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January 24, 2014

Ms. Karel Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Perjury Statement and Report Transmittal
1620-1640 Park Street (Parcel B)
Alameda, California 94501
AEI Project No. 298931
ACEH RO#0000008

Dear Ms. Detterman:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to call me or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,



John Buestad
President

JB/pm

Attachment: AEI Consultants, *Source Removal Excavation and Additional Sampling Activities Report*

cc: Mr. Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597



AEI Consultants

Environmental & Engineering Services

January 24, 2014

SOURCE REMOVAL EXCAVATION AND ADDITIONAL SAMPLING ACTIVITIES REPORT

Property Identification:

1630 Park Street – Parcel B
Alameda, California

AEI Project No. 298931
ACEH Fuel Leak Case No. RO0000008

Prepared for:

Foley Street Investments
Attn: Mr. John Buestad
2533 Clement Avenue
Alameda, CA 94501

Prepared by:

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TABLE OF CONTENTS

1.0 PROJECT OVERVIEW	1
1.1 Property Description	1
1.2 Planned Development Project	2
2.0 GEOLOGIC SETTING AND HYDROLOGY	2
3.0 SITE HISTORY	2
3.1 Prior Environmental Work.....	2
4.0 INTERIM REMEDIAL ACTIONS	5
4.1 Dual Phase Extraction System Operation	5
4.2 Focused Soil Excavations (October 2012)	5
5.0 SOURCE REMOVAL ACTIVITIES	6
5.1 Waste Profiling and Setup	6
5.2 Source Removal.....	7
5.3 Soil and Groundwater Disposal	9
5.4 Confirmation Sampling	10
6.0 ADDITIONAL SAMPLING	11
6.1 Permits and Clearances	11
6.2 Soil Vapor Sampling	12
6.3 Soil Vapor Results	12
6.4 Additional Soil Vapor Sampling Event	13
6.5 Groundwater Monitoring.....	14
6.6 Groundwater Monitoring and Sampling Results	14
7.0 SUMMARY AND RECOMMENDATIONS.....	15
8.0 REPORT LIMITATIONS	16

FIGURES

<i>FIGURE 1</i>	<i>SITE LOCATION MAP</i>
<i>FIGURE 2</i>	<i>EXTENDED SITE PLAN</i>
<i>FIGURE 3</i>	<i>SITE PLAN</i>
<i>FIGURE 4</i>	<i>EXCAVATION ANALYTICAL DATA</i>
<i>FIGURE 5</i>	<i>SOIL VAPOR ANALYTICAL DATA</i>
<i>FIGURE 6</i>	<i>GROUNDWATER ELEVATION MAP – OCTOBER 2013</i>
<i>FIGURE 7</i>	<i>SELECT GROUNDWATER ANALYTICAL DATA</i>

TABLES

<i>TABLE 1</i>	<i>WELL CONSTRUCTION DETAILS</i>
<i>TABLE 2</i>	<i>SOIL SAMPLE ANALYTICAL DATA – TPH AND MBTEX</i>
<i>TABLE 3</i>	<i>SOIL SAMPLE ANALYTICAL DATA – VOC'S</i>
<i>TABLE 4</i>	<i>SOIL SAMPLE ANALYTICAL DATA – FUEL OXYGENATES AND PCB'S</i>
<i>TABLE 5</i>	<i>SOIL SAMPLE ANALYTICAL DATA – METALS</i>
<i>TABLE 6</i>	<i>GRAB GROUNDWATER ANALYTICAL DATA – TPH AND MBTEX</i>
<i>TABLE 7</i>	<i>GRAB GROUNDWATER ANALYTICAL DATA – VOC'S, OXYGENATES AND LEAD</i>
<i>TABLE 8</i>	<i>GROUNDWATER ANALYTICAL DATA – TPH, MBTEX AND LEAD</i>
<i>TABLE 9</i>	<i>GROUNDWATER ANALYTICAL DATA – VOC'S</i>
<i>TABLE 10</i>	<i>SOIL VAPOR SAMPLE ANALYTICAL DATA</i>
<i>TABLE 11</i>	<i>GROUNDWATER ELEVATION DATA</i>

APPENDICES

<i>APPENDIX A</i>	<i>PERMITS</i>
<i>APPENDIX B</i>	<i>QUARRY DOCUMENTATION</i>
<i>APPENDIX C</i>	<i>COMPACTION TESTING</i>
<i>APPENDIX D</i>	<i>WASTE MANIFESTS</i>
<i>APPENDIX E</i>	<i>LABORATORY ANALYTICAL REPORTS</i>
<i>APPENDIX F</i>	<i>GROUNDWATER MONITORING FIELD FORMS</i>



January 24, 2014

Alameda County Environmental Health Department
Attn: Ms. Karel Detterman
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**Subject: Source Removal Excavation and
Additional Sampling Activities Report**
1630 Park Street – Parcel B
Alameda, California
AEI Project No. 298931
ACEH Fuel Leak Case No. RO0000008

Dear Ms. Detterman:

AEI Consultants (AEI) has prepared this *Source Removal Excavation and Additional Sampling Activities Report* on behalf of Foley Street Investments (FSI), developer of the subject site (See Figure 1 and Figure 2). This report describes source removal and subsequent sampling activities performed at the site from September 2013 through November 2013 to address site conditions identified as impeding case closure. These activities were performed under regulatory oversight by the Alameda County Environmental Health Department (ACEH), and the site has been assigned leaking underground storage tank (LUST) case number RO0000008. The completed source removal activities were initially outlined in AEI's *Interim Source Removal Workplan* dated September 4, 2013 with amendments presented in AEI's *Interim Source Removal Workplan Addendum* dated September 24, 2013 and approved by the ACEH via electronic mail on September 26, 2013. The proposed scope of work and subsequent additional sampling activities were discussed during several meetings with the ACEH between August 2013 and November 2013. These meetings were ultimately the catalyst for implementing these activities to address all data gaps and proceed with case closure for the site.

1.0 Project Overview

1.1 Property Description

The development site consisting of 1600 to 1630 Park Street is an irregularly shaped property totaling approximately 1.46 acres, of which the northern approximately 0.47 acres is the 1630 Park Street site, referred to as Parcel B. The development site is bound by Park Street to the northwest, 1650 Park Street to the northeast, Foley Street to the Southeast, and Tilden Way to the southwest in a mixed commercial and residential area of Alameda, California. Hereinafter, unless otherwise stated, the "site" will refer to Parcel B, the 1630 Park Street property.

The site is currently vacant but undergoing development for a commercial building and was formerly improved with a two-story showroom and office building totaling approximately 11,264 square feet and parking lot which was until approximately 2008 occupied by Good Chevrolet. Good Chevrolet also occupied the 1600 to 1618 property to the south (referred to as Parcel A and under separate case number RO0003112), which is currently undergoing redevelopment. Refer to Figure 2 for the property layout and major site features.

1.2 Planned Development Project

Foley Street Investments plans to construct an approximately 7,280 square foot slab-on-grade commercial building on the western side of the site along Park Street. The remainder of the development site will be improved with paved at-grade parking areas and landscaping.

2.0 Geologic Setting and Hydrology

The site is located on Alameda Island. The near surface sediments of the area are mapped as Holocene and Pleistocene Merritt Sands (Qms) deposits (Helley, et al). Depth to bedrock is estimated at 300 to 800 feet below land surface (Norfleet Consultants, 1998). According to information obtained from the U.S Geological Survey (USGS), the site is located at between 20 and 25 feet above mean sea level (amsl) with the local topography sloping gently to the northeast. The nearest surface water body is the tidal canal located approximately 1,500 to 2,000 feet to the northeast.

During the drilling conducted by AEI in July 2011, groundwater was first observed in the temporary direct push borings at depths of approximately 9 to 11 feet bgs and stabilized at between approximately 7.5 to 8.5 feet bgs. The depth to water in the groundwater monitoring wells has generally ranged from approximately 6.5 to 10 feet bgs since the wells were installed. Based on the groundwater monitoring conducted at the site, groundwater flows fairly consistently in a northwesterly direction at an approximate hydraulic gradient of 1×10^{-2} to 2×10^{-2} ft/ft and exists as an unconfined aquifer. Based on the logs of soil borings drilled at the site, sediments across the site are fairly consistent; consisting primarily of poorly graded fine to medium sand with varying clay and silt content to a depth of at least 25 feet bgs, the maximum depth explored. Logs of borings for remediation wells installed in November 2011 were consistent with these prior observations.

3.0 Site History

Based on historical research performed during a Phase I Environmental Site Assessment (ESA) conducted in June 2011, the recently demolished building at the site was constructed in the 1940s for use as an auto garage and showroom. Good Chevrolet occupied the site from the early 1960s through 2008.

3.1 Prior Environmental Work

According to records on file with the ACEH, one 300-gallon waste-oil underground storage tank (UST) and one 500-gallon gasoline UST were removed from adjacent to the northern side of the building in 1986 at which time a release of petroleum hydrocarbons, primarily gasoline, was discovered. Due to the discovery of a release, a case was opened with the ACEH. Following is a

summary of investigation activities that followed.

- In 1987, Groundwater Technology Inc. installed three groundwater monitoring wells (MW-1 to MW-3) and drilled two soil borings (SB-4 and SB-5) to investigate soil and groundwater conditions around the former UST hold.
- In October 1993, Geoplexus collected and analyzed soil and groundwater samples from seven soil borings (EB1 to SB7) drilled around the UST hold along with up-gradient and down-gradient of the release. It should be noted that documents indicate that two other borings (HP-1 and HP-2) were drilled up-gradient of the release area in April 1993, however details are not available. Geoplexus installed monitoring wells MW-4 and MW-5 in April 1994 in Park Street to investigate the down-gradient extent of the hydrocarbon plume.
- In January 1997, Geoplexus drilled an additional eight soil borings (EB8 to EB12 and P1 to P3) onsite around and down-gradient of the former UST hold. Soil samples were analyzed from EB8 to EB12 and groundwater samples were analyzed for all eight borings.
- In November 1998, Geoplexus collected three soil gas samples from three borings (AGP-1 to AGP-3) in the release area and within the adjacent building. Geoplexus presented an argument for "low risk" closure; however, case closure was not granted.
- In April 2008, Blymyer Engineers collected soil and groundwater samples from 24 soil borings (GP1 to GP24) on and offsite to characterize the extent of soil and groundwater pollution. It should be noted that AEI was not able to locate a formal report of these activities, only tables of soil and groundwater data, boring logs, and figures have been located.
- Groundwater monitoring was conducted approximately quarterly from 1992 through 1995, then sporadically through 2003, and once in 2008. Groundwater monitoring was conducted on an approximately quarterly basis by AEI beginning from June 2011 to May 2013 and as-needed following May 2013 to assess the extent of groundwater impacts.

Based on the reports available to AEI, no remedial activities had been performed at the site since backfilling of the UST excavation until 2011.

Following the Phase I ESA and in preparation for development of the site and property to the south (1600 to 1618 Park Street), AEI was retained by Foley Street Investments to perform a Phase II subsurface investigation of the property, relating to potential environmental issues aside from the Good Chevrolet LUST case. A total of 19 soil borings (AEI-1 to AEI-19) were drilled for soil and groundwater sampling. Results of the investigation are summarized in the August 16, 2011 *Phase II Subsurface Investigation Report*, prepared by AEI. The only significant release identified during this investigation was in the area of several former (removed) underground hydraulic lifts in the northern section of the 1630 Park Street building, just south of and on the other side of the building wall from the UST release area (Figure 2). Significant concentrations of total petroleum hydrocarbons as gasoline (TPHg), as diesel (TPHd), and as motor oil (TPHmo) were detected in borings AEI-3, AEI-4, and AEI-6 to AEI-8. Based on the presence of benzene, toluene, ethyl-benzene, and xylenes (BTEX) and TPHg in several of the samples, it was apparent that the gasoline and possibly oil from the waste oil UST had migrated beneath the former Good Chevrolet building. Polychlorinated Biphenyls (PCBs) were not detected. A more detailed discussion of the release conditions was presented in the September 28, 2011 *ICAP*.

As outlined in the *ICAP* and subsequent *ICAP Addendum*, in November, 2011, AEI installed DPE-1 to DPE-3 and AS-1, and on December 6, 2011 three soil vapor probes (VP-1 to VP-3) were installed. The remediation wells and vapor probes were installed to as part of high vacuum dual phase extraction (HVDPE) pilot test and interim corrective action activities. On December 6, 2011, AEI developed the newly installed remediation wells and conducted a groundwater sampling event to determine baseline groundwater conditions prior to the HVDPE event.

On January 17, 2012, AEI advanced soil borings AEI-20 to AEI-28 to further delineate the extent of impacted soil and groundwater and to select additional extraction well locations. Based on the results of this investigation, the dissolved phase plume has been defined towards the south (AEI-24 to AEI-26). Monitoring results from well DPE-4 show significantly lower dissolved phase concentrations than borings AEI-21 and AEI-22 and, since the data from DPE-4 is now post-remediation, it is considered representative of dissolved phase conditions towards the southwest. This indicates that the dissolved phase plume is limited in extent to the west. This limitation on migration is also consistent with the GP-9 groundwater sample data from 2008.

Gasoline-impacted soil appears to have been centered on the former UST hold, extending laterally in each direction. To the east, south, and west, impacted soil extended approximately 20 to 40 feet from the former UST hold. To the northwest, impacted soil extended into and along Park Street up to 50 feet from the site and is reasonably defined by GP12. The vertical extent of impacted soil has been generally well defined by past investigations as the top of the impacted zone is at approximately 7 to 8 feet bgs and ends to between approximately 12 to 14 feet bgs. The impacted thickness of the approximately 4 to 8 feet corresponds to just above the water table (capillary fringe) to several feet below the average water table. At a distance from the release area, the thickness of impacted soil generally decreases to approximately 2 to 4 feet, as observed in recent pre-remediation borings AEI-22, AEI- 23, and AEI-28.

Beginning in February 2013, separate phase hydrocarbons (LNAPL) was observed in well DPE-5, located approximately 35 feet south of the former UST hold near a former hydraulic lift. Forensic analysis of the LNAPL showed it to be composed primarily of oil (presumably hydraulic or motor oil) mixed with degraded gasoline. The maximum thickness of the LNAPL was 0.17 feet, measured in May 2013. The most recent measurement found 0.09 feet of LNAPL on August 2, 2013.

Between April 16 and August 21, 2013, ten temporary soil vapor monitoring points (SV-3 to SV-12) were installed at the site to document subsurface vapor concentrations and evaluate the potential for vapor intrusion into the proposed building. Soil vapor analytical results showed concentrations of volatile organic compounds (VOC's) below the San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels (ESLs) at all but two locations. Vapor points SV-10 and SV-11, located near the former hydraulic lift and in the vicinity of the reported LNAPL, contained concentrations of VOCs that exceeded the ESLs including benzene at 7,500 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), ethyl-benzene at 5,700 $\mu\text{g}/\text{m}^3$ and tetrachloroethene (PCE) at 2,100 $\mu\text{g}/\text{m}^3$.

A historical summary of site conditions is included in Tables 1 through 11.

4.0 Interim Remedial Actions

4.1 Dual Phase Extraction System Operation

From December 5, 2011 to January 9, 2012, CalClean, Inc. (CalClean) of Tustin, California was retained by FSI to perform a HVDPE pilot test event with oversight of AEI. The work was performed as part of an interim corrective action and feasibility study which. Preliminary results of this work were submitted to the ACEH in the *Investigation and Remedial Action Workplan*, dated January 12, 2012.

