

**APPENDIX F- ENVIRONMENTAL SITE ASSESSMENT PHASE II**

---

*AEI Consultants - December 6, 2018*

***This Page Intentionally Left Blank***



# AEI Consultants

December 6, 2018

## LIMITED SOIL INVESTIGATION

### Property Identification:

123-145 West Pomona Avenue and  
1528-1532 South Primrose Avenue  
Monrovia, California 91016

AEI Project No. 392121

### Prepared for:

Mr. Greg Vance  
FRC Realty, Inc.  
1250 6<sup>th</sup> Street, Suite # 403  
Santa Monica, California 90401

### Prepared by:

AEI Consultants  
2207 West 190<sup>th</sup> Street  
Torrance, California 90277  
310-798-4255

Environmental  
Due Diligence

Building  
Assessments

Site Investigation  
& Remediation

Energy Performance  
& Benchmarking

Industrial Hygiene

Construction  
Risk Management

Zoning Analysis  
Reports & ALTA  
Surveys

National Presence

Regional Focus

Local Solutions

# TABLE OF CONTENTS

<b>1.0 SITE DESCRIPTION .....</b>	<b>1</b>
<b>2.0 BACKGROUND .....</b>	<b>2</b>
<b>3.0 INVESTIGATION EFFORTS .....</b>	<b>2</b>
3.1 Health and Safety Plan.....	2
3.2 Permitting and Utility Clearance.....	2
3.3 Drilling and Soil Sample Collection .....	3
3.4 Boring Destruction .....	3
3.5 Laboratory Analyses.....	4
3.6 Investigation Derived Wastes .....	4
<b>4.0 FINDINGS.....</b>	<b>4</b>
4.1 Geology and Hydrogeology.....	4
4.2 Soil Sample Analytical Results: TPH, SVOCs.....	5
4.3 Soil Sample Analytical Results: Metals.....	5
<b>5.0 SUMMARY AND CONCLUSIONS.....</b>	<b>5</b>
<b>6.0 REPORT LIMITATIONS AND RELIANCE.....</b>	<b>7</b>

## FIGURES

Figure 1	Site Location Map
Figure 2	Site Map

## TABLES

Table 1	Soil Sample Data Summary: TPH and SVOCs
Table 2	Soil Sample Data Summary: Metals

## APPENDICES

Appendix A	Boring Logs
Appendix B	Laboratory Analytical Reports



# AEI Consultants

December 6, 2018

Mr. Greg Vance  
FRC Realty, Inc.  
1250 6<sup>th</sup> Street, Suite # 403  
Santa Monica, California 90401

**Subject: Limited Soil Investigation**  
123-145 West Pomona Avenue and  
1528-1532 South Primrose Avenue  
Monrovia, California 91016  
AEI Project No. 392121

AEI Consultants (AEI) is pleased to provide this report which describes the activities and results of the Limited Soil Investigation (the "Investigation") performed at the above referenced subject property, herein referred to as the "Site" (Figures 1 and 2). This Investigation was completed in general accordance with the scope of services outlined in our authorized proposal number 60235.

## **1.0 SITE DESCRIPTION**

The Site is bordered by West Evergreen Avenue to the north, South Primrose Avenue to the west, and West Pomona Avenue to the south in a combined commercial and industrial area of Monrovia, California (Figure 2). The Site is approximately 1.82-acres in size and consists of two single-story combined warehouse and office buildings. There are three concrete and asphalt parking areas on the Site separated by the two Site buildings. The eastern most parking area is located along the eastern portion of the Site. A second parking area is centrally-located between the two Site buildings. The westernmost parking area is located along South Primrose Avenue. The Site is also improved with concrete walkways and minor associated landscaping.

The Site is relatively flat and sits at an elevation of approximately 453 feet above mean sea level. The regional topographic gradient direction slopes toward the south-southwest and, therefore, the direction of groundwater flow beneath the Site is inferred to be to the south-southwest.

Groundwater monitoring data was obtained from California's State Water Resources Control Board Geotracker website for Pacific Atlas Oil (former Arco Station) located at 1601 South Myrtle Avenue, across West Pomona Avenue, approximately 0.06-mile east-southeast of the Site. As of December 2011, the depth to groundwater ranged between 212.75 feet and 222.82 feet below ground surface (bgs) and the average depth to groundwater was approximately 218.42 feet bgs.

According to the Mount Wilson and Azusa Map, published by the Dibblee Geologic Foundation, the Site is underlain by Holocene-aged unconsolidated and eroded alluvial deposits consisting of gravel, sand, and silt of the valley areas.

## **2.0 BACKGROUND**

A Phase I Environmental Site Assessment (ESA) was performed by AEI and documented in a report dated August 13, 2018 (AEI Project Number 392121). As detailed in the Phase I ESA, the Site was utilized for agricultural purposes between approximately 1928 and 1949. Between 1952 and 1964, the Site was used as a lumber storage yard with no associated buildings on-Site. By 1966, a warehouse building had been constructed at 123 West Pomona Avenue. Between 1966 and 1995, the Site was occupied by a hardware and lumber store (under multiple names, including Myrtle Avenue Lumber, Bill Ding Lumber, and True Value) utilizing the remainder of the Site as a lumber yard. Since the closing of the hardware and lumber store, the 123 West Pomona Avenue portion of the Site has been occupied by a fitness center, a church, and currently by a wine club distributor. The multi-tenant light warehouse/office building that is presently located at 137 West Pomona Avenue was constructed in 1997, and has since, been occupied by several various small businesses (none of which have any environmental significance). Currently, the 5-unit building is occupied by a vape cigarette distributor, a trade show stage storage company, a Chinese furniture importer, and two furniture and household storage companies. Additionally, the westernmost parking lot is currently leased by the City of Monrovia.

During the time that the Site was used as a lumber yard, other than the hardware store building (123 West Pomona Avenue) the majority of the Site appeared to be unpaved dirt lots. Historically, the wood stored at lumber yards would include chemically treated lumber, typically spray applied. The most common types of chemicals were semi-volatile organic compounds (SVOCs), including creosote. As such, the former use of the Site as a lumber yard was identified as a recognized environmental condition (REC) by AEI. Currently, the entirety of the Site is either paved or covered by structures; however, AEI understands that the Site is currently planned for redevelopment as a mixed residential and commercial use property. Consequently, AEI recommended that soil sampling be conducted at the Site to assess whether the historical lumber yard operations have adversely impacted the Site subsurface.

## **3.0 INVESTIGATION EFFORTS**

AEI was requested to perform a Limited Soil Investigation including the collection of soil samples, to determine whether the historical lumber yard operations have adversely impacted the Site.

This work was performed under the oversight of a California licensed Professional Geologist.

### **3.1 Health and Safety Plan**

A site-specific health and safety plan was prepared, reviewed by onsite personnel, and kept onsite for the duration of the fieldwork.

### **3.2 Permitting and Utility Clearance**

Drilling permits were not required for this investigation. The public underground utility locating service DigAlert was notified to identify public utilities in the work area. On November 16, 2018, private utility locating was conducted by Pacific Coast Locators (PCL) of La Crescentia, California to identify underground utilities on the Site. The geophysical survey was conducted using a magnetometer, ground penetrating radar and digital locator. Where potential subsurface utilities or potential obstructions were identified, the boring locations were adjusted accordingly.



During the utility location a previously unknown anomaly was identified in the northwest portion of the Site in the area of the proposed boring B-9. Approximate dimensions of this feature were not provided to AEI. While the anomaly could not be definitively identified, the anomaly profile is consistent with that of a small underground storage tank (UST) or small clarifier. Boring B-9 was slightly relocated from its original location to adjacent to this feature.

### **3.3 Drilling and Soil Sample Collection**

On November 19, 2018, nine soil borings (B-1 through B-9) were advanced throughout three the parking areas at the Site (Figure 2). Borings B-1 through B-3 were located in the easternmost parking area. Borings B-4 through B-6 were located in the center parking area. Borings B-7 through B-9 were located in the westernmost parking area. The borings were advanced by J&H Drilling of Buena Park, California using Geoprobe model 5400 limited access direct-push drilling rig. The borings were advanced to a depth of approximately 10 feet bgs. The locations of each boring are listed below:

- Boring B-1 was advanced in the southeastern portion of the Site.
- Boring B-2 was advanced in the eastern portion of the Site.
- Boring B-3 was advanced in the northeastern portion of the Site.
- Boring B-4 was advanced in the northern portion of the Site.
- Boring B-5 was advanced in the center portion of the Site.
- Boring B-6 was advanced in the southern portion of the Site.
- Boring B-7 was advanced in the southwestern portion of the Site.
- Boring B-8 was advanced in the western portion of the Site.
- Boring B-9 was advanced in the northwestern portion of the Site.

The borings were advanced using 2.25-inch outer diameter rods and samples were collected by advancing the rods with acetate sample liners in approximately 5-foot intervals. After each interval, the core was retrieved, core barrel disassembled, and the sample liner was removed and transferred to the onsite geologist.

The soil borings were logged using the Unified Soil Classification System. A photo ionization detector (PID) was used to screen soil samples in the field and the PID readings for each sample were included on the boring logs (Appendix A). One soil sample from each boring, with the highest PID reading, was selected for laboratory analysis. Selected soil samples were sealed with Teflon tape and plastic end caps.

Down-hole equipment was decontaminated using a triple rinse system containing detergent.

### **3.4 Boring Destruction**

Following completion of sample collection and removal of tooling, the borings were backfilled with hydrated bentonite chips and completed at the surface with black-dyed concrete to match the surrounding conditions.

### **3.5 Laboratory Analyses**

The soil samples were labeled and placed into a cooler with ice following sampling. The samples were transferred under appropriate chain-of-custody documentation to Asset Laboratories of Cerritos, California. Laboratory analytical documentation is provided in Appendix B.

Laboratory analysis of nine (9) soil samples consisted of the following:

- Semi-Volatile Organic Compounds (SVOCs) by U.S. Environmental Protection Agency (EPA) Test Method 8270C
- Title 22 metals by U.S. EPA Test Method 6010B/7471A

Laboratory analysis of one (1) soil sample consisted of the following:

- Total Petroleum Hydrocarbons (TPH as gasoline, diesel, and oil) using US Environmental Protection Agency (EPA) Test Method 8015M

### **3.6 Investigation Derived Wastes**

No investigation derived waste was created during this investigation.

## **4.0 FINDINGS**

The soil results were analyzed as part of this investigation were reviewed and compared to the May 2018 U.S. EPA Industrial and Residential Regional Screening Levels (RSLs), Region 9. The RSLs are risk-based concentrations derived from standardized equations combining exposure information assumptions with U.S. EPA toxicity data. The RSLs are used for site screening and as initial cleanup goals, if applicable. The RSLs are considered by the U.S. EPA to be protective for humans (including sensitive groups) over a lifetime; however, they are not always applicable to a particular site and do not address non-human health endpoints, such as ecological impacts.

The soil results for metals were further compared to the background concentrations of metals that naturally exists in Southern California soils. A study titled *Background Concentrations of Trace and Major Elements in California Soils*, dated March 1996, by the Kearney Foundation of Soil Science was also reviewed for information on the concentrations of background metals in California soils. The Kearney report is a relevant source used by public policy makers and those in the private sector concerned with environmental remediation and land use planning.

### **4.1 Geology and Hydrogeology**

Sediments encountered in each of the borings generally consisted of a yellowish brown, well graded, fine to coarse-grained, dry, moderately dense sand with little silt between 0.4- and approximately 7-feet bgs. This sand was overlain by asphalt and underlain by a silty sand to the terminal depth of 10-feet bgs in each of the nine borings (Appendix A).

Groundwater was not encountered in borings B-1 through B-9 and was not part of this investigation.



#### **4.2 Soil Sample Analytical Results: TPH, SVOCs**

The following information is a summary of the soil sample analytical test results. This information has also been included in Table 1. The laboratory reports have been included as Appendix B of this Report.

- Total Petroleum Hydrocarbons as gas (TPH-g), diesel (TPH-d), and oil (TPH-o) were not detected above laboratory reporting limits in the soil sample analyzed
- Phenol was detected in the sample analyzed from boring B-6 at a concentration of 0.36 milligrams per kilogram (mg/kg). The detected concentration is below both its residential and industrial RSL.
- No other SVOCs were detected in samples from any of the borings above the laboratory reporting limits.

#### **4.3 Soil Sample Analytical Results: Metals**

The following information is a summary of the soil sample analytical test results. This information has also been included in Table 2. The laboratory reports have been included as Appendix B of this Report.

- Metals (arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, zinc) were detected in the samples analyzed at concentrations exceeding their respective reporting limits. The detected concentrations were below their respective regulatory screening levels and/or were within established background concentrations.

### **5.0 SUMMARY AND CONCLUSIONS**

AEI has completed a Limited Soil Investigation at the Site to evaluate current conditions related to the former lumberyard activities which took place on the Site from 1966 through 1995 as described in the Phase I ESA by AEI dated August 13, 2018. A total of nine borings (B-1 through B-9) were advanced at the Site for the collection of soil samples. One soil sample from each boring (with the highest PID reading) was selected for laboratory analysis. A subsurface anomaly consistent with the signature of a small UST or clarifier was identified in the area of boring B-9. AEI submitted the soil sample from the anticipated depth from below this feature for the additional analysis of TPH.

The soil samples submitted to the laboratory for analysis as part of this investigation were analyzed for semi-volatile organic compounds (SVOCs), metals, and TPH. Phenol was detected in one soil sample (B-6-10') above the laboratory reporting limit. The detected concentration of phenol is below both its residential and industrial RSLs. No other SVOCs were detected at concentrations at or above their respective practical quantitation limits (PQLs) in the soil samples submitted for analysis. Metals were detected in the soil samples; however, the detected concentrations were below their respective regulatory screening levels and/or were within established background levels. TPH was not detected at or above the PQL in the single soil sample analyzed. Based on these results, it is AEI's opinion that no further action is warranted.



## Limited Soil Investigation

123-145 West Pomona Avenue and 1528-1532 South Primrose Avenue, Monrovia, California 92016

The client should be aware of the subsurface anomaly in the area of boring B-9 and that further evaluation may be needed to positively identify this feature.

## **6.0 REPORT LIMITATIONS AND RELIANCE**

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the Site. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

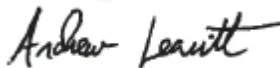
Any conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work. No other warranty, either expressed or implied, has been made.

This investigation was prepared for the sole use and benefit of Mr. Kevin Farrell/FRC Realty, Inc. All reports, both verbal and written, whether in draft or final, are for the benefit of Mr. Kevin Farrell/FRC Realty, Inc. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by Mr. Kevin Farrell. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

If there are any questions regarding our investigation, please do not hesitate to contact AEI at 310-798-4255.

Sincerely,

**AEI Consultants**



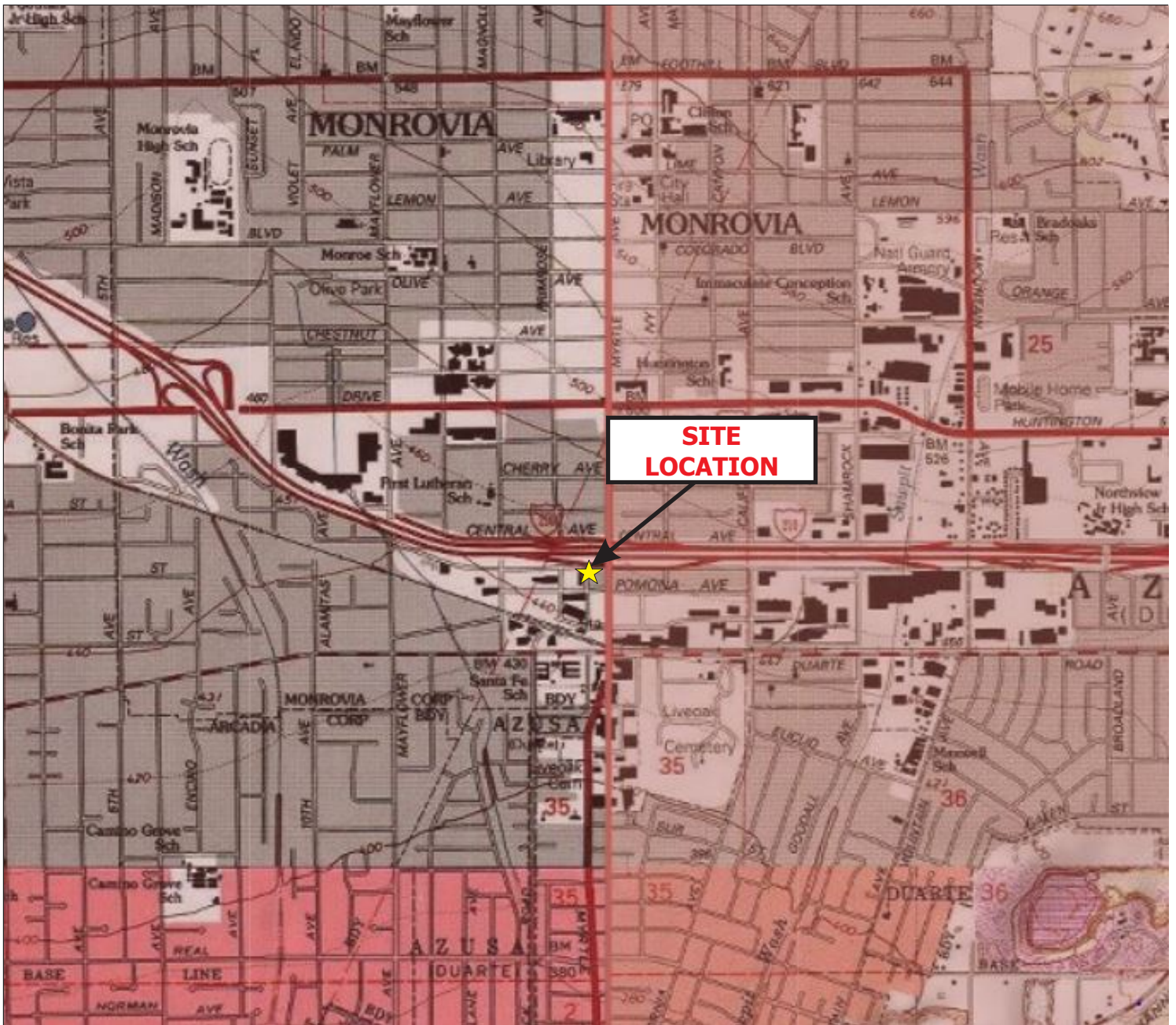
Andrew Leavitt, P.G.  
Project Manager



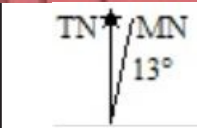
Kent Vollmer, P.G., C.E.G.  
Department Manager



## FIGURES



**SITE  
LOCATION**



**LEGEND**

Map: Mt. Wilson, California Quadrangle  
 Date: 1995  
 Source: USGS



**AEI Consultants**

2207 West 190th Street, Torrance, California 90504

**SITE LOCATION MAP**

123-145 West Pomona Avenue &  
 1528-1532 South Primrose Avenue  
 Monrovia, California 91016

**FIGURE 1**  
 Project No. 392121



SCALE: 1" = 80'



**LEGEND**

- Approximate Property Boundary
- ⊕ **B-9** Approximate Sampling Locations
- ⊞ Approximate Location of Potential UST/Clarifier Identified During Utility Locate

**AEI Consultants**

2207 West 190th Street, Torrance, California 90504

**SITE MAP**

123-145 West Pomona Avenue &  
1528-1532 South Primrose Avenue  
Monrovia, California 91016

**FIGURE 2**  
Project No. 392121

## **TABLES**

**TABLE 1: SOIL SAMPLE DATA SUMMARY**  
**123-145 West Pomona Avenue and 1528-1531 South Primrose Avenue, Monrovia, California 91016**  
**AEI Project No. 392121**

Location ID	Date	Depth (feet bgs)	U.S. EPA Method 8015M for TPH			U.S. EPA Method 8270C - for SVOCs						
			TPH-g	TPH-d	TPH-o	Anthracene	Chrysene	Fluorene	Napthalene	Phenol	Pyrene	Other SVOCs
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
B-1	11/19/2018	5	NA	NA	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.33	ND<0.005	<PQL
B-2	11/19/2018	10	NA	NA	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.33	ND<0.005	<PQL
B-3	11/19/2018	10	NA	NA	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.33	ND<0.005	<PQL
B-4	11/19/2018	10	NA	NA	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.33	ND<0.005	<PQL
B-5	11/19/2018	10	NA	NA	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.33	ND<0.005	<PQL
B-6	11/19/2018	10	NA	NA	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.36	ND<0.005	<PQL
B-7	11/19/2018	10	NA	NA	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.33	ND<0.005	<PQL
B-8	11/19/2018	10	NA	NA	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.33	ND<0.005	<PQL
B-9	11/19/2018	10	ND<1.0	ND<10	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.33	ND<0.005	<PQL
Comparison Values in mg/kg from U.S. EPA Regional Industrial Screening Levels for Region 9; THQ=0.1; November 2018			220	44	350,000	23,000	2,100	3,000	17	25,000	2,300	Varies
Comparison Values in mg/kg from U.S. EPA Regional Residential Screening Levels for Region 9; THQ=0.1; November 2018			52	9.6	230,000	1,800	110	240	3.8	1.9	180	Varies

Notes:

Analyses performed by Asset Laboratories, Cerritos, California	TPH	Total Petroleum Hydrocarbons
mg/kg	TPH-g	Total Petroleum Hydrocarbons as gasoline
ND<	TPH-d	Total Petroleum Hydrocarbons as diesel
bgs	TPH-o	Total Petroleum Hydrocarbons as oil
SVOCs		
J		
EPA		
--		
NA		

Estimated value above laboratory method detection limit, but below the limit for reporting  
Environmental Protection Agency  
A regulatory limit has not been published for this analyte  
Not analyzed



**TABLE 2: SOIL SAMPLE METALS DATA SUMMARY**  
**123-145 West Pomona Avenue and 1528-1531 South Primrose Avenue, Monrovia, California 91016**  
**AEI Project No. 392121**

