANALYTICAL RESULTS

Ordered By

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Site

Venice High School
13000 Venice Blvd.
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Page: 3

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C4

Our Lab I.D.			88726.05	88726.06	88726.07	88726.08	88726.09
Client Sample I.D.			F-B1	G-NSW1	G-ESW1	G-SSW1	G-B1
Date Sampled			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
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	4.45	6.72	3.58	5.20	4.45

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
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Site

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13000 Venice Blvd.
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Telephone: (626)930-1200
Attn: John Ziegler
Page: **4**

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C4

Our Lab I.D.			**88726.10**				
Client Sample I.D.			H-NSW1				
Date Sampled			07/26/2017				
Date Prepared			07/26/2017				
Preparation Method			3050B				
Date Analyzed			07/27/2017				
Matrix			Aqueous				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	6.16				

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ANALYTICAL RESULTS

Ordered By

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Site

Venice High School
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Page: **5**

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C5

Our Lab I.D.			Method Blank	88726.11	88726.12	88726.13	88726.14
Client Sample I.D.				H-WSW1	H-B1	I-NSW1	I-WSW1
Date Sampled				07/26/2017	07/26/2017	07/26/2017	07/26/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
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	8.65	4.97	12.0	5.35

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ANALYTICAL RESULTS

Ordered By

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

Site

Venice High School
13000 Venice Blvd.
Los Angeles, CA 90066

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C5

Our Lab I.D.			88726.15	88726.16	88726.17	88726.18	88726.19
Client Sample I.D.			I-WSW2	I-B1	I-B2	I-B3	I-SSW1
Date Sampled			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
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	4.77	4.92	5.36	5.77	6.91

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Page: **7**

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C5

Our Lab I.D.			88726.20				
Client Sample I.D.			J-ESW1				
Date Sampled			07/26/2017				
Date Prepared			07/26/2017				
Preparation Method			3050B				
Date Analyzed			07/27/2017				
Matrix			Aqueous				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	5.64				

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Page: **8**

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C6

Our Lab I.D.			Method Blank	88726.21	88726.22	88726.23	88726.24
Client Sample I.D.				J-SSW1	J-B1	K-B1	K-NSW1
Date Sampled				07/26/2017	07/26/2017	07/26/2017	07/26/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
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	4.99	8.34	5.86	5.00

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C6

Our Lab I.D.			88726.25				
Client Sample I.D.			K-ESW1				
Date Sampled			07/26/2017				
Date Prepared			07/26/2017				
Preparation Method			3050B				
Date Analyzed			07/27/2017				
Matrix			Aqueous				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	14.1				

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Page: **10**

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C6

Our Lab I.D.			88726.26	88726.27	88726.28	88726.29	88726.30
Client Sample I.D.			K-ESW2	K-WSW1	K-SSW2	K-SSW1	DUP4
Date Sampled			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
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	6.19	3.99	4.86	10.8	6.72

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Page: **11**

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C6

Our Lab I.D.			88726.31	88726.32	88726.33		
Client Sample I.D.			DUP5	DUP6	KCSW1		
Date Sampled			07/26/2017	07/26/2017	07/26/2017		
Date Prepared			07/26/2017	07/26/2017	07/26/2017		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/27/2017	07/27/2017	07/27/2017		
Matrix			Aqueous	Aqueous	Aqueous		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	9.47	7.77	6.00		

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C4; Dup or Spiked Sample: 88726.01; LCS: Clean Water; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; 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	4.78	1.00	5.43 #	65.0	1.00	5.49 #	71.0	8.8	80-120	<15

QC Batch No: 0726171C4; Dup or Spiked Sample: 88726.01; LCS: Clean Water; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; 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	0.978	97.8	1.00	0.985	98.5	<1	80-120	<15	

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Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C5; Dup or Spiked Sample: 88726.11; LCS: Clean Water; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; 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	8.65	1.00	9.35 #	70.0	1.00	9.35 #	70.0	<1	80-120	<15

QC Batch No: 0726171C5; Dup or Spiked Sample: 88726.11; LCS: Clean Water; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; 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	1.00	100	1.00	0.994	99.4	<1	80-120	<15	