In January, 2012, AEI installed seven additional DPE wells (DPE-4 to DPE-6 and DPE-8 to DPE-11). DPE-7 could not be completed due to a void in the subsurface discovered during well installation. The void was later confirmed not to be a utility or other structure and was filled with neat cement grout on March 9, 2012.

On January 23, 2012 AEI developed each of the newly installed DPE wells and on January 24, 2012 completed a groundwater monitoring event on wells MW-1 to MW-3, DPE-1 to DPE-4, DPE-6, and DPE-9. The sampling event was performed to assess groundwater conditions following the initial HVDPE event and prior to commencing a second HVDPE event. The second HVDPE event commenced operation on January 24, 2012, and was concluded on April 28, 2012.

During the operation of the HVDPE system (pilot test phase and operation periods combined) an estimated 18,134 pounds of hydrocarbons were removed from the subsurface by soil vapor extraction; equivalent to approximately 3,022 gallons of liquid hydrocarbons (using a density of 6 pounds per gallon). Further, an estimated 390,460 gallons of hydrocarbon impacted groundwater was removed from the subsurface at the site.

4.2 Focused Soil Excavations (October 2012)

In October, 2012, source removal and backfilling activities were conducted at three excavations at the site as requested and approved by ACEH. A total of 447.52 tons of hydrocarbon-impacted soil were removed from the three excavation areas. The results were presented in the December 7, 2012, *Interim Source Removal Report and Well Abandonment and Replacement Workplan Addendum*. Observations made during the excavations and confirmation soil samples collected from the excavation bottoms and sidewalls indicated the following:

Excavation of Former UST-hold

A total of one bottom and four sidewall samples were analyzed from this excavation. The bottom sample (EB1-15') was non-detect for all analytes. TPHg was present in all sidewall samples at concentrations below the Target Soil Concentration of 83 milligrams per kilogram (mg/kg) with one exception. Sample SW1-10' contained TPHg at 110 mg/kg. TPHmo was also detected in this sample at 15 mg/kg, well below the target soil concentration of 2,500 mg/kg. TPHmo was not detected in the remaining samples. Various BTEX compounds were detected in all sidewall samples. Benzene exceeded the target concentration in two samples reaching a maximum of 0.18 mg/kg in NW1-12'. Xylenes exceeded the target concentration in one sample: SW1-10' at 4.1 mg/kg.

Excavation of Former Hydraulic Lifts (eastern portion of the site)

A total of three bottom and nine sidewall samples were analyzed from this excavation. The bottom samples (EB2-11.5', CB2-11.5', and WB2-11.5') were non-detect for all analytes. TPHg was non-detect in all sidewall samples with one exception. Sample WW2-9.5' contained TPHg at 1,400 mg/kg. TPHmo was also detected in this sample at 3,400 mg/kg, above the target soil concentration of 2,500 mg/kg. TPHmo was detected in only one of the remaining samples: EW2-9.5' at a concentration of 23 mg/kg. BTEX compounds were non-detect in all sidewall samples with one exception. Sample WW2-9.5' contained ethylbenzene and xylenes at 42 and 180 mg/kg, respectively.

Excavation of Former Hydraulic Lift (near DPE-5)

A total of one bottom and four sidewall samples were analyzed from this excavation. The bottom sample (EB3-12.5') was non-detect for all analytes. Staining and elevated PID readings were observed in the final sidewalls of this excavation from approximately 7 to 11.5 feet bgs. TPHg was present in all sidewall samples at concentrations that exceed the target concentration. TPHg concentrations ranged from 2,000 to 7,600 mg/kg. TPHmo was also detected in all sidewall samples at concentrations that exceed the target concentration. TPHmo concentrations ranged from 3,500 to 14,000 mg/kg. BTEX compounds were detected in all sidewall samples at concentrations that exceed the target concentration. Benzene concentrations ranged from 20 to 54 mg/kg. Toluene ranged from 110 to 410 mg/kg. Ethylbenzene ranged from 33 to 150 mg/kg. Xylenes ranged from 100 to 680 mg/kg.

5.0 Source Removal Activities

The intent of the source removal was to excavate petroleum impacted soil which remained in place following the excavation of the former hydraulic lift near DPE-5 as described above. The soil within the vicinity of well DPE-5 was resulting in small amounts of LNAPL within DPE-5, the constituents (primarily benzene and ethylbenzene) of which were considered a potential source for vapor intrusion into the site building. Confirmation sampling also included analysis to confirm removal of a possible VOC source based on the low detections of PCE and trichloroethene (TCE) identified in several soil vapor samples.

AEI was contracted to profile the impacted soil for acceptance into a licensed waste facility, excavate, transport, and dispose of impacted soil, perform confirmation soil sampling, and backfill the excavation.

5.1 Waste Profiling and Setup

Prior to excavation and removal activities, AEI notified USA North to mark the site for any existing subsurface utilities. No utility conflicts were identified. Prior to the initiation of each day of work, AEI field staff reviewed the Site Health and Safety Plan and was briefed on the day's work and potential hazards.

On September 18, 2013, prior to excavation activities, two four-point composite soil samples were collected from the proposed excavation area soils for waste profiling purposes. The composite soil samples, A-3',6',9',12' and B-3',6',9',12', were collected from the depths of 3, 6,

9, and 12 feet bgs. Composite sample-B indicated elevated concentrations of TPHd, TPHmo, and VOCs of concern.

Prior to excavating, a well destruction permit was obtained from the Alameda County Public Works Agency (ACPWA) for the wells expected to be affected by the excavation, DPE-5, SV-10, and SV-11 (permit number W2013-0802). Well DPE-5 was subsequently destroyed by pressure grouting on September 18, 2013 and SV-10 and SV-11 were destroyed by physically removing the vapor probes under ACPWA guidance.

During the course of excavation activities, it was determined that well DPE-2 was going to be destroyed due to the expanding excavation limits, therefore a well permit from the ACPWA (permit number W2013-0847) to destroy DPE-2 was obtained. Per the approval of the ACPWA, well DPE-2 was destroyed by completely excavating the well out to the entire well depth. Well destruction permits are included in Appendix A.

On September 27, 2013, the waste profile was submitted to and accepted into Recology's Hay Road Class II waste facility located in Vacaville, California. On September 30, 2013, AEI mobilized heavy equipment onsite in preparation for excavation activities.

5.2 Source Removal

October 1, 2013

On October 1, 2013, AEI commenced excavation activities. The initial excavation, as proposed, measured approximately 20 by 40 feet to a depth of 12 feet below ground surface (bgs). Excavated soil was removed by use of an excavator, directly loaded onto trucks, and transported under non-hazardous waste manifests to Recology's Hay Road. Sixteen loads totaling 391.80 tons of soil were properly disposed of on October 1, 2013. To avoid accumulation of groundwater overnight, a depth of 8 feet bgs was achieved across the extent of the proposed excavation area on the first day. Blue/green stained soil and significant petroleum odors were observed at depths greater than 6 feet bgs continuing to the maximum depth excavated on the first day, 8 feet bgs.

Excavated soil was periodically tested by use of a Photoionization Detector (PID) to measure volatile gas levels. Grab samples collected from depths beyond 6 feet bgs exhibited volatile gas levels ranging from 15 parts per million (ppm) to 2,700 ppm. Air monitoring was conducted around the perimeter of the excavation and subject property with a PID to ensure a safe working environmental for all personnel onsite as well as for adjacent businesses and residences.

October 2, 2013

On October 2, 2013 AEI continued excavation activities to the target depth of approximately 12 feet bgs across the extent of the excavation. Excavated soil was directly loaded onto trucks and transported under non-hazardous waste manifest to the Hay Road Waste facility. A total of

twelve loads totaling 346.57 tons of impacted soil were removed and properly disposed of on October 2, 2013.

Groundwater was encountered at approximately 9 feet bgs and accumulated across the excavation area. To assist in the excavation efforts to a target depth of 12 feet bgs, Excel Environmental Inc. of Tracy, California, mobilized onsite and removed groundwater from the excavation.

During excavation activities, blue/green stained soil and petroleum odors continued to be observed to the target depth of approximately 11.5 to 12 feet bgs. At this depth there was an obvious transition from blue/green stained to natural brown soil and PID readings indicated a significant decrease in volatile gas concentrations.

Grab samples collected from excavated material were tested using a PID. These samples along with other field observations were used to determine the lateral and vertical extent of the contamination. Significantly stained soil which exhibited volatile gas concentrations above 2,500 ppm was located along the northern portion of the west wall of the excavation at depths ranging from 8 to 11 feet bgs. As a result, the excavation was expanded laterally in this area an additional 6 feet. At the 6 foot expansion mark, staining reduced significantly and PID readings indicated volatile gas concentrations less than 100 ppm.

The excavation was partially backfilled with ¾-inch virgin drain rock imported from Syar Industries Inc., of Vallejo, California (Appendix B) to bridge groundwater and ensure the stability of the excavation while awaiting confirmation soil sample results.

October 4, 2013

On October 4, 2013, AEI continued excavation activities. PID reading collected from grab samples from the northern portion of the east sidewall indicated volatile gas concentrations ranging from 1,700 ppm to 1,900 ppm. Furthermore, confirmation soil sample, NEWALL-10', collected on October 2, 2013 from the same area indicated a high concentration of benzene. Therefore, the excavation was expanded along a 20 foot section of the northeast wall by 3 feet. Excavated material was temporarily stockpiled adjacent to the excavation on and covered with visqueen and surrounded by straw waddles. Analytical data collected from sample NWALL-10' indicated elevated concentrations of TPH-g, TPH-d, and VOCs on the north sidewall at a depth 10 feet bgs. As a result the excavations north wall was expanded 2 feet laterally to the north where staining reduced significantly and PID readings indicated volatile gases <100 ppm .

October 7 and 8, 2013

On October 7 and 8, 2013, AEI continued backfilling activities. The excavation was initially backfilled with ¾-inch virgin drain rock up to 6 feet bgs. Filter fabric was laid across the extent of the excavation and the remaining portion was backfilled using ¾-inch virgin base rock imported from Syar Industries and compacted in one-foot lifts. Construction Materials Testing, Inc., (CMT) arrived onsite and performed the first of two sets of compaction tests at a depth of 3 feet bgs. All areas tested received higher than a 95% compaction level. The compaction test results are included in Appendix C.

Also on October 8, 2013, the stockpiled material created from the October 4, 2013 excavation activities was loaded onto trucks and transported under non-hazardous waste manifest. A total of five loads totaling 121.81 tons of impacted soil were removed on October 8, 2013.

October 10, 2013

On October 10, 2013, based on analytical data collected from confirmation sample NE WALL2 – 10' which contained elevated concentrations of benzene, TPH-g, TPH-d, and TPH-mo, AEI expanded a 15 foot portion of the excavation's northeast east sidewall by approximately 10 feet towards the northeast. This extension connected the current excavation to that of the excavation of the former UST-hold area which AEI had previously excavated in 2012. As a result of connecting the two excavations, no sidewall samples were collected from the east and west sidewalls of the extended portion. Excavated material was directly loaded onto trucks and transported under non-hazardous waste manifest to the Hay Road waste facility. A total of four loads totaling 86.59 tons were transported to and properly disposed of on October 10, 2013.

During excavation activities, stained soil and strong petroleum odors were observed at depths greater than 8 feet bgs. Groundwater was encountered at approximately 9 feet bgs. Excel Environmental Services, Inc. mobilized onsite and pumped 1,825 gallons of groundwater from the excavation. The extended portion of the excavation was partially backfilled with drain rock to bridge groundwater in the excavation. Final excavation extents are shown on Figure 3.

October 11, 2013

On October 11, 2013, AEI completed backfilling activities for the entire excavation area. CMT arrived onsite and performed a compaction test for the extended excavation area at 3 feet bgs and later completed the compaction tests for the entire excavation area at surface level. All areas tested received higher than a 95% compaction level.

5.3 Soil and Groundwater Disposal

During excavation activities a total of 37 loads totaling 946.77 tons of hydrocarbon and VOC impacted soil were removed from the excavation area. The soil was transported under non-hazardous waste manifest to Recology's Hay Road waste facility in Vacaville, California.

On October 2, and 10, 2013, Excel Environmental Services Inc. removed a combined 3,460 gallons of groundwater from the excavation. The groundwater was transported by Excel Environmental services under non-RCRA hazardous manifest to Riverbank Oil Transfer in Riverbank, California for disposal.

The waste manifests are located in Appendix D.

5.4 Confirmation Sampling

Confirmation soil samples were collected from the bottom and sidewalls of the excavation. As discussed in AEI's *Interim Source Removal Workplan Addendum*, confirmation soil samples were collected at a minimum of one sample for every 20 linear feet of the excavation for both sidewalls and excavation bottom samples. The samples were collected based on PID readings as well as visual observations and were biased towards the areas of greatest observed impacts. Confirmation samples were analyzed for TPH-Multi-Range by EPA Method SW8015 and VOCs by EPA Method SW8260B.

All confirmation soil samples were collected by driving an either 6-inch or 3-inch stainless steel tube into the soil to be sampled until no headspace remained. The tubes were removed from the soil, sealed with Teflon tape and plastic caps, entered into a chain of custody and immediately placed into a cooler. The samples were submitted for laboratory analysis at McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California (State Certification No.1644).

On October 2, 2013, eight sidewall and two bottom confirmation soil samples were collected from the excavation. Two samples, NWALL-6' and NWALL-10', were collected from north sidewall at a depths of 6 and 10 feet bgs. NWALL-10' was collected where a band of stained soil was observed and PID readings indicated volatile gas in excess of 1,000 ppm. One soil sample, SWALL-9', was collected from the mid-point of the south sidewall at a depth of 9 feet bgs where PID reading indicated volatile gases exceeding 1,300 ppm.

Two sidewall samples were collected from the east and west sidewalls of the excavation at depths of 10 feet bgs where the greatest level of impacted soil was observed. Sample, SWWALL-10', was collected from the southern portion of the west sidewall and indicated no impacts to the soil. Sample, WW-1-9', collected at 10 feet bgs along the northern portion of the west sidewall indicated significantly impacted soil. As a result of PID readings and field observations, the northern portion of the west sidewall was expanded 6 feet west to remove the remaining impacted soil in this area. Two samples, SE Corner-10' and NEWALL-10', were collected from the east sidewall's southern and northern portion respectively, where the greatest impacted soil was observed. Upon analysis, sample SE Corner-10', indicated only minimal impacts to the soil, while NEWALL-10', indicated significantly impacted soil. Both samples collected from the excavation bottom, SBOT-10' and NBOT-12.5', indicated no impacts to the soil.

On October 4, 2013, three sidewall confirmation soil samples, N Wall2-10', NE Wall2-6', and NE Wall2-10', were collected from the excavation. As a result analytical data indicating impacted soil in the area of sample, NWALL-10', the north wall of the excavation was expanded 2 feet to the north to remove remaining impacted soil. Confirmation sample, N Wall2-10', was collected from the mid-point of the expanded north wall of the excavation at a depth of 10 feet bgs, where the heaviest amount of stained soil had been observed. The sample N Wall2-10' indicated hydrocarbon impacted soil; however, concentrations were below those which may results in LNAPL and the excavation was not extended in this direction.

Confirmation soil sample, NEWALL-10', collected on October 2, 2013, indicated significantly impacted soil. As a result, a 20 foot section of the northern portion of the east sidewall was expanded east by 3 feet. Confirmation sample, NE Wall2-10', was collected from the northern section of the east sidewall at a depth of 10' feet bgs where the greatest amount of impacted soil was observed. Analytical data indicated significantly impacted soil collected from NE Wall2-10'. As a result, a 15 foot section of the northeast sidewall was expanded approximately 10 feet east where it connected to a previously excavated area, which effectively ensured the removal of all source material northeast of the excavation.