**U.S. EPA Method 6010B/7471A for CAM-17 Metals (TTLIC)**

<b>Location ID</b>	<b>Date</b>	<b>Depth</b> (feet bgs)	<b>Antimony</b> (mg/kg)	<b>Arsenic</b> (mg/kg)	<b>Barium</b> (mg/kg)	<b>Beryllium</b> (mg/kg)	<b>Cadmium</b> (mg/kg)	<b>Chromium</b> (mg/kg)	<b>Cobalt</b> (mg/kg)	<b>Copper</b> (mg/kg)	<b>Lead</b> (mg/kg)	<b>Mercury</b> (mg/kg)	<b>Molybdenum</b> (mg/kg)	<b>Nickel</b> (mg/kg)	<b>Selenium</b> (mg/kg)	<b>Silver</b> (mg/kg)	<b>Thallium</b> (mg/kg)	<b>Vanadium</b> (mg/kg)	<b>Zinc</b> (mg/kg)
B-1	11/19/2018	5	ND<2.0	2.3	51	ND<1.0	ND<1.0	13	9.2	16	2.7	ND<0.10	ND<1.0	10	ND<1.0	ND<1.0	ND<2.0	32	37
B-2	11/19/2018	10	ND<2.0	2.7	57	ND<1.0	ND<1.0	15	9.9	17	3.4	ND<0.099	ND<1.0	12	ND<1.0	ND<1.0	ND<2.0	35	39
B-3	11/19/2018	10	ND<2.0	2.9	84	ND<1.0	ND<1.0	17	12	22	3.7	ND<0.099	ND<1.0	14	ND<1.0	ND<1.0	ND<2.0	42	46
B-4	11/19/2018	10	ND<2.0	2.3	67	ND<1.0	ND<1.0	17	12	21	3.3	ND<0.10	ND<1.0	14	ND<1.0	ND<1.0	ND<2.0	42	47
B-5	11/19/2018	10	ND<2.0	2.5	69	ND<1.0	ND<1.0	15	11	19	3.5	ND<0.10	ND<1.0	12	ND<1.0	ND<1.0	ND<2.0	39	45
B-6	11/19/2018	10	ND<2.0	3.0	82	ND<1.0	ND<1.0	20	14	25	3.9	ND<0.099	ND<1.0	16	ND<1.0	ND<1.0	ND<2.0	51	50
B-7	11/19/2018	10	ND<2.0	2.9	77	ND<1.0	ND<1.0	17	12	21	3.5	ND<0.099	ND<1.0	14	ND<1.0	ND<1.0	ND<2.0	43	47
B-8	11/19/2018	10	ND<2.0	2.3	74	ND<1.0	ND<1.0	17	12	20	3.1	ND<0.10	ND<1.0	13	ND<1.0	ND<1.0	ND<2.0	42	47
B-9	11/19/2018	10	ND<2.0	3.1	83	ND<1.0	ND<1.0	19	13	22	3.6	ND<0.10	ND<1.0	15	ND<1.0	ND<1.0	ND<2.0	47	52
Comparison Values based on California Maximum Background Concentration in mg/kg*			1.95	11.0	1,400	2.7	1.7	1,579	46.9	96.4	97.1	0.90	9.6	509	0.430	8.30	1.10	288	236
Comparison Values in mg/kg from U.S. EPA Regional Industrial Screening Levels for Region 9; THQ=0.1; November 2018			47	3.0	22,000	230	98	6.3	35	4,700	800	4.6	580	2,200	580	580	1.2	580	35,000
Comparison Values in mg/kg from U.S. EPA Regional Residential Screening Levels for Region 9; THQ=0.1; November 2018			3.1	0.68	1,500	16	7.1	0.3	2.3	310	400	1.1	39	150	39	39	0.078	39	2,300

Notes:

- Analyses performed by Asset Laboratories, Cerritos, California
- mg/kg Milligrams per kilogram
- bgs Below ground surface
- ND< Not detected at or above the practical quantitation limit (PQL) shown
- EPA Environmental Protection Agency
- J Estimated value above laboratory method detection limit, but below the limit for reporting
- Bold** Result exceeds applicable Comparison Value
- \* From Kearney Foundation of Soil Science 1996 Report "Background Concentrations of Trace and Major Elements in California Soils"
- CAM California Administrative Manual - presently known as the California Code of Regulations
- TTLIC Total Threshold Limit Concentrations - the limit at which concentrations of a metal in soil is considered hazardous

# **APPENDIX A**

## **Boring Logs**



AEI CONSULTANTS  
 2207 W. 190th STREET  
 TORRANCE, CA 90504  
 Telephone: 310-798-4255  
 Fax: 310-846-5594

**BORING NUMBER B-1**

**CLIENT** FRC Realty, Inc.  
**PROJECT NUMBER** 392121  
**DATE STARTED** 11/16/18 **COMPLETED** 11/16/18  
**DRILLING CONTRACTOR** J&H Drilling  
**DRILLING METHOD** Direct Push  
**LOGGED BY** A. Leavitt **CHECKED BY** K. Vollmer  
**NOTES** In the southeastern portion of the Site

**PROJECT NAME** Limited Phase II Subsurface Investigation  
**PROJECT LOCATION** 123-145 West Pomona Ave, Monrovia, CA  
**GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 2.25 inches  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** ---  
**AT END OF DRILLING** ---  
**AFTER DRILLING** ---

AEI BORING - GINT STD US LAB.GDT - 12/5/18 10:28 - P:\COMPANYWIDE PROJECTS\392000 SERIES\392121 MONROVIA, CA\392121 PHII (FRC) MONROVIA, CA - OABORING LOGS\392121 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0.0						
0.4					0.0'-0.4': Asphalt.	
2.5	B-1-2.5		0.3		(SW) 0.4'-6.8': SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, dry to damp, medium dense.	
5.0	B-1-5.0		0.8		@ 5.0' bgs: SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, damp, medium dense.	
7.5					(SM) 6.8'-8.0': Silty SAND, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained, damp, medium dense.	
10.0	B-1-10.0		0.5		(SM) 8.0'-10.0': Silty SAND, little gravel, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained sand, granule to medium pebble-sized gravel, angular to sub-rounded, damp, medium dense.	

Bottom of borehole at 10.0 feet.



AEI CONSULTANTS  
 2207 W. 190th STREET  
 TORRANCE, CA 90504  
 Telephone: 310-798-4255  
 Fax: 310-846-5594

**BORING NUMBER B-2**

**CLIENT** FRC Realty, Inc. **PROJECT NAME** Limited Phase II Subsurface Investigation  
**PROJECT NUMBER** 392121 **PROJECT LOCATION** 123-145 West Pomona Ave, Monrovia, CA  
**DATE STARTED** 11/16/18 **COMPLETED** 11/16/18 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 2.25 inches  
**DRILLING CONTRACTOR** J&H Drilling **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push **AT TIME OF DRILLING** ---  
**LOGGED BY** A. Leavitt **CHECKED BY** K. Vollmer **AT END OF DRILLING** ---  
**NOTES** In the eastern portion of the Site **AFTER DRILLING** ---

AEI BORING - GINT STD US LAB.GDT - 12/5/18 10:28 - P:\COMPANYWIDE PROJECTS\392000 SERIES\392121 MONROVIA, CA\392121 PHII (FRC) MONROVIA, CA - OABORING LOGS\392121 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0.0						
0.4					0.0'-0.4': Asphalt.	
2.5	B-2-2.5		0.3		(SW) 0.4'-6.8': SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, dry to damp, medium dense.	
5.0	B-2-5.0		0.3		@ 5.0' bgs: SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, damp, medium dense.	
7.5					(SM) 6.8'-8.0': Silty SAND, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained, damp, medium dense.	
10.0	B-2-10.0		0.7		(SM) 8.0'-10.0': Silty SAND, little gravel, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained sand, granule to medium pebble-sized gravel, angular to sub-rounded, damp, medium dense.	

Bottom of borehole at 10.0 feet.



AEI CONSULTANTS  
 2207 W. 190th STREET  
 TORRANCE, CA 90504  
 Telephone: 310-798-4255  
 Fax: 310-846-5594

**BORING NUMBER B-3**

**CLIENT** FRC Realty, Inc. **PROJECT NAME** Limited Phase II Subsurface Investigation

**PROJECT NUMBER** 392121 **PROJECT LOCATION** 123-145 West Pomona Ave, Monrovia, CA

**DATE STARTED** 11/16/18 **COMPLETED** 11/16/18 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 2.25 inches

**DRILLING CONTRACTOR** J&H Drilling **GROUND WATER LEVELS:**

**DRILLING METHOD** Direct Push **AT TIME OF DRILLING** ---

**LOGGED BY** A. Leavitt **CHECKED BY** K. Vollmer **AT END OF DRILLING** ---

**NOTES** In the northeastern portion of the Site **AFTER DRILLING** ---

AEI BORING - GINT STD US LAB.GDT - 12/5/18 10:28 - P:\COMPANYWIDE PROJECTS\392000 SERIES\392121 MONROVIA, CA\392121 PHII (FRC) MONROVIA, CA - OABORING LOGS\392121 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0.0						
0.4					0.0'-0.4': Asphalt.	
2.5	B-3-2.5		0.1		(SW) 0.4'-6.8': SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, dry to damp, medium dense.	
5.0	B-3-5.0		0.5		@ 5.0' bgs: SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, damp, medium dense.	
7.5					(SM) 6.8'-8.0': Silty SAND, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained, damp, medium dense.	
10.0	B-3-10.0		0.7		(SM) 8.0'-10.0': Silty SAND, little gravel, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained sand, granule to medium pebble-sized gravel, angular to sub-rounded, damp, medium dense.	

Bottom of borehole at 10.0 feet.



AEI CONSULTANTS  
 2207 W. 190th STREET  
 TORRANCE, CA 90504  
 Telephone: 310-798-4255  
 Fax: 310-846-5594

**BORING NUMBER B-4**

**CLIENT** FRC Realty, Inc. **PROJECT NAME** Limited Phase II Subsurface Investigation  
**PROJECT NUMBER** 392121 **PROJECT LOCATION** 123-145 West Pomona Ave, Monrovia, CA  
**DATE STARTED** 11/16/18 **COMPLETED** 11/16/18 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 2.25 inches  
**DRILLING CONTRACTOR** J&H Drilling **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push **AT TIME OF DRILLING** ---  
**LOGGED BY** A. Leavitt **CHECKED BY** K. Vollmer **AT END OF DRILLING** ---  
**NOTES** In the northern portion of the Site **AFTER DRILLING** ---

AEI BORING - GINT STD US LAB.GDT - 12/5/18 10:28 - P:\COMPANYWIDE PROJECTS\392000 SERIES\392121 MONROVIA, CA\392121 PHII (FRC) MONROVIA, CA - OABORING LOGS\392121 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0.0						
0.4				0.4	0.0'-0.4': Asphalt.	
2.5	B-4-2.5		0.3	0.3	(SW) 0.4'-7.1': SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, dry to damp, medium dense.	
5.0	B-4-5.0		0.5	0.5	@ 5.0' bgs: SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, damp, medium dense.	
7.5				7.1	(SM) 7.1'-8.5': Silty SAND, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained, damp, medium dense.	
8.5				8.5		
10.0	B-4-10.0		0.6	0.6	(SM) 8.5'-10.0': Silty SAND, little gravel, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained sand, granule to medium pebble-sized gravel, angular to sub-rounded, damp, medium dense.	
10.0				10.0		

Bottom of borehole at 10.0 feet.



AEI CONSULTANTS  
 2207 W. 190th STREET  
 TORRANCE, CA 90504  
 Telephone: 310-798-4255  
 Fax: 310-846-5594

**BORING NUMBER B-5**

**CLIENT** FRC Realty, Inc.  
**PROJECT NUMBER** 392121  
**DATE STARTED** 11/16/18 **COMPLETED** 11/16/18  
**DRILLING CONTRACTOR** J&H Drilling  
**DRILLING METHOD** Direct Push  
**LOGGED BY** A. Leavitt **CHECKED BY** K. Vollmer  
**NOTES** In the center portion of the Site

**PROJECT NAME** Limited Phase II Subsurface Investigation  
**PROJECT LOCATION** 123-145 West Pomona Ave, Monrovia, CA  
**GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 2.25 inches  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** ---  
**AT END OF DRILLING** ---  
**AFTER DRILLING** ---

AEI BORING - GINT STD US LAB.GDT - 12/5/18 10:28 - P:\COMPANYWIDE PROJECTS\392000 SERIES\392121 MONROVIA, CA\392121 PHII (FRC) MONROVIA, CA - OABORING LOGS\392121 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0.0						
0.4				0.4	0.0'-0.4': Asphalt.	
2.5	B-5-2.5		0.2	0.2	(SW) 0.4'-7.1': SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, dry to damp, medium dense.	
5.0	B-5-5.0		0.4	0.4	@ 5.0' bgs: SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, damp, medium dense.	
7.5				7.1	(SM) 7.1'-8.5': Silty SAND, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained, damp, medium dense.	
8.5				8.5		
10.0	B-5-10.0		0.8	0.8	(SM) 8.5'-10.0': Silty SAND, little gravel, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained sand, granule to medium pebble-sized gravel, angular to sub-rounded, damp, medium dense.	
10.0				10.0		

Bottom of borehole at 10.0 feet.



AEI CONSULTANTS  
 2207 W. 190th STREET  
 TORRANCE, CA 90504  
 Telephone: 310-798-4255  
 Fax: 310-846-5594

**BORING NUMBER B-6**

**CLIENT** FRC Realty, Inc.  
**PROJECT NUMBER** 392121  
**DATE STARTED** 11/16/18 **COMPLETED** 11/16/18  
**DRILLING CONTRACTOR** J&H Drilling  
**DRILLING METHOD** Direct Push  
**LOGGED BY** A. Leavitt **CHECKED BY** K. Vollmer  
**NOTES** In the southern portion of the Site

**PROJECT NAME** Limited Phase II Subsurface Investigation  
**PROJECT LOCATION** 123-145 West Pomona Ave, Monrovia, CA  
**GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 2.25 inches  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** ---  
**AT END OF DRILLING** ---  
**AFTER DRILLING** ---

AEI BORING - GINT STD US LAB.GDT - 12/5/18 10:28 - P:\COMPANYWIDE PROJECTS\392000 SERIES\392121 MONROVIA, CA\392121 PHII (FRC) MONROVIA, CA - OABORING LOGS\392121 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0.0						
0.4					0.0'-0.4': Asphalt.	
2.5	B-6-2.5		0.1		(SW) 0.4'-7.1': SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, dry to damp, medium dense.	
5.0	B-6-5.0		0.5		@ 5.0' bgs: SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, damp, medium dense.	
7.5					(SM) 7.1'-8.5': Silty SAND, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained, damp, medium dense.	
8.5						
10.0	B-6-10.0		0.5		(SM) 8.5'-10.0': Silty SAND, little gravel, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained sand, granule to medium pebble-sized gravel, angular to sub-rounded, damp, medium dense.	

Bottom of borehole at 10.0 feet.





AEI CONSULTANTS  
 2207 W. 190th STREET  
 TORRANCE, CA 90504  
 Telephone: 310-798-4255  
 Fax: 310-846-5594

**BORING NUMBER B-7**

**CLIENT** FRC Realty, Inc. **PROJECT NAME** Limited Phase II Subsurface Investigation  
**PROJECT NUMBER** 392121 **PROJECT LOCATION** 123-145 West Pomona Ave, Monrovia, CA  
**DATE STARTED** 11/16/18 **COMPLETED** 11/16/18 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 2.25 inches  
**DRILLING CONTRACTOR** J&H Drilling **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push **AT TIME OF DRILLING** ---  
**LOGGED BY** A. Leavitt **CHECKED BY** K. Vollmer **AT END OF DRILLING** ---  
**NOTES** In the southwestern portion of the Site **AFTER DRILLING** ---

AEI BORING - GINT STD US LAB.GDT - 12/5/18 10:28 - P:\COMPANYWIDE PROJECTS\392000 SERIES\392121 MONROVIA, CA\392121 PHII (FRC) MONROVIA, CA - OABORING LOGS\392121 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0.0						
0.4					0.0'-0.4': Asphalt.	
2.5	B-7-2.5		0.3		(SW) 0.4'-7.4': SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, dry to damp, medium dense.	
5.0	B-7-5.0		0.3		@ 5.0' bgs: SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, damp, medium dense.	
7.5					(SM) 7.4'-8.5': Silty SAND, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained, damp, medium dense.	
10.0	B-7-10.0		0.5		(SM) 8.5'-10.0': Silty SAND, little gravel, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained sand, granule to medium pebble-sized gravel, angular to sub-rounded, damp, medium dense.	

Bottom of borehole at 10.0 feet.



AEI CONSULTANTS  
 2207 W. 190th STREET  
 TORRANCE, CA 90504  
 Telephone: 310-798-4255  
 Fax: 310-846-5594

**BORING NUMBER B-8**

**CLIENT** FRC Realty, Inc. **PROJECT NAME** Limited Phase II Subsurface Investigation  
**PROJECT NUMBER** 392121 **PROJECT LOCATION** 123-145 West Pomona Ave, Monrovia, CA  
**DATE STARTED** 11/16/18 **COMPLETED** 11/16/18 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 2.25 inches  
**DRILLING CONTRACTOR** J&H Drilling **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push **AT TIME OF DRILLING** ---  
**LOGGED BY** A. Leavitt **CHECKED BY** K. Vollmer **AT END OF DRILLING** ---  
**NOTES** In the western portion of the Site **AFTER DRILLING** ---

AEI BORING - GINT STD US LAB.GDT - 12/5/18 10:28 - P:\COMPANYWIDE PROJECTS\392000 SERIES\392121 MONROVIA, CA\392121 PHII (FRC) MONROVIA, CA - OABORING LOGS\392121 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0.0						
0.4					0.0'-0.4': Asphalt.	
2.5	B-8-2.5		0.2		(SW) 0.4'-7.4': SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, dry to damp, medium dense.	
5.0	B-8-5.0		0.5		@ 5.0' bgs: SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, damp, medium dense.	
7.5					(SM) 7.4'-8.5': Silty SAND, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained, damp, medium dense.	
10.0	B-8-10.0		0.6		(SM) 8.5'-10.0': Silty SAND, little gravel, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained sand, granule to medium pebble-sized gravel, angular to sub-rounded, damp, medium dense.	

Bottom of borehole at 10.0 feet.



AEI CONSULTANTS  
 2207 W. 190th STREET  
 TORRANCE, CA 90504  
 Telephone: 310-798-4255  
 Fax: 310-846-5594

**BORING NUMBER B-9**

**CLIENT** FRC Realty, Inc.  
**PROJECT NUMBER** 392121  
**DATE STARTED** 11/16/18 **COMPLETED** 11/16/18  
**DRILLING CONTRACTOR** J&H Drilling  
**DRILLING METHOD** Direct Push  
**LOGGED BY** A. Leavitt **CHECKED BY** K. Vollmer  
**NOTES** In the northwestern portion of the Site

**PROJECT NAME** Limited Phase II Subsurface Investigation  
**PROJECT LOCATION** 123-145 West Pomona Ave, Monrovia, CA  
**GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 2.25 inches  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** ---  
**AT END OF DRILLING** ---  
**AFTER DRILLING** ---

AEI BORING - GINT STD US LAB.GDT - 12/5/18 10:28 - P:\COMPANYWIDE PROJECTS\392000 SERIES\392121 MONROVIA, CA\392121 PHII (FRC) MONROVIA, CA - OABORING LOGS\392121 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0.0						
0.4					0.0'-0.4': Asphalt.	
2.5	B-9-2.5		0.4		(SW) 0.4'-7.4': SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, dry to damp, medium dense.	
5.0	B-9-5.0		0.5		@ 5.0' bgs: SAND, little silt, well graded, yellowish brown (10YR 5/6) fine to coarse-grained sand, damp, medium dense.	
7.5					(SM) 7.4'-8.5': Silty SAND, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained, damp, medium dense.	
10.0	B-9-10.0		0.9		(SM) 8.5'-10.0': Silty SAND, little gravel, poorly graded, yellowish brown to dark yellowish brown (10YR5/6-4/6), fine to medium grained sand, granule to medium pebble-sized gravel, angular to sub-rounded, damp, medium dense.	

Bottom of borehole at 10.0 feet.

## **APPENDIX B**

### **Laboratory Analytical Reports**

November 30, 2018

Andrew Leavitt/Kent Vollmer

AEI Consultants

2207 W 190th Street

Torrance, CA 90504

TEL: (310) 798-4255

FAX: (310) 846-5594

Workorder No.: N033048

RE: PhII, 392121

Attention: Andrew Leavitt/Kent Vollmer

Enclosed are the results for sample(s) received on November 20, 2018 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

Handwritten signature of Molky Brar, consisting of stylized initials 'M' and 'B' followed by the word 'for'.

Molky Brar

Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.