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Page: **14**

Project ID: 16-41-186-01
Project Name: LAUSD-Venice RAW

AETL Job Number	Submitted	Client
88726	07/26/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0726171C6; Dup or Spiked Sample: 88726.21; LCS: Clean Water; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; 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	4.99	1.00	6.43 #	144	1.00	6.39 #	140	2.8	80-120	<15

QC Batch No: 0726171C6; Dup or Spiked Sample: 88726.21; LCS: Clean Water; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; 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	1.02	102	1.00	0.977	97.7	4.3	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Number of Pages	**3**
Date Received	**07/31/2017**
Date Reported	**07/31/2017**

Job Number	Order Date	Client
88783	07/31/2017	CONVRS

Project ID: 16-41-186-01
Project Name: LAUSD Venice RAW
Site: Venice High School
13000 Venice Blvd.
Los Angeles, CA

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

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CHAIN OF CUSTODY RECORD

№ 98044

AETL JOB No. 88783

Page 1 of 1

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 S. MYRTLE AV, MONROVIA 91016
PHONE: 626 930-1234
FAX:
PROJECT NAME: LAUSD VENICE ~~HS~~ RAW
PROJECT #: 16-41-186-01
SITE NAME AND ADDRESS: VENICE HIGHSCHOOL, 13000 VENICE BLVD LA CA
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6010 AS	TEST INSTRUCTIONS & COMMENTS
1	B-ESW-3	88783.01	7/31/17	8:25	SOIL	1 JAR 1 CUP		X	RUN SAMPLE FROM CUP
2	~~B~~								
3	D-B3	88783.02		8:33				X	
4	E-ESW-3	88783.03		8:55				X	
5	K-ESW-3	88783.04		9:15				X	
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	8	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:			
Printed Name:	JOHN ZIEGLER	MARK ANSON	
Date:	7/31/17	7-31-17	
Time:	10:02	11:00	
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			
Printed Name:	MARK ANSON	Christine Norshadaya	
Date:	7-31-17	7/31/17	
Time:	10:02	11:00	

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

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Project ID: 16-41-186-01
Date Received 07/31/2017
Date Reported 07/31/2017

Job Number	Order Date	Client
88783	07/31/2017	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 4 samples with the following specification on 07/31/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
88783.01	B-ESW-3	07/31/2017	Soil	2
88783.02	D-B3	07/31/2017	Soil	2
88783.03	E-ESW-3	07/31/2017	Soil	2
88783.04	K-ESW-3	07/31/2017	Soil	2

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/31/2017	1	Rush	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Page: **2**

Project ID: 16-41-186-01
Project Name: LAUSD Venice RAW

AETL Job Number	Submitted	Client
88783	07/31/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731171C1

Our Lab I.D.			Method Blank	88783.01	88783.02	88783.03	88783.04
Client Sample I.D.				B-ESW-3	D-B3	E-ESW-3	K-ESW-3
Date Sampled				07/31/2017	07/31/2017	07/31/2017	07/31/2017
Date Prepared			07/31/2017	07/31/2017	07/31/2017	07/31/2017	07/31/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/31/2017	07/31/2017	07/31/2017	07/31/2017	07/31/2017
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	2.77	8.06	17.4	21.0

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Page: **3**

Project ID: 16-41-186-01
Project Name: LAUSD Venice RAW

AETL Job Number	Submitted	Client
88783	07/31/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731171C1; Dup or Spiked Sample: 88783.01; LCS: Clean Sand; QC Prepared: 07/31/2017; QC Analyzed: 07/31/2017; 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	2.77	1.00	3.69	92.0	1.00	3.65	88.0	4.4	80-120	<15

QC Batch No: 0731171C1; Dup or Spiked Sample: 88783.01; LCS: Clean Sand; QC Prepared: 07/31/2017; QC Analyzed: 07/31/2017; 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	1.08	108	1.00	1.04	104	3.8	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Ordered By

Converse Consultants
717 S Myrtle Ave
Monrovia, CA 91016-

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

Number of Pages 3
Date Received 08/03/2017
Date Reported 08/03/2017

Job Number	Order Date	Client
88843	08/03/2017	CONVRS

Project ID: 16-41-186-01
Project Name: Venice High School RAW
Site: Venice High School
13000 Venice Blvd.
Los Angeles, CA 90066