On October 10, 2013, seven confirmation soil samples were collected from northeastern extension of the excavation. Six samples, SWN-e-3', SWN-e-6', SWN-e-10', SWS-e-3', SWS-e-6', and SWS-e-10', were collected from the north and south sidewalls at depths of 3, 6, and 10 feet bgs. One sample, EBE-12', was collected from the center of the excavation extension's bottom at a depth of 12 feet bgs. Confirmation samples, SWN-e-10' and SWS-e-10', indicated elevated concentrations of hydrocarbons in the deeper (10') soil samples, no hydrocarbons or VOCs were present in the 3 foot bgs and 6 foot bgs samples. Furthermore, the bottom sample EBE-12' did not contain hydrocarbons or VOCs indicating that the vertical extent of the hydrocarbons had been removed.

Overall, the source removal excavation was successful at removing the bulk of the hydrocarbon impacted soil. Hydrocarbons were non-detect, or nearly so, towards the south, southwest, west. Towards the east, northeast, and north, low concentrations of TPH remain in the soil at approximately 10 feet bgs, but are not present in the 3 foot or 6 foot samples. Soil likely to result in LNAPL has been removed, and during the excavation activities, high concentrations of PCE and TCE were not observed.

Copies of the laboratory analytical reports are included in Appendix E. Select analytical results are included in Tables 2 and 3 and displayed on Figure 4.

6.0 Additional Sampling

Following excavation activities, meetings were held with the ACEH on October 18, 2013 and November 18, 2013 to discuss site conditions. During the October 18, 2013 meeting, it was agreed upon that another full round of groundwater monitoring and soil vapor monitoring would be performed to assess post-excavation findings. The soil vapor monitoring would also include three new vapor points (SV-13 to SV-15). The meeting on November 18, 2013 was to discuss the findings of the completed soil vapor and groundwater monitoring. During this meeting, ACEH requested additional soil vapor samples from SV-4 and SV-13. Details of the completed activities are provided below.

6.1 Permits and Clearances

As required, a subsurface drilling permit was obtained from the ACPWA, permit number W2013-0872, for the completion of SV-13 to SV-15 prior to drilling activities. A copy of the permit is included in Appendix A. An active Underground Service Alert (USA) ticket had already been obtained for the UST removal activities, therefore it was not necessary to notify USA again.

6.2 Soil Vapor Sampling

On October 24, 2013, AEI completed three soil vapor samples (SV-13 to SV-15) by installing temporary soil vapor monitoring points. To install the points, a borehole was first drilled to a depth of approximately 5 feet below the proposed building foundation, or 6 feet bgs. The probes were then constructed within the borehole using 0.25-inch diameter Teflon tubing connected to a micro-porous plastic tip. The probe tip was placed in the middle of an annular filter pack composed of #3 Monterey sand placed between 5 and 6 feet bgs. The probe was then sealed with a 1-foot layer of dry granular bentonite followed by hydrated granular bentonite to just below ground surface.

After waiting the recommended equilibration time [as defined by the Department of Toxic Substances Control (DTSC)], approximately 2 hours, soil vapor samples were collected from the soil vapor probes. Prior to collecting the samples, a shut-in test was performed by placing a vacuum on the sampling train above grade. The vacuum was observed for approximately 1 minute and verified to not change.

Sampling was conducted using the helium shroud method to quantify leaks that may occur during sampling. The shroud was placed over the borehole, sample tubing, sample manifold and the sample container and then flooded with helium to approximately 20% concentration (as measured using a direct-read helium detector). Once the helium concentration within the shroud had stabilized, soil vapor was purged from the tubing using a dedicated purge canister connected via an on-off valve. A total of three borehole and tubing purge volumes were removed from each of the newly installed borings and three tubing purge volumes were removed from each of the existing borings.

Following purging of the sampling lines, the purge valve was closed and the 1 liter Summa canister initial vacuum was recorded. The helium concentration within the shroud was recorded periodically during sampling. Vapor samples were collected through the regulator at approximately 150 mL/minute. After approximately five minutes (depending on the down-hole vacuum), or -5 in Hg vacuum in the canisters, each canister was closed and removed from the sampling line. The Summa canister sample was sealed with a gas tight cap, then appropriately labeled and entered onto a chain of custody manifest for delivery to the laboratory.

The samples were transferred under appropriate chain-of-custody documentation to McCampbell Analytical. The vapor samples were analyzed for TPHg and VOCs by EPA Method TO15 and for light gases carbon dioxide (CO₂) oxygen, and helium (leak check) using ASTM D 1946-90.

6.3 Soil Vapor Results

Soil vapor samples were collected on October 24, 2013 from SV-3, SV-4, SV-6 to SV-9, SV-12 to SV-15, with a duplicate sample from SV-13. The following information is a summary of the soil vapor sample analytical test results. This information has also been included in Table 10 with select data displayed on Figure 5. Complete results are included in the laboratory analytical report in Appendix E.

- TPHg was detected in three of the vapor samples, SV-6, SV-13, and SV-14, at a concentration of 880 $\mu\text{g}/\text{m}^3$, 9,300 $\mu\text{g}/\text{m}^3$, and 2,400 $\mu\text{g}/\text{m}^3$, respectively, each well below the ESL of 1,200,000 $\mu\text{g}/\text{m}^3$.
- PCE was detected in each of the vapor samples, with the exception of SV-7, at concentrations ranging from 5.2 $\mu\text{g}/\text{m}^3$ in SV-8 to 500 $\mu\text{g}/\text{m}^3$ in SV-4, each detection was below the ESL of 2,100 $\mu\text{g}/\text{m}^3$.
- TCE was detected in two of the vapor samples at a concentration of 29 $\mu\text{g}/\text{m}^3$ in SV-6 and 2.3 $\mu\text{g}/\text{m}^3$ in SV-13, well below the ESL of 3,000 $\mu\text{g}/\text{m}^3$.
- Low levels of other VOCs were also detected in the soil vapor samples; however, each detection was well below the respective ESL, if available. These low concentrations indicate that a significant potential for vapor intrusion is not present at the site.
- Oxygen was reported between 130,000 microliters per liter ($\mu\text{L}/\text{L}$), or 13%, and 170,000 $\mu\text{L}/\text{L}$, or 17%, in each of the samples. These concentrations, combined with the lack of TPH in the shallow soil samples, would indicate that a bioattenuation zone is present in the shallow subsurface within the vicinity of the sample locations.
- Carbon Dioxide was reported at concentrations ranging from 2,300 $\mu\text{L}/\text{L}$, to 29,000 $\mu\text{L}/\text{L}$, or 0.23% to 2.9% in the samples.
- The leak check compound (helium) was not detected in the samples above 0.12%, well below the acceptable limit of 1% (5% of the maintained 20% helium concentration in the shroud), indicating that a significant leak was not present in the sampling train.

6.4 Additional Soil Vapor Sampling Event

As discussed during the November 18, 2013 meeting, due to the limited number of sampling events, vapor samples from SV-4 and SV-13 were collected again on November 25, 2013. The samples were collected using the same techniques as during the October 24, 2013 sampling. Sampling results are described below, and this information has also been included in Table 10 and displayed on Figure 5. Complete results are included in the laboratory analytical report in Appendix E.

- TPHg and BTEX were not detected in either of the vapor samples from SV-4 or SV-13.
- PCE was detected in SV-4 at a concentration of 210 $\mu\text{g}/\text{m}^3$, lower than during the October 2013 sampling event and in SV-13 at 420 $\mu\text{g}/\text{m}^3$, slightly higher but consistent with the October 2013 sampling event. Each detection is well below the ESL for PCE of 2,100 $\mu\text{g}/\text{m}^3$.
- TCE was detected in SV-13 at a concentration of 3.5 $\mu\text{g}/\text{m}^3$, slightly lower than during the October 2013 sampling event and well below the ESL of 3,000 $\mu\text{g}/\text{m}^3$.
- The leak check compound (helium) was detected at 0.051% in SV-4, which is well below the acceptable limit of 1% (5% of the maintained 20% helium concentration in the shroud), indicating that a significant leak was not present in the sampling train.
- Helium was detected at 1.6% in SV-13, slightly above the acceptable limit of 1%, indicating that air within the shroud may have been drawn into the soil or sampling train.

6.5 Groundwater Monitoring

On October 24, 2013, twelve groundwater monitoring wells (MW-1 to MW-5, DPE-1, DPE-4, DPE-6, and DPE-8 to DPE-11) were gauged and sampled to further evaluate hydrocarbon and CVOC concentrations. Groundwater well field sampling forms are included in Appendix F. Prior to gauging, the wells caps were opened and allowed to equilibrate with atmospheric pressure. The depths to water from the top of the well casings were then measured with an electric water level indicator accurate to 0.01 feet prior to sampling.

Groundwater sampling was accomplished using a peristaltic pump and low-flow purge techniques. New disposable ¼-inch polyethylene tubing was set to the approximate depth of the middle of the screened interval and the pump was operated at a flow rate of approximately 250 milliliters per minute or less. The discharge tubing was connected to a flow-through cell fitted with water quality sensors and readings of temperature, pH, conductivity, dissolved oxygen (DO) and oxygen reduction potential (ORP) were recorded. A visual estimate and description of turbidity was also noted for each well. Once the field parameters stabilized, groundwater samples were collected directly from the discharge side of peristaltic pump.

The samples were collected into laboratory supplied 40-milliliter (mL) volatile organic analysis (VOA) vials preserved with hydrochloric acid capped such that no head space or air bubbles were visible. Samples were labeled with a unique sample name and the date and time of collection, then entered onto a chain of custody record and placed in a pre-chilled cooler on wet ice pending transportation to the laboratory. The groundwater samples were delivered on the day of collection, under proper chain of custody protocol and within hold time, to McCampbell for analysis.

The groundwater samples were analyzed for TPHg by EPA Method SW8015B Modified, TPHd and TPHmo by EPA Method SW8015B with silica gel clean-up, and VOCs by EPA Method SW8260B.

6.6 Groundwater Monitoring and Sampling Results

The groundwater elevations during this event ranged from 15.39 (MW-4) to 16.47 (DPE-6) feet above mean sea level (amsl). Well DPE-8 was not used for contouring purposes due to its apparently anomalous water level (18.11 feet amsl). Based on these data, the groundwater flow direction was to the northwest under a hydraulic gradient of approximately 0.01 ft/ft which is consistent with previous events. Current and historical groundwater elevations are summarized in Table 11. The elevation data, flow direction, and hydraulic gradient are presented on Figure 6.

A groundwater sample was collected from each of the wells, and select analytical data is summarized below:

- TPHg was detected in nine of the monitoring wells at concentrations ranging from 63 µg/L in DPE-8 to 610 µg/L DPE-1.
- Benzene was detected in nine of the monitoring wells at concentrations ranging from 0.58 µg/L in DPE-9 to 39 µg/L MW-1.

- PCE was detected in four of the monitoring wells at concentrations ranging from 1.3 µg/L in DPE-6 to 13 µg/L in MW-4.
- TCE was detected in ten of the monitoring wells at concentrations ranging from 0.67 µg/L in DPE-8 to 64 µg/L in MW-3.

The groundwater analytical data are summarized in Tables 8 and 9 and are presented graphically on Figure 7. Laboratory analytical reports with chain of custody and quality assurance/quality control documentation are included in Appendix E.

7.0 Summary and Recommendations

In September and October 2013, AEI performed source removal excavation activities at the subject site. The final excavation was irregularly shaped and measured approximately 45 feet by 40 feet at its widest and longest points and was completed to a depth of approximately 12 feet bgs. The excavation activities removed approximately 946.77 tons of soil and 3,460 gallons of groundwater which were properly disposed of.

Based on soil analytical data, the excavation was successful at removing the majority of hydrocarbon impacted soil within the vicinity of well DPE-5. Analytical data also did not indicate that a significant VOC source remains at the site.

October 24, 2013 soil vapor monitoring points SV-13 to SV15 were installed and soil vapor monitoring was performed on SV-3, SV-4, SV-6 to SV-9, and SV-12 to SV-15 to assess vapor conditions in the release area and location of the proposed building. On November 25, 2013 soil vapor sampling was performed on SV-4 and SV-13 to further assess vapor concentrations. Based on the post-excavation soil vapor sampling analytical findings, hydrocarbons and VOCs are not present above the respective ESLs at the site; therefore, vapor intrusion is not a significant concern at the site.

Groundwater monitoring was performed on October 24, 2013 to complete a final assessment of onsite groundwater conditions prior to abandoning the wells in preparation for site redevelopment activities. Hydrocarbons were reported at relatively similar concentrations from the wells further indicating that the hydrocarbon plume is stable and expected to naturally degrade over time. VOCs were sampled for either the first or second time in each of the wells. Wells sampled for the first time contained concentrations similar to what was expected; PCE and TCE were relatively stable in wells sampled for the second time. However, in MW-4 a slight increase in PCE and TCE was observed. Based on the results, PCE and TCE are present above the drinking water ESL, but well below the aquatic receptors ESL. Aquatic receptors would be a more applicable ESL than drinking water for this site as aquatic receptors is the most likely exposure scenario given the presence of the tidal canal.

All onsite monitoring wells, remediation wells, and soil vapor monitoring points have been properly destroyed as documented in AEI's *Well and Monitoring Point Abandonment Report* dated December 20, 2013. However, monitoring wells MW-4 and MW-5, located within Park Street remain to provide ongoing monitoring for plume stability if necessary.

Based on the findings discussed in this report, the subject site should qualify for closure under Low Threat Closure Policy (LTCP) guidelines. Further details regarding site conditions with respect to LTCP guidelines are included in the CSM update provided under separate cover.

8.0 Report Limitations

This report has been prepared by AEI Consultants relating to the property located at 1630 Park Street, in the City of Alameda, Alameda County, California. This report includes a summary of site conditions and relies heavily on information obtained from public records and other resources; AEI makes no warranty that the information summarized in this report includes consideration of all possible resources or information available for the site, whether referenced or not. Material samples have been collected and analyzed, and where appropriate conclusions drawn and recommendations made based on these analyses and other observations. This report may not reflect subsurface variations that may exist between sampling points. These variations cannot be fully anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This document should not be regarded as a guarantee that no further contamination, beyond that which could have been detected within the scope of past investigations is present beneath the property or that all contamination present at the site will be identified, treated, or removed. Undocumented, unauthorized releases of hazardous material(s) and petroleum products, the remains of which are not readily identifiable by visual inspection and/or are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation and may or may not become apparent at a later time. This document may contain estimates of costs for various activities that could be implemented at the site. Such estimates are based on reasonably expected costs for similar activities; however, AEI provides no guarantee implicit or explicit that costs will not be significantly higher or lower than those estimated. All specified work has been performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology and performed under the direction of appropriate California registered professionals.

We welcome comments and questions from ACEH staff. Please contact us (925) 746-6000.