**ASSET LABORATORIES**  
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
ELAP Cert 2921  
EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
3151 W. Post Rd., Las Vegas, NV 89118  
ELAP Cert 2676 | NV Cert NV00922  
ORELAP/NELAP Cert 4046

*"Serving Clients with Passion and Professionalism"*

---

**CLIENT:** AEI Consultants  
**Project:** PhII, 392121  
**Lab Order:** N033048**CASE NARRATIVE**

---

**SAMPLE RECEIVING/GENERAL COMMENTS:**

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

**Analytical Comment For EPA 6010B:**

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for several analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

**Analytical Comments For EPA 8270C:**

Matrix Spike (MS) is outside recovery criteria for several analytes on QC batch 71522 possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for several analytes on QC batch 71522 possibly due to non-homogeneity of sample; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



**CLIENT:** AEI Consultants  
**Project:** Phil, 392121  
**Lab Order:** N033048  
**Contract No:**

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N033048-001A	B-1-5.0	Soil	11/19/2018 8:15:00 AM	11/20/2018	11/30/2018
N033048-002A	B-2-5.0	Soil	11/19/2018 8:50:00 AM	11/20/2018	11/30/2018
N033048-003A	B-2-10.0	Soil	11/19/2018 9:00:00 AM	11/20/2018	11/30/2018
N033048-004A	B-3-5.0	Soil	11/19/2018 9:25:00 AM	11/20/2018	11/30/2018
N033048-005A	B-3-10.0	Soil	11/19/2018 9:35:00 AM	11/20/2018	11/30/2018
N033048-006A	B-4-5.0	Soil	11/19/2018 9:50:00 AM	11/20/2018	11/30/2018
N033048-007A	B-4-10.0	Soil	11/19/2018 10:00:00 AM	11/20/2018	11/30/2018
N033048-008A	B-5-5.0	Soil	11/19/2018 10:30:00 AM	11/20/2018	11/30/2018
N033048-009A	B-5-10.0	Soil	11/19/2018 10:40:00 AM	11/20/2018	11/30/2018
N033048-010A	B-6-5.0	Soil	11/19/2018 11:10:00 AM	11/20/2018	11/30/2018
N033048-011A	B-6-10.0	Soil	11/19/2018 11:20:00 AM	11/20/2018	11/30/2018
N033048-012A	B-7-5.0	Soil	11/19/2018 11:55:00 AM	11/20/2018	11/30/2018
N033048-013A	B-7-10.00	Soil	11/19/2018 12:05:00 PM	11/20/2018	11/30/2018
N033048-014A	B-8-5.0	Soil	11/19/2018 12:40:00 PM	11/20/2018	11/30/2018
N033048-015A	B-8-10.0	Soil	11/19/2018 12:50:00 PM	11/20/2018	11/30/2018
N033048-016A	B-9-5.0	Soil	11/19/2018 1:10:00 PM	11/20/2018	11/30/2018
N033048-017A	B-9-10.0	Soil	11/19/2018 1:20:00 PM	11/20/2018	11/30/2018



**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-1-5.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 8:15:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-001	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/27/2018		Analyst: RRS
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/28/2018 09:20 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/28/2018 09:20 PM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	11/28/2018 09:20 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/28/2018 09:20 PM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	11/28/2018 09:20 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
2-Chlorophenol	ND	330		µg/Kg	1	11/28/2018 09:20 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
2-Methylphenol	ND	330		µg/Kg	1	11/28/2018 09:20 PM
2-Nitroaniline	ND	1600		µg/Kg	1	11/28/2018 09:20 PM
2-Nitrophenol	ND	330		µg/Kg	1	11/28/2018 09:20 PM
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	11/28/2018 09:20 PM
3-Nitroaniline	ND	1600		µg/Kg	1	11/28/2018 09:20 PM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	11/28/2018 09:20 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	11/28/2018 09:20 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	11/28/2018 09:20 PM
4-Chloroaniline	ND	660		µg/Kg	1	11/28/2018 09:20 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	11/28/2018 09:20 PM
4-Methylphenol	ND	330		µg/Kg	1	11/28/2018 09:20 PM
4-Nitroaniline	ND	1600		µg/Kg	1	11/28/2018 09:20 PM
4-Nitrophenol	ND	1600		µg/Kg	1	11/28/2018 09:20 PM
Acenaphthene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Acenaphthylene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Anthracene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	11/28/2018 09:20 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Benzoic acid	ND	1600		µg/Kg	1	11/28/2018 09:20 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"



**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-1-5.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 8:15:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-001	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/27/2018		Analyst: RRS
Benzyl alcohol	ND	660		µg/Kg	1	11/28/2018 09:20 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Chrysene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	11/28/2018 09:20 PM
Dibenzofuran	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Diethylphthalate	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Dimethylphthalate	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Fluoranthene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Fluorene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Hexachlorobenzene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	11/28/2018 09:20 PM
Hexachloroethane	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Isophorone	ND	330		µg/Kg	1	11/28/2018 09:20 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/28/2018 09:20 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Naphthalene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Nitrobenzene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Pentachlorophenol	ND	1600		µg/Kg	1	11/28/2018 09:20 PM
Phenanthrene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Phenol	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Pyrene	ND	330		µg/Kg	1	11/28/2018 09:20 PM
Pyridine	ND	1600		µg/Kg	1	11/28/2018 09:20 PM
Surr: 1,2-Dichlorobenzene-d4	46.0	25-120		%REC	1	11/28/2018 09:20 PM
Surr: 2,4,6-Tribromophenol	37.9	22-120		%REC	1	11/28/2018 09:20 PM
Surr: 2-Chlorophenol-d4	46.7	27-120		%REC	1	11/28/2018 09:20 PM
Surr: 2-Fluorobiphenyl	46.3	30-120		%REC	1	11/28/2018 09:20 PM
Surr: 2-Fluorophenol	49.1	26-120		%REC	1	11/28/2018 09:20 PM
Surr: 4-Terphenyl-d14	45.9	24-122		%REC	1	11/28/2018 09:20 PM
Surr: Nitrobenzene-d5	44.6	25-120		%REC	1	11/28/2018 09:20 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-1-5.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 8:15:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-001	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**

EPA 3546 EPA 8270C

RunID: NV00922-MS3_181128B	QC Batch: 71522	PrepDate: 11/27/2018	Analyst: RRS
Surr: Phenol-d5	43.0	21-120	%REC
		1	11/28/2018 09:20 PM

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM**

EPA 3546 EPA 8270CSIM

RunID: NV00922-MS9_181127A	QC Batch: 71523	PrepDate: 11/27/2018	Analyst: RRS
1-Methylnaphthalene	ND	5.0	µg/Kg
2-Methylnaphthalene	ND	5.0	µg/Kg
Acenaphthene	ND	5.0	µg/Kg
Acenaphthylene	ND	5.0	µg/Kg
Anthracene	ND	5.0	µg/Kg
Benzo(a)anthracene	ND	5.0	µg/Kg
Benzo(a)pyrene	ND	5.0	µg/Kg
Benzo(b)fluoranthene	ND	5.0	µg/Kg
Benzo(g,h,i)perylene	ND	5.0	µg/Kg
Benzo(k)fluoranthene	ND	5.0	µg/Kg
Chrysene	ND	5.0	µg/Kg
Dibenz(a,h)anthracene	ND	5.0	µg/Kg
Fluoranthene	ND	5.0	µg/Kg
Fluorene	ND	5.0	µg/Kg
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg
Naphthalene	ND	5.0	µg/Kg
Phenanthrene	ND	5.0	µg/Kg
Pyrene	ND	5.0	µg/Kg
Surr: 1,2-Dichlorobenzene-d4	66.0	26-102	%REC
Surr: 2-Fluorobiphenyl	67.0	27-106	%REC
Surr: 4-Terphenyl-d14	62.0	35-123	%REC
Surr: Nitrobenzene-d5	62.0	30-104	%REC

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE**

EPA 7471A

RunID: NV00922-AA1_181121A	QC Batch: 71486	PrepDate: 11/21/2018	Analyst: MG
Mercury	ND	0.10	mg/Kg
		1	11/21/2018 11:34 AM

**TOTAL METALS BY ICP**

EPA 3050B EPA 6010B

RunID: NV00922-ICP2_181121E	QC Batch: 71485	PrepDate: 11/21/2018	Analyst: CEI
Antimony	ND	2.0	mg/Kg
		1	11/21/2018 03:29 PM

<b>Qualifiers:</b> B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-1-5.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 8:15:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-001	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>TOTAL METALS BY ICP</b>						
	<b>EPA 3050B</b>			<b>EPA 6010B</b>		
RunID: NV00922-ICP2_181121E	QC Batch: 71485			PrepDate: 11/21/2018		Analyst: CEI
Arsenic	2.3	1.0		mg/Kg	1	11/21/2018 03:29 PM
Barium	51	1.0		mg/Kg	1	11/21/2018 03:29 PM
Beryllium	ND	1.0		mg/Kg	1	11/21/2018 03:29 PM
Cadmium	ND	1.0		mg/Kg	1	11/21/2018 03:29 PM
Chromium	13	1.0		mg/Kg	1	11/21/2018 03:29 PM
Cobalt	9.2	1.0		mg/Kg	1	11/21/2018 03:29 PM
Copper	16	2.0		mg/Kg	1	11/21/2018 03:29 PM
Lead	2.7	1.0		mg/Kg	1	11/21/2018 03:29 PM
Molybdenum	ND	1.0		mg/Kg	1	11/21/2018 03:29 PM
Nickel	10	1.0		mg/Kg	1	11/21/2018 03:29 PM
Selenium	ND	1.0		mg/Kg	1	11/21/2018 03:29 PM
Silver	ND	1.0		mg/Kg	1	11/21/2018 03:29 PM
Thallium	ND	2.0		mg/Kg	1	11/21/2018 03:29 PM
Vanadium	32	1.0		mg/Kg	1	11/21/2018 03:29 PM
Zinc	37	1.0		mg/Kg	1	11/21/2018 03:29 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

**CALIFORNIA** | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

**NEVADA** | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-2-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 9:00:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-003	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/28/2018 10:40 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/28/2018 10:40 PM
2,4-Dichlorophenol	ND	1700		µg/Kg	1	11/28/2018 10:40 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/28/2018 10:40 PM
2,4-Dinitrophenol	ND	1700		µg/Kg	1	11/28/2018 10:40 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
2-Chlorophenol	ND	330		µg/Kg	1	11/28/2018 10:40 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
2-Methylphenol	ND	330		µg/Kg	1	11/28/2018 10:40 PM
2-Nitroaniline	ND	1700		µg/Kg	1	11/28/2018 10:40 PM
2-Nitrophenol	ND	330		µg/Kg	1	11/28/2018 10:40 PM
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	11/28/2018 10:40 PM
3-Nitroaniline	ND	1700		µg/Kg	1	11/28/2018 10:40 PM
4,6-Dinitro-2-methylphenol	ND	1700		µg/Kg	1	11/28/2018 10:40 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	11/28/2018 10:40 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	11/28/2018 10:40 PM
4-Chloroaniline	ND	660		µg/Kg	1	11/28/2018 10:40 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	11/28/2018 10:40 PM
4-Methylphenol	ND	330		µg/Kg	1	11/28/2018 10:40 PM
4-Nitroaniline	ND	1700		µg/Kg	1	11/28/2018 10:40 PM
4-Nitrophenol	ND	1700		µg/Kg	1	11/28/2018 10:40 PM
Acenaphthene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Acenaphthylene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Anthracene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	11/28/2018 10:40 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Benzoic acid	ND	1700		µg/Kg	1	11/28/2018 10:40 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-2-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 9:00:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-003	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
Benzyl alcohol	ND	660		µg/Kg	1	11/28/2018 10:40 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Chrysene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	11/28/2018 10:40 PM
Dibenzofuran	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Diethylphthalate	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Dimethylphthalate	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Fluoranthene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Fluorene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Hexachlorobenzene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	11/28/2018 10:40 PM
Hexachloroethane	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Isophorone	ND	330		µg/Kg	1	11/28/2018 10:40 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/28/2018 10:40 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Naphthalene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Nitrobenzene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Pentachlorophenol	ND	1700		µg/Kg	1	11/28/2018 10:40 PM
Phenanthrene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Phenol	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Pyrene	ND	330		µg/Kg	1	11/28/2018 10:40 PM
Pyridine	ND	1700		µg/Kg	1	11/28/2018 10:40 PM
Surr: 1,2-Dichlorobenzene-d4	64.7	25-120		%REC	1	11/28/2018 10:40 PM
Surr: 2,4,6-Tribromophenol	58.7	22-120		%REC	1	11/28/2018 10:40 PM
Surr: 2-Chlorophenol-d4	67.2	27-120		%REC	1	11/28/2018 10:40 PM
Surr: 2-Fluorobiphenyl	70.5	30-120		%REC	1	11/28/2018 10:40 PM
Surr: 2-Fluorophenol	70.2	26-120		%REC	1	11/28/2018 10:40 PM
Surr: 4-Terphenyl-d14	69.1	24-122		%REC	1	11/28/2018 10:40 PM
Surr: Nitrobenzene-d5	66.5	25-120		%REC	1	11/28/2018 10:40 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-2-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 9:00:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-003	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**

EPA 3546 EPA 8270C

RunID: NV00922-MS3_181128B	QC Batch: 71522	PrepDate: 11/28/2018	Analyst: RRS
Surr: Phenol-d5	62.5	21-120	%REC
		1	11/28/2018 10:40 PM

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM**

EPA 3546 EPA 8270CSIM

RunID: NV00922-MS9_181127A	QC Batch: 71523	PrepDate: 11/27/2018	Analyst: RRS
1-Methylnaphthalene	ND	5.0	µg/Kg
2-Methylnaphthalene	ND	5.0	µg/Kg
Acenaphthene	ND	5.0	µg/Kg
Acenaphthylene	ND	5.0	µg/Kg
Anthracene	ND	5.0	µg/Kg
Benzo(a)anthracene	ND	5.0	µg/Kg
Benzo(a)pyrene	ND	5.0	µg/Kg
Benzo(b)fluoranthene	ND	5.0	µg/Kg
Benzo(g,h,i)perylene	ND	5.0	µg/Kg
Benzo(k)fluoranthene	ND	5.0	µg/Kg
Chrysene	ND	5.0	µg/Kg
Dibenz(a,h)anthracene	ND	5.0	µg/Kg
Fluoranthene	ND	5.0	µg/Kg
Fluorene	ND	5.0	µg/Kg
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg
Naphthalene	ND	5.0	µg/Kg
Phenanthrene	ND	5.0	µg/Kg
Pyrene	ND	5.0	µg/Kg
Surr: 1,2-Dichlorobenzene-d4	66.0	26-102	%REC
Surr: 2-Fluorobiphenyl	66.0	27-106	%REC
Surr: 4-Terphenyl-d14	60.0	35-123	%REC
Surr: Nitrobenzene-d5	62.0	30-104	%REC

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE**

EPA 7471A

RunID: NV00922-AA1_181121A	QC Batch: 71486	PrepDate: 11/21/2018	Analyst: MG
Mercury	ND	0.099	mg/Kg
		1	11/21/2018 11:31 AM

**TOTAL METALS BY ICP**

EPA 3050B EPA 6010B

RunID: NV00922-ICP2_181121E	QC Batch: 71485	PrepDate: 11/21/2018	Analyst: CEI
Antimony	ND	2.0	mg/Kg
		1	11/21/2018 04:03 PM

<b>Qualifiers:</b> B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-2-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 9:00:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-003	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>TOTAL METALS BY ICP</b>						
	<b>EPA 3050B</b>			<b>EPA 6010B</b>		
RunID: NV00922-ICP2_181121E	QC Batch: 71485			PrepDate: 11/21/2018		Analyst: CEI
Arsenic	2.7	1.0		mg/Kg	1	11/21/2018 04:03 PM
Barium	57	1.0		mg/Kg	1	11/21/2018 04:03 PM
Beryllium	ND	1.0		mg/Kg	1	11/21/2018 04:03 PM
Cadmium	ND	1.0		mg/Kg	1	11/21/2018 04:03 PM
Chromium	15	1.0		mg/Kg	1	11/21/2018 04:03 PM
Cobalt	9.9	1.0		mg/Kg	1	11/21/2018 04:03 PM
Copper	17	2.0		mg/Kg	1	11/21/2018 04:03 PM
Lead	3.4	1.0		mg/Kg	1	11/21/2018 04:03 PM
Molybdenum	ND	1.0		mg/Kg	1	11/21/2018 04:03 PM
Nickel	12	1.0		mg/Kg	1	11/21/2018 04:03 PM
Selenium	ND	1.0		mg/Kg	1	11/21/2018 04:03 PM
Silver	ND	1.0		mg/Kg	1	11/21/2018 04:03 PM
Thallium	ND	2.0		mg/Kg	1	11/21/2018 04:03 PM
Vanadium	35	1.0		mg/Kg	1	11/21/2018 04:03 PM
Zinc	39	1.0		mg/Kg	1	11/21/2018 04:03 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

**CALIFORNIA** | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

**NEVADA** | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-3-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 9:35:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-005	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/28/2018 11:06 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/28/2018 11:06 PM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	11/28/2018 11:06 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/28/2018 11:06 PM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	11/28/2018 11:06 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
2-Chlorophenol	ND	330		µg/Kg	1	11/28/2018 11:06 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
2-Methylphenol	ND	330		µg/Kg	1	11/28/2018 11:06 PM
2-Nitroaniline	ND	1600		µg/Kg	1	11/28/2018 11:06 PM
2-Nitrophenol	ND	330		µg/Kg	1	11/28/2018 11:06 PM
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	11/28/2018 11:06 PM
3-Nitroaniline	ND	1600		µg/Kg	1	11/28/2018 11:06 PM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	11/28/2018 11:06 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	11/28/2018 11:06 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	11/28/2018 11:06 PM
4-Chloroaniline	ND	660		µg/Kg	1	11/28/2018 11:06 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	11/28/2018 11:06 PM
4-Methylphenol	ND	330		µg/Kg	1	11/28/2018 11:06 PM
4-Nitroaniline	ND	1600		µg/Kg	1	11/28/2018 11:06 PM
4-Nitrophenol	ND	1600		µg/Kg	1	11/28/2018 11:06 PM
Acenaphthene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Acenaphthylene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Anthracene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	11/28/2018 11:06 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Benzoic acid	ND	1600		µg/Kg	1	11/28/2018 11:06 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"



**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-3-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 9:35:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-005	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
<b>EPA 3546</b>			<b>EPA 8270C</b>			
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate:	11/28/2018	Analyst: RRS
Benzyl alcohol	ND	660		µg/Kg	1	11/28/2018 11:06 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Chrysene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	11/28/2018 11:06 PM
Dibenzofuran	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Diethylphthalate	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Dimethylphthalate	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Fluoranthene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Fluorene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Hexachlorobenzene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	11/28/2018 11:06 PM
Hexachloroethane	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Isophorone	ND	330		µg/Kg	1	11/28/2018 11:06 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/28/2018 11:06 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Naphthalene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Nitrobenzene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Pentachlorophenol	ND	1600		µg/Kg	1	11/28/2018 11:06 PM
Phenanthrene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Phenol	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Pyrene	ND	330		µg/Kg	1	11/28/2018 11:06 PM
Pyridine	ND	1600		µg/Kg	1	11/28/2018 11:06 PM
Surr: 1,2-Dichlorobenzene-d4	60.4	25-120		%REC	1	11/28/2018 11:06 PM
Surr: 2,4,6-Tribromophenol	55.9	22-120		%REC	1	11/28/2018 11:06 PM
Surr: 2-Chlorophenol-d4	61.2	27-120		%REC	1	11/28/2018 11:06 PM
Surr: 2-Fluorobiphenyl	65.1	30-120		%REC	1	11/28/2018 11:06 PM
Surr: 2-Fluorophenol	64.6	26-120		%REC	1	11/28/2018 11:06 PM
Surr: 4-Terphenyl-d14	64.6	24-122		%REC	1	11/28/2018 11:06 PM
Surr: Nitrobenzene-d5	60.6	25-120		%REC	1	11/28/2018 11:06 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-3-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 9:35:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-005	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**

EPA 3546 EPA 8270C

RunID: NV00922-MS3_181128B	QC Batch: 71522	PrepDate: 11/28/2018	Analyst: RRS
Surr: Phenol-d5	56.3 21-120	%REC	1 11/28/2018 11:06 PM

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM**

EPA 3546 EPA 8270CSIM

RunID: NV00922-MS9_181127A	QC Batch: 71523	PrepDate: 11/27/2018	Analyst: RRS
1-Methylnaphthalene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
2-Methylnaphthalene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Acenaphthene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Acenaphthylene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Anthracene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Benzo(a)anthracene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Benzo(a)pyrene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Benzo(b)fluoranthene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Benzo(g,h,i)perylene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Benzo(k)fluoranthene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Chrysene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Dibenz(a,h)anthracene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Fluoranthene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Fluorene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Indeno(1,2,3-cd)pyrene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Naphthalene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Phenanthrene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Pyrene	ND 5.0	µg/Kg	1 11/27/2018 09:50 PM
Surr: 1,2-Dichlorobenzene-d4	68.0 26-102	%REC	1 11/27/2018 09:50 PM
Surr: 2-Fluorobiphenyl	68.0 27-106	%REC	1 11/27/2018 09:50 PM
Surr: 4-Terphenyl-d14	66.0 35-123	%REC	1 11/27/2018 09:50 PM
Surr: Nitrobenzene-d5	64.0 30-104	%REC	1 11/27/2018 09:50 PM

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE**

EPA 7471A

RunID: NV00922-AA1_181121A	QC Batch: 71486	PrepDate: 11/21/2018	Analyst: MG
Mercury	ND 0.099	mg/Kg	1 11/21/2018 11:37 AM

**TOTAL METALS BY ICP**

EPA 3050B EPA 6010B

RunID: NV00922-ICP2_181121E	QC Batch: 71485	PrepDate: 11/21/2018	Analyst: CEI
Antimony	ND 2.0	mg/Kg	1 11/21/2018 04:10 PM