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

№ 97049

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 S. MYRTLE AV. MONROVIA 91016
PHONE: 626 930-1234
FAX:
PROJECT NAME: Venice High School RAW
PROJECT #: 16-41-186-01
SITE NAME AND ADDRESS: Venice High School 13000 Venice Blvd LA CA
PO #:
AETL JOB No. 88843
Page 1 of 1

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	As - EPA 6020	TEST INSTRUCTIONS & COMMENTS
1	E-ESW-8	88843.01	8/2/17	9:45	SOIL	1 Jar + Cup		X	ANALYZE SUP
2	E-ESW-9	88843.02	8/2/17	9:48	SOIL	1 Jar + Cup		X	" "
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	2	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

Same Day

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: JOHN ZIEGLER	Printed Name:	Printed Name:
Date: 8/2/17 Time: 2015	Date: Time:	Date: 8/3/17 Time: 1030
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Antin
Date: 8/3/17 Time: 915	Date: Time:	Date: 08/03/17 Time: 1030

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

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Ordered By

Converse Consultants 717 S Myrtle Ave Monrovia, CA 91016-	Project ID: 16-41-186-01 Date Received 08/03/2017 Date Reported 08/03/2017

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

Job Number	Order Date	Client
88843	08/03/2017	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 2 samples with the following specification on 08/03/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
88843.01	E-ESW-8	08/02/2017	Soil	1
88843.02	E-ESW-9	08/02/2017	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	08/03/2017	1	Rush	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S Myrtle Ave
Monrovia, CA 91016-

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

Site

Venice High School
13000 Venice Blvd.
Los Angeles, CA 90066

Page: **2**

Project ID: 16-41-186-01
Project Name: Venice High School RAW

AETL Job Number	Submitted	Client
88843	08/03/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0803171C9

Our Lab I.D.			Method Blank	**88843.01**	**88843.02**		
Client Sample I.D.				E-ESW-8	E-ESW-9		
Date Sampled				08/02/2017	08/02/2017		
Date Prepared			08/03/2017	08/03/2017	08/03/2017		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			08/03/2017	08/03/2017	08/03/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	ND	8.13	10.5		

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S Myrtle Ave
Monrovia, CA 91016-

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

Site

Venice High School
13000 Venice Blvd.
Los Angeles, CA 90066

Page: **3**

Project ID: 16-41-186-01
Project Name: Venice High School RAW

AETL Job Number	Submitted	Client
88843	08/03/2017	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0803171C9; Dup or Spiked Sample: 88843.01; LCS: Clean Sand; QC Prepared: 08/03/2017; QC Analyzed: 08/03/2017; 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	8.13	1.00	8.79 #	66.0	1.00	9.21	108	48.3	80-120	<15

QC Batch No: 0803171C9; Dup or Spiked Sample: 88843.01; LCS: Clean Sand; QC Prepared: 08/03/2017; QC Analyzed: 08/03/2017; 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	1.02	102	1.00	1.02	102	<1	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
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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

Data Validation Report

Appendix F

Converse Project No. 16-41-186-01

DATA VALIDATION MEMO

From: John Ziegler

To: Michael Van Fleet, Project File

Date August 11, 2017

Subject: **Removal Action Implementation**
Seismic Modernization Project, Venice High School
Converse Project 16-41-186-01

DATA VALIDATION

This data validation is presented for the laboratory analysis of samples collected as part of the Removal Action (RA) implementation for the removal of soil potentially impacted with arsenic.

Analytical reports reviewed are:

Laboratory Report Number	Arsenic
88725	X
88726	X
88783	X
88843	X

The Quality Assurance (QA) objectives of the investigation are to assure that sampling, analysis and reporting activities provide data that are accurate, precise, representative, and legally defensible. Quality Control (QC) represents the specific steps and procedures followed during the course of the project to achieve QA. The primary QC features included the collection and analysis of QC samples, and the data validation.

Data validation is a process of evaluating the performance of data collection against the pre-determined method, procedural, or contractual requirements specified in the Removal Action Workplan (RAW). It routinely evaluates how closely the implementation has been followed during data generation in the field and laboratory. It checks for improper practices, abuse and warning signs shown during the investigation, it determines if the available data satisfies the project's Data Quality Objectives (DQOs) and data use requirements by evaluating the data reports for field sampling procedures, and laboratory performance and error checks.