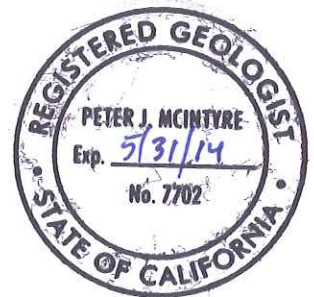
Sincerely,
AEI Consultants



Jeremy Smith
Sr. Project Manager



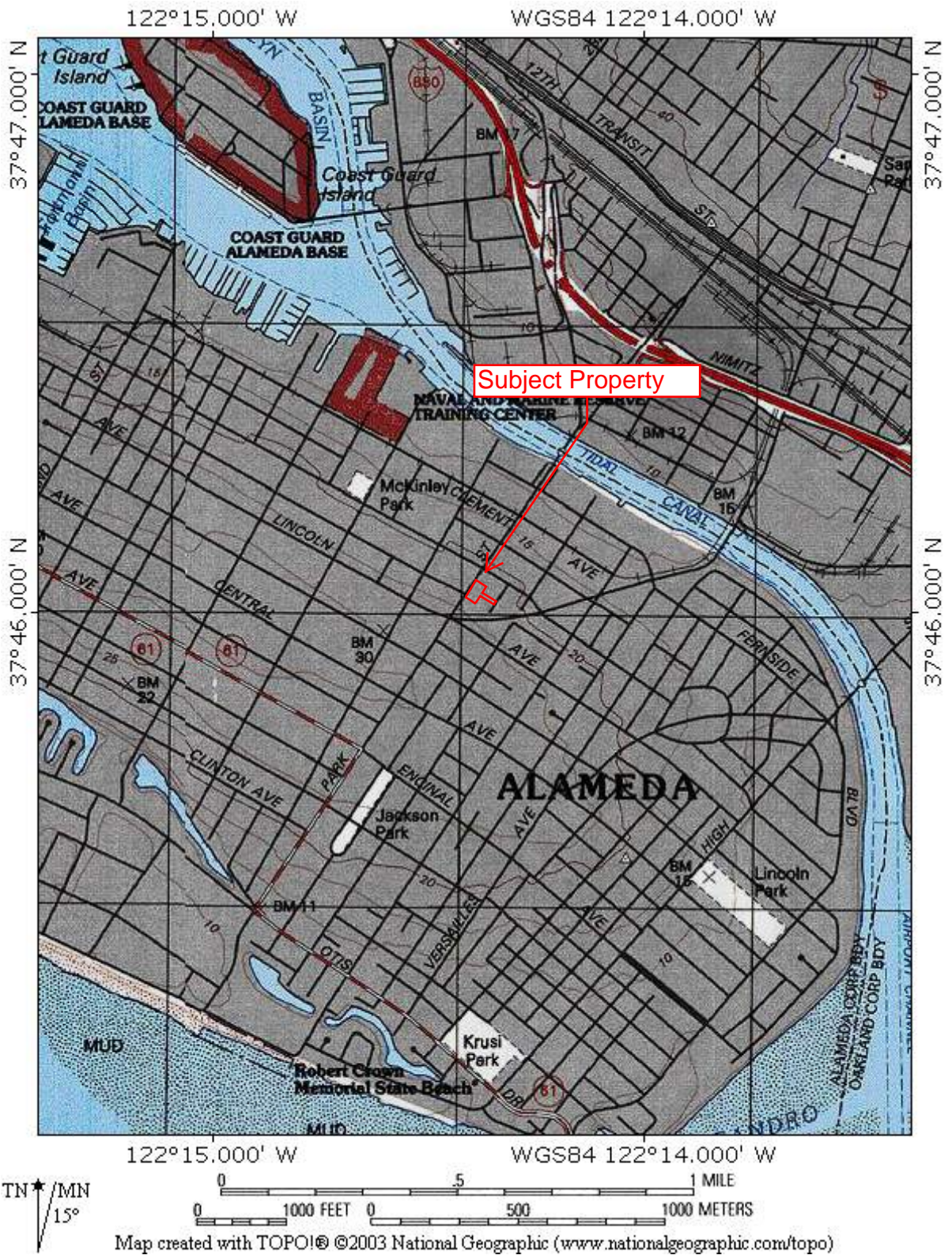
Peter J. McIntyre, PG
Executive Vice President
Principal Geologist



Distribution:

John Buestad, Foley Street Investments
Tom Graf, Grafcon
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FIGURES

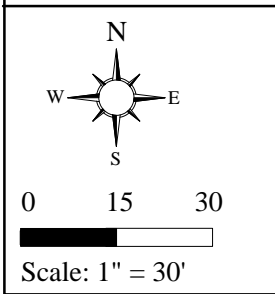
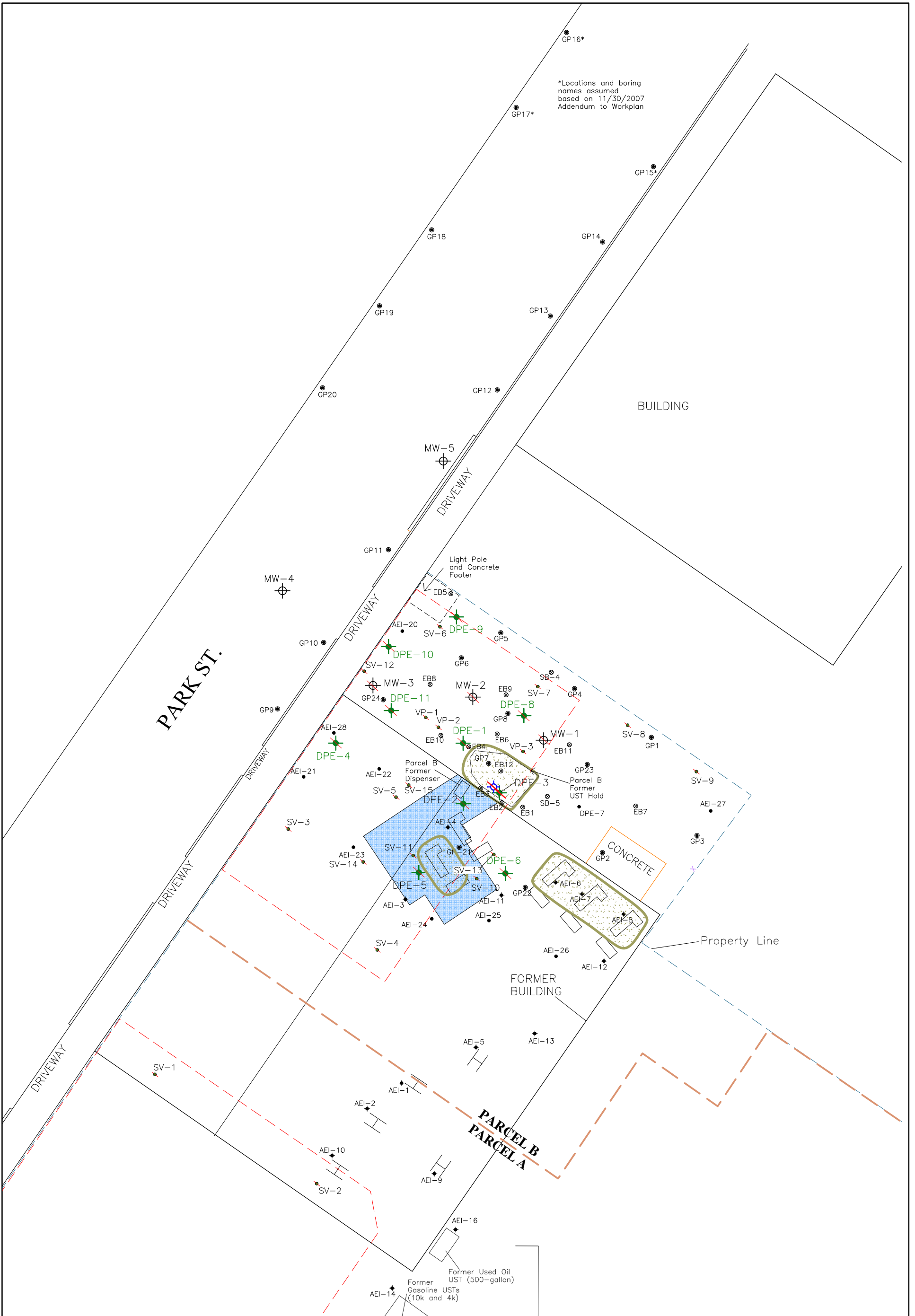


SITE LOCATION MAP

1600-1650 Park Street

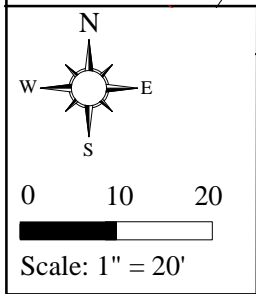
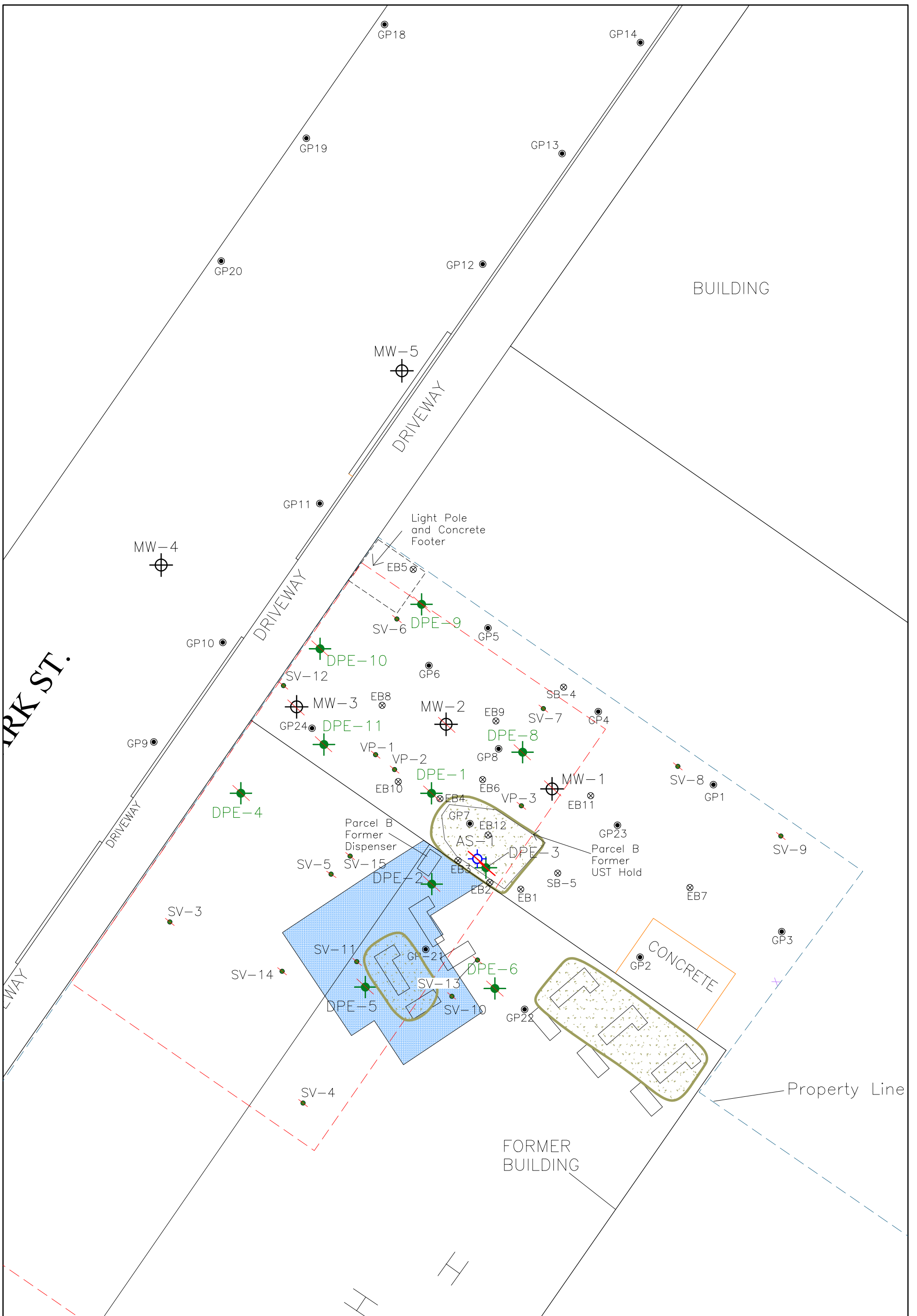
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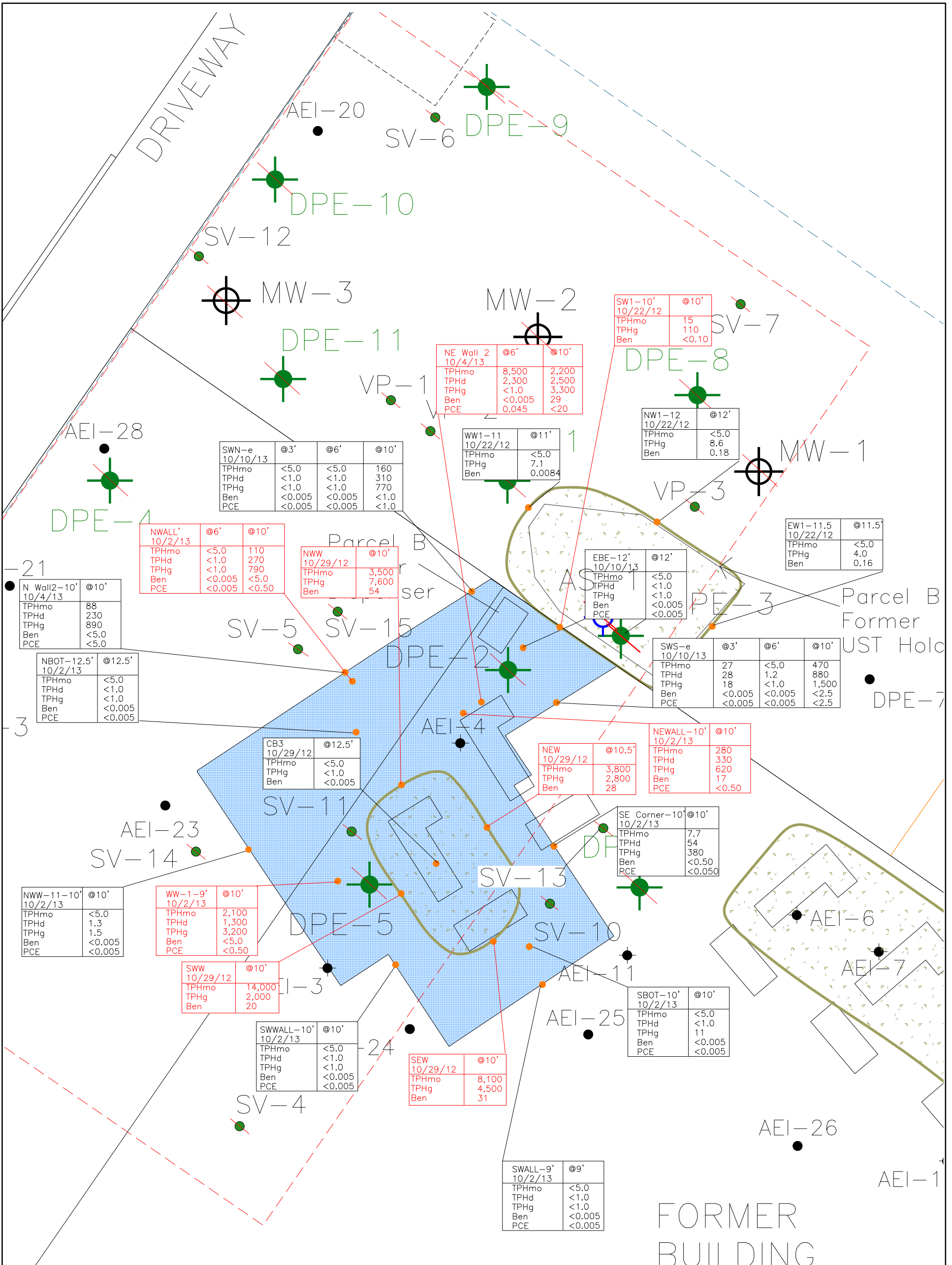
LEGEND		DRAFTED BY JAS 3-2-12 REVISED BY JAS 12-2-13	
	Destroyed Remediation Well		Proposed Building Extents
	AEI Soil Boring (1/12)		Former Building Extents
	Destroyed Vapor Probe		Hydraulic Lift
	AEI Soil Boring (7/11)		Former Hydraulic Lift w/ Excavation
	Soil Boring (2008)		Property Line
	Soil Boring (Pre-1997)		Parcel Split
	Existing/Destroyed Groundwater Monitoring Well		2013 Excavation