<b>Qualifiers:</b> B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-3-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 9:35:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-005	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>TOTAL METALS BY ICP</b>						
	<b>EPA 3050B</b>	<b>EPA 6010B</b>				
RunID: NV00922-ICP2_181121E	QC Batch: 71485			PrepDate:	11/21/2018	Analyst: CEI
Arsenic	2.9	1.0		mg/Kg	1	11/21/2018 04:10 PM
Barium	84	1.0		mg/Kg	1	11/21/2018 04:10 PM
Beryllium	ND	1.0		mg/Kg	1	11/21/2018 04:10 PM
Cadmium	ND	1.0		mg/Kg	1	11/21/2018 04:10 PM
Chromium	17	1.0		mg/Kg	1	11/21/2018 04:10 PM
Cobalt	12	1.0		mg/Kg	1	11/21/2018 04:10 PM
Copper	22	2.0		mg/Kg	1	11/21/2018 04:10 PM
Lead	3.7	1.0		mg/Kg	1	11/21/2018 04:10 PM
Molybdenum	ND	1.0		mg/Kg	1	11/21/2018 04:10 PM
Nickel	14	1.0		mg/Kg	1	11/21/2018 04:10 PM
Selenium	ND	1.0		mg/Kg	1	11/21/2018 04:10 PM
Silver	ND	1.0		mg/Kg	1	11/21/2018 04:10 PM
Thallium	ND	2.0		mg/Kg	1	11/21/2018 04:10 PM
Vanadium	42	1.0		mg/Kg	1	11/21/2018 04:10 PM
Zinc	46	1.0		mg/Kg	1	11/21/2018 04:10 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-4-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 10:00:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-007	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/28/2018 11:33 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/28/2018 11:33 PM
2,4-Dichlorophenol	ND	1700		µg/Kg	1	11/28/2018 11:33 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/28/2018 11:33 PM
2,4-Dinitrophenol	ND	1700		µg/Kg	1	11/28/2018 11:33 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
2-Chlorophenol	ND	330		µg/Kg	1	11/28/2018 11:33 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
2-Methylphenol	ND	330		µg/Kg	1	11/28/2018 11:33 PM
2-Nitroaniline	ND	1700		µg/Kg	1	11/28/2018 11:33 PM
2-Nitrophenol	ND	330		µg/Kg	1	11/28/2018 11:33 PM
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	11/28/2018 11:33 PM
3-Nitroaniline	ND	1700		µg/Kg	1	11/28/2018 11:33 PM
4,6-Dinitro-2-methylphenol	ND	1700		µg/Kg	1	11/28/2018 11:33 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	11/28/2018 11:33 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	11/28/2018 11:33 PM
4-Chloroaniline	ND	660		µg/Kg	1	11/28/2018 11:33 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	11/28/2018 11:33 PM
4-Methylphenol	ND	330		µg/Kg	1	11/28/2018 11:33 PM
4-Nitroaniline	ND	1700		µg/Kg	1	11/28/2018 11:33 PM
4-Nitrophenol	ND	1700		µg/Kg	1	11/28/2018 11:33 PM
Acenaphthene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Acenaphthylene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Anthracene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	11/28/2018 11:33 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Benzoic acid	ND	1700		µg/Kg	1	11/28/2018 11:33 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-4-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 10:00:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-007	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
<b>EPA 3546</b>			<b>EPA 8270C</b>			
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate:	11/28/2018	Analyst: RRS
Benzyl alcohol	ND	660		µg/Kg	1	11/28/2018 11:33 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Chrysene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	11/28/2018 11:33 PM
Dibenzofuran	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Diethylphthalate	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Dimethylphthalate	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Fluoranthene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Fluorene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Hexachlorobenzene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	11/28/2018 11:33 PM
Hexachloroethane	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Isophorone	ND	330		µg/Kg	1	11/28/2018 11:33 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/28/2018 11:33 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Naphthalene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Nitrobenzene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Pentachlorophenol	ND	1700		µg/Kg	1	11/28/2018 11:33 PM
Phenanthrene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Phenol	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Pyrene	ND	330		µg/Kg	1	11/28/2018 11:33 PM
Pyridine	ND	1700		µg/Kg	1	11/28/2018 11:33 PM
Surr: 1,2-Dichlorobenzene-d4	68.6	25-120		%REC	1	11/28/2018 11:33 PM
Surr: 2,4,6-Tribromophenol	65.1	22-120		%REC	1	11/28/2018 11:33 PM
Surr: 2-Chlorophenol-d4	71.0	27-120		%REC	1	11/28/2018 11:33 PM
Surr: 2-Fluorobiphenyl	75.7	30-120		%REC	1	11/28/2018 11:33 PM
Surr: 2-Fluorophenol	74.3	26-120		%REC	1	11/28/2018 11:33 PM
Surr: 4-Terphenyl-d14	78.2	24-122		%REC	1	11/28/2018 11:33 PM
Surr: Nitrobenzene-d5	71.4	25-120		%REC	1	11/28/2018 11:33 PM

<b>Qualifiers:</b> B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NVO0922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-4-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 10:00:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-007	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**

EPA 3546 EPA 8270C

RunID: NV00922-MS3_181128B	QC Batch: 71522	PrepDate: 11/28/2018	Analyst: RRS
Surr: Phenol-d5	65.9	21-120	%REC
		1	11/28/2018 11:33 PM

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM**

EPA 3546 EPA 8270CSIM

RunID: NV00922-MS9_181127A	QC Batch: 71523	PrepDate: 11/27/2018	Analyst: RRS
1-Methylnaphthalene	ND	5.0	µg/Kg
2-Methylnaphthalene	ND	5.0	µg/Kg
Acenaphthene	ND	5.0	µg/Kg
Acenaphthylene	ND	5.0	µg/Kg
Anthracene	ND	5.0	µg/Kg
Benzo(a)anthracene	ND	5.0	µg/Kg
Benzo(a)pyrene	ND	5.0	µg/Kg
Benzo(b)fluoranthene	ND	5.0	µg/Kg
Benzo(g,h,i)perylene	ND	5.0	µg/Kg
Benzo(k)fluoranthene	ND	5.0	µg/Kg
Chrysene	ND	5.0	µg/Kg
Dibenz(a,h)anthracene	ND	5.0	µg/Kg
Fluoranthene	ND	5.0	µg/Kg
Fluorene	ND	5.0	µg/Kg
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg
Naphthalene	ND	5.0	µg/Kg
Phenanthrene	ND	5.0	µg/Kg
Pyrene	ND	5.0	µg/Kg
Surr: 1,2-Dichlorobenzene-d4	58.0	26-102	%REC
Surr: 2-Fluorobiphenyl	59.0	27-106	%REC
Surr: 4-Terphenyl-d14	57.0	35-123	%REC
Surr: Nitrobenzene-d5	54.0	30-104	%REC

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE**

EPA 7471A

RunID: NV00922-AA1_181121A	QC Batch: 71486	PrepDate: 11/21/2018	Analyst: MG
Mercury	ND	0.10	mg/Kg
		1	11/21/2018 11:39 AM

**TOTAL METALS BY ICP**

EPA 3050B EPA 6010B

RunID: NV00922-ICP2_181121E	QC Batch: 71485	PrepDate: 11/21/2018	Analyst: CEI
Antimony	ND	2.0	mg/Kg
		1	11/21/2018 04:17 PM

<b>Qualifiers:</b> B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-4-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 10:00:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-007	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>TOTAL METALS BY ICP</b>						
	<b>EPA 3050B</b>			<b>EPA 6010B</b>		
RunID: NV00922-ICP2_181121E	QC Batch: 71485			PrepDate: 11/21/2018		Analyst: CEI
Arsenic	2.3	1.0		mg/Kg	1	11/21/2018 04:17 PM
Barium	67	1.0		mg/Kg	1	11/21/2018 04:17 PM
Beryllium	ND	1.0		mg/Kg	1	11/21/2018 04:17 PM
Cadmium	ND	1.0		mg/Kg	1	11/21/2018 04:17 PM
Chromium	17	1.0		mg/Kg	1	11/21/2018 04:17 PM
Cobalt	12	1.0		mg/Kg	1	11/21/2018 04:17 PM
Copper	21	2.0		mg/Kg	1	11/21/2018 04:17 PM
Lead	3.3	1.0		mg/Kg	1	11/21/2018 04:17 PM
Molybdenum	ND	1.0		mg/Kg	1	11/21/2018 04:17 PM
Nickel	14	1.0		mg/Kg	1	11/21/2018 04:17 PM
Selenium	ND	1.0		mg/Kg	1	11/21/2018 04:17 PM
Silver	ND	1.0		mg/Kg	1	11/21/2018 04:17 PM
Thallium	ND	2.0		mg/Kg	1	11/21/2018 04:17 PM
Vanadium	42	1.0		mg/Kg	1	11/21/2018 04:17 PM
Zinc	47	1.0		mg/Kg	1	11/21/2018 04:17 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

**CALIFORNIA** | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

**NEVADA** | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-5-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 10:40:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-009	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/29/2018
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/29/2018
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/29/2018
2,4-Dichlorophenol	ND	1600		µg/Kg	1	11/29/2018
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/29/2018
2,4-Dinitrophenol	ND	1600		µg/Kg	1	11/29/2018
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/29/2018
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/29/2018
2-Chloronaphthalene	ND	330		µg/Kg	1	11/29/2018
2-Chlorophenol	ND	330		µg/Kg	1	11/29/2018
2-Methylnaphthalene	ND	330		µg/Kg	1	11/29/2018
2-Methylphenol	ND	330		µg/Kg	1	11/29/2018
2-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018
2-Nitrophenol	ND	330		µg/Kg	1	11/29/2018
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	11/29/2018
3-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	11/29/2018
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	11/29/2018
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	11/29/2018
4-Chloroaniline	ND	660		µg/Kg	1	11/29/2018
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	11/29/2018
4-Methylphenol	ND	330		µg/Kg	1	11/29/2018
4-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018
4-Nitrophenol	ND	1600		µg/Kg	1	11/29/2018
Acenaphthene	ND	330		µg/Kg	1	11/29/2018
Acenaphthylene	ND	330		µg/Kg	1	11/29/2018
Anthracene	ND	330		µg/Kg	1	11/29/2018
Benzo(a)anthracene	ND	330		µg/Kg	1	11/29/2018
Benzo(a)pyrene	ND	200		µg/Kg	1	11/29/2018
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/29/2018
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/29/2018
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/29/2018
Benzoic acid	ND	1600		µg/Kg	1	11/29/2018

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"



**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-5-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 10:40:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-009	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
<b>EPA 3546</b>			<b>EPA 8270C</b>			
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate:	11/28/2018	Analyst: RRS
Benzyl alcohol	ND	660		µg/Kg	1	11/29/2018
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/29/2018
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/29/2018
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/29/2018
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/29/2018
Butylbenzylphthalate	ND	330		µg/Kg	1	11/29/2018
Chrysene	ND	330		µg/Kg	1	11/29/2018
Di-n-butylphthalate	ND	330		µg/Kg	1	11/29/2018
Di-n-octylphthalate	ND	330		µg/Kg	1	11/29/2018
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	11/29/2018
Dibenzofuran	ND	330		µg/Kg	1	11/29/2018
Diethylphthalate	ND	330		µg/Kg	1	11/29/2018
Dimethylphthalate	ND	330		µg/Kg	1	11/29/2018
Fluoranthene	ND	330		µg/Kg	1	11/29/2018
Fluorene	ND	330		µg/Kg	1	11/29/2018
Hexachlorobenzene	ND	330		µg/Kg	1	11/29/2018
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	11/29/2018
Hexachloroethane	ND	330		µg/Kg	1	11/29/2018
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/29/2018
Isophorone	ND	330		µg/Kg	1	11/29/2018
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/29/2018
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/29/2018
Naphthalene	ND	330		µg/Kg	1	11/29/2018
Nitrobenzene	ND	330		µg/Kg	1	11/29/2018
Pentachlorophenol	ND	1600		µg/Kg	1	11/29/2018
Phenanthrene	ND	330		µg/Kg	1	11/29/2018
Phenol	ND	330		µg/Kg	1	11/29/2018
Pyrene	ND	330		µg/Kg	1	11/29/2018
Pyridine	ND	1600		µg/Kg	1	11/29/2018
Surr: 1,2-Dichlorobenzene-d4	63.6	25-120		%REC	1	11/29/2018
Surr: 2,4,6-Tribromophenol	61.3	22-120		%REC	1	11/29/2018
Surr: 2-Chlorophenol-d4	66.1	27-120		%REC	1	11/29/2018
Surr: 2-Fluorobiphenyl	71.6	30-120		%REC	1	11/29/2018
Surr: 2-Fluorophenol	70.4	26-120		%REC	1	11/29/2018
Surr: 4-Terphenyl-d14	72.5	24-122		%REC	1	11/29/2018
Surr: Nitrobenzene-d5	67.3	25-120		%REC	1	11/29/2018

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-5-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 10:40:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-009	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**

EPA 3546		EPA 8270C	
RunID: NV00922-MS3_181128B	QC Batch: 71522	PrepDate: 11/28/2018	Analyst: RRS
Surr: Phenol-d5	61.4 21-120	%REC 1	11/29/2018

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM**

EPA 3546		EPA 8270CSIM	
RunID: NV00922-MS9_181127A	QC Batch: 71523	PrepDate: 11/27/2018	Analyst: RRS
1-Methylnaphthalene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
2-Methylnaphthalene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Acenaphthene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Acenaphthylene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Anthracene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Benzo(a)anthracene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Benzo(a)pyrene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Benzo(b)fluoranthene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Benzo(g,h,i)perylene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Benzo(k)fluoranthene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Chrysene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Dibenz(a,h)anthracene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Fluoranthene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Fluorene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Indeno(1,2,3-cd)pyrene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Naphthalene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Phenanthrene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Pyrene	ND 5.0	µg/Kg 1	11/27/2018 11:44 PM
Surr: 1,2-Dichlorobenzene-d4	55.0 26-102	%REC 1	11/27/2018 11:44 PM
Surr: 2-Fluorobiphenyl	55.0 27-106	%REC 1	11/27/2018 11:44 PM
Surr: 4-Terphenyl-d14	52.0 35-123	%REC 1	11/27/2018 11:44 PM
Surr: Nitrobenzene-d5	49.0 30-104	%REC 1	11/27/2018 11:44 PM

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE**

EPA 7471A	
RunID: NV00922-AA1_181121A	QC Batch: 71486
Mercury	ND 0.10 mg/Kg 1
PrepDate: 11/21/2018	Analyst: MG
	11/21/2018 11:42 AM

**TOTAL METALS BY ICP**

EPA 3050B		EPA 6010B	
RunID: NV00922-ICP2_181121E	QC Batch: 71485	PrepDate: 11/21/2018	Analyst: CEI
Antimony	ND 2.0 mg/Kg 1		11/21/2018 04:24 PM

<b>Qualifiers:</b> B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-5-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 10:40:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-009	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>TOTAL METALS BY ICP</b>						
	<b>EPA 3050B</b>			<b>EPA 6010B</b>		
RunID: NV00922-ICP2_181121E	QC Batch: 71485			PrepDate: 11/21/2018		Analyst: CEI
Arsenic	2.5	1.0		mg/Kg	1	11/21/2018 04:24 PM
Barium	69	1.0		mg/Kg	1	11/21/2018 04:24 PM
Beryllium	ND	1.0		mg/Kg	1	11/21/2018 04:24 PM
Cadmium	ND	1.0		mg/Kg	1	11/21/2018 04:24 PM
Chromium	15	1.0		mg/Kg	1	11/21/2018 04:24 PM
Cobalt	11	1.0		mg/Kg	1	11/21/2018 04:24 PM
Copper	19	2.0		mg/Kg	1	11/21/2018 04:24 PM
Lead	3.5	1.0		mg/Kg	1	11/21/2018 04:24 PM
Molybdenum	ND	1.0		mg/Kg	1	11/21/2018 04:24 PM
Nickel	12	1.0		mg/Kg	1	11/21/2018 04:24 PM
Selenium	ND	1.0		mg/Kg	1	11/21/2018 04:24 PM
Silver	ND	1.0		mg/Kg	1	11/21/2018 04:24 PM
Thallium	ND	2.0		mg/Kg	1	11/21/2018 04:24 PM
Vanadium	39	1.0		mg/Kg	1	11/21/2018 04:24 PM
Zinc	45	1.0		mg/Kg	1	11/21/2018 04:24 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-6-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 11:20:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-011	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/29/2018 12:26 AM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/29/2018 12:26 AM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	11/29/2018 12:26 AM
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/29/2018 12:26 AM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	11/29/2018 12:26 AM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
2-Chloronaphthalene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
2-Chlorophenol	ND	330		µg/Kg	1	11/29/2018 12:26 AM
2-Methylnaphthalene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
2-Methylphenol	ND	330		µg/Kg	1	11/29/2018 12:26 AM
2-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 12:26 AM
2-Nitrophenol	ND	330		µg/Kg	1	11/29/2018 12:26 AM
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	11/29/2018 12:26 AM
3-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 12:26 AM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	11/29/2018 12:26 AM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	11/29/2018 12:26 AM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	11/29/2018 12:26 AM
4-Chloroaniline	ND	660		µg/Kg	1	11/29/2018 12:26 AM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	11/29/2018 12:26 AM
4-Methylphenol	ND	330		µg/Kg	1	11/29/2018 12:26 AM
4-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 12:26 AM
4-Nitrophenol	ND	1600		µg/Kg	1	11/29/2018 12:26 AM
Acenaphthene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Acenaphthylene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Anthracene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Benzo(a)pyrene	ND	200		µg/Kg	1	11/29/2018 12:26 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Benzoic acid	ND	1600		µg/Kg	1	11/29/2018 12:26 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-6-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 11:20:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-011	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
Benzyl alcohol	ND	660		µg/Kg	1	11/29/2018 12:26 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Chrysene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	11/29/2018 12:26 AM
Dibenzofuran	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Diethylphthalate	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Dimethylphthalate	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Fluoranthene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Fluorene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Hexachlorobenzene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	11/29/2018 12:26 AM
Hexachloroethane	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Isophorone	ND	330		µg/Kg	1	11/29/2018 12:26 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/29/2018 12:26 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Naphthalene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Nitrobenzene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Pentachlorophenol	ND	1600		µg/Kg	1	11/29/2018 12:26 AM
Phenanthrene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Phenol	360	330		µg/Kg	1	11/29/2018 12:26 AM
Pyrene	ND	330		µg/Kg	1	11/29/2018 12:26 AM
Pyridine	ND	1600		µg/Kg	1	11/29/2018 12:26 AM
Surr: 1,2-Dichlorobenzene-d4	62.9	25-120		%REC	1	11/29/2018 12:26 AM
Surr: 2,4,6-Tribromophenol	53.9	22-120		%REC	1	11/29/2018 12:26 AM
Surr: 2-Chlorophenol-d4	64.3	27-120		%REC	1	11/29/2018 12:26 AM
Surr: 2-Fluorobiphenyl	66.5	30-120		%REC	1	11/29/2018 12:26 AM
Surr: 2-Fluorophenol	68.6	26-120		%REC	1	11/29/2018 12:26 AM
Surr: 4-Terphenyl-d14	69.2	24-122		%REC	1	11/29/2018 12:26 AM
Surr: Nitrobenzene-d5	62.2	25-120		%REC	1	11/29/2018 12:26 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-6-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 11:20:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-011	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**

EPA 3546 EPA 8270C

RunID: NV00922-MS3_181128B	QC Batch: 71522	PrepDate: 11/28/2018	Analyst: RRS
Surr: Phenol-d5	60.6	21-120	%REC
			1
			11/29/2018 12:26 AM

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM**

EPA 3546 EPA 8270CSIM

RunID: NV00922-MS9_181127A	QC Batch: 71523	PrepDate: 11/27/2018	Analyst: RRS
1-Methylnaphthalene	ND	5.0	µg/Kg
2-Methylnaphthalene	ND	5.0	µg/Kg
Acenaphthene	ND	5.0	µg/Kg
Acenaphthylene	ND	5.0	µg/Kg
Anthracene	ND	5.0	µg/Kg
Benzo(a)anthracene	ND	5.0	µg/Kg
Benzo(a)pyrene	ND	5.0	µg/Kg
Benzo(b)fluoranthene	ND	5.0	µg/Kg
Benzo(g,h,i)perylene	ND	5.0	µg/Kg
Benzo(k)fluoranthene	ND	5.0	µg/Kg
Chrysene	ND	5.0	µg/Kg
Dibenz(a,h)anthracene	ND	5.0	µg/Kg
Fluoranthene	ND	5.0	µg/Kg
Fluorene	ND	5.0	µg/Kg
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg
Naphthalene	ND	5.0	µg/Kg
Phenanthrene	ND	5.0	µg/Kg
Pyrene	ND	5.0	µg/Kg
Surr: 1,2-Dichlorobenzene-d4	63.0	26-102	%REC
Surr: 2-Fluorobiphenyl	63.0	27-106	%REC
Surr: 4-Terphenyl-d14	59.0	35-123	%REC
Surr: Nitrobenzene-d5	58.0	30-104	%REC

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE**

EPA 7471A

RunID: NV00922-AA1_181121A	QC Batch: 71486	PrepDate: 11/21/2018	Analyst: MG
Mercury	ND	0.099	mg/Kg
			1
			11/21/2018 11:45 AM

**TOTAL METALS BY ICP**

EPA 3050B EPA 6010B

RunID: NV00922-ICP2_181121E	QC Batch: 71485	PrepDate: 11/21/2018	Analyst: CEI
Antimony	ND	2.0	mg/Kg
			1
			11/21/2018 04:30 PM

<b>Qualifiers:</b> B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-6-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 11:20:00 AM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-011	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>TOTAL METALS BY ICP</b>						
	<b>EPA 3050B</b>	<b>EPA 6010B</b>				
RunID: NV00922-ICP2_181121E	QC Batch: 71485	PrepDate:	11/21/2018	Analyst: CEI		
Arsenic	3.0	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Barium	82	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Beryllium	ND	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Cadmium	ND	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Chromium	20	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Cobalt	14	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Copper	25	2.0	mg/Kg	1	11/21/2018 04:30 PM	
Lead	3.9	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Molybdenum	ND	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Nickel	16	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Selenium	ND	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Silver	ND	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Thallium	ND	2.0	mg/Kg	1	11/21/2018 04:30 PM	
Vanadium	51	1.0	mg/Kg	1	11/21/2018 04:30 PM	
Zinc	50	1.0	mg/Kg	1	11/21/2018 04:30 PM	

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

**CALIFORNIA** | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

**NEVADA** | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-7-10.00
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 12:05:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-013	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/29/2018 12:53 AM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/29/2018 12:53 AM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	11/29/2018 12:53 AM
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/29/2018 12:53 AM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	11/29/2018 12:53 AM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
2-Chloronaphthalene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
2-Chlorophenol	ND	330		µg/Kg	1	11/29/2018 12:53 AM
2-Methylnaphthalene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
2-Methylphenol	ND	330		µg/Kg	1	11/29/2018 12:53 AM
2-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 12:53 AM
2-Nitrophenol	ND	330		µg/Kg	1	11/29/2018 12:53 AM
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	11/29/2018 12:53 AM
3-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 12:53 AM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	11/29/2018 12:53 AM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	11/29/2018 12:53 AM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	11/29/2018 12:53 AM
4-Chloroaniline	ND	660		µg/Kg	1	11/29/2018 12:53 AM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	11/29/2018 12:53 AM
4-Methylphenol	ND	330		µg/Kg	1	11/29/2018 12:53 AM
4-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 12:53 AM
4-Nitrophenol	ND	1600		µg/Kg	1	11/29/2018 12:53 AM
Acenaphthene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Acenaphthylene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Anthracene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Benzo(a)pyrene	ND	200		µg/Kg	1	11/29/2018 12:53 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Benzoic acid	ND	1600		µg/Kg	1	11/29/2018 12:53 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"