Converse conducted this Level II data validation for fixed laboratory analytical results provided by American Environmental Testing Laboratories (AETL), including review of project QC program, sampling procedures, analytical procedures, data reports, and DQOs. Each review is presented below.

REVIEW OF PROJECT QC PROGRAM

To ensure that chemical data is of the highest confidence and quality, the review of QC program was divided into two parts: basic QC procedures and QC samples. Except as noted below, no findings were identified affecting the quality of the samples collected or the resulting data results.

Basic QC Procedures: Basic QC evaluation criteria include field decontamination, supplies, holding times, equipment calibration and maintenance, and standards.

Field Decontamination: Non-dedicated equipment was decontaminated before and/or after each sample was collected.

Supplies: All supplies were certified clean by the suppliers, inspected by Converse prior to their use and monitored by the laboratories and Converse through the use of standards and blank samples.

Holding Times: Compliance with holding time requirements was verified. All holding times were met.

Equipment Calibration and Maintenance: The laboratories stated that analytical equipment calibration and maintenance were properly performed as recommended by the manufacturers and described in the laboratories' QAQC Plans. The laboratories' documentation of compliance and raw data will be made available to Converse upon request and may be subject to audit by State of California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) inspectors through ELAP certification process.

Standards: The laboratories stated that standards used for calibration or to prepare samples were currently certified by or traceable to National Institute of Standards and Technology (NIST) or another equivalent source. The laboratories' documentation of compliance will be made available to Converse upon request and may be subject to audit by ELAP inspectors through ELAP certification process.

QC Samples: Appropriate QC samples include field QC samples, background samples, field testing confirmation samples, and laboratory QC samples.

Field QC Samples: Field QC samples included the collection of duplicate samples, at a rate approximately 10% of the primary samples collected.

Background Samples: No background samples were required because screening levels/cleanup levels are provided for the chemicals of concern; background data for metals was provided by the Los Angeles Unified School District (LAUSD).

Field Test Confirmation Samples: All field samples were submitted to the fixed laboratory for analysis.

Laboratory QC Samples: Laboratory QC sample types included method blanks, laboratory duplicates, Laboratory Control Samples (LCS), Matrix Spikes (MS), and Matrix Spike Duplicates (MSD). The laboratories analyzed QC samples to monitor the precision and accuracy of its analytical procedures, at a rate not less than one laboratory QC sample per type per batch of up to 20 samples (including blanks and duplicates).

REVIEW OF SAMPLING PROCEDURES

Field activities were planned, conducted and completed in a manner consistent with the RAW Document and were monitored through a field audit and documentation. No specific findings were identified affecting the quality of the samples collected or the resulting data results.

Field Documentation: Field logs and other documentations were reviewed regarding sampling procedures (e.g. sample containers, collection, preservation, packaging, transportation, receipt, handling and storage, chain of custody, holding time, and decontamination procedures) conducted intermittently from July 26, 2017 through August 3, 2017.

Sample Conditions: Upon receipt, the laboratories inspected the condition of the sample containers and reported the information accordingly on the chain-of-custody forms (which were attached to the analytical report). If conditions or problems were identified, which would require immediate resolution, the laboratories would immediately notify Converse. Such conditions may include wrong sample container, container breakage, water leaks, missing or improper chain-of-custody, exceeded holding times, improper preservation, missing or illegible sample labeling, or temperature excursions. Converse did not receive any such notification from AETL.

REVIEW OF ANALYTICAL PROCEDURES

Converse only evaluated the criteria of analytical method, instrument calibration and Reporting Limits (RLs). All analyses were performed as specified in AETL's Standard Operating Procedures (SOPs), and EPA Methods listed below. Except as noted below, no findings were identified affecting the quality of the samples collected or the resulting data results.

Analytical Method:

Soil – Arsenic - EPA Method 6020

Laboratory Certification: All samples were analyzed by an ELAP certified laboratory. No subcontracted laboratory was used. The laboratories' QA/QC manual and SOPs are maintained in project files. The laboratory was instructed to report any estimated values (i.e., between the method detection (MDL) and (RL) with a "J" qualifier.