AEI CONSULTANTS 2500 CAMINO DIABLO, WALNUT CREEK	
EXTENDED SITE PLAN	
1630 PARK STREET ALAMEDA, CALIFORNIA	FIGURE 2 PROJECT NO. 298931



LEGEND		DRAFTED BY JAS 3-2-12 REVISED BY JAS 1-15-14	
	Destroyed Remediation Well		Proposed Building Extents
	AEI Soil Boring (1/12)		Former Property Line
	Destroyed Vapor Probe		2013 Excavation
	AEI Soil Boring (7/11)		Hydraulic Lift
	Soil Boring (2008)		Former Hydraulic Lift w/ Excavation
	Soil Boring (Pre-1997)		Property Line
	Existing/Destroyed Groundwater Monitoring Well		

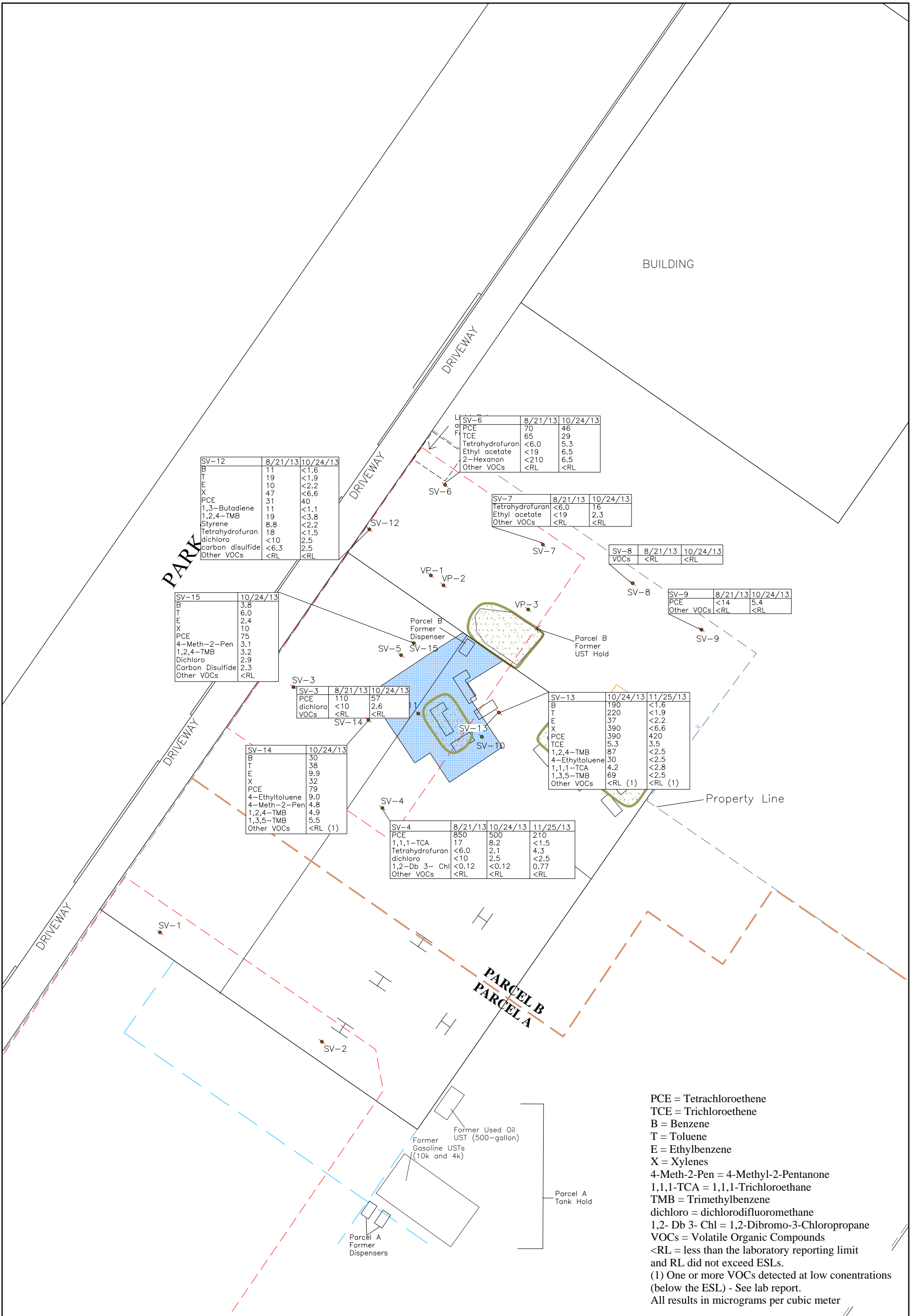
AEI CONSULTANTS 2500 CAMINO DIABLO, WALNUT CREEK	
SITE PLAN	
1630 PARK STREET ALAMEDA, CALIFORNIA	FIGURE 3 PROJECT NO. 298931



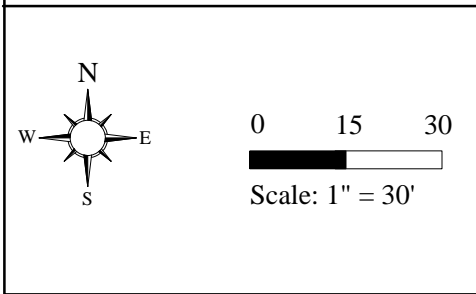
TPHmo = Total Petroleum Hydrocarbons as Motor Oil
 TPHd = Total Petroleum Hydrocarbons as Diesel
 TPHg = Total Petroleum Hydrocarbons as Gasoline
 Ben = Benzene
 PCE = Tetrachloroethene
 All results in milligrams per kilogram (mg/kg)
 Sample Excavated and Properly Disposed of.

	LEGEND <ul style="list-style-type: none"> Existing/Destroyed Remediation Well AEI Soil Boring (1/12) Existing/Destroyed Vapor Probe AEI Soil Boring (7/11) Groundwater Monitoring Well Grab Sample Proposed Building 	<ul style="list-style-type: none"> 2012 Excavation 2013 Excavation Former Hydraulic Lift Former Hydraulic Lift 	AEI CONSULTANTS 2500 CAMINO DIABLO, WALNUT CREEK	
			EXCAVATION ANALYTICAL DATA	

DRAFTED BY JAS 3-2-12
 REVISED BY JAS 1-3-14



PCE = Tetrachloroethene
TCE = Trichloroethene
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
4-Meth-2-Pen = 4-Methyl-2-Pentanone
1,1,1-TCA = 1,1,1-Trichloroethane
TMB = Trimethylbenzene
dichloro = dichlorodifluoromethane
1,2- Db 3- Chl = 1,2-Dibromo-3-Chloropropane
VOCs = Volatile Organic Compounds
<RL = less than the laboratory reporting limit and RL did not exceed ESLs.
(1) One or more VOCs detected at low concentrations (below the ESL) - See lab report.
All results in micrograms per cubic meter



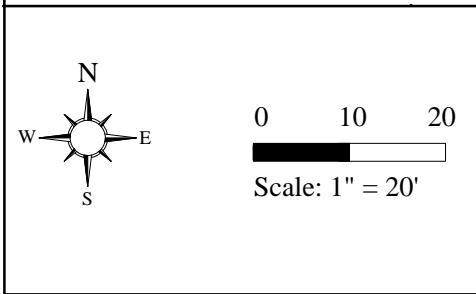
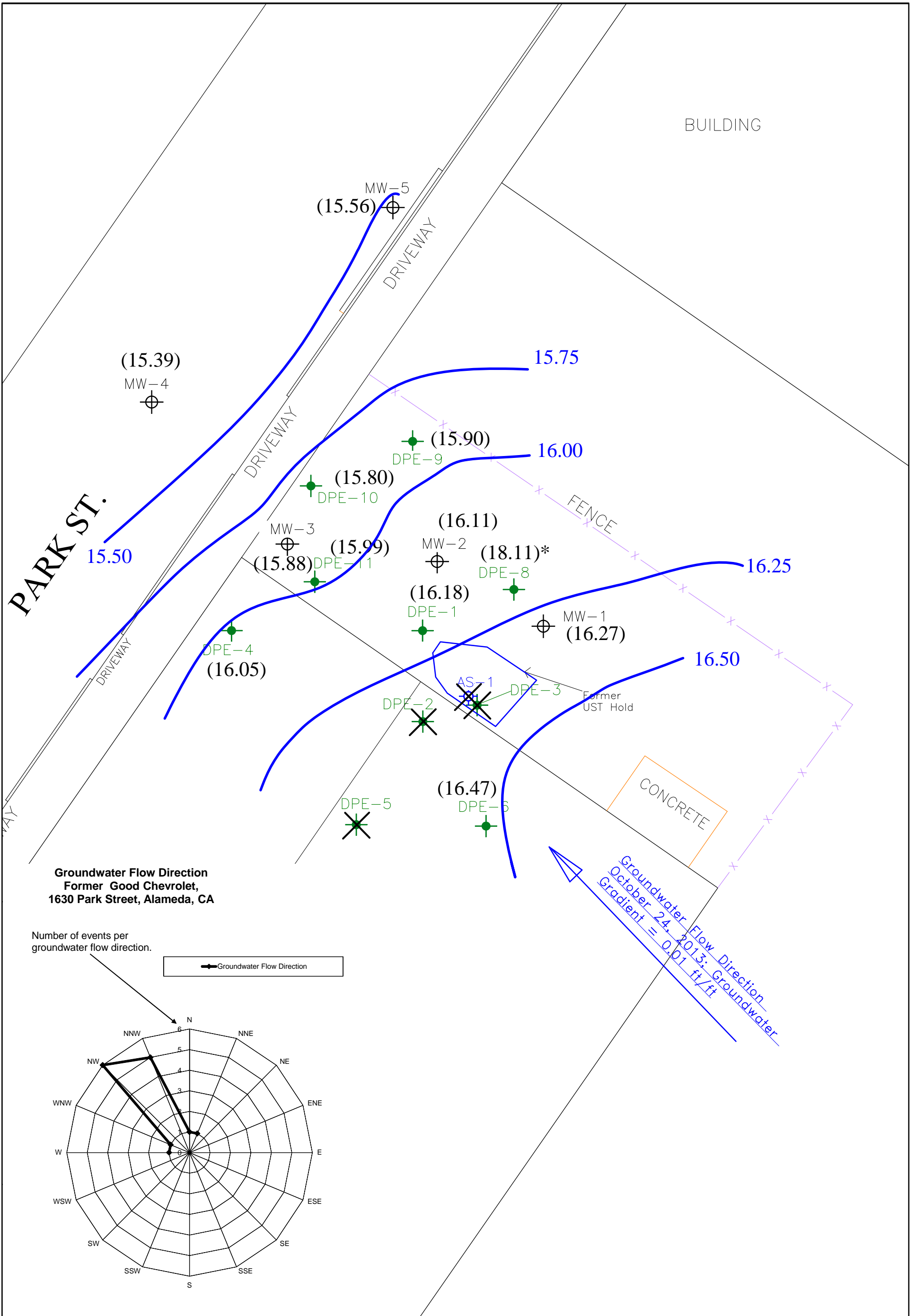
LEGEND		DRAFTED BY JAS 3-2-12 REVISED BY JAS 8-12-13	
	Former Vapor Probe		Proposed Building Extents
	Parcel Split		Former Hydraulic Lift
	2012 Excavation Extents		Former Hydraulic Lift
	2013 Excavation		

AEI CONSULTANTS
2500 CAMINO DIABLO, WALNUT CREEK

SOIL VAPOR ANALYTICAL DATA

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 5
PROJECT NO. 298931



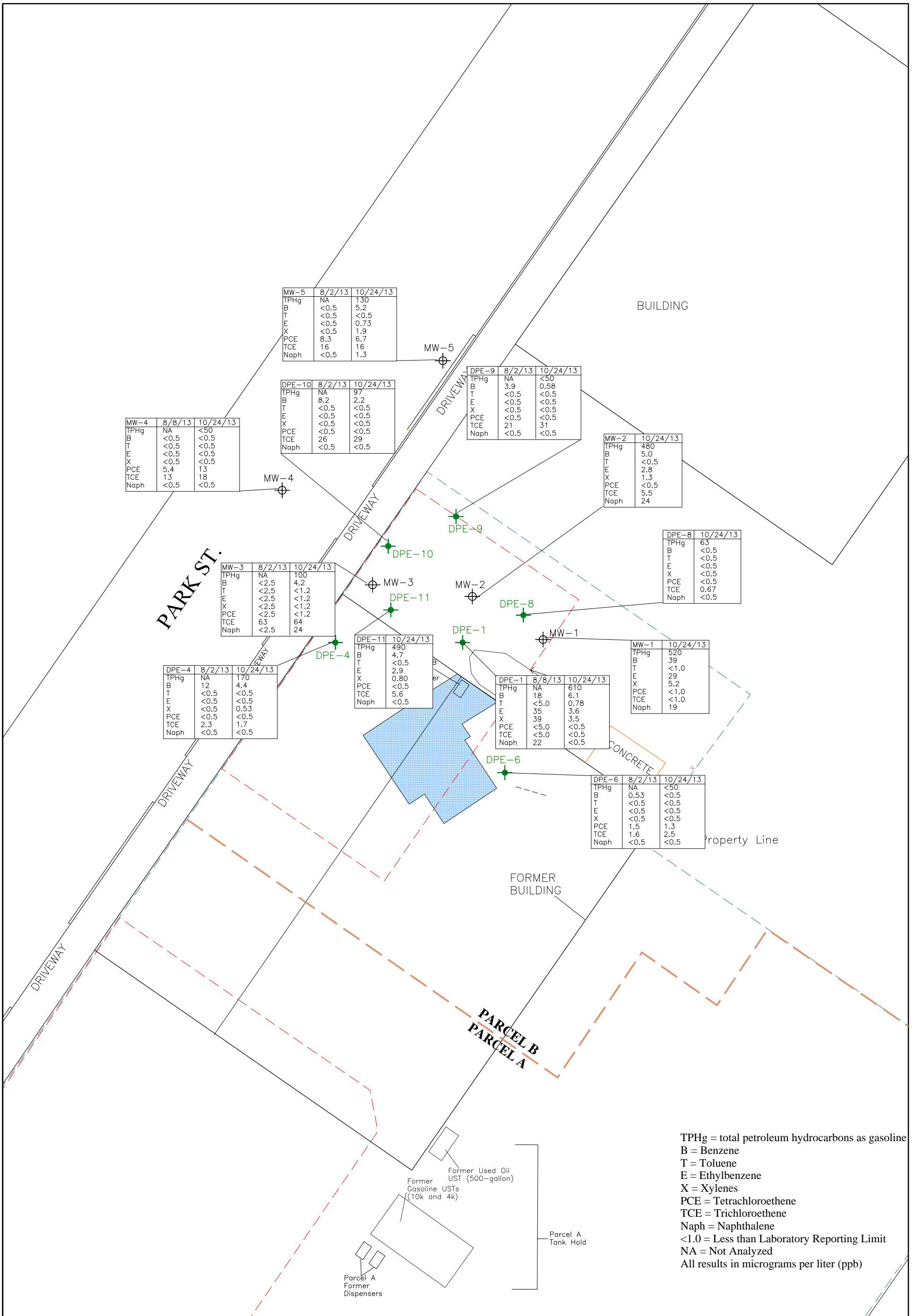
LEGEND	
	Remediation Well (12/11 and 1/12)
	Abandoned Well
	Groundwater Monitoring Well
(306.70)	Groundwater Elevation (ft, msl)
*	Not used for contouring