**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

**CLIENT:** AEI Consultants **Client Sample ID:** B-7-10.00  
**Lab Order:** N033048 **Collection Date:** 11/19/2018 12:05:00 PM  
**Project:** PhII, 392121 **Matrix:** SOIL  
**Lab ID:** N033048-013

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
<b>EPA 3546</b>			<b>EPA 8270C</b>			
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate:	11/28/2018	Analyst: RRS
Benzyl alcohol	ND	660		µg/Kg	1	11/29/2018 12:53 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Chrysene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	11/29/2018 12:53 AM
Dibenzofuran	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Diethylphthalate	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Dimethylphthalate	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Fluoranthene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Fluorene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Hexachlorobenzene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	11/29/2018 12:53 AM
Hexachloroethane	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Isophorone	ND	330		µg/Kg	1	11/29/2018 12:53 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/29/2018 12:53 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Naphthalene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Nitrobenzene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Pentachlorophenol	ND	1600		µg/Kg	1	11/29/2018 12:53 AM
Phenanthrene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Phenol	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Pyrene	ND	330		µg/Kg	1	11/29/2018 12:53 AM
Pyridine	ND	1600		µg/Kg	1	11/29/2018 12:53 AM
Surr: 1,2-Dichlorobenzene-d4	58.0	25-120		%REC	1	11/29/2018 12:53 AM
Surr: 2,4,6-Tribromophenol	52.1	22-120		%REC	1	11/29/2018 12:53 AM
Surr: 2-Chlorophenol-d4	59.0	27-120		%REC	1	11/29/2018 12:53 AM
Surr: 2-Fluorobiphenyl	61.4	30-120		%REC	1	11/29/2018 12:53 AM
Surr: 2-Fluorophenol	62.4	26-120		%REC	1	11/29/2018 12:53 AM
Surr: 4-Terphenyl-d14	61.9	24-122		%REC	1	11/29/2018 12:53 AM
Surr: Nitrobenzene-d5	57.4	25-120		%REC	1	11/29/2018 12:53 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-7-10.00
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 12:05:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-013	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**

EPA 3546 EPA 8270C

RunID: NV00922-MS3_181128B	QC Batch: 71522	PrepDate: 11/28/2018	Analyst: RRS
Surr: Phenol-d5	53.3	21-120	%REC
		1	11/29/2018 12:53 AM

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM**

EPA 3546 EPA 8270CSIM

RunID: NV00922-MS9_181127A	QC Batch: 71523	PrepDate: 11/27/2018	Analyst: RRS
1-Methylnaphthalene	ND	5.0	µg/Kg
2-Methylnaphthalene	ND	5.0	µg/Kg
Acenaphthene	ND	5.0	µg/Kg
Acenaphthylene	ND	5.0	µg/Kg
Anthracene	ND	5.0	µg/Kg
Benzo(a)anthracene	ND	5.0	µg/Kg
Benzo(a)pyrene	ND	5.0	µg/Kg
Benzo(b)fluoranthene	ND	5.0	µg/Kg
Benzo(g,h,i)perylene	ND	5.0	µg/Kg
Benzo(k)fluoranthene	ND	5.0	µg/Kg
Chrysene	ND	5.0	µg/Kg
Dibenz(a,h)anthracene	ND	5.0	µg/Kg
Fluoranthene	ND	5.0	µg/Kg
Fluorene	ND	5.0	µg/Kg
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg
Naphthalene	ND	5.0	µg/Kg
Phenanthrene	ND	5.0	µg/Kg
Pyrene	ND	5.0	µg/Kg
Surr: 1,2-Dichlorobenzene-d4	53.0	26-102	%REC
Surr: 2-Fluorobiphenyl	53.0	27-106	%REC
Surr: 4-Terphenyl-d14	49.0	35-123	%REC
Surr: Nitrobenzene-d5	47.0	30-104	%REC

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE**

EPA 7471A

RunID: NV00922-AA1_181121A	QC Batch: 71486	PrepDate: 11/21/2018	Analyst: MG
Mercury	ND	0.099	mg/Kg
		1	11/21/2018 11:53 AM

**TOTAL METALS BY ICP**

EPA 3050B EPA 6010B

RunID: NV00922-ICP2_181121E	QC Batch: 71485	PrepDate: 11/21/2018	Analyst: CEI
Antimony	ND	2.0	mg/Kg
		1	11/21/2018 04:48 PM

<b>Qualifiers:</b> B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-7-10.00
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 12:05:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-013	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>TOTAL METALS BY ICP</b>						
	<b>EPA 3050B</b>			<b>EPA 6010B</b>		
RunID: NV00922-ICP2_181121E	QC Batch: 71485			PrepDate: 11/21/2018		Analyst: CEI
Arsenic	2.9	1.0		mg/Kg	1	11/21/2018 04:48 PM
Barium	77	1.0		mg/Kg	1	11/21/2018 04:48 PM
Beryllium	ND	1.0		mg/Kg	1	11/21/2018 04:48 PM
Cadmium	ND	1.0		mg/Kg	1	11/21/2018 04:48 PM
Chromium	17	1.0		mg/Kg	1	11/21/2018 04:48 PM
Cobalt	12	1.0		mg/Kg	1	11/21/2018 04:48 PM
Copper	21	2.0		mg/Kg	1	11/21/2018 04:48 PM
Lead	3.5	1.0		mg/Kg	1	11/21/2018 04:48 PM
Molybdenum	ND	1.0		mg/Kg	1	11/21/2018 04:48 PM
Nickel	14	1.0		mg/Kg	1	11/21/2018 04:48 PM
Selenium	ND	1.0		mg/Kg	1	11/21/2018 04:48 PM
Silver	ND	1.0		mg/Kg	1	11/21/2018 04:48 PM
Thallium	ND	2.0		mg/Kg	1	11/21/2018 04:48 PM
Vanadium	43	1.0		mg/Kg	1	11/21/2018 04:48 PM
Zinc	47	1.0		mg/Kg	1	11/21/2018 04:48 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

**CALIFORNIA** | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

**NEVADA** | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-8-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 12:50:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-015	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/29/2018 01:19 AM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/29/2018 01:19 AM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	11/29/2018 01:19 AM
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/29/2018 01:19 AM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	11/29/2018 01:19 AM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
2-Chloronaphthalene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
2-Chlorophenol	ND	330		µg/Kg	1	11/29/2018 01:19 AM
2-Methylnaphthalene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
2-Methylphenol	ND	330		µg/Kg	1	11/29/2018 01:19 AM
2-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 01:19 AM
2-Nitrophenol	ND	330		µg/Kg	1	11/29/2018 01:19 AM
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	11/29/2018 01:19 AM
3-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 01:19 AM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	11/29/2018 01:19 AM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	11/29/2018 01:19 AM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	11/29/2018 01:19 AM
4-Chloroaniline	ND	660		µg/Kg	1	11/29/2018 01:19 AM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	11/29/2018 01:19 AM
4-Methylphenol	ND	330		µg/Kg	1	11/29/2018 01:19 AM
4-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 01:19 AM
4-Nitrophenol	ND	1600		µg/Kg	1	11/29/2018 01:19 AM
Acenaphthene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Acenaphthylene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Anthracene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Benzo(a)pyrene	ND	200		µg/Kg	1	11/29/2018 01:19 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Benzoic acid	ND	1600		µg/Kg	1	11/29/2018 01:19 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-8-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 12:50:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-015	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
<b>EPA 3546</b>			<b>EPA 8270C</b>			
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
Benzyl alcohol	ND	660		µg/Kg	1	11/29/2018 01:19 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Chrysene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	11/29/2018 01:19 AM
Dibenzofuran	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Diethylphthalate	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Dimethylphthalate	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Fluoranthene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Fluorene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Hexachlorobenzene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	11/29/2018 01:19 AM
Hexachloroethane	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Isophorone	ND	330		µg/Kg	1	11/29/2018 01:19 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/29/2018 01:19 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Naphthalene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Nitrobenzene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Pentachlorophenol	ND	1600		µg/Kg	1	11/29/2018 01:19 AM
Phenanthrene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Phenol	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Pyrene	ND	330		µg/Kg	1	11/29/2018 01:19 AM
Pyridine	ND	1600		µg/Kg	1	11/29/2018 01:19 AM
Surr: 1,2-Dichlorobenzene-d4	52.9	25-120		%REC	1	11/29/2018 01:19 AM
Surr: 2,4,6-Tribromophenol	45.3	22-120		%REC	1	11/29/2018 01:19 AM
Surr: 2-Chlorophenol-d4	52.7	27-120		%REC	1	11/29/2018 01:19 AM
Surr: 2-Fluorobiphenyl	54.3	30-120		%REC	1	11/29/2018 01:19 AM
Surr: 2-Fluorophenol	56.1	26-120		%REC	1	11/29/2018 01:19 AM
Surr: 4-Terphenyl-d14	57.9	24-122		%REC	1	11/29/2018 01:19 AM
Surr: Nitrobenzene-d5	51.8	25-120		%REC	1	11/29/2018 01:19 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-8-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 12:50:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-015	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**

EPA 3546 EPA 8270C

RunID: NV00922-MS3_181128B	QC Batch: 71522	PrepDate: 11/28/2018	Analyst: RRS
Surr: Phenol-d5	47.9	21-120	%REC
		1	11/29/2018 01:19 AM

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM**

EPA 3546 EPA 8270CSIM

RunID: NV00922-MS9_181127A	QC Batch: 71523	PrepDate: 11/27/2018	Analyst: RRS
1-Methylnaphthalene	ND	5.0	µg/Kg
2-Methylnaphthalene	ND	5.0	µg/Kg
Acenaphthene	ND	5.0	µg/Kg
Acenaphthylene	ND	5.0	µg/Kg
Anthracene	ND	5.0	µg/Kg
Benzo(a)anthracene	ND	5.0	µg/Kg
Benzo(a)pyrene	ND	5.0	µg/Kg
Benzo(b)fluoranthene	ND	5.0	µg/Kg
Benzo(g,h,i)perylene	ND	5.0	µg/Kg
Benzo(k)fluoranthene	ND	5.0	µg/Kg
Chrysene	ND	5.0	µg/Kg
Dibenz(a,h)anthracene	ND	5.0	µg/Kg
Fluoranthene	ND	5.0	µg/Kg
Fluorene	ND	5.0	µg/Kg
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg
Naphthalene	ND	5.0	µg/Kg
Phenanthrene	ND	5.0	µg/Kg
Pyrene	ND	5.0	µg/Kg
Surr: 1,2-Dichlorobenzene-d4	53.0	26-102	%REC
Surr: 2-Fluorobiphenyl	54.0	27-106	%REC
Surr: 4-Terphenyl-d14	52.0	35-123	%REC
Surr: Nitrobenzene-d5	47.0	30-104	%REC

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE**

EPA 7471A

RunID: NV00922-AA1_181121A	QC Batch: 71486	PrepDate: 11/21/2018	Analyst: MG
Mercury	ND	0.10	mg/Kg
		1	11/21/2018 11:55 AM

**TOTAL METALS BY ICP**

EPA 3050B EPA 6010B

RunID: NV00922-ICP2_181121E	QC Batch: 71485	PrepDate: 11/21/2018	Analyst: CEI
Antimony	ND	2.0	mg/Kg
		1	11/21/2018 04:55 PM

<b>Qualifiers:</b> B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-8-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 12:50:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-015	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>TOTAL METALS BY ICP</b>						
	<b>EPA 3050B</b>		<b>EPA 6010B</b>			
RunID: NV00922-ICP2_181121E	QC Batch: 71485			PrepDate:	11/21/2018	Analyst: CEI
Arsenic	2.3	1.0		mg/Kg	1	11/21/2018 04:55 PM
Barium	74	1.0		mg/Kg	1	11/21/2018 04:55 PM
Beryllium	ND	1.0		mg/Kg	1	11/21/2018 04:55 PM
Cadmium	ND	1.0		mg/Kg	1	11/21/2018 04:55 PM
Chromium	17	1.0		mg/Kg	1	11/21/2018 04:55 PM
Cobalt	12	1.0		mg/Kg	1	11/21/2018 04:55 PM
Copper	20	2.0		mg/Kg	1	11/21/2018 04:55 PM
Lead	3.1	1.0		mg/Kg	1	11/21/2018 04:55 PM
Molybdenum	ND	1.0		mg/Kg	1	11/21/2018 04:55 PM
Nickel	13	1.0		mg/Kg	1	11/21/2018 04:55 PM
Selenium	ND	1.0		mg/Kg	1	11/21/2018 04:55 PM
Silver	ND	1.0		mg/Kg	1	11/21/2018 04:55 PM
Thallium	ND	2.0		mg/Kg	1	11/21/2018 04:55 PM
Vanadium	42	1.0		mg/Kg	1	11/21/2018 04:55 PM
Zinc	47	1.0		mg/Kg	1	11/21/2018 04:55 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

**CALIFORNIA** | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

**NEVADA** | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-9-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 1:20:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-017	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
	<b>EPA 3546</b>			<b>EPA 8270C</b>		
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate: 11/28/2018		Analyst: RRS
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/29/2018 01:46 AM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/29/2018 01:46 AM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	11/29/2018 01:46 AM
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/29/2018 01:46 AM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	11/29/2018 01:46 AM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
2-Chloronaphthalene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
2-Chlorophenol	ND	330		µg/Kg	1	11/29/2018 01:46 AM
2-Methylnaphthalene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
2-Methylphenol	ND	330		µg/Kg	1	11/29/2018 01:46 AM
2-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 01:46 AM
2-Nitrophenol	ND	330		µg/Kg	1	11/29/2018 01:46 AM
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	11/29/2018 01:46 AM
3-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 01:46 AM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	11/29/2018 01:46 AM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	11/29/2018 01:46 AM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	11/29/2018 01:46 AM
4-Chloroaniline	ND	660		µg/Kg	1	11/29/2018 01:46 AM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	11/29/2018 01:46 AM
4-Methylphenol	ND	330		µg/Kg	1	11/29/2018 01:46 AM
4-Nitroaniline	ND	1600		µg/Kg	1	11/29/2018 01:46 AM
4-Nitrophenol	ND	1600		µg/Kg	1	11/29/2018 01:46 AM
Acenaphthene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Acenaphthylene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Anthracene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Benzo(a)pyrene	ND	200		µg/Kg	1	11/29/2018 01:46 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Benzoic acid	ND	1600		µg/Kg	1	11/29/2018 01:46 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"



**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-9-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 1:20:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-017	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
<b>EPA 3546</b>			<b>EPA 8270C</b>			
RunID: NV00922-MS3_181128B	QC Batch: 71522			PrepDate:	11/28/2018	Analyst: RRS
Benzyl alcohol	ND	660		µg/Kg	1	11/29/2018 01:46 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Chrysene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	11/29/2018 01:46 AM
Dibenzofuran	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Diethylphthalate	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Dimethylphthalate	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Fluoranthene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Fluorene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Hexachlorobenzene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	11/29/2018 01:46 AM
Hexachloroethane	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Isophorone	ND	330		µg/Kg	1	11/29/2018 01:46 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/29/2018 01:46 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Naphthalene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Nitrobenzene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Pentachlorophenol	ND	1600		µg/Kg	1	11/29/2018 01:46 AM
Phenanthrene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Phenol	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Pyrene	ND	330		µg/Kg	1	11/29/2018 01:46 AM
Pyridine	ND	1600		µg/Kg	1	11/29/2018 01:46 AM
Surr: 1,2-Dichlorobenzene-d4	66.1	25-120		%REC	1	11/29/2018 01:46 AM
Surr: 2,4,6-Tribromophenol	61.7	22-120		%REC	1	11/29/2018 01:46 AM
Surr: 2-Chlorophenol-d4	69.0	27-120		%REC	1	11/29/2018 01:46 AM
Surr: 2-Fluorobiphenyl	72.2	30-120		%REC	1	11/29/2018 01:46 AM
Surr: 2-Fluorophenol	72.4	26-120		%REC	1	11/29/2018 01:46 AM
Surr: 4-Terphenyl-d14	77.2	24-122		%REC	1	11/29/2018 01:46 AM
Surr: Nitrobenzene-d5	67.4	25-120		%REC	1	11/29/2018 01:46 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NVO0922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-9-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 1:20:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-017	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**

EPA 3546		EPA 8270C	
RunID: NV00922-MS3_181128B	QC Batch: 71522	PrepDate: 11/28/2018	Analyst: RRS
Surr: Phenol-d5	64.1	21-120	%REC
		1	11/29/2018 01:46 AM

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM**

EPA 3546		EPA 8270CSIM	
RunID: NV00922-MS9_181127A	QC Batch: 71523	PrepDate: 11/27/2018	Analyst: RRS
1-Methylnaphthalene	ND	5.0	µg/Kg
2-Methylnaphthalene	ND	5.0	µg/Kg
Acenaphthene	ND	5.0	µg/Kg
Acenaphthylene	ND	5.0	µg/Kg
Anthracene	ND	5.0	µg/Kg
Benzo(a)anthracene	ND	5.0	µg/Kg
Benzo(a)pyrene	ND	5.0	µg/Kg
Benzo(b)fluoranthene	ND	5.0	µg/Kg
Benzo(g,h,i)perylene	ND	5.0	µg/Kg
Benzo(k)fluoranthene	ND	5.0	µg/Kg
Chrysene	ND	5.0	µg/Kg
Dibenz(a,h)anthracene	ND	5.0	µg/Kg
Fluoranthene	ND	5.0	µg/Kg
Fluorene	ND	5.0	µg/Kg
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg
Naphthalene	ND	5.0	µg/Kg
Phenanthrene	ND	5.0	µg/Kg
Pyrene	ND	5.0	µg/Kg
Surr: 1,2-Dichlorobenzene-d4	58.0	26-102	%REC
Surr: 2-Fluorobiphenyl	58.0	27-106	%REC
Surr: 4-Terphenyl-d14	54.0	35-123	%REC
Surr: Nitrobenzene-d5	51.0	30-104	%REC

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

EPA 8260B			
RunID: CA01638-MS10_181127A	QC Batch: CA18VS059	PrepDate:	Analyst: GAC
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,1-Trichloroethane	ND	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,2-Trichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethene	ND	5.0	µg/Kg

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike/Surrogate outside of limits due to matrix interference  
 Results are wet unless otherwise specified  
 DO Surrogate Diluted Out



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NVO0922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-9-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 1:20:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-017	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: CA01638-MS10_181127A	QC Batch: CA18VS059	PrepDate:	Analyst: GAC
1,1-Dichloropropene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,2,3-Trichloropropane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg 1 11/27/2018 02:22 PM
1,2-Dibromoethane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,2-Dichlorobenzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,2-Dichloroethane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,2-Dichloropropane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,3-Dichlorobenzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,3-Dichloropropane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
1,4-Dichlorobenzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
2,2-Dichloropropane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
2-Butanone	ND	50	µg/Kg 1 11/27/2018 02:22 PM
2-Chlorotoluene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
4-Chlorotoluene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
4-Isopropyltoluene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Benzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Bromobenzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Bromodichloromethane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Bromoform	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Bromomethane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Carbon tetrachloride	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Chlorobenzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Chloroethane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Chloroform	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Chloromethane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Dibromochloromethane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Dibromomethane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Ethylbenzene	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM
Freon-113	ND	5.0	µg/Kg 1 11/27/2018 02:22 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-9-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 1:20:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-017	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: CA01638-MS10_181127A	QC Batch: CA18VS059	PrepDate:	Analyst: <b>GAC</b>		
Hexachlorobutadiene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
m,p-Xylene	ND	10	µg/Kg	1	11/27/2018 02:22 PM
Methylene chloride	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
MTBE	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
Naphthalene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
o-Xylene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
Styrene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
Toluene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
Trichloroethene	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
Vinyl chloride	ND	5.0	µg/Kg	1	11/27/2018 02:22 PM
Surr: 1,2-Dichloroethane-d4	115	70-156	%REC	1	11/27/2018 02:22 PM
Surr: 4-Bromofluorobenzene	94.5	73-129	%REC	1	11/27/2018 02:22 PM
Surr: Dibromofluoromethane	110	73-146	%REC	1	11/27/2018 02:22 PM
Surr: Toluene-d8	110	80-120	%REC	1	11/27/2018 02:22 PM

**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3550B**

**EPA 8015B**

RunID: NV00922-GC3_181128G	QC Batch: 71527	PrepDate: 11/27/2018	Analyst: <b>RRS</b>		
DRO	ND	10	mg/Kg	1	11/30/2018 04:24 AM
ORO	ND	10	mg/Kg	1	11/30/2018 04:24 AM
Surr: p-Terphenyl	88.1	56-133	%REC	1	11/30/2018 04:24 AM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: NV00922-GC4_181126A	QC Batch: E18VS206	PrepDate:	Analyst: <b>QBM</b>		
GRO	ND	1.0	mg/Kg	1	11/26/2018 11:40 AM
Surr: Chlorobenzene - d5	118	47-163	%REC	1	11/26/2018 11:40 AM

<b>Qualifiers:</b> B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**ASSET Laboratories**

**ANALYTICAL RESULTS**  
 Print Date: 30-Nov-18

<b>CLIENT:</b> AEI Consultants	<b>Client Sample ID:</b> B-9-10.0
<b>Lab Order:</b> N033048	<b>Collection Date:</b> 11/19/2018 1:20:00 PM
<b>Project:</b> PhII, 392121	<b>Matrix:</b> SOIL
<b>Lab ID:</b> N033048-017	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471A**

RunID: NV00922-AA1_181121A	QC Batch: 71486	PrepDate: 11/21/2018	Analyst: <b>MG</b>
Mercury	ND	0.10	mg/Kg
		1	11/21/2018 11:58 AM

**TOTAL METALS BY ICP**

**EPA 3050B**

**EPA 6010B**

RunID: NV00922-ICP2_181121E	QC Batch: 71485	PrepDate: 11/21/2018	Analyst: <b>CEI</b>
Antimony	ND	2.0	mg/Kg
Arsenic	3.1	1.0	mg/Kg
Barium	83	1.0	mg/Kg
Beryllium	ND	1.0	mg/Kg
Cadmium	ND	1.0	mg/Kg
Chromium	19	1.0	mg/Kg
Cobalt	13	1.0	mg/Kg
Copper	22	2.0	mg/Kg
Lead	3.6	1.0	mg/Kg
Molybdenum	ND	1.0	mg/Kg
Nickel	15	1.0	mg/Kg
Selenium	ND	1.0	mg/Kg
Silver	ND	1.0	mg/Kg
Thallium	ND	2.0	mg/Kg
Vanadium	47	1.0	mg/Kg
Zinc	52	1.0	mg/Kg