Calibrations: Instrument calibrations shall be checked as specified in the applicable method and the laboratory's QA/QC Plan prior to analysis. Analyte concentrations can be determined with either calibration curves or response factors, as defined in the method. The laboratories have maintained records of standard preparation and instrument calibration (procedures, frequency and results). As discussed in the Review of Project QC Program (Equipment Calibration and Maintenance), the laboratories' documentation and raw data will be made available upon request and may be subject to audit by ELAP inspectors through ELAP certification process. Records unambiguously trace the preparation of standards and their use in calibration and quantitation of sample results.

Reporting limits (RLs): The RLs for the various analyses must be defensible, not less than the results of the laboratory's MDL study, and not greater than the approved screening levels. The laboratory used the approved RLs and ran its lowest calibration standards at or near its RLs. RLs are presented as Practical Quantitation Limits (PQLs) in the analytical reports.

REVIEW OF DATA REPORTS

Data review was performed to ensure that the data produced were credible, cost effective, and of known and defensible quality. The data was reviewed in accordance with the RAW Document, the laboratories SOPS, the principles present in *USEPA N*ational Functional Guidelines for Laboratory Data Review - Organics (EPA, 1999) and *USEPA* National Functional Guidelines for Laboratory Data Review - Inorganics (EPA, 2002), and the professional judgment of the validation team.

Selected soil samples were analyzed for arsenic in accordance with EPA Method 6020.

Completeness of Laboratory Report: The analytical reports were considered complete because they contained the following information: laboratory/client/sample IDs, ELAP certification number, project name, sample matrix, sample collection/preservation/preparation/extraction/ analysis dates, analytical methods, analytes, reporting units/limits, dilution factors, report page numbering system, designated title and signatures.

Chain of Custody: A set of Chain of Custody forms was included with each analytical report. The Chain of Custody's were properly completed. The laboratories marked sample conditions on the forms upon receipt.

Sample Containers and Conditions: As discussed previously in the Review of Sampling Procedures (Sample Conditions), the laboratories marked the sample container conditions as normal on the Chain of Custody forms.

Holding Times: All analyses were performed within the method-specified holding time as follows

Soil - Arsenic – 180 days

Preservation: No specific chemical preservation requirements were required for the analyses. All samples were placed in a cooler on ice during transport and storage as specified in the RAW Document.

Field QC Samples (Equipment Rinsate Blanks): No equipment rinsate blanks were collected as dedicated sampling equipment was used. All sample were collected directly into 4-ounce glass jars provided by the analytical laboratory.

Field QC Samples (Field Duplicates): Six (6) soil field duplicate samples were collected and submitted to the laboratory. The relative percent difference (RPD) was calculated for the duplicate samples for arsenic. The RPD for all samples for which concentrations were reported was within an acceptable range (less than 100). The data is deemed acceptable. A summary of the RPDs is attached.

In instances where there are no field duplicates or when field duplicates yield no usable numbers (i.e. ND), the MS/MSD results are used to evaluate the precision of the analysis. All MS/MSD recoveries were within stated limits.

Laboratory QC Samples (Method Blanks): No target analytes were detected in the associated method blanks for soil. The method blank results were acceptable.

Laboratory QC Samples (LCS): The percent (%) recoveries of all spiked analytes were within the laboratory's acceptance criteria of:

Soil - Arsenic – 80-120%

The LCS results were acceptable.

Laboratory QC Samples (MS/MSD): Matrix spike (MS) and matrix spike duplicates (MSD) were prepared by AETL for each batch of analyses for soil, soil vapor, and water. The percent recoveries for all MS and MSD samples were within the control limits for arsenic in soil of 80-120 percent with the exception of the following:

> AETL Job #88725, 88726 - QC sample 0726171C3 (DUP2) and 0726171C4 (F-NSW1) – the MS/MSD percent recoveries were outside of the control limits for arsenic. The QC sample was run using the LCS/LCSD, which was within the control limits.

The relative percent difference (RPD) for the MS/MSD samples was calculated by AETL. All RPDs were with the laboratories stated control limits of <15% for metals,

Compound Identification and Quantitation: The analytical report contained data for the target analytes in milligrams per kilogram (mg/kg) for the soil samples analyzed for arsenic. Qualitatively, the analytes were documented to be correctly identified and reported. However, raw data were not reviewed as part of Level II data validation. Result recalculation or transcription error checking from the raw data was conducted separately by AETL. Analytical results were checked, verified and confirmed to be correctly calculated by AETL.