DRAFTED BY JAS 3-9-12
REVISED BY JMP 1-16-14

AEI CONSULTANTS
2500 CAMINO DIABLO, WALNUT CREEK

**GROUNDWATER
ELEVATION MAP - OCT 2013**

1600 PARK STREET ALAMEDA, CALIFORNIA	FIGURE 6 PROJECT NO. 298931
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MW-4	8/8/13	10/24/13
TPHg	NA	<50
B	<0.5	<0.5
T	<0.5	<0.5
E	<0.5	<0.5
X	<0.5	<0.5
PCE	5.4	13
TCE	13	18
Naph	<0.5	<0.5

MW-5	8/2/13	10/24/13
TPHg	NA	130
B	<0.5	5.2
T	<0.5	<0.5
E	<0.5	0.73
X	<0.5	1.9
PCE	8.3	6.7
TCE	16	16
Naph	<0.5	1.3

DPE-10	8/2/13	10/24/13
TPHg	NA	97
B	8.2	2.2
T	<0.5	<0.5
E	<0.5	<0.5
X	<0.5	<0.5
PCE	<0.5	<0.5
TCE	26	29
Naph	<0.5	<0.5

DPE-9	8/2/13	10/24/13
TPHg	NA	<50
B	3.9	0.58
T	<0.5	<0.5
E	<0.5	<0.5
X	<0.5	<0.5
PCE	<0.5	<0.5
TCE	21	31
Naph	<0.5	<0.5

MW-2	10/24/13
TPHg	480
B	5.0
T	<0.5
E	2.8
X	1.3
PCE	<0.5
TCE	5.5
Naph	24

DPE-8	10/24/13
TPHg	63
B	<0.5
T	<0.5
E	<0.5
X	<0.5
PCE	<0.5
TCE	0.67
Naph	<0.5

MW-3	8/2/13	10/24/13
TPHg	NA	100
B	<2.5	4.2
T	<2.5	<1.2
E	<2.5	<1.2
X	<2.5	<1.2
PCE	<2.5	<1.2
TCE	63	64
Naph	<2.5	24

DPE-11	10/24/13
TPHg	490
B	4.7
T	<0.5
E	2.9
X	0.80
PCE	<0.5
TCE	5.6
Naph	<0.5

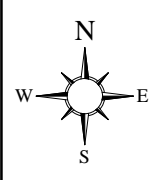
DPE-1	8/8/13	10/24/13
TPHg	NA	610
B	18	6.1
T	<5.0	0.78
E	35	3.6
X	39	3.5
PCE	<5.0	<0.5
TCE	<5.0	<0.5
Naph	22	<0.5

MW-1	10/24/13
TPHg	520
B	39
T	<1.0
E	29
X	5.2
PCE	<1.0
TCE	<1.0
Naph	19

DPE-4	8/2/13	10/24/13
TPHg	NA	170
B	12	4.4
T	<0.5	<0.5
E	<0.5	<0.5
X	<0.5	0.53
PCE	<0.5	<0.5
TCE	2.3	1.7
Naph	<0.5	<0.5

DPE-6	8/2/13	10/24/13
TPHg	NA	<50
B	0.53	<0.5
T	<0.5	<0.5
E	<0.5	<0.5
X	<0.5	<0.5
PCE	1.5	1.3
TCE	1.6	2.5
Naph	<0.5	<0.5

TPHg = total petroleum hydrocarbons as gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 PCE = Tetrachloroethene
 TCE = Trichloroethene
 Naph = Naphthalene
 <1.0 = Less than Laboratory Reporting Limit
 NA = Not Analyzed
 All results in micrograms per liter (ppb)



0 15 30
 Scale: 1" = 30'

LEGEND

- Remediation Well (12/11 and 1/12)
- Groundwater Monitoring Well
- Proposed Building Extents
- Parcel Split
- Property Line
- 2013 Excavation

DRAFTED BY JAS 3-9-12
 REVISED BY JAS 11-12-13

AEI CONSULTANTS
 2500 CAMINO DIABLO, WALNUT CREEK

SELECT GROUNDWATER ANALYTICAL DATA

1630 PARK STREET
 ALAMEDA, CALIFORNIA

FIGURE 7
 PROJECT NO. 298931

TABLES

Table 1
Groundwater and Soil Vapor Well Inventory
 AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Well ID Number	Well Installation Date	Well Destruction Date	Well Destruction Method	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
AS-1	11/14/2011	Oct-12	Excavated	-	PVC	25	25	8	2	20 - 25	0.02	20 - 25	#3 Sand
DPE-1	11/15/2011	11/21/2013	Pressure Grout	25.88	PVC	16	15	10	4	7 - 15	0.01	6.5 - 16	#2/12 Sand
DPE-2	11/15/2011	Oct-13	Excavated	26.22	PVC	16	15	10	4	7 - 15	0.01	6.5 - 16	#2/12 Sand
DPE-3	11/14/2011	Oct-12	Excavated	25.27	PVC	16	14	10	4	7 - 14	0.01	6.5 - 16	#2/12 Sand
DPE-4	1/19/2012	11/21/2013	Pressure Grout	26.06	PVC	17	17	10	4	8 - 17	0.01	7.5 - 17	#2/12 Sand
DPE-5	1/20/2012	9/18/2013	Pressure Grout	26.25	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-6	1/20/2012	11/21/2013	Pressure Grout	26.13	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-8	1/20/2012	11/21/2013	Pressure Grout	25.36	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-9	1/20/2012	11/21/2013	Pressure Grout	25.09	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-10	1/20/2012	11/21/2013	Pressure Grout	25.14	PVC	17	17	10	4	8 - 17	0.01	7.5 - 17	#2/12 Sand
DPE-11	1/20/2012	11/21/2013	Pressure Grout	25.57	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
MW-1	1/15/1987	11/21/2013	Pressure Grout	25.37	PVC	-	20	8	2	5 - 20	-	-	-
MW-2	1/15/1987	11/21/2013	Pressure Grout	25.48	PVC	-	20	8	2	5 - 20	-	-	-
MW-3	1/15/1987	11/21/2013	Pressure Grout	25.13	PVC	-	20	8	2	5 - 20	-	-	-
MW-4	4/20/1994	Active	N/A	25.58	PVC	-	23	8	2	8 - 23	-	-	-
MW-5	4/20/1994	Active	N/A	24.31	PVC	-	22	8	2	7 - 22	-	-	-
VP-1	12/6/2011	11/21/2013	Remove & Grout	-	Nyla/SS	6	6	1.25	1/4	5.1 - 5.6	Mesh	4.7 - 6	#30 Mesh Sand
VP-2	12/6/2011	11/21/2013	Remove & Grout	-	Nyla/SS	5.9	5.9	1.25	1/4	5.1-5.6	Mesh	4.7-5.9	#30 Mesh Sand
VP-3	12/6/2011	11/21/2013	Remove & Grout	-	Nyla/SS	5.75	5.75	1.25	1/4	5.1-5.6	Mesh	4.7-5.75	#30 Mesh Sand
SV-3	4/18/2013	11/21/2013	Remove & Grout	-	Nyla/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-4	4/19/2013	11/25/2013	Remove & Grout	-	Nyla/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-5	4/20/2013	9/18/2013	Remove & Grout	-	Nyla/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-6	4/21/2013	11/21/2013	Remove & Grout	-	Nyla/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-7	4/22/2013	11/21/2013	Remove & Grout	-	Nyla/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand

Table 1
Groundwater and Soil Vapor Well Inventory
 AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Well ID Number	Well Installation Date	Well Destruction Date	Well Destruction Method	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
SV-8	8/5/2013	11/21/2013	Remove & Grout	-	Teflon/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-9	8/5/2013	11/21/2013	Remove & Grout	-	Teflon/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-10	8/5/2013	9/18/2013	Remove & Grout	-	Teflon/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-11	8/21/2013	9/18/2013	Remove & Grout	-	Teflon/SS	6.5	6.5	2.0	1/4	6.0-5.9	Mesh	6.5-5.5	#30 Mesh Sand
SV-12	8/21/2013	11/21/2013	Remove & Grout	-	Teflon/SS	6.5	6.5	2.0	1/4	6.0-5.9	Mesh	6.5-5.5	#30 Mesh Sand
SV-13	10/24/2013	11/25/2013	Remove & Grout	-	Teflon/SS	6.1	6.1	1.5	1/4	6.0-5.9	Mesh	6.1-5.1	#30 Mesh Sand
SV-14	10/24/2013	11/21/2013	Remove & Grout	-	Teflon/SS	6.1	6.1	1.5	1/4	6.0-5.9	Mesh	6.1-5.1	#30 Mesh Sand
SV-15	10/24/2013	11/21/2013	Remove & Grout	-	Teflon/SS	6.1	6.1	1.5	1/4	6.0-5.9	Mesh	6.1-5.1	#30 Mesh Sand

PVC = polyvinyl chloride
 Nyla/SS = Nylaflo tubing with stainless-steel tip
 TOC = top of casing
 "-" = not available

Table 2
Soil Sample Analytical Data
TPH and MBTEX

AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
MW-1-10	1/15/1987	10	24	-	-	-	2.9	3.6	-	1.8
MW-1-15	1/15/1987	15	<1.0	-	-	-	<0.1	<0.1	-	<0.1
MW-2-5	1/15/1987	5	<1.0	-	-	-	<0.1	<0.1	-	<0.1
MW-2-10	1/15/1987	10	350	-	-	-	14	22	-	23
MW-3-10	1/15/1987	10	200	-	-	-	9.8	16	-	16
MW-3-15	1/15/1987	15	<1.0	-	-	-	<0.1	<0.1	-	<0.1
SB-5-10	1/15/1987	10	6.5	-	-	-	<0.1	0.22	-	<0.1
EB1-S2	10/15/1993	8.5	510	-	-	-	0.89	10	5.8	41
EB1-S3	10/15/1993	11	2,300	-	-	-	22	190	57	280
EB2-S2	10/15/1993	10	15,000	-	-	-	84	710	260	1,400
EB2-S3	10/15/1993	11.5	200	-	-	-	4.3	15	3.9	20
EB3-S2	10/15/1993	10	2,200	-	-	-	9.4	71	42	200
EB3-S3	10/15/1993	12.5	610	-	-	-	1.2	3.2	4.5	2.9
EB4-S2	10/15/1993	8	4,900	-	-	-	32	230	84	440
EB4-S3	10/15/1993	10.5	7,600	-	-	-	60	390	130	630
EB5-S2	10/15/1993	9	1,800	-	-	-	<2.5	22	27	140
EB5-S3	10/15/1993	11.5	14	-	-	-	0.021	1.5	0.49	2.5
EB6-S2	10/15/1993	8.5	6,800	-	-	-	20	230	100	590
EB7-S2	10/15/1993	6.5	<1.0	-	-	-	<0.005	<0.005	<0.005	<0.005
EB7-S3	10/15/1993	8.5	1,000	-	-	-	3.8	45	21	110
MW4-S1	4/20/1994	4.5	<1.0	-	-	-	<0.005	<0.005	<0.005	0.013
MW4-S2	4/20/1994	9	9.7	-	-	-	1.1	0.82	0.42	1.3
MW4-S3	4/20/1994	14	<1.0	-	-	-	<0.005	0.008	<0.005	0.022
MW5-S1	4/20/1994	4.5	<1.0	-	-	-	<0.005	<0.005	<0.005	<0.5
MW5-S2	4/20/1994	9	1,100	-	-	-	12	43	20	93
MW5-S3	4/20/1994	14	1.1	-	-	-	0.033	0.17	0.044	0.22
EB8-S2	1/21/1997	9.5	2,000	-	-	<4	8.4	83	44	210
EB8-S3	1/21/1997	13.5	18	-	-	0.10	3.2	1.2	0.47	1.7
EB9-S1	1/21/1997	6.5	1.8	-	-	<5	0.071	0.052	0.026	0.074
EB9-S2	1/21/1997	9.5	1,300	-	-	<4	7.1	54	29	130
EB10-S1	1/21/1997	8.5	2,300	-	-	9.3	9.1	100	50	190
EB11-S1	1/21/1997	9.5	3,800	-	-	<9	8.8	190	97	510
EB11-S2	1/21/1997	12	13	-	-	<0.1	1.1	1.6	0.47	1.4
EB12-S1	1/21/1997	9.5	300	-	-	<0.6	0.95	0.59	3.5	18
EB12-S2	1/21/1997	12	1,300	-	-	6.2	9.4	23	35	130

Table 2
Soil Sample Analytical Data
TPH and MBTEX
 AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
GP1-11.5	4/29/2008	11.5	130	-	-	<0.005	<0.10	0.29	<0.10	0.42
GP1-15	4/29/2008	15	<1.0	-	-	<0.005	<0.005	0.0081	0.0065	0.028
GP2-11	4/29/2008	11	120	-	-	<0.010	<0.050	0.87	0.43	1.2
GP2-13.5	4/29/2008	13.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP3-6.75	4/29/2008	6.75	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP3-11.5	4/29/2008	11.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP4-11.5	4/29/2008	11.5	2.7	-	-	<0.005	0.14	0.052	0.072	0.17
GP4-14.5	4/29/2008	14.5	99	-	-	<0.020	0.48	1.4	1.0	4.5
GP5-11.5	4/29/2008	11.5	4.6	-	-	<0.005	0.12	0.078	0.14	0.48
GP5-19	4/29/2008	19	1.5	-	-	<0.005	<0.005	0.022	0.0069	0.032
GP6-11	4/29/2008	11	130	-	-	<0.10	0.11	1.0	1.1	5.4
GP7-8	4/30/2008	8	390	-	-	<0.050	0.84	2.2	4.3	18
GP7-19.5	4/30/2008	19.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP8-8.5	5/1/2008	8.5	1,100	-	-	<0.050	<0.10	3.2	7.3	45
GP8-19.5	5/1/2008	19.5	5.8	-	-	<0.005	0.0091	0.067	0.048	0.21
GP9-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP9-11.25	5/1/2008	11.25	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP10-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP10-19.5	4/30/2008	19.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP11-6	4/30/2008	6	<1.0	-	-	<0.005	<0.005	0.011	0.0053	0.026
GP11-15.5	4/30/2008	15.5	2,100	-	-	<0.10	5.7	71	38	180
GP11-18	4/30/2008	18	87	-	-	<0.020	0.059	0.93	0.67	4.2
GP12-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP12-11	4/30/2008	11	4.7	-	-	<0.005	0.015	0.21	0.067	0.32
GP12-15.5	4/30/2008	15.5	<1.0	-	-	<0.005	<0.005	0.0071	0.0051	0.025
GP13-7.25	4/30/2008	7.25	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP13-11	4/30/2008	11	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP13-14	4/30/2008	14	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP14-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP14-11	4/30/2008	11	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP15-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP16-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP16-10.5	5/1/2008	10.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP17-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP17-11.5	5/1/2008	11.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005