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

**CALIFORNIA** | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

**NEVADA** | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**CLIENT:** AEI Consultants  
**WorkOrder:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 6010\_S**

Sample ID: <b>MB-71485</b>	SampType: <b>MBLK</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/21/2018</b>	RunNo: <b>130127</b>
Client ID: <b>PBS</b>	Batch ID: <b>71485</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/21/2018</b>	SeqNo: <b>3211876</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	2.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: <b>LCS-71485</b>	SampType: <b>LCS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/21/2018</b>	RunNo: <b>130127</b>
Client ID: <b>LCSS</b>	Batch ID: <b>71485</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/21/2018</b>	SeqNo: <b>3211877</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	25.760	2.0	25.00	0	103	80	120				
Arsenic	25.938	1.0	25.00	0	104	80	120				
Barium	25.926	1.0	25.00	0	104	80	120				
Beryllium	25.733	1.0	25.00	0	103	80	120				
Cadmium	26.210	1.0	25.00	0	105	80	120				
Chromium	25.873	1.0	25.00	0	103	80	120				
Cobalt	25.987	1.0	25.00	0	104	80	120				

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 6010\_S**

Sample ID: <b>LCS-71485</b>	SampType: <b>LCS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/21/2018</b>	RunNo: <b>130127</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>71485</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/21/2018</b>	SeqNo: <b>3211877</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	26.043	2.0	25.00	0	104	80	120				
Lead	26.219	1.0	25.00	0	105	80	120				
Molybdenum	25.854	1.0	25.00	0	103	80	120				
Nickel	26.002	1.0	25.00	0	104	80	120				
Selenium	26.026	1.0	25.00	0	104	80	120				
Silver	27.303	1.0	25.00	0	109	80	120				
Thallium	25.916	2.0	25.00	0	104	80	120				
Vanadium	26.028	1.0	25.00	0	104	80	120				
Zinc	25.027	1.0	25.00	0	100	80	120				

Sample ID: <b>N033048-001A-MS</b>	SampType: <b>MS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/21/2018</b>	RunNo: <b>130127</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71485</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/21/2018</b>	SeqNo: <b>3211883</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	14.007	2.0	24.99	0	56.1	75	125				S
Arsenic	22.789	1.0	24.99	2.268	82.1	75	125				
Barium	67.190	1.0	24.99	50.98	64.9	75	125				S
Beryllium	19.402	1.0	24.99	0	77.6	75	125				
Cadmium	20.639	1.0	24.99	0.4395	80.8	75	125				
Chromium	33.341	1.0	24.99	13.23	80.5	75	125				
Cobalt	29.720	1.0	24.99	9.171	82.2	75	125				
Copper	36.731	2.0	24.99	16.31	81.7	75	125				
Lead	22.195	1.0	24.99	2.657	78.2	75	125				
Molybdenum	18.940	1.0	24.99	0	75.8	75	125				
Nickel	30.128	1.0	24.99	10.36	79.1	75	125				
Selenium	18.234	1.0	24.99	0	73.0	75	125				S
Silver	21.902	1.0	24.99	0	87.7	75	125				
Thallium	19.935	2.0	24.99	0	79.8	75	125				
Vanadium	52.197	1.0	24.99	31.79	81.7	75	125				
Zinc	51.977	1.0	24.99	37.12	59.5	75	125				S

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010\_S**

Sample ID: <b>N033048-001A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/21/2018</b>	RunNo: <b>130127</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71485</b>	TestNo: <b>EPA 6010B EPA 3050B</b>		Analysis Date: <b>11/21/2018</b>	SeqNo: <b>3211884</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	14.468	2.0	24.89	0	58.1	75	125	14.01	3.24	20	S
Arsenic	23.326	1.0	24.89	2.268	84.6	75	125	22.79	2.33	20	
Barium	67.697	1.0	24.89	50.98	67.2	75	125	67.19	0.750	20	S
Beryllium	19.568	1.0	24.89	0	78.6	75	125	19.40	0.852	20	
Cadmium	20.828	1.0	24.89	0.4395	81.9	75	125	20.64	0.910	20	
Chromium	33.665	1.0	24.89	13.23	82.1	75	125	33.34	0.966	20	
Cobalt	30.064	1.0	24.89	9.171	83.9	75	125	29.72	1.15	20	
Copper	37.061	2.0	24.89	16.31	83.4	75	125	36.73	0.895	20	
Lead	22.426	1.0	24.89	2.657	79.4	75	125	22.19	1.04	20	
Molybdenum	19.119	1.0	24.89	0	76.8	75	125	18.94	0.943	20	
Nickel	30.340	1.0	24.89	10.36	80.3	75	125	30.13	0.701	20	
Selenium	18.225	1.0	24.89	0	73.2	75	125	18.23	0.0492	20	S
Silver	22.080	1.0	24.89	0	88.7	75	125	21.90	0.812	20	
Thallium	20.046	2.0	24.89	0	80.5	75	125	19.93	0.556	20	
Vanadium	52.518	1.0	24.89	31.79	83.3	75	125	52.20	0.613	20	
Zinc	52.481	1.0	24.89	37.12	61.7	75	125	51.98	0.965	20	S

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |



**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 7471\_S**

Sample ID: <b>MB-71486</b>	SampType: <b>MBLK</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/21/2018</b>	RunNo: <b>130107</b>						
Client ID: <b>PBS</b>	Batch ID: <b>71486</b>	TestNo: <b>EPA 7471A</b>		Analysis Date: <b>11/21/2018</b>	SeqNo: <b>3211162</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.10

Sample ID: <b>LCS-71486</b>	SampType: <b>LCS</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/21/2018</b>	RunNo: <b>130107</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>71486</b>	TestNo: <b>EPA 7471A</b>		Analysis Date: <b>11/21/2018</b>	SeqNo: <b>3211163</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.381 0.10 0.4167 0 91.5 80 120

Sample ID: <b>N033048-003A-MS</b>	SampType: <b>MS</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/21/2018</b>	RunNo: <b>130107</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71486</b>	TestNo: <b>EPA 7471A</b>		Analysis Date: <b>11/21/2018</b>	SeqNo: <b>3211164</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.375 0.099 0.4139 0 90.6 75 125

Sample ID: <b>N033048-003A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>7471_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/21/2018</b>	RunNo: <b>130107</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71486</b>	TestNo: <b>EPA 7471A</b>		Analysis Date: <b>11/21/2018</b>	SeqNo: <b>3211165</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.380 0.099 0.4139 0 91.8 75 125 0.3748 1.38 20

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_DM H**

Sample ID: <b>LCS-71527_DRO</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130229</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>71527</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/30/2018</b>	SeqNo: <b>3215910</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	863.480	10	1000	0	86.3	69	123				
Surr: p-Terphenyl	64.213		80.00		80.3	56	133				

Sample ID: <b>MB-71527</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130229</b>						
Client ID: <b>PBS</b>	Batch ID: <b>71527</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/30/2018</b>	SeqNo: <b>3215911</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	8.340	10									
ORO	9.183	10									
Surr: p-Terphenyl	64.974		80.00		81.2	56	133				

Sample ID: <b>N033048-017A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130229</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71527</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/30/2018</b>	SeqNo: <b>3215913</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	1234.352	9.9	993.0	9.064	123	46	142				
Surr: p-Terphenyl	85.237		79.44		107	56	133				

Sample ID: <b>N033048-017A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_DM H</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130229</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71527</b>	TestNo: <b>EPA 8015B EPA 3550B</b>		Analysis Date: <b>11/30/2018</b>	SeqNo: <b>3215914</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	1261.884	10	999.0	9.064	125	46	142	1234	2.21	20	
Surr: p-Terphenyl	79.440		79.92		99.4	56	133		0		

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8015GAS\_S**

Sample ID: <b>E181126LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8015GAS_S</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>130144</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>E18VS206</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>11/26/2018</b>	SeqNo: <b>3212220</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.419	1.0	5.000	0	108	72	136				
Surr: Chlorobenzene - d5	107.672		100.0		108	47	163				

Sample ID: <b>E181126MB1</b>	SampType: <b>MBLK</b>	TestCode: <b>8015GAS_S</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>130144</b>						
Client ID: <b>PBS</b>	Batch ID: <b>E18VS206</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>11/26/2018</b>	SeqNo: <b>3212221</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Chlorobenzene - d5	93.228		100.0		93.2	47	163				

Sample ID: <b>N033054-004AMS</b>	SampType: <b>MS</b>	TestCode: <b>8015GAS_S</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>130144</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E18VS206</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>11/26/2018</b>	SeqNo: <b>3212225</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.482	1.0	5.000	0	89.6	43	153				
Surr: Chlorobenzene - d5	102.993		100.0		103	47	163				

Sample ID: <b>N033054-004AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_S</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>130144</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E18VS206</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>11/26/2018</b>	SeqNo: <b>3212226</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.251	1.0	5.000	0	85.0	43	153	4.482	5.29	20	
Surr: Chlorobenzene - d5	96.571		100.0		96.6	47	163		0		

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8260SOIL**

Sample ID: <b>CA181127-LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>130166</b>
Client ID: <b>LCSS</b>	Batch ID: <b>CA18VS059</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3212955</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	36.320	5.0	40.00	0	90.8	78	127				
1,1,1-Trichloroethane	38.430	5.0	40.00	0	96.1	75	128				
1,1,2,2-Tetrachloroethane	41.000	5.0	40.00	0	103	78	126				
1,1,2-Trichloroethane	34.650	5.0	40.00	0	86.6	80	120				
1,1-Dichloroethane	35.830	5.0	40.00	0	89.6	65	136				
1,1-Dichloroethene	33.560	5.0	40.00	0	83.9	66	134				
1,1-Dichloropropene	43.520	5.0	40.00	0	109	79	128				
1,2,3-Trichlorobenzene	38.880	5.0	40.00	0	97.2	80	120				
1,2,3-Trichloropropane	43.280	5.0	40.00	0	108	79	123				
1,2,4-Trichlorobenzene	37.930	5.0	40.00	0	94.8	74	121				
1,2,4-Trimethylbenzene	37.530	5.0	40.00	0	93.8	79	128				
1,2-Dibromo-3-chloropropane	40.480	10	40.00	0	101	65	131				
1,2-Dibromoethane	40.580	5.0	40.00	0	101	79	124				
1,2-Dichlorobenzene	39.860	5.0	40.00	0	99.7	80	120				
1,2-Dichloroethane	39.870	5.0	40.00	0	99.7	80	120				
1,2-Dichloropropane	39.360	5.0	40.00	0	98.4	80	120				
1,3,5-Trimethylbenzene	37.770	5.0	40.00	0	94.4	76	129				
1,3-Dichlorobenzene	41.590	5.0	40.00	0	104	80	120				
1,3-Dichloropropane	43.980	5.0	40.00	0	110	80	120				
1,4-Dichlorobenzene	38.640	5.0	40.00	0	96.6	80	120				
2,2-Dichloropropane	40.050	5.0	40.00	0	100	66	136				
2-Butanone	441.770	50	400.0	0	110	54	145				
2-Chlorotoluene	41.070	5.0	40.00	0	103	78	124				
4-Chlorotoluene	42.650	5.0	40.00	0	107	79	125				
4-Isopropyltoluene	38.770	5.0	40.00	0	96.9	75	130				
Benzene	40.560	5.0	40.00	0	101	80	120				
Bromobenzene	40.020	5.0	40.00	0	100	80	120				
Bromodichloromethane	35.870	5.0	40.00	0	89.7	80	127				
Bromoform	39.220	5.0	40.00	0	98.0	67	136				
Bromomethane	43.180	5.0	40.00	0	108	45	148				

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8260SOIL**

Sample ID: <b>CA181127-LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>130166</b>
Client ID: <b>LCSS</b>	Batch ID: <b>CA18VS059</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3212955</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	37.610	5.0	40.00	0	94.0	75	137				
Chlorobenzene	39.270	5.0	40.00	0	98.2	80	120				
Chloroethane	43.860	5.0	40.00	0	110	64	145				
Chloroform	38.930	5.0	40.00	0	97.3	75	120				
Chloromethane	35.440	5.0	40.00	0	88.6	58	139				
cis-1,2-Dichloroethene	36.460	5.0	40.00	0	91.2	76	120				
cis-1,3-Dichloropropene	44.140	5.0	40.00	0	110	77	128				
Dibromochloromethane	37.970	5.0	40.00	0	94.9	79	124				
Dibromomethane	39.550	5.0	40.00	0	98.9	80	120				
Dichlorodifluoromethane	36.780	5.0	40.00	0	92.0	64	137				
Ethylbenzene	40.890	5.0	40.00	0	102	79	120				
Freon-113	33.960	5.0	40.00	0	84.9	58	141				
Hexachlorobutadiene	36.590	5.0	40.00	0	91.5	72	126				
Isopropylbenzene	35.590	5.0	40.00	0	89.0	62	130				
m,p-Xylene	87.120	10	80.00	0	109	80	124				
Methylene chloride	34.630	5.0	40.00	0	86.6	65	136				
MTBE	39.030	5.0	40.00	0	97.6	65	130				
n-Butylbenzene	36.460	5.0	40.00	0	91.2	76	133				
n-Propylbenzene	39.120	5.0	40.00	0	97.8	76	131				
Naphthalene	37.890	5.0	40.00	0	94.7	58	127				
o-Xylene	39.950	5.0	40.00	0	99.9	75	121				
sec-Butylbenzene	38.110	5.0	40.00	0	95.3	76	133				
Styrene	39.340	5.0	40.00	0	98.4	80	120				
tert-Butylbenzene	36.750	5.0	40.00	0	91.9	73	130				
Tetrachloroethene	36.910	5.0	40.00	0	92.3	77	124				
Toluene	40.880	5.0	40.00	0	102	79	120				
trans-1,2-Dichloroethene	32.700	5.0	40.00	0	81.8	72	129				
Trichloroethene	40.340	5.0	40.00	0	101	80	120				
Trichlorofluoromethane	39.670	5.0	40.00	0	99.2	66	146				
Vinyl chloride	37.910	5.0	40.00	0	94.8	68	141				

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8260SOIL**

Sample ID: <b>CA181127-LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>130166</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>CA18VS059</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3212955</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	49.280		50.00		98.6	70	156				
Surr: 4-Bromofluorobenzene	50.490		50.00		101	73	129				
Surr: Dibromofluoromethane	46.960		50.00		93.9	73	146				
Surr: Toluene-d8	53.210		50.00		106	80	120				

Sample ID: <b>CA181127-LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>130166</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>CA18VS059</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3212956</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.940	5.0	40.00	0	94.8	78	127	36.32	4.36	20	
1,1,1-Trichloroethane	42.320	5.0	40.00	0	106	75	128	38.43	9.63	20	
1,1,2,2-Tetrachloroethane	38.640	5.0	40.00	0	96.6	78	126	41.00	5.93	20	
1,1,2-Trichloroethane	32.110	5.0	40.00	0	80.3	80	120	34.65	7.61	20	
1,1-Dichloroethane	39.870	5.0	40.00	0	99.7	65	136	35.83	10.7	20	
1,1-Dichloroethene	36.490	5.0	40.00	0	91.2	66	134	33.56	8.37	20	
1,1-Dichloropropene	44.420	5.0	40.00	0	111	79	128	43.52	2.05	20	
1,2,3-Trichlorobenzene	38.460	5.0	40.00	0	96.2	80	120	38.88	1.09	20	
1,2,3-Trichloropropane	39.880	5.0	40.00	0	99.7	79	123	43.28	8.18	20	
1,2,4-Trichlorobenzene	38.520	5.0	40.00	0	96.3	74	121	37.93	1.54	20	
1,2,4-Trimethylbenzene	38.050	5.0	40.00	0	95.1	79	128	37.53	1.38	20	
1,2-Dibromo-3-chloropropane	34.840	10	40.00	0	87.1	65	131	40.48	15.0	20	
1,2-Dibromoethane	38.230	5.0	40.00	0	95.6	79	124	40.58	5.96	20	
1,2-Dichlorobenzene	39.440	5.0	40.00	0	98.6	80	120	39.86	1.06	20	
1,2-Dichloroethane	34.560	5.0	40.00	0	86.4	80	120	39.87	14.3	20	
1,2-Dichloropropane	37.260	5.0	40.00	0	93.2	80	120	39.36	5.48	20	
1,3,5-Trimethylbenzene	38.970	5.0	40.00	0	97.4	76	129	37.77	3.13	20	
1,3-Dichlorobenzene	40.570	5.0	40.00	0	101	80	120	41.59	2.48	20	
1,3-Dichloropropane	41.450	5.0	40.00	0	104	80	120	43.98	5.92	20	
1,4-Dichlorobenzene	38.510	5.0	40.00	0	96.3	80	120	38.64	0.337	20	
2,2-Dichloropropane	37.640	5.0	40.00	0	94.1	66	136	40.05	6.20	20	

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8260SOIL**

Sample ID: <b>CA181127-LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>130166</b>
Client ID: <b>LCSS02</b>	Batch ID: <b>CA18VS059</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3212956</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone	398.450	50	400.0	0	99.6	54	145	441.8	10.3	20	
2-Chlorotoluene	41.230	5.0	40.00	0	103	78	124	41.07	0.389	20	
4-Chlorotoluene	45.170	5.0	40.00	0	113	79	125	42.65	5.74	20	
4-Isopropyltoluene	39.490	5.0	40.00	0	98.7	75	130	38.77	1.84	20	
Benzene	39.920	5.0	40.00	0	99.8	80	120	40.56	1.59	20	
Bromobenzene	39.150	5.0	40.00	0	97.9	80	120	40.02	2.20	20	
Bromodichloromethane	33.540	5.0	40.00	0	83.9	80	127	35.87	6.71	20	
Bromoform	41.700	5.0	40.00	0	104	67	136	39.22	6.13	20	
Bromomethane	44.460	5.0	40.00	0	111	45	148	43.18	2.92	20	
Carbon tetrachloride	38.980	5.0	40.00	0	97.5	75	137	37.61	3.58	20	
Chlorobenzene	39.080	5.0	40.00	0	97.7	80	120	39.27	0.485	20	
Chloroethane	44.860	5.0	40.00	0	112	64	145	43.86	2.25	20	
Chloroform	38.290	5.0	40.00	0	95.7	75	120	38.93	1.66	20	
Chloromethane	41.870	5.0	40.00	0	105	58	139	35.44	16.6	20	
cis-1,2-Dichloroethene	39.290	5.0	40.00	0	98.2	76	120	36.46	7.47	20	
cis-1,3-Dichloropropene	39.680	5.0	40.00	0	99.2	77	128	44.14	10.6	20	
Dibromochloromethane	37.180	5.0	40.00	0	93.0	79	124	37.97	2.10	20	
Dibromomethane	38.700	5.0	40.00	0	96.8	80	120	39.55	2.17	20	
Dichlorodifluoromethane	38.110	5.0	40.00	0	95.3	64	137	36.78	3.55	20	
Ethylbenzene	42.340	5.0	40.00	0	106	79	120	40.89	3.48	20	
Freon-113	36.090	5.0	40.00	0	90.2	58	141	33.96	6.08	20	
Hexachlorobutadiene	38.280	5.0	40.00	0	95.7	72	126	36.59	4.51	20	
Isopropylbenzene	37.490	5.0	40.00	0	93.7	62	130	35.59	5.20	20	
m,p-Xylene	87.060	10	80.00	0	109	80	124	87.12	0.0689	20	
Methylene chloride	36.610	5.0	40.00	0	91.5	65	136	34.63	5.56	20	
MTBE	37.250	5.0	40.00	0	93.1	65	130	39.03	4.67	20	
n-Butylbenzene	37.660	5.0	40.00	0	94.2	76	133	36.46	3.24	20	
n-Propylbenzene	40.020	5.0	40.00	0	100	76	131	39.12	2.27	20	
Naphthalene	36.500	5.0	40.00	0	91.2	58	127	37.89	3.74	20	
o-Xylene	39.370	5.0	40.00	0	98.4	75	121	39.95	1.46	20	

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference



CALIFORNIA | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NVO0922  
 ORELAP/NELAP Cert 4046

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8260SOIL**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	38.290	5.0	40.00	0	95.7	76	133	38.11	0.471	20	
Styrene	40.880	5.0	40.00	0	102	80	120	39.34	3.84	20	
tert-Butylbenzene	38.120	5.0	40.00	0	95.3	73	130	36.75	3.66	20	
Tetrachloroethene	36.300	5.0	40.00	0	90.8	77	124	36.91	1.67	20	
Toluene	39.540	5.0	40.00	0	98.8	79	120	40.88	3.33	20	
trans-1,2-Dichloroethene	36.020	5.0	40.00	0	90.1	72	129	32.70	9.66	20	
Trichloroethene	38.110	5.0	40.00	0	95.3	80	120	40.34	5.69	20	
Trichlorofluoromethane	44.380	5.0	40.00	0	111	66	146	39.67	11.2	20	
Vinyl chloride	40.610	5.0	40.00	0	102	68	141	37.91	6.88	20	
Surr: 1,2-Dichloroethane-d4	48.690		50.00		97.4	70	156		0		
Surr: 4-Bromofluorobenzene	49.460		50.00		98.9	73	129		0		
Surr: Dibromofluoromethane	47.260		50.00		94.5	73	146		0		
Surr: Toluene-d8	51.610		50.00		103	80	120		0		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference



**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260SOIL**

Sample ID: <b>CA181127-MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>130166</b>
Client ID: <b>PBS</b>	Batch ID: <b>CA18VS059</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3212957</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Butanone	ND	50									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Freon-113	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260SOIL**

Sample ID: <b>CA181127-MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>130166</b>
Client ID: <b>PBS</b>	Batch ID: <b>CA18VS059</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3212957</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylenechloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	57.760		50.00		116	70	156				
Surr: 4-Bromofluorobenzene	47.340		50.00		94.7	73	129				
Surr: Dibromofluoromethane	50.930		50.00		102	73	146				
Surr: Toluene-d8	51.460		50.00		103	80	120				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOIL\_M**