Dilution Factors: Dilution factors were reported in four (4) of the samples analyzed as follows:

Laboratory Report Number	Sample ID	Dilution Factor	Analysis
American Environmental Testing Laboratory Inc.			
88725	B-ESW2	10	Arsenic
	D-B2	10	Arsenic
	E-ESW2	10	Arsenic
88726	K-ESW1	10	Arsenic

Data Qualifiers: Data validation flags, as defined in the National Functional Guidelines, indicate if results are considered anomalous, quantitative, estimated, or rejected. All qualifiers should be discussed prior to utilizing the chemical data for the screening risk evaluation. Only rejected data are unusable for decision making purposes; however, other qualified data may require further verification.

AETL was instructed to report any "J" flagged values if there were any. The "J" flagged values were noted in the analytical reports. "J" flags indicate the value is between the MDL and PQL. No "J" flags were reported. In addition, the laboratory reports contained one other data qualifier: "X" indicated results represent LCS and LCSD data used in lieu of MS/MSD data, respectively. No other qualifiers were attached to the data.

Observations of Significance: No occurrences which might adversely affect sample integrity or data quality were noted in the analytical reports.

REVIEW OF DATA QUALITY OBJECTIVES (DQOs)

The project DQOs were evaluated to determine whether the quantitative and qualitative needs of the sampling and analysis program had been met. DQOs were specified in terms of specific Data Quality Indicators (DQIs), i.e. precision, accuracy, representativeness, completeness, comparability, and RLs. The data generated from the investigation may not be considered invalid if the DQOs or criteria are not fully achieved, but variances will trigger the appropriate QA/QC measures needed to evaluate and correct these activities, if necessary.

Qualitative DQIs: Qualitative DQIs are comparability and representativeness,

Comparability: Comparability expresses the confidence with which one data set can be compared to another. AETL used the specified EPA Methods 6020, consistent with the current standards of practice as approved by USEPA and DTSC. The method specified in the RAW Scoping Document allows the data to be evaluated for trends or changes (in space or time) at the Site. All data were calculated and reported in units consistent with standard procedures so that the results of the analyses can be compared with those of other laboratories, if necessary. The DQI for comparability has been met.

Representativeness: Representativeness is the degree to which data accurately and precisely represent the actual Site conditions (in terms of a population, parameter variations at a sampling point, process condition, or environmental condition). To address representativeness, the RAW Document specified sufficient and proper number and locations of samples; incorporating appropriate sampling methodologies; specifying and performing proper sample collection and preservation techniques; selecting appropriate methods to prepare and analyze soil samples; and, establishing proper field

and laboratory QA/QC procedures for the parameters of interest. Samples were collected and analyzed in accordance with the RAW Document. As such the samples are considered representative of the actual site conditions. The DQI for representativeness has been met.

Quantitative DQIs: Quantitative DQIs are precision, accuracy, completeness, and RLs. Precision and accuracy objectives, based on statistically generated limits established annually by the laboratory, were viewed as goals, not as criteria. If matrix bias is suspected, the associated data will be qualified and the direction of the bias indicated in the data validation report.

Precision: Precision measures the reproducibility of repetitive measurements by assessing the RPD between field sample and field duplicate analyses, MS/MSD analyses, and field sample and laboratory duplicate analyses.

Blind field duplicate samples were collected/submitted to the laboratory. The relative percent difference (RPD) was calculated for the duplicate samples. RPDs for the six (6) duplicate pairs were less than the goal of 100. A summary of the RPDs is attached as **Table 2**.

In instances where there are no field duplicates or when field duplicates yield no usable numbers, the MS/MSD results are used to evaluate the precision of the analysis. All MS/MSD recoveries (with the exception of arsenic as noted above which was within the stated limits for LCS/LCSD recovery) were within stated limits as such the DQI for precision is met.

Accuracy: Accuracy is a statistical measurement (the degree of agreement of a measurement with a known or true value) of correctness and includes components of random error (variability due to imprecision) and systematic error.