Table 2
Soil Sample Analytical Data
TPH and MBTEX
 AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
GP18-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP18-10	5/1/2008	10	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP19-7	5/1/2008	7	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP20-8	5/1/2008	8	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP21-7.5	5/2/2008	7.5	2.1	-	-	<0.005	0.006	0.028	0.012	0.065
GP21-15.5	5/2/2008	15.5	<1.0	-	-	<0.005	0.0064	0.022	0.0057	0.027
GP21-19.5	5/2/2008	19.5	<1.0	-	-	<0.005	<0.005	0.0092	<0.005	0.023
GP22-10.5	5/2/2008	10.5	1,100	-	-	<0.20	0.67	13	15	70
GP22-15.5	5/2/2008	15.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP23-7.5	5/2/2008	7.5	53	-	-	<0.005	<0.050	0.13	<0.050	0.37
GP23-11.5	5/2/2008	11.5	1.9	-	-	<0.005	0.062	0.041	0.043	0.18
GP23-16	5/2/2008	16	2	-	-	<0.005	<0.005	0.027	0.018	0.099
GP24-8.5	5/2/2008	8.5	3,600	-	-	<1.0	1.2	32	62	410
GP24-19.5	5/2/2008	19.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
AEI-3-7'	7/25/2011	7	1,200	1,700	4,000	<10	2.6	25	10	48
AEI-3-15'	7/25/2011	15	<1.0	1.6	<5.0	<10	<0.005	<0.005	<0.005	<0.005
AEI-4-7'	7/25/2011	7	5,100	2,100	710	<50	6.2	83.0	54.0	280.0
AEI-4-15'	7/25/2011	15	1.2	1.3	<5.0	<0.05	0.029	0.071	0.031	0.17
AEI-6-7'	7/25/2011	7	470	10,000	24,000	<5.0	<0.50	<0.50	<0.50	<0.50
AEI-6-14'	7/25/2011	14	<1.0	1.4	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50
AEI-7-7'	7/25/2011	7	100	6,300	14,000	-	-	-	-	-
AEI-7-13'	7/25/2011	13	<1.0	3.7	7.4	<5.0	<0.50	<0.50	<0.50	<0.50
AEI-8-7'	7/25/2011	7	<1.0	720	2,900	-	-	-	-	-
AEI-8-14'	7/25/2011	14	<1.0	<1.0	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50
AEI-11-3'	7/26/2011	3	<1.0	2.2	8.5	-	-	-	-	-
AEI-12-3'	7/26/2011	3	<1.0	2.6	<5.0	-	-	-	-	-
AEI-13-3'	7/26/2011	3	<1.0	4.2	<5.0	-	-	-	-	-
AEI-20-7.5'	1/17/2012	7.5	8.4	-	-	<0.05	0.0071	0.084	0.069	0.38
AEI-20-11'	1/17/2012	11	600	-	-	<0.50	0.89	2.9	10	39
AEI-20-15'	1/17/2012	15	3.3	-	-	<0.05	<0.005	0.028	<0.005	0.017
AEI-21-7'	1/17/2012	7	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-21-11'	1/17/2012	11	46	-	-	<0.05	0.020	0.42	0.27	0.60
AEI-21-14'	1/17/2012	14	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-22-9'	1/17/2012	9	3,100	-	-	<0.05	3.2	46	62	400
AEI-22-11'	1/17/2012	11	8.6	-	-	<0.10	0.71	0.77	0.31	1.3
AEI-22-14'	1/17/2012	14	3,300	-	-	<0.05	8.3	84	61	370

Table 2
Soil Sample Analytical Data
TPH and MBTEX

AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
AEI-23-6'	1/17/2012	6	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-23-9.5'	1/17/2012	9.5	7.5	100	180	<0.05	<0.005	0.027	<0.005	0.0055
AEI-23-12.5'	1/17/2012	12.5	460	360	270	<5.0	<0.50	1.4	<0.50	0.80
AEI-24-7'	1/17/2012	7	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-24-10.5'	1/17/2012	10.5	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-24-13'	1/17/2012	13	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-25-7.5'	1/17/2012	7.5	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-25-10'	1/17/2012	10	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-25-14'	1/17/2012	14	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-26-7.5'	1/17/2012	7.5	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-26-10.5'	1/17/2012	10.5	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-26-14'	1/17/2012	14	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-27-3'	1/17/2012	3	<1.0	3.2	7.9	<0.05	<0.005	<0.005	<0.005	0.013
AEI-28-7'	1/17/2012	7	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-28-11'	1/17/2012	11	12,000	2,100	44	<10	21	210	210	1,000
AEI-28-13'	1/17/2012	13	7.8	2.0	<5.0	<0.05	0.050	0.29	0.31	1.4
DPE-1, 7-7.5'	11/15/2011	7	1,800	330	46	<50	9.7	64	29	150
DPE-2, 8-8.5'	11/15/2011	8	2,200	280	140	<15	7.6	57	34	170
DPE-3, 8-8.5'	11/14/2011	8	2,000	1,000	58	<50	6.7	48	47	240
DPE-5, 11'	1/20/2012	11	2,300	-	-	<10	15	99	33	140
DPE-5, 14'	1/20/2012	14	1.1	-	-	<0.05	<0.005	0.17	<0.005	0.016
DPE-6, 10'	1/20/2012	10	510	-	-	<1.0	<0.10	0.14	0.47	0.96
DPE-6, 14'	1/20/2012	14	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005
DPE-7, 10'	1/19/2012	10	2,200	-	-	<5.0	<5.0	16	47	240
DPE-7, 14.5'	1/19/2012	14.5	610	-	-	<5.0	<5.0	3.9	9.5	55
October 2012 Excavation Activities										
EB1-15'	10/22/2012	15	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
SW1-10'	10/22/2012	10	110	-	15	<1.0	<0.10	<0.10	<0.10	4.1
WW1-11'	10/22/2012	11	7.1	-	<5.0	<0.05	0.0084	<0.005	0.013	0.17
EW1-11.5'	10/22/2012	11.5	4.0	-	<5.0	<0.05	0.16	0.22	0.21	0.71
NW1-12'	10/22/2012	12	8.6	-	<5.0	<0.05	0.18	0.40	0.35	1.5
SEW2-9'	10/23/2012	9'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
EB2-11.5'	10/23/2012	11.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
EW2-9.5'	10/23/2012	9.5'	<1.0	-	23	<0.05	<0.005	<0.005	<0.005	<0.005
NEW2-9.5'	10/23/2012	9.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
CB2-11.5'	10/23/2012	11.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
CSW2-9.5'	10/23/2012	9.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
WB2-11.5'	10/23/2012	11.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005

Table 2
Soil Sample Analytical Data
TPH and MBTEX

AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
SWW2-9.5'	10/23/2012	9.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
WW2-9.5'	10/23/2012	9.5'	1,400	-	3,400	<5.0	<0.50	<0.50	42	180
WW2-6.5'	10/23/2012	6.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
NWW2-9.5'	10/23/2012	9.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
CNW2-9.5'	10/23/2012	9.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
CB3-12.5'	10/29/2012	12.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
SEW-10'	10/29/2012	10'	4,500	-	8,100	<25	31	270	100	460
NWW-10'	10/29/2012	10'	7,600	-	3,500	<50	54	410	150	680
NEW-10.5'	10/29/2012	10.5'	2,800	-	3,800	<5.0	28	180	65	290
SWW-10'	10/29/2012	10'	2,000	-	14,000	<5.0	20	110	33	100

October 2013 Excavation Activities

SE Corner-10'	10/2/2013	10'	380	54	7.7	<0.50	<0.50	1.1	2.1	10
NWW-11-10'	10/2/2013	10'	1.5	1.3	<5.0	<0.005	<0.005	<0.005	<0.005	0.024
WW-1-9'	10/2/2013	9'	3,200	1,300	2,100	<5.0	<5.0	80	55	230
NWALL-6'	10/2/2013	6'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
NWALL-10'	10/2/2013	10'	790	270	110	<5.0	<5.0	22	27	110
NBOT-12.5	10/2/2013	12.5'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SBOT-10	10/2/2013	10'	11	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SWALL-9'	10/2/2013	9'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SWWALL-10'	10/2/2013	10'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
NEWALL-10'	10/2/2013	10'	620	330	280	<5.0	17	94	39	170
N Wall2-10'	10/4/2013	10'	890	230	88	<5.0	<5.0	17	25	110
NE Wall2-10'	10/4/2013	10'	3,300	2,500	2,200	<20	29	350	150	680
NE Wall2-6'	10/4/2013	6'	<1.0	2,300	8,500	<0.005	<0.005	<0.005	<0.005	0.0062
EBE-12'	10/10/2013	12'	<1.0	<1.0	<5.0	<0.005	<0.005	0.0065	<0.005	0.018
SWN-e-3'	10/10/2013	3'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SWN-e-6'	10/10/2013	6'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SWN-e-10'	10/10/2013	10'	770	310	160	<1.0	<1.0	<1.0	3.6	34
SWS-e-3'	10/10/2013	3'	18	28	27	<0.005	<0.005	<0.005	<0.005	<0.005
SWS-e-6'	10/10/2013	6'	<1.0	1.2	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SWS-e-10'	10/10/2013	10'	1,500	880	470	<2.5	<2.5	17	16	100

mg/kg = milligrams per kilogram (equivalent to parts per million)
MDL = method detection limit
TPH = total petroleum hydrocarbons MTBE = methyl butyl tertiary ethyl
TPH-g = TPH as gasoline " < " = less than
TPH-d = TPH as diesel " * " = with silica gel cleanup
TPH-mo = TPH as motor oil " - " = not available
BTEX/MTBE data from October 2013 analyzed using EPA Method 8260B
Soil Sample was over-excavated during source removal activities

Table 3
Soil Sample Analytical Data
VOCs

AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	PCE (mg/kg)	n-Butyl-benzene (mg/kg)	Naphthalene (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg) EPA Method SW8260B	sec-Butyl benzene (mg/kg)	n-Propyl benzene (mg/kg)	Isopropyl-benzene (mg/kg)	4-Isopropyl toluene (mg/kg)	Remaining VOCs (mg/kg)
AEI-11-3'	7/26/2011	3	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<MDL
AEI-12-3'	7/26/2011	3	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<MDL
AEI-13-3'	7/26/2011	3	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<MDL
AEI-27-3'	1/17/2012	3	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<MDL
October 2013 Excavation Activities												
NWW-11-10'	10/2/2013	10	<0.005	0.020	0.025	0.14	0.036	<0.005	<0.005	<0.005	<0.005	<MDL
SE Corner-10'	10/2/2013	10	<0.05	1.3	1.2	7.8	2.2	<0.5	1.2	<0.5	<0.5	<MDL
WW-1-9'	10/2/2013	9	<0.50	15	19	110	30	<5.0	17	5.7	5.1	<MDL
NWALL-6'	10/2/2013	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
NWALL-10'	10/2/2013	10	<0.50	8.3	6.4	54	16	<5.0	11	<5.0	<5.0	<MDL
NBOT-12.5	10/2/2013	12.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SBOT-10	10/2/2013	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWALL-9'	10/2/2013	9	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWWALL-10'	10/2/2013	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
NEWALL-10'	10/2/2013	10	<0.50	9.3	10	74	22	<5.0	14	<5.0	<5.0	<MDL
N Wall2-10'	10/4/2013	10	<5.0	9.1	12	66	20	<5.0	9.8	<5.0	<5.0	<MDL
NE Wall2-10'	10/4/2013	10	<20	37	59	270	85	<20	45	<20	<20	<MDL
NE Wall2-6'	10/4/2013	6	0.045	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
EBE-12'	10/10/2013	12	<0.005	<0.005	<0.005	0.0096	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWN-e-3'	10/10/2013	3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWN-e-6'	10/10/2013	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWN-e-10'	10/10/2013	10	<1.0	7.2	9.7	38	13	1.1	3.0	<1.0	<1.0	<MDL
SWS-e-3'	10/10/2013	3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWS-e-6'	10/10/2013	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWS-e-10'	10/10/2013	10	<2.5	17	22	91	28	2.7	11	2.9	4.8	<MDL

mg/kg = milligrams per kilogram (equivalent to parts per million)

MDL = method detection limit

PCE = tetrachloroethene

VOCs = volatile organic compounds

"<" = less than

Soil Sample was over-excavated during source removal activities

Table 4**Soil Sample Analytical Data
Fuel Oxygenates, and PCBs**

AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	Fuel Oxygenates^ (mg/kg) EPA Method SW8260B	All other target PCBs (mg/kg) EPA Method SW8082
GP1-11.5	4/29/2008	11.5	<MDL	-
GP1-15	4/29/2008	15	<MDL	-
GP2-11	4/29/2008	11	<MDL	-
GP2-13.5	4/29/2008	13.5	<MDL	-
GP3-6.75	4/29/2008	6.75	<MDL	-
GP3-11.5	4/29/2008	11.5	<MDL	-
GP4-11.5	4/29/2008	11.5	<MDL	-
GP4-14.5	4/29/2008	14.5	<MDL	-
GP5-11.5	4/29/2008	11.5	<MDL	-
GP5-19	4/29/2008	19	<MDL	-
GP6-11	4/29/2008	11	<MDL	-
GP7-8	4/30/2008	8	<MDL	-
GP7-19.5	4/30/2008	19.5	<MDL	-
GP8-8.5	5/1/2008	8.5	<MDL	-
GP8-19.5	5/1/2008	19.5	<MDL	-
GP9-7.5	5/1/2008	7.5	<MDL	-
GP9-11.25	5/1/2008	11.25	<MDL	-
GP10-7.5	4/30/2008	7.5	<MDL	-
GP10-19.5	4/30/2008	19.5	<MDL	-
GP11-6	4/30/2008	6	<MDL	-
GP11-15.5	4/30/2008	15.5	<MDL	-
GP11-18	4/30/2008	18	<MDL	-
GP12-7.5	4/30/2008	7.5	<MDL	-
GP12-11	4/30/2008	11	<MDL	-
GP12-15.5	4/30/2008	15.5	<MDL	-
GP13-7.25	4/30/2008	7.25	<MDL	-
GP13-11	4/30/2008	11	<MDL	-
GP13-14	4/30/2008	14	<MDL	-
GP14-7.5	4/30/2008	7.5	<MDL	-
GP14-11	4/30/2008	11	<MDL	-
GP15-7.5	4/30/2008	7.5	<MDL	-
GP16-7.5	5/1/2008	7.5	<MDL	-
GP16-10.5	5/1/2008	10.5	<MDL	-
GP17-7.5	5/1/2008	7.5	<MDL	-
GP17-11.5	5/1/2008	11.5	<MDL	-

Table 4
Soil Sample Analytical Data
Fuel Oxygenates, and PCBs

AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	Fuel Oxygenates [^] (mg/kg) EPA Method SW8260B	All other target PCBs (mg/kg) EPA Method SW8082
GP18-7.5	5/1/2008	7.5	<MDL	-
GP18-10	5/1/2008	10	<MDL	-
GP19-7	5/1/2008	7	<MDL	-
GP20-8	5/1/2008	8	<MDL	-
GP21-7.5	5/2/2008	7.5	<MDL	-
GP21-15.5	5/2/2008	15.5	<MDL	-
GP21-19.5	5/2/2008	19.5	<MDL	-
GP22-10.5	5/2/2008	10.5	<MDL	-
GP22-15.5	5/2/2008	15.5	<MDL	-
GP23-7.5	5/2/2008	7.5	<MDL	-
GP23-11.5	5/2/2008	11.5	<MDL	-
GP23-16	5/2/2008	16	<MDL	-
GP24-8.5	5/2/2008	8.5	<MDL	-
GP24-19.5	5/2/2008	19.5	<MDL	-
AEI-3-10'	7/25/2011	10	-	<1.0
AEI-4-10'	7/25/2011	10	-	<0.25
AEI-6-10'	7/25/2011	10	-	<0.05
AEI-7-11'	7/25/2011	11	-	<0.50
AEI-8-11'	7/25/2011	11	-	<0.05

mg/kg = milligrams per kilogram (equivalent to parts per million)

MDL = method detection limit

PCBs = polychlorinated biphenyls

"<" = less than

"-" = not available

"^" = fuel oxygenates tert-amyl methyl ether (TAME), t-butyl alcohol (TBA), 1,2-dibromomethane (EDB), 1,2-dichloroethane (1,2-DCA), diisopropyl ether (DIPE), methanol, ethanol, ethyl tert-butyl ether (ETBE), methyl tert-butyl ether (MTBE), and 1,2-Dichloroethane (EDC)

Table 5
Soil Sample Analytical Data
Metals

AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	Cd mg/kg	Cr (total)* mg/kg	Pb mg/kg EPA Method SW6010B	Ni mg/kg	Zn mg/kg
AEI-11-3'	7/26/2011	3	<1.5	60	<5.0	24	16
AEI-12-3'	7/26/2011	3	<1.5	31	<5.0	15	10
AEI-13-3'	7/26/2011	3	<1.5	29	<5.0	14	9.7
*AEI-27-3'	1/17/2012	3	<0.25	38	140	17	140

Notes:

mg/kg = milligrams per kilogram

"-" = not available

Cd = Cadmium

Cr = Chromium

Pb = Lead

Ni = Nickel

Zn = Zinc

*AEI-27-3' = Antimony - 1.2 mg/kg, Arsenic - 4.0 mg/kg, Barium - 130 mg/kg, Cobalt - 3.7 mg/kg, Copper - 18 mg/kg, Mercury - 0.32 mg/kg and Vanadium - 28 mg/kg by CAM 17 EPA Method SW3050B.