Sample ID: <b>LCS-71522</b>	SampType: <b>LCS</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130199</b>
Client ID: <b>LCSS</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214622</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3268.500	330	5000	0	65.4	26	120				
1,2-Dichlorobenzene	3076.000	330	5000	0	61.5	22	120				
1,3-Dichlorobenzene	3096.500	330	5000	0	61.9	22	120				
1,4-Dichlorobenzene	3166.000	330	5000	0	63.3	24	120				
2,4,5-Trichlorophend	2826.000	330	5000	0	56.5	42	120				
2,4,6-Trichlorophend	3596.500	330	5000	0	71.9	42	120				
2,4-Dichlorophenol	3567.000	1600	5000	0	71.3	39	120				
2,4-Dimethylphenol	3820.500	330	5000	0	76.4	36	120				
2,4-Dinitrophenol	2918.000	1600	5000	0	58.4	17	120				
2,4-Dinitrotoluene	3259.000	330	5000	0	65.2	35	120				
2,6-Dinitrotoluene	3611.500	330	5000	0	72.2	34	120				
2-Chloronaphthalene	3180.500	330	5000	0	63.6	31	120				
2-Chlorophenol	3547.500	330	5000	0	71.0	35	120				
2-Methylnaphthalene	2730.000	330	5000	0	54.6	28	120				
2-Methylphenol	3161.000	330	5000	0	63.2	34	120				
2-Nitroaniline	2674.500	1600	5000	0	53.5	45	125				
2-Nitrophenol	3723.000	330	5000	0	74.5	35	120				
3,3'-Dichlorobenzidine	3958.500	660	5000	0	79.2	29	121				
3-Nitroaniline	2971.500	1600	5000	0	59.4	47	120				
4,6-Dinitro-2-methylphenol	3209.000	1600	5000	0	64.2	39	120				
4-Bromophenyl-phenylether	3617.500	330	5000	0	72.4	42	120				
4-Chloro-3-methylphenol	3301.000	660	5000	0	66.0	42	120				
4-Chloroaniline	2096.000	660	5000	0	41.9	34	120				
4-Chlorophenyl-phenylether	3312.500	330	5000	0	66.2	40	120				
4-Methylphenol	2864.000	330	5000	0	57.3	37	120				
4-Nitroaniline	2983.000	1600	5000	0	59.7	41	120				
4-Nitrophenol	3109.500	1600	5000	0	62.2	32	120				
Acenaphthene	3402.000	330	5000	0	68.0	44	120				
Acenaphthylene	3371.500	330	5000	0	67.4	44	120				
Anthracene	2833.500	330	5000	0	56.7	47	120				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOIL\_M**

Sample ID: <b>LCS-71522</b>	SampType: <b>LCS</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130199</b>
Client ID: <b>LCSS</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214622</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	3779.500	330	5000	0	75.6	50	120				
Benzo(a)pyrene	3539.500	200	5000	0	70.8	45	120				
Benzo(b)fluoranthene	4471.500	330	5000	0	89.4	44	124				
Benzo(g,h,i)perylene	3167.500	330	5000	0	63.4	41	131				
Benzo(k)fluoranthene	4056.500	330	5000	0	81.1	46	124				
Benzoic acid	2742.500	1600	5000	0	54.8	17	120				
Benzyl alcohol	2745.500	660	5000	0	54.9	27	120				
Bis(2-chloroethoxy)methane	3587.000	330	5000	0	71.7	37	120				
Bis(2-chloroethyl)ether	3546.000	330	5000	0	70.9	26	120				
Bis(2-chloroisopropyl)ether	2831.000	330	5000	0	56.6	20	120				
Bis(2-ethylhexyl)phthalate	3754.500	330	5000	0	75.1	52	131				
Butylbenzylphthalate	3636.500	330	5000	0	72.7	49	129				
Chrysene	3685.000	330	5000	0	73.7	32	130				
Di-n-butylphthalate	3897.500	330	5000	0	78.0	50	125				
Di-n-octylphthalate	4132.000	330	5000	0	82.6	45	137				
Dibenz(a,h)anthracene	3131.500	200	5000	0	62.6	32	130				
Dibenzofuran	2862.000	330	5000	0	57.2	34	120				
Diethylphthalate	3379.500	330	5000	0	67.6	46	120				
Dimethylphthalate	3648.500	330	5000	0	73.0	50	121				
Fluoranthene	3723.500	330	5000	0	74.5	45	120				
Fluorene	3494.000	330	5000	0	69.9	43	120				
Hexachlorobenzene	3741.500	330	5000	0	74.8	35	120				
Hexachlorocyclopentadiene	2560.000	660	5000	0	51.2	21	120				
Hexachloroethane	3053.500	330	5000	0	61.1	23	120				
Indeno(1,2,3-cd)pyrene	3186.000	330	5000	0	63.7	43	123				
Isophorone	4340.500	330	5000	0	86.8	40	120				
N-Nitrosodi-n-propylamine	3234.500	330	5000	0	64.7	37	120				
N-Nitrosodiphenylamine	3731.000	330	5000	0	74.6	46	120				
Naphthalene	3310.000	330	5000	0	66.2	35	120				
Nitrobenzene	3162.000	330	5000	0	63.2	28	120				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8270SOIL\_M**

Sample ID: <b>LCS-71522</b>	SampType: <b>LCS</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130199</b>
Client ID: <b>LCSS</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C</b>	<b>EPA 3546</b>	Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214622</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	3098.500	1600	5000	0	62.0	34	120				
Phenanthrene	3586.000	330	5000	0	71.7	48	120				
Phenol	3435.000	330	5000	0	68.7	31	120				
Pyrene	3713.000	330	5000	0	74.3	44	120				
Pyridine	2413.000	1600	5000	0	48.3	17	120				
Surr: 1,2-Dichlorobenzene-d4	3310.500		5000		66.2	25	120				
Surr: 2,4,6-Tribromophenol	3299.500		5000		66.0	22	120				
Surr: 2-Chlorophenol-d4	3498.500		5000		70.0	27	120				
Surr: 2-Fluorobiphenyl	3529.500		5000		70.6	30	120				
Surr: 2-Fluorophenol	3584.000		5000		71.7	26	120				
Surr: 4-Terphenyl-d14	3605.000		5000		72.1	24	122				
Surr: Nitrobenzene-d5	3376.500		5000		67.5	25	120				
Surr: Phenol-d5	3453.000		5000		69.1	21	120				

Sample ID: <b>MB-71522</b>	SampType: <b>MBLK</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130199</b>
Client ID: <b>PBS</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C</b>	<b>EPA 3546</b>	Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214623</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	330									
1,2-Dichlorobenzene	ND	330									
1,3-Dichlorobenzene	ND	330									
1,4-Dichlorobenzene	ND	330									
2,4,5-Trichlorophenol	ND	330									
2,4,6-Trichlorophenol	ND	330									
2,4-Dichlorophenol	ND	1600									
2,4-Dimethylphenol	ND	330									
2,4-Dinitrophenol	ND	1600									
2,4-Dinitrotoluene	ND	330									
2,6-Dinitrotoluene	ND	330									
2-Chloronaphthalene	ND	330									

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference



CALIFORNIA | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NVO0922  
 ORELAP/NELAP Cert 4046

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8270SOIL\_M**

Sample ID: <b>MB-71522</b>	SampType: <b>MBLK</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130199</b>
Client ID: <b>PBS</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214623</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorophenol	ND	330									
2-Methylnaphthalene	ND	330									
2-Methylphenol	ND	330									
2-Nitroaniline	ND	1600									
2-Nitrophenol	ND	330									
3,3'-Dichlorobenzidine	ND	660									
3-Nitroaniline	ND	1600									
4,6-Dinitro-2-methylphenol	ND	1600									
4-Bromophenyl-phenylether	ND	330									
4-Chloro-3-methylphenol	ND	660									
4-Chloroaniline	ND	660									
4-Chlorophenyl-phenylether	ND	330									
4-Methylphenol	ND	330									
4-Nitroaniline	ND	1600									
4-Nitrophenol	ND	1600									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo(a)anthracene	ND	330									
Benzo(a)pyrene	ND	200									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Benzoic acid	ND	1600									
Benzyl alcohol	ND	660									
Bis(2-chloroethoxy)methane	ND	330									
Bis(2-chloroethyl)ether	ND	330									
Bis(2-chloroisopropyl)ether	ND	330									
Bis(2-ethylhexyl)phthalate	ND	330									
Butylbenzylphthalate	ND	330									

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOIL\_M**

Sample ID: <b>MB-71522</b>	SampType: <b>MBLK</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130199</b>
Client ID: <b>PBS</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214623</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	ND	330									
Di-n-butylphthalate	ND	330									
Di-n-octylphthalate	ND	330									
Dibenz(a,h)anthracene	ND	200									
Dibenzofuran	ND	330									
Diethylphthalate	ND	330									
Dimethylphthalate	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Hexachlorobenzene	ND	330									
Hexachlorocyclopentadiene	ND	660									
Hexachloroethane	ND	330									
Indeno(1,2,3-cd)pyrene	ND	330									
Isophorone	ND	330									
N-Nitrosodi-n-propylamine	ND	330									
N-Nitrosodiphenylamine	ND	330									
Naphthalene	ND	330									
Nitrobenzene	ND	330									
Pentachlorophenol	ND	1600									
Phenanthrene	ND	330									
Phenol	ND	330									
Pyrene	ND	330									
Pyridine	ND	1600									
Surr: 1,2-Dichlorobenzene-d4	3033.500		5000		60.7	25	120				
Surr: 2,4,6-Tribromophenol	2398.500		5000		48.0	22	120				
Surr: 2-Chlorophenol-d4	2986.500		5000		59.7	27	120				
Surr: 2-Fluorobiphenyl	3012.500		5000		60.2	30	120				
Surr: 2-Fluorophenol	3189.000		5000		63.8	26	120				
Surr: 4-Terphenyl-d14	3063.000		5000		61.3	24	122				
Surr: Nitrobenzene-d5	2989.500		5000		59.8	25	120				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOIL\_M**

Sample ID: <b>MB-71522</b>	SampType: <b>MBLK</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130199</b>						
Client ID: <b>PBS</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214623</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Phenol-d5	2868.500		5000		57.4	21	120				

Sample ID: <b>N033048-001A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130199</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214625</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2403.395	330	4993	0	48.1	26	120				
1,2-Dichlorobenzene	2350.474	330	4993	0	47.1	22	120				
1,3-Dichlorobenzene	2316.525	330	4993	0	46.4	22	120				
1,4-Dichlorobenzene	2375.437	330	4993	0	47.6	24	120				
2,4,5-Trichlorophenol	2096.355	330	4993	0	42.0	42	120				S
2,4,6-Trichlorophenol	2788.817	330	4993	0	55.9	42	120				
2,4-Dichlorophenol	2693.959	1600	4993	0	54.0	39	120				
2,4-Dimethylphenol	2829.755	330	4993	0	56.7	36	120				
2,4-Dinitrophenol	2064.903	1600	4993	0	41.4	17	120				
2,4-Dinitrotoluene	2314.029	330	4993	0	46.4	35	120				
2,6-Dinitrotoluene	2551.173	330	4993	0	51.1	34	120				
2-Chloronaphthalene	2355.467	330	4993	0	47.2	31	120				
2-Chlorophenol	2768.847	330	4993	0	55.5	35	120				
2-Methylnaphthalene	1994.508	330	4993	0	40.0	28	120				
2-Methylphenol	2441.338	330	4993	0	48.9	34	120				
2-Nitroaniline	1863.704	1600	4993	0	37.3	45	125				S
2-Nitrophenol	2885.671	330	4993	0	57.8	35	120				
3,3'-Dichlorobenzidine	2905.142	660	4993	0	58.2	29	121				
3-Nitroaniline	2068.897	1600	4993	0	41.4	47	120				S
4,6-Dinitro-2-methylphenol	2080.379	1600	4993	0	41.7	39	120				
4-Bromophenyl-phenylether	2682.976	330	4993	0	53.7	42	120				
4-Chloro-3-methylphenol	2463.305	660	4993	0	49.3	42	120				
4-Chloroaniline	1505.741	660	4993	0	30.2	34	120				S
4-Chlorophenyl-phenylether	2381.428	330	4993	0	47.7	40	120				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |



**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOIL\_M**

Sample ID: <b>N033048-001A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130199</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214625</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methylphenol	2226.161	330	4993	0	44.6	37	120				
4-Nitroaniline	ND	1600	4993	0	0	41	120				S
4-Nitrophenol	2178.732	1600	4993	0	43.6	32	120				
Acenaphthene	2467.299	330	4993	0	49.4	44	120				
Acenaphthylene	2430.354	330	4993	0	48.7	44	120				
Anthracene	2021.468	330	4993	0	40.5	47	120				S
Benzo(a)anthracene	2636.545	330	4993	0	52.8	50	120				
Benzo(a)pyrene	2547.678	200	4993	0	51.0	45	120				
Benzo(b)fluoranthene	3053.919	330	4993	0	61.2	44	124				
Benzo(g,h,i)perylene	2112.831	330	4993	0	42.3	41	131				
Benzo(k)fluoranthene	3017.973	330	4993	0	60.4	46	124				
Benzoic acid	2355.966	1600	4993	0	47.2	17	120				
Benzyl alcohol	2095.856	660	4993	0	42.0	27	120				
Bis(2-chloroethoxy)methane	2649.526	330	4993	0	53.1	37	120				
Bis(2-chloroethyl)ether	2469.296	330	4993	0	49.5	26	120				
Bis(2-chloroisopropyl)ether	2121.318	330	4993	0	42.5	20	120				
Bis(2-ethylhexyl)phthalate	2725.911	330	4993	0	54.6	52	131				
Butylbenzylphthalate	2628.058	330	4993	0	52.6	49	129				
Chrysene	2684.973	330	4993	0	53.8	32	130				
Di-n-butylphthalate	2736.895	330	4993	0	54.8	50	125				
Di-n-octylphthalate	2779.331	330	4993	0	55.7	45	137				
Dibenz(a,h)anthracene	2112.831	200	4993	0	42.3	32	130				
Dibenzofuran	2068.397	330	4993	0	41.4	34	120				
Diethylphthalate	2412.381	330	4993	0	48.3	46	120				
Dimethylphthalate	2671.992	330	4993	0	53.5	50	121				
Fluoranthene	2395.407	330	4993	0	48.0	45	120				
Fluorene	2456.316	330	4993	0	49.2	43	120				
Hexachlorobenzene	2712.931	330	4993	0	54.3	35	120				
Hexachlorocyclopentadiene	1928.108	660	4993	0	38.6	21	120				
Hexachloroethane	2249.126	330	4993	0	45.0	23	120				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOIL\_M**

Sample ID: <b>N033048-001A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130199</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214625</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	2144.284	330	4993	0	43.0	43	123				S
Isophorone	3155.267	330	4993	0	63.2	40	120				
N-Nitrosodi-n-propylamine	2459.810	330	4993	0	49.3	37	120				
N-Nitrosodiphenylamine	2777.334	330	4993	0	55.6	46	120				
Naphthalene	2418.372	330	4993	0	48.4	35	120				
Nitrobenzene	2280.579	330	4993	0	45.7	28	120				
Pentachlorophenol	2456.316	1600	4993	0	49.2	34	120				
Phenanthrene	2569.646	330	4993	0	51.5	48	120				
Phenol	2664.503	330	4993	0	53.4	31	120				
Pyrene	2353.969	330	4993	0	47.2	44	120				
Pyridine	1902.646	1600	4993	0	38.1	17	120				
Surr: 1,2-Dichlorobenzene-d4	2400.399		4993		48.1	25	120				
Surr: 2,4,6-Tribromophenol	2206.191		4993		44.2	22	120				
Surr: 2-Chlorophenol-d4	2498.253		4993		50.0	27	120				
Surr: 2-Fluorobiphenyl	2483.275		4993		49.7	30	120				
Surr: 2-Fluorophenol	2616.575		4993		52.4	26	120				
Surr: 4-Terphenyl-d14	2569.646		4993		51.5	24	122				
Surr: Nitrobenzene-d5	2360.959		4993		47.3	25	120				
Surr: Phenol-d5	2484.274		4993		49.8	21	120				

Sample ID: <b>N033048-001A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/28/2018</b>	RunNo: <b>130199</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214626</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3153.000	330	5000	0	63.1	26	120	2403	27.0	20	R
1,2-Dichlorobenzene	2940.500	330	5000	0	58.8	22	120	2350	22.3	20	R
1,3-Dichlorobenzene	2935.500	330	5000	0	58.7	22	120	2317	23.6	20	R
1,4-Dichlorobenzene	3051.500	330	5000	0	61.0	24	120	2375	24.9	20	R
2,4,5-Trichlorophenol	2871.000	330	5000	0	57.4	42	120	2096	31.2	20	R
2,4,6-Trichlorophenol	3727.500	330	5000	0	74.6	42	120	2789	28.8	20	R

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOIL\_M**

Sample ID: <b>N033048-001A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/28/2018</b>	RunNo: <b>130199</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214626</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	3609.000	1600	5000	0	72.2	39	120	2694	29.0	20	R
2,4-Dimethylphenol	3769.500	330	5000	0	75.4	36	120	2830	28.5	20	R
2,4-Dinitrophenol	2364.000	1600	5000	0	47.3	17	120	2065	13.5	20	
2,4-Dinitrotoluene	3089.000	330	5000	0	61.8	35	120	2314	28.7	20	R
2,6-Dinitrotoluene	3510.000	330	5000	0	70.2	34	120	2551	31.6	20	R
2-Chloronaphthalene	3162.500	330	5000	0	63.3	31	120	2355	29.3	20	R
2-Chlorophenol	3550.000	330	5000	0	71.0	35	120	2769	24.7	20	R
2-Methylnaphthalene	2649.000	330	5000	0	53.0	28	120	1995	28.2	20	R
2-Methylphenol	3126.000	330	5000	0	62.5	34	120	2441	24.6	20	R
2-Nitroaniline	2659.000	1600	5000	0	53.2	45	125	1864	35.2	20	R
2-Nitrophenol	3870.500	330	5000	0	77.4	35	120	2886	29.2	20	R
3,3'-Dichlorobenzidine	3874.500	660	5000	0	77.5	29	121	2905	28.6	20	R
3-Nitroaniline	2913.500	1600	5000	0	58.3	47	120	2069	33.9	20	R
4,6-Dinitro-2-methylphenol	2825.000	1600	5000	0	56.5	39	120	2080	30.4	20	R
4-Bromophenyl-phenylether	3697.500	330	5000	0	74.0	42	120	2683	31.8	20	R
4-Chloro-3-methylphenol	3348.500	660	5000	0	67.0	42	120	2463	30.5	20	R
4-Chloroaniline	2152.000	660	5000	0	43.0	34	120	1506	35.3	20	R
4-Chlorophenyl-phenylether	3275.000	330	5000	0	65.5	40	120	2381	31.6	20	R
4-Methylphenol	2857.000	330	5000	0	57.1	37	120	2226	24.8	20	R
4-Nitroaniline	2665.000	1600	5000	0	53.3	41	120	0	200	20	R
4-Nitrophenol	2831.000	1600	5000	0	56.6	32	120	2179	26.0	20	R
Acenaphthene	3333.000	330	5000	0	66.7	44	120	2467	29.9	20	R
Acenaphthylene	3305.000	330	5000	0	66.1	44	120	2430	30.5	20	R
Anthracene	2757.000	330	5000	0	55.1	47	120	2021	30.8	20	R
Benzo(a)anthracene	3528.000	330	5000	0	70.6	50	120	2637	28.9	20	R
Benzo(a)pyrene	2948.000	200	5000	0	59.0	45	120	2548	14.6	20	
Benzo(b)fluoranthene	3583.000	330	5000	0	71.7	44	124	3054	15.9	20	
Benzo(g,h,i)perylene	2476.500	330	5000	0	49.5	41	131	2113	15.8	20	
Benzo(k)fluoranthene	3474.000	330	5000	0	69.5	46	124	3018	14.0	20	
Benzoic acid	2584.500	1600	5000	0	51.7	17	120	2356	9.25	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8270SOIL\_M**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzyl alcohol	2645.500	660	5000	0	52.9	27	120	2096	23.2	20	R
Bis(2-chloroethoxy)methane	3566.500	330	5000	0	71.3	37	120	2650	29.5	20	R
Bis(2-chloroethyl)ether	3421.500	330	5000	0	68.4	26	120	2469	32.3	20	R
Bis(2-chloroisopropyl)ether	2717.500	330	5000	0	54.4	20	120	2121	24.6	20	R
Bis(2-ethylhexyl)phthalate	3588.500	330	5000	0	71.8	52	131	2726	27.3	20	R
Butylbenzylphthalate	3484.000	330	5000	0	69.7	49	129	2628	28.0	20	R
Chrysene	3559.500	330	5000	0	71.2	32	130	2685	28.0	20	R
Di-n-butylphthalate	3775.000	330	5000	0	75.5	50	125	2737	31.9	20	R
Di-n-octylphthalate	3266.500	330	5000	0	65.3	45	137	2779	16.1	20	
Dibenz(a,h)anthracene	2466.000	200	5000	0	49.3	32	130	2113	15.4	20	
Dibenzofuran	2806.500	330	5000	0	56.1	34	120	2068	30.3	20	R
Diethylphthalate	3309.000	330	5000	0	66.2	46	120	2412	31.3	20	R
Dimethylphthalate	3635.000	330	5000	0	72.7	50	121	2672	30.5	20	R
Fluoranthene	3367.000	330	5000	0	67.3	45	120	2395	33.7	20	R
Fluorene	3350.000	330	5000	0	67.0	43	120	2456	30.8	20	R
Hexachlorobenzene	3598.000	330	5000	0	72.0	35	120	2713	28.0	20	R
Hexachlorocyclopentadiene	2505.000	660	5000	0	50.1	21	120	1928	26.0	20	R
Hexachloroethane	2909.500	330	5000	0	58.2	23	120	2249	25.6	20	R
Indeno(1,2,3-cd)pyrene	2512.500	330	5000	0	50.3	43	123	2144	15.8	20	
Isophorone	4177.000	330	5000	0	83.5	40	120	3155	27.9	20	R
N-Nitrosodi-n-propylamine	3107.000	330	5000	0	62.1	37	120	2460	23.3	20	R
N-Nitrosodiphenylamine	3762.000	330	5000	0	75.2	46	120	2777	30.1	20	R
Naphthalene	3230.000	330	5000	0	64.6	35	120	2418	28.7	20	R
Nitrobenzene	3041.500	330	5000	0	60.8	28	120	2281	28.6	20	R
Pentachlorophenol	3100.000	1600	5000	0	62.0	34	120	2456	23.2	20	R
Phenanthrene	3462.500	330	5000	0	69.3	48	120	2570	29.6	20	R
Phenol	3402.000	330	5000	0	68.0	31	120	2665	24.3	20	R
Pyrene	3361.000	330	5000	0	67.2	44	120	2354	35.2	20	R
Pyridine	2464.000	1600	5000	0	49.3	17	120	1903	25.7	20	R
Surr: 1,2-Dichlorobenzene-d4	3043.000		5000		60.9	25	120		0		