Laboratory accuracy is expressed as the % recovery by assessing LCS, MS and MSD. Acceptable percent recoveries for the LCS, MS/MSD, and the MS/MSD RPD and RPD for the MS/MDS are:

	LCS	MS/MSD	MS/MSD RPD
Arsenic	80-120	80-120	<15

All recoveries of LCS, MS and MSD, except as noted above, were reported within the corresponding control limits. The accuracy DQI has been met.

Completeness: Completeness is the amount of valid data obtained compared to the amount expected under ideal conditions. The DQO for completeness is to obtain valid results for at least 90% of the planned data results. Completeness may be affected by such factors as sample bottle

breakage and acceptance/nonacceptance of analytical results. The analytical data for the samples are considered 100% complete and the DQI for completeness has been met.

RLs: AETL reported the following MDLs and PQLs

Reporting limits were in accordance with those identified in the QAPP, with the exception of the following:

Analyte	Soil (mg/kg)	
	MDL	PQL
Arsenic	0.05	0.1

A screening level of 12.0 mg/kg has been established for arsenic. The RAW Document requires that the laboratory report detected concentrations that are above the MDL but below the RL. Therefore, these RLs for various analyses meet the objectives of having sufficient quality data to perform a screening risk evaluation.

CONCLUSIONS

Based on this Level II validation, all data collected through implementation of the RA satisfy data quality requirements specified for the assessment. The analyses followed the approved method and included acceptable QC procedures. The relevant QA/QC results were satisfactory and acceptable. Overall, the presented data (including the qualified results) are reliable and useable for project decision making.

RECOMMENDATION

It is recommended that the data be used to evaluate the completeness of the response action.

TABLE 1

ACCEPTABILITY		
QUALITY INDICATOR	Soil	Water
Completeness of Laboratory Reports (e.g , laboratory, client, and sample identifications; ELAP certification number, project name, sample matrix, sample collection, preservation, preparation, extraction, analysis dates; analytical methods; analytes; reporting units and limits; dilution factors; report page numbering system; designated title and signatures).	Y	NA
Sample Extraction	Lab	NA
Reporting Limit (RL)	Lab	NA
Chain of Custody	Y	NA
Sample Containers and Conditions	Y	NA
Holding Time	Y	NA
Sample Preservation	Y	NA
Equipment Rinseate Blanks	NA	NA
Field Duplicates	Y	NA
Field QC Samples -Others	NA	NA
Surrogate Recoveries	NA	NA
Method Blanks	Y	NA
LCS % recovery	Y	NA
MS/MSD % Recovery	Y	NA
MS/MSD % RPD	Y	NA
Laboratory Duplicates	Y	NA
Laboratory QC Samples -Others	Y	NA
Compound Identification	Y	NA
Compound Quantitation	Y	NA
Dilution Factors	Y	NA
Data Qualifiers	Y	NA
Confirmation of Positive Samples	Y	NA
Observations of Significance	NA	NA
Case Narrative	Lab	NA
Instrument Tuning	Lab	NA
Initial Calibration	Lab	NA
Calibration Verification	Lab	NA
Interference Check Standard	Lab	NA
Others	NA	NA

NOTES
Y = acceptable or in compliance
NA = not applicable
See Discussion = see discussions in the section of Review of Data Reports
Lab = responsible by the Laboratory

Table 2
Data Validation
Relative Percent Difference
Arsenic - EPA 6020
Venice High School

Sample ID	Sample Date	Laboratory Job Number	Arsenic mg/kg
A-B2	7/26/2017	88725	2.52
ZDUP1	7/26/2017	88725	2.24
Relative Percent Difference			**11.76**
D-ESW1	7/26/2017	88725	2.88
ZDUP2	7/26/2017	88725	3.27
Relative Percent Difference			**12.68**
E-WSW2	7/26/2017	88725	3.80
ZDUP3	7/26/2017	88725	3.72
Relative Percent Difference			**2.13**
K-B1	7/26/2017	88726	5.86
ZDUP4	7/26/2017	88726	6.72
Relative Percent Difference			**13.67**
H-NSW1	7/26/2017	88726	6.16
ZDUP5	7/26/2017	88726	9.47
Relative Percent Difference			**42.35**
I-NSW1	7/26/2017	88726	12.0
ZDUP6	7/26/2017	88726	7.77
Relative Percent Difference			**42.79**

All concentrations in milligrams per kilogram (mg/kg)