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8270SOIL\_M**

Sample ID: <b>N033048-001A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8270SOIL_M</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/28/2018</b>	RunNo: <b>130199</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71522</b>	TestNo: <b>EPA 8270C EPA 3546</b>		Analysis Date: <b>11/28/2018</b>	SeqNo: <b>3214626</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	3020.500		5000		60.4	22	120		0		
Surr: 2-Chlorophenol-d4	3187.500		5000		63.8	27	120		0		
Surr: 2-Fluorobiphenyl	3373.500		5000		67.5	30	120		0		
Surr: 2-Fluorophenol	3303.000		5000		66.1	26	120		0		
Surr: 4-Terphenyl-d14	3306.000		5000		66.1	24	122		0		
Surr: Nitrobenzene-d5	3135.500		5000		62.7	25	120		0		
Surr: Phenol-d5	3173.500		5000		63.5	21	120		0		

**Qualifiers:**

- |    |   |   |                                      |   |  |
|----|---|---|--------------------------------------|---|--|
| B  | Analyte detected in the associated Method Blank | E | Value above quantitation range       | H | Holding times for preparation or analysis exceeded           |
| ND | Not Detected at the Reporting Limit             | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8270SOILSIM\_M**

Sample ID: <b>LCS-71523</b>	SampType: <b>LCS</b>	TestCode: <b>8270SOILSIM</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130169</b>
Client ID: <b>LCSS</b>	Batch ID: <b>71523</b>	TestNo: <b>EPA 8270CSI EPA 3546</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3212962</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	37.000	5.0	50.00	0	74.0	27	102				
2-Methylnaphthalene	29.500	5.0	50.00	0	59.0	34	105				
Acenaphthene	38.500	5.0	50.00	0	77.0	33	105				
Acenaphthylene	38.500	5.0	50.00	0	77.0	30	113				
Anthracene	38.000	5.0	50.00	0	76.0	35	106				
Benzo(a)anthracene	41.000	5.0	50.00	0	82.0	46	123				
Benzo(a)pyrene	34.500	5.0	50.00	0	69.0	45	112				
Benzo(b)fluoranthene	35.500	5.0	50.00	0	71.0	45	124				
Benzo(g,h,i)perylene	34.500	5.0	50.00	0	69.0	42	122				
Benzo(k)fluoranthene	38.500	5.0	50.00	0	77.0	42	128				
Chrysene	42.000	5.0	50.00	0	84.0	41	117				
Dibenz(a,h)anthracene	37.500	5.0	50.00	0	75.0	44	129				
Fluoranthene	41.000	5.0	50.00	0	82.0	41	120				
Fluorene	37.000	5.0	50.00	0	74.0	35	108				
Indeno(1,2,3-cd)pyrene	36.500	5.0	50.00	0	73.0	44	128				
Naphthalene	34.000	5.0	50.00	0	68.0	30	103				
Phenanthrene	40.000	5.0	50.00	0	80.0	36	109				
Pyrene	42.500	5.0	50.00	0	85.0	42	123				
Surr: 1,2-Dichlorobenzene-d4	35.000		50.00		70.0	26	102				
Surr: 2-Fluorobiphenyl	36.000		50.00		72.0	27	106				
Surr: 4-Terphenyl-d14	35.500		50.00		71.0	35	123				
Surr: Nitrobenzene-d5	33.500		50.00		67.0	30	104				

Sample ID: <b>MB-71523</b>	SampType: <b>MBLK</b>	TestCode: <b>8270SOILSIM</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130169</b>
Client ID: <b>PBS</b>	Batch ID: <b>71523</b>	TestNo: <b>EPA 8270CSI EPA 3546</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3213429</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	5.0									
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOILSIM\_M**

Sample ID: <b>MB-71523</b>	SampType: <b>MBLK</b>	TestCode: <b>8270SOILSIM</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130169</b>						
Client ID: <b>PBS</b>	Batch ID: <b>71523</b>	TestNo: <b>EPA 8270CSI EPA 3546</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3213429</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	35.500		50.00		71.0	26	102				
Surr: 2-Fluorobiphenyl	36.000		50.00		72.0	27	106				
Surr: 4-Terphenyl-d14	34.000		50.00		68.0	35	123				
Surr: Nitrobenzene-d5	33.500		50.00		67.0	30	104				

Sample ID: <b>N033048-007A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8270SOILSIM</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130169</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71523</b>	TestNo: <b>EPA 8270CSI EPA 3546</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3213434</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	121.379	5.0	199.8	0	60.8	27	102				
2-Methylnaphthalene	95.405	5.0	199.8	0	47.8	34	105				
Acenaphthene	123.876	5.0	199.8	0	62.0	33	105				
Acenaphthylene	120.879	5.0	199.8	0	60.5	30	113				
Anthracene	123.377	5.0	199.8	0	61.8	35	106				
Benzo(a)anthracene	128.372	5.0	199.8	0	64.2	46	123				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOILSIM\_M**

Sample ID: <b>N033048-007A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8270SOILSIM</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130169</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71523</b>	TestNo: <b>EPA 8270CSI EPA 3546</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3213434</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	109.890	5.0	199.8	0	55.0	45	112				
Benzo(b)fluoranthene	114.386	5.0	199.8	0	57.3	45	124				
Benzo(g,h,i)perylene	99.900	5.0	199.8	0	50.0	42	122				
Benzo(k)fluoranthene	112.887	5.0	199.8	0	56.5	42	128				
Chrysene	124.875	5.0	199.8	0	62.5	41	117				
Dibenz(a,h)anthracene	114.386	5.0	199.8	0	57.3	44	129				
Fluoranthene	124.875	5.0	199.8	0	62.5	41	120				
Fluorene	120.380	5.0	199.8	0	60.2	35	108				
Indeno(1,2,3-cd)pyrene	109.391	5.0	199.8	0	54.8	44	128				
Naphthalene	110.390	5.0	199.8	0	55.2	30	103				
Phenanthrene	124.875	5.0	199.8	0	62.5	36	109				
Pyrene	133.367	5.0	199.8	0	66.8	42	123				
Surr: 1,2-Dichlorobenzene-d4	29.970		49.95		60.0	26	102				
Surr: 2-Fluorobiphenyl	29.970		49.95		60.0	27	106				
Surr: 4-Terphenyl-d14	28.472		49.95		57.0	35	123				
Surr: Nitrobenzene-d5	27.473		49.95		55.0	30	104				

Sample ID: <b>N033048-007A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8270SOILSIM</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130169</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71523</b>	TestNo: <b>EPA 8270CSI EPA 3546</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3213435</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	124.124	5.0	200.2	0	62.0	27	102	121.4	2.24	20	
2-Methylnaphthalene	95.596	5.0	200.2	0	47.8	34	105	95.40	0.200	20	
Acenaphthene	124.625	5.0	200.2	0	62.3	33	105	123.9	0.602	20	
Acenaphthylene	123.123	5.0	200.2	0	61.5	30	113	120.9	1.84	20	
Anthracene	123.624	5.0	200.2	0	61.8	35	106	123.4	0.200	20	
Benzo(a)anthracene	127.127	5.0	200.2	0	63.5	46	123	128.4	0.974	20	
Benzo(a)pyrene	109.610	5.0	200.2	0	54.8	45	112	109.9	0.256	20	
Benzo(b)fluoranthene	109.610	5.0	200.2	0	54.8	45	124	114.4	4.26	20	
Benzo(g,h,i)perylene	98.599	5.0	200.2	0	49.3	42	122	99.90	1.31	20	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |



**CLIENT:** AEI Consultants  
**Work Order:** N033048  
**Project:** PhII, 392121

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOILSIM\_M**

Sample ID: <b>N033048-007A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8270SOILSIM</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/27/2018</b>	RunNo: <b>130169</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71523</b>	TestNo: <b>EPA 8270CSI EPA 3546</b>		Analysis Date: <b>11/27/2018</b>	SeqNo: <b>3213435</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	119.119	5.0	200.2	0	59.5	42	128	112.9	5.37	20	
Chrysene	123.624	5.0	200.2	0	61.8	41	117	124.9	1.01	20	
Dibenz(a,h)anthracene	112.613	5.0	200.2	0	56.3	44	129	114.4	1.56	20	
Fluoranthene	123.624	5.0	200.2	0	61.8	41	120	124.9	1.01	20	
Fluorene	121.121	5.0	200.2	0	60.5	35	108	120.4	0.614	20	
Indeno(1,2,3-cd)pyrene	108.108	5.0	200.2	0	54.0	44	128	109.4	1.18	20	
Naphthalene	110.611	5.0	200.2	0	55.2	30	103	110.4	0.200	20	
Phenanthrene	124.625	5.0	200.2	0	62.3	36	109	124.9	0.201	20	
Pyrene	130.631	5.0	200.2	0	65.3	42	123	133.4	2.07	20	
Surr: 1,2-Dichlorobenzene-d4	30.531		50.05		61.0	26	102		0		
Surr: 2-Fluorobiphenyl	30.531		50.05		61.0	27	106		0		
Surr: 4-Terphenyl-d14	27.528		50.05		55.0	35	123		0		
Surr: Nitrobenzene-d5	28.028		50.05		56.0	30	104		0		

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Company Name/Address: **AEI**  
**on file**

Billing Information: **on file**

Analysis

8270 (Svcs + PAHs)  
CA-M-17 Metals

Chain of Custody Page 2 of 2

YOUR LAB OF CHOICE

12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859

Report to: **A. Lovitt / K. Voller**

Email To:

Project Description: **PHH**

City/State Collected:

Phone:  
Fax:

Client Project #  
**392121**

Lab Project #

Collected by (print): **A. Lovitt**

Site/Facility ID #

P.O. #

Collected by (signature):

**Rush? (Lab MUST Be Notified)**  
 \_\_\_ Same Day .....200%  
 \_\_\_ Next Day .....100%  
 \_\_\_ Two Day .....50%  
 \_\_\_ Three Day .....25%

Date Results Needed

Email? \_\_\_ No \_\_\_ Yes  
FAX? \_\_\_ No \_\_\_ Yes

Canister Pressure/Vacuum

L #

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Sample ID	Sample Description	Can #	Date	Time	Collector Initial	Final	Analysis		Hold #	Rem./Contaminant	Sample # (lab only)
B1-5.0	50.1	NA	11/19/18	0815	15leeve	NA	X	X			N033048-01
B2-5.0	[Large arrow pointing down]	[Large arrow pointing down]	[Large arrow pointing down]	0850	[Large arrow pointing down]	[Large arrow pointing down]			X		-02
B2-10.0				0900			X	X		-03	
B3-5.0				0925					X		-04
B3-10.0				0935			X	X		-05	
B4-5.0				0950					X		-06
B4-10.0				1000			X	X		-07	
B5-5.0				1030					X		-08
B5-10.0				1040			X	X		-09	
B6-5.0				1110					X		-10

Remarks:

Hold #

Condition: (lab use only)

COC Seal Intact: \_\_\_ Y \_\_\_ N \_\_\_ NA

pH Checked: NCF:

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date: 11/20/18  
Date: 11/20/18  
Date: 11/20/18

Time: 1715  
Time: 1737  
Time: 17:57

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Samples returned via:  UPS  FedEx  Courier  1083

Temperature: 2.4°C

Date: 11/21/18 Time: 0831

Company Name/Address:  
*AEI*  
*on file*

Billing Information:  
*on file*

Analysis

Chain of Custody Page 1 of 2



ESC  
 L.A.B S.C.I.E.N.C.E.S

YOUR LAB OF CHOICE

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



Report to:  
*K. Volmer / A. Leavitt*

Email To:

Project Description:  
*PH II*

City/State Collected:

Phone:  
 Fax:


Client Project #  
*392121*

Lab Project #

Collected by (print):  
*A. Leavitt*

Site/Facility ID #

P.O. #

Collected by (signature):  


Rush? (Lab MUST Be Notified)  
 Same Day .....200%  
 Next Day .....100%  
 Two Day .....50%  
 Three Day .....25%

Date Results Needed

Email?  No  Yes  
 FAX?  No  Yes

Canister Pressure/Vacuum

*8270 (Suds + PAHs)*  
*AM-17 Metals*  
*VOCs (B2608)*  
*PH - full range (E0150)*  
*HCIA*

L #

Table #

Acctnum:

Template

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Sample Description	Can #	Date	Time	Canister Initial	Final
B6-100	Soil	NA	11/19/18	1120	151000P	NT
B7-50	↓	↓	↓	1155	↓	↓
B7-100				1205		
B8-50				1240		
B8-100				1250		
B9-50				1310		
B9-100				1320		

Rem./Contaminant	Sample # (lab only)
N033048	-11
	-12
	-13
	-14
	-15
	-16
	-17

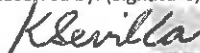
Remarks:

Hold #

Relinquished by: (Signature)  


Date:  
*11/20/18*

Time:  
*1715*

Received by: (Signature)  



Samples returned via:  UPS  *1003*  
 FedEx  Courier

Condition: (lab use only)

Relinquished by: (Signature)  


Date:  
*11/20/18*

Time:  
*1737*

Received by: (Signature)  


Temp: *12.4°C*  
 Bottles Received:

COC Seal Intact:  Y  N  NA

Relinquished by: (Signature)  


Date:  
*11/20/18*

Time:  
*17:57*

Received for lab by: (Signature)  


Date:  
*11/21/18* Time: *0031*

pH Checked: NCF:

# ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.


If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 11/20/2018 Workorder: N033048  
 Rep sample Temp (Deg C): 2.4 IR Gun ID: 1  
 Temp Blank:  Yes  No  
 Carrier name: Golden State Overnight  
 Last 4 digits of Tracking No.: 7083 Packing Material Used: Bubble Wrap  
 Cooling process:  Ice  Ice Pack  Dry Ice  Other  None

## Sample Receipt Checklist

- |   |   |                             |   |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| 2. Custody seals intact, signed, dated on shipping container/cooler?                    | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 5. Sampler's name present in COC?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 6. Chain of custody signed when relinquished and received?                              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 7. Chain of custody agrees with sample labels?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 8. Samples in proper container/bottle?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 9. Sample containers intact?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 10. Sufficient sample volume for indicated test?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 11. All samples received within holding time?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 12. Temperature of rep sample or Temp Blank within acceptable limit?                    | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/>                     |
| 13. Water - VOA vials have zero headspace?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 14. Water - pH acceptable upon receipt?<br>Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 15. Did the bottle labels indicate correct preservatives used?                          | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 16. Were there Non-Conformance issues at login?<br>Was Client notified?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
|   | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |

Comments:

For:  11/21/2018  
 Checklist Completed By: RM

Reviewed By:  11/28/18

# ASSET Laboratories

## WORK ORDER Summary

21-Nov-18

WorkOrder: N033048

Client ID: AEICO01

Project: PhII, 392121

QC Level: RTNE

Date Received: 11/20/2018

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N033048-001A	B-1-5.0	11/19/2018 8:15:00 AM	11/29/2018	Soil	EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-002A	B-2-5.0	11/19/2018 8:50:00 AM				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS	
N033048-003A	B-2-10.0	11/19/2018 9:00:00 AM	11/29/2018		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
11/29/2018	EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS				
N033048-004A	B-3-5.0	11/19/2018 9:25:00 AM				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS	
N033048-005A	B-3-10.0	11/19/2018 9:35:00 AM	11/29/2018		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS

# ASSET Laboratories

## WORK ORDER Summary

21-Nov-18

WorkOrder: N033048

Client ID: AEICO01

Project: PhII, 392121

QC Level: RTNE

Date Received: 11/20/2018

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N033048-005A	B-3-10.0	11/19/2018 9:35:00 AM	11/29/2018	Soil	EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-006A	B-4-5.0	11/19/2018 9:50:00 AM					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-007A	B-4-10.0	11/19/2018 10:00:00 AM	11/29/2018		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-008A	B-5-5.0	11/19/2018 10:30:00 AM					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-009A	B-5-10.0	11/19/2018 10:40:00 AM	11/29/2018		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS

# ASSET Laboratories

## WORK ORDER Summary

21-Nov-18

WorkOrder: N033048

Client ID: AEICO01

Project: PhII, 392121

QC Level: RTNE

Date Received: 11/20/2018

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N033048-009A	B-5-10.0	11/19/2018 10:40:00 AM	11/29/2018	Soil		MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-010A	B-6-5.0	11/19/2018 11:10:00 AM				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS	
N033048-011A	B-6-10.0	11/19/2018 11:20:00 AM	11/29/2018		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-012A	B-7-5.0	11/19/2018 11:55:00 AM				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS	
N033048-013A	B-7-10.00	11/19/2018 12:05:00 PM	11/29/2018		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS

# ASSET Laboratories

## WORK ORDER Summary

21-Nov-18

WorkOrder: N033048

Client ID: AEICO01

Project: PhII, 392121

QC Level: RTNE

Date Received: 11/20/2018

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N033048-013A	B-7-10.00	11/19/2018 12:05:00 PM	11/29/2018	Soil	EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-014A	B-8-5.0	11/19/2018 12:40:00 PM					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-015A	B-8-10.0	11/19/2018 12:50:00 PM	11/29/2018		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-016A	B-9-5.0	11/19/2018 1:10:00 PM					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-017A	B-9-10.0	11/19/2018 1:20:00 PM	11/29/2018		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS



# ASSET Laboratories

## WORK ORDER Summary

21-Nov-18

**WorkOrder:** N033048

**Client ID:** AEICO01

**Project:** PhII, 392121

**QC Level:** RTNE

**Date Received:** 11/20/2018

**Comments:**

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N033048-017A	B-9-10.0	11/19/2018 1:20:00 PM	11/29/2018	Soil	EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			11/29/2018		EPA 3550B	SHAKE-OUT METHOD: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N033048-018A	FOLDER	11/29/2018	11/29/2018	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB	
			11/29/2018	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB	

## AssetLabs Sample Control

---

**From:** Marianne Santos <marianne@assetlaboratories.com>  
**Sent:** Wednesday, November 21, 2018 9:35 AM  
**To:** 'AssetLabs Sample Control'; 'Yoandra Rodriguez'  
**Subject:** FW: N033048

Please see client response.

**Thanks,**

**Marianne Santos**

---

**From:** Andrew Leavitt [<mailto:aleavitt@aeiconsultants.com>]  
**Sent:** Wednesday, November 21, 2018 9:32 AM  
**To:** Marianne Santos; Kent Vollmer  
**Cc:** 'Molky Brar'  
**Subject:** RE: N033048

Standard (5-day)

Andrew Leavitt, P.G. #9270  
Senior Project Manager  
**AEI Consultants**  
2207 W. 190th Street  
Torrance, CA 90504

e. [aleavitt@aeiconsultants.com](mailto:aleavitt@aeiconsultants.com)  
p. 310.798.4255  
c. 401.829.6628  
f. 310.846.5594  
[www.aeiconsultants.com](http://www.aeiconsultants.com)

---

**From:** Marianne Santos <[marianne@assetlaboratories.com](mailto:marianne@assetlaboratories.com)>  
**Sent:** Wednesday, November 21, 2018 9:27 AM  
**To:** Andrew Leavitt <[aleavitt@aeiconsultants.com](mailto:aleavitt@aeiconsultants.com)>; Kent Vollmer <[kvollmer@aeiconsultants.com](mailto:kvollmer@aeiconsultants.com)>  
**Cc:** 'Molky Brar' <[molky@assetlaboratories.com](mailto:molky@assetlaboratories.com)>  
**Subject:** N033048

Hi Andrew and Kent,

Please kindly confirm TAT for the following WO attachment.

**Thanks,**

**Marianne Santos**



# ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436  
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691  
[www.assetlaboratories.com](http://www.assetlaboratories.com)

ASSET LABORATORIES - Serving Clients with Passion and Professionalism

This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.



Virus-free. [www.avast.com](http://www.avast.com)



a GLS company  
**GLS**

800-322-5555  
www.gso.com

**Ship From**

ASSET LABORATORIES  
MOLKY BRAR  
11110 ARTESIA BLVD. SUITE B  
CERRITOS, CA 90703

Tracking #: 542857083

**PDS**



**Ship To**

ASSET LABORATORIES  
MARLON CARTIN  
3151 W. POST RD.,  
LAS VEGAS, NV 89118

**LVS**  
**LAS VEGAS**

**A**

**COD:** \$0.00

**Weight:** 0 lb(s)

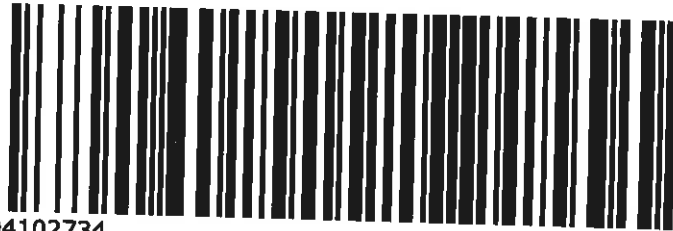
**Reference:**

**C89102A**

**Delivery Instructions:**

HOLD FOR PICK-UP

**Signature Type:** STANDARD



94102734

Print Date: 11/20/2018 6:44 PM

**LABEL INSTRUCTIONS:**

**Do not copy or reprint this label for additional shipments - each package must have a unique barcode.**

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

*IP #1 2-400*

**TERMS AND CONDITIONS:**

By giving us your shipment to deliver, you agree to all of the GSO service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gso.com.