Table 6

Groundwater Analytical Data - Grab Samples
 TPH and MBTEX
 AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	TPH-g (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L) EPA Method SW8021B/8015Bm	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
HP-1	4/23/1993	<50	-	-	-	<0.5	<0.5	<0.5	<0.5
HP-2	4/23/1993	<50	-	-	-	<0.5	<0.5	<0.5	<0.5
EB3-WSIA	10/15/1993	120,000	-	-	-	9,600	20,000	3,400	14,000
EB5-WSIA	10/15/1993	83,000	-	-	-	3,900	15,000	3,100	13,000
EB8-WS1	1/21/1997	25,000	-	-	<80	2,600	3,200	780	3,600
EB10-WS1	1/21/1997	81,000	-	-	<370	13,000	12,000	3,300	8,000
EB11-WS1	1/21/1997	49,000	-	-	<180	6,900	6,000	2,100	4,600
EB12-WS1	1/21/1997	38,000	-	-	110	1,400	1,400	1,800	7,400
P1-WS1	1/21/1997	74,000	-	-	<78	1,100	5,800	3,800	18,000
P2-WS1	1/21/1997	6,800	-	-	<10	2,200	290	310	560
P3-WS1	1/21/1997	220	-	-	<5.0	1.9	17	10	49
GP1W	4/29/2008	70,000	-	-	<500	6,800	6,600	2,300	12,000
GP2W	4/29/2008	910	-	-	<5.0	0.69	2.9	30	64
GP3W	4/29/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5
GP4W	4/29/2008	46,000	-	-	<500	570	3,200	1,500	7,500
GP5W	4/29/2008	12,000	-	-	<60	140	480	270	1,100
GP6W	4/29/2008	22,000	-	-	<170	920	1,600	900	3,500
GP7W	4/30/2008	22,000	-	-	<180	2,600	320	810	2,600
GP8W	5/1/2008	140,000	-	-	<650	9,000	20,000	4,300	21,000
GP9W	5/1/2008	550	-	-	<5.0	53	0.52	2.1	25
GP10W	4/30/2008	11,000	-	-	<100	1,900	490	480	770
GP11W	4/30/2008	42,000	-	-	<452	1,900	4,200	1,700	7,600
GP12W	4/30/2008	61,000	-	-	<500	4,500	11,000	1,700	7,700

Table 6

Groundwater Analytical Data - Grab Samples
 TPH and MBTEX
 AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	TPH-q (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L) EPA Method SW8021B/8015Bm	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
GP13W	4/30/2008	6,200	-	-	<10	220	53	150	440
GP14W	4/30/2008	300	-	-	<5.0	46	1.9	19	11
GP15W	4/30/2008	<50	-	-	<5.0	<0.5	0.69	<0.5	1.1
GP16W	5/1/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5
GP17W	5/1/2008	<50	-	-	<5.0	<0.5	1.7	<0.5	2
GP18W	5/1/2008	<50	-	-	<5.0	<0.5	2.1	0.79	4
GP19W	5/1/2008	85	-	-	<5.0	<0.5	0.80	<0.5	<0.5
GP20W	5/1/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5
GP21W	5/2/2008	9,400	-	-	<50	560	1,400	260	1,300
GP22W	5/2/2008	3,900	-	-	<25	36	160	120	610
GP23W	5/2/2008	16,000	-	-	<90	830	1,900	540	2,600
GP24W	5/2/2008	110,000	-	-	<450	6,500	4,200	3,100	13,000
AEI-3-W	7/25/2011	11,000	12,000	29,000	<50	1,100	1,900	210	860
AEI-4-W	7/25/2011	200,000	25,000	19,000	<500	21,000	30,000	3,600	16,000
AEI-5-W	7/25/2011	<50	<50	<250	-	-	-	-	-
AEI-6-W	7/25/2011	18,000	120,000	300,000	<50	<5.0	7.7	<5.0	28
AEI-7-W	7/25/2011	280	11,000	28,000	-	-	-	-	-
AEI-8-W	7/25/2011	<50	1,600	3,800	-	-	-	-	-
AEI-20	1/17/2012	130,000	-	-	<500	1,200	2,200	4,400	20,000
AEI-21	1/17/2012	110,000	-	-	<500	160	520	1,200	3,300
AEI-22	1/17/2012	61,000	-	-	<500	790	4,400	1,500	7,200
AEI-23	1/17/2012	9,000	8,400	1,500	<50	<5.0	16	12	<5.0
AEI-24	1/17/2012	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5
AEI-25	1/17/2012	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5
AEI-26	1/17/2012	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5
AEI-27	1/17/2012	<50	<100	<500	<5.0	<0.5	<0.5	<0.5	<0.5
AEI-28	1/17/2012	16,000	4,500	<250	<100	160	690	540	2,500

µg/L = micrograms per liter
 TPH = total petroleum hydrocarbons
 TPH-q = TPH as gasoline
 TPH-d = TPH as diesel
 TPH-mo = TPH as motor oil
 MTBE = methyl tertiary butyl ether
 *** = with silica gel cleanup
 "-" = not available
 "<" = less than
 MDL = method detection limit

Table 7
Groundwater Analytical Data - Grab Samples
VOCs, Fuel Oxygenates, and PCBs
 AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	1,4-Dioxane (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L) EPA Method SW8260B	MTBE (µg/L)	Fuel Oxygenates^ (µg/L)	All Target VOCs (µg/L)
GP1W	4/29/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP2W	4/29/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP3W	4/29/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP4W	4/29/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP5W	4/29/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP6W	4/29/2008	-	24	<5.0	<5.0	<5.0	<MDL	-
GP7W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP8W	5/1/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP9W	5/1/2008	-	7.7	<0.5	1.1	1.2	<MDL	-
GP10W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP11W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP12W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP13W	4/30/2008	-	8.9	<0.5	<0.5	<0.5	<MDL	-
GP14W	4/30/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP15W	4/30/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP16W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP17W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP18W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP19W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP20W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-

Table 7
Groundwater Analytical Data - Grab Samples
VOCs, Fuel Oxygenates, and PCBs
 AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	1,4-Dioxane (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L) EPA Method SW8260B	MTBE (µg/L)	Fuel Oxygenates^ (µg/L)	All Target VOCs (µg/L)
GP21W	5/2/2008	-	<2.0	0.65	<0.5	<0.5	<MDL	-
GP22W	5/2/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP23W	5/2/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP24W	5/2/2008	-	75	<5.0	<5.0	<5.0	<MDL	-
AEI-27	1/17/2012	-	-	-	-	-	-	<MDL

mg/kg = milligrams per kilogram (equivalent to parts per million)

MDL = method detection limit

VOCs = volatile organic compounds

TBA = t-butyl alcohol

EDB = 1,2-dibromomethane

EDC = 1,2-dichloroethane

MTBE = methyl tert-butyl ether

"-" = not available

"<" = less than

"^" = fuel oxygenates tert-amyl methyl ether (TAME),
 1,2-dichloroethane (1,2-DCA), diisopropyl ether (DIPE), methanol,
 ethanol, and ethyl tert-butyl ether (ETBE)

Table 8

Groundwater Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	1/21/1987		-	-	21,020	1,148	8,627	1,792	6,012	-	-
	1/11/1989		-	-	1,400	74	10	13	5.0	-	-
	7/12/1989		-	-	1,200	470	49	45	33	-	-
	4/9/1991		-	-	850	260	10	15	12	-	-
	7/14/1992		-	-	13,000	2,300	1,200	1,200	1,200	-	-
	10/7/1992		-	-	3,600	1,600	80	120	120	-	-
	1/11/1993		-	-	1,200	410	16	23	19	-	-
	4/23/1993	a	-	-	2,200	720	180	82	150	-	-
	7/8/1993	a	-	-	3,200	1,200	110	97	100	-	-
	10/15/1993	a	-	-	3,700	1,400	43	94	36	-	-
	1/25/1994	a	-	-	1,600	680	16	41	35	-	-
	4/28/1994	a	-	-	6,100	1,900	380	250	340	-	-
	7/27/1994	a	-	-	6,000	1,800	510	220	450	-	-
	10/27/1994	a	-	-	3,000	1,100	79	82	87	-	-
	1/26/1995	a	-	-	1,600	660	100	82	87	-	-
	4/13/1995	a	-	-	3,800	1,200	270	120	260	-	-
	7/21/1995	a	-	-	5,200	1,500	450	190	400	-	-
	10/25/1995	a	-	-	5,900	1,800	450	210	400	-	-
	1/21/1997	a	-	-	3,100	1,100	87	160	180	<7.3	-
	11/12/1998	a	-	-	1,000	280	3	3.3	7.9	<30	-
	1/16/2001	a	-	-	4,700	1,20	18	150	49	<5	-
	6/27/2002	a	-	-	5,900	230	7.7	<5	1,500	<5	-
	11/18/2002	a	-	-	3,100	890	12	310	28	<2.5	-
	2/20/2003	d	-	-	260	100	0.72	<0.5	<0.5	<0.5	-
	6/11/2003	a	-	-	3,100	480	6.7	220	420	<2.5	-
	4/3/2008	a	-	-	2,700	280	21	130	230	<1.0	<0.5
	6/23/2011	a	-	-	610	100	6.2	46	77	<2.5	-
	12/6/2011	a	-	-	900	160	<5.0	68	76	<5.0	-
	1/24/2012	a	-	-	190	25	<1.0	1.4	4.6	<1.0	-
	5/18/2012	f	210	<250	2,600	200	51	93	610	<5.0	-
7/11/2012	a	700	<250	2,700	190	8.1	100	230	<5.0	-	
11/16/2012	c	140	<250	370	71	<1.7	<1.7	<1.7	<1.7	-	
2/27/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	
5/1/2013		<50	<250	<50	3.1	<0.5	<0.5	<0.5	<0.5	-	
10/24/2013	a,g	230	<250	520	39	<1.0	29	5.2	<1.0	-	

Table 8

Groundwater Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			(µg/L)	(µg/L)	by EPA Methods 8020, 8021B, or 8260B (µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-2	1/21/1987		-	-	5,018	386	1,981	285	1,432	-	-
	1/11/1989		-	-	10,000	3,000	410	240	190	-	-
	7/12/1989		-	-	7,600	2,700	540	250	320	-	-
	4/9/1991		-	-	4,900	910	210	130	200	-	-
	7/14/1992		-	-	13,000	4,400	1,500	610	1,100	-	-
	10/7/1992		-	-	11,000	5,200	1,500	500	1,200	-	-
	1/11/1993		-	-	17,000	940	1,100	480	930	-	-
	4/23/1993	a	-	-	52,000	13,000	8,400	1,700	5,300	-	-
	7/8/1993	a	-	-	6,400	2,500	470	280	530	-	-
	10/15/1993	a	-	-	17,000	3,900	870	500	940	-	-
	1/25/1994	a	-	-	16,000	5,400	1,140	640	1,500	-	-
	4/28/1994	a	-	-	15,000	4,000	910	480	1,200	-	-
	7/27/1994	a	-	-	18,000	6,000	760	630	1,600	-	-
	10/27/1994	a	-	-	9,500	2,700	230	320	640	-	-
	1/26/1995	a	-	-	5,900	1,900	290	230	500	-	-
	4/13/1995	a	-	-	10,000	3,300	620	360	930	-	-
	7/21/1995	a	-	-	9,900	3,300	320	390	830	-	-
	10/25/1995	a	-	-	13,000	4,900	400	580	990	-	-
	1/21/1997	a	-	-	7,600	2,600	310	330	660	<20	-
	11/12/1998	a	-	-	31,000	11,000	750	1,500	2,300	<900	-
	1/16/2001	a	-	-	23,000	8,200	260	1,000	820	<30	-
	6/27/2002	a	-	-	39,000	7,000	1,800	690	4,000	<5	-
	11/18/2002	a	-	-	15,000	5,700	76	1,000	150	<12	-
	2/20/2003	a	-	-	26,000	6,300	1,100	1,300	1,900	<5.0	-
	6/11/2003	a	-	-	37,000	7,100	2,300	2,000	3,600	<25	-
	4/3/2008	a	-	-	4,100	760	96	250	130	<2.5	<0.5
	6/23/2011	a	-	-	6,500	2,100	210.0	560	310	<50	-
	12/6/2011	a	-	-	4,800	1,600	<50	260	<50	<50	-
	1/24/2012	a	-	-	2,500	100	22.0	<5.0	410	<5.0	-
	5/18/2012	f	68	<250	140	14	2.8	2.9	12	<0.5	-
7/11/2012	a	270	<250	930	170	<5.0	24	9.3	<5.0	-	
11/16/2012	c	200	<250	340	15	1.4	5.4	2.1	<0.5	-	
2/27/2013	a	<50	<250	53	1.8	<0.5	<0.5	1.4	<0.5	-	
5/1/2013	a,c	190	<250	280	2.2	<0.5	5.6	5.6	<0.5	-	
10/24/2013	a,g	380	<250	480	5.0	<0.5	2.8	1.3	<0.5	-	

Table 8

Groundwater Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			(µg/L)	(µg/L)	by EPA Methods 8020, 8021B, or 8260B (µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-3	1/21/1987		-	-	10,287	1,428	3,281	610	2,761	-	-
	1/11/1989		-	-	5,300	1,800	340	150	160	-	-
	7/12/1989		-	-	7,800	3,100	900	300	480	-	-
	4/9/1991		-	-	9,400	1,400	730	200	510	-	-
	7/14/1992		-	-	17,000	3,500	390	390	260	-	-
	10/7/1992		-	-	9,200	4,300	470	390	610	-	-
	1/11/1993		-	-	2,000	740	29	58	28	-	-
	4/23/1993	a	-	-	6,500	2,600	280	260	190	-	-
	7/8/1993	a	-	-	5,200	2,100	260	250	180	-	-
	10/15/1993	a	-	-	11,000	3,500	580	430	370	-	-
	1/25/1994	a	-	-	6,200	2,500	270	160	28	-	-
	4/28/1994	a	-	-	5,300	1,700	190	210	180	-	-
	7/27/1994	a	-	-	5,900	2,000	360	260	330	-	-
	10/27/1994	a	-	-	8,000	2,200	580	260	170	-	-
	1/26/1995	a	-	-	3,700	1,200	150	150	190	-	-
	4/13/1995	a	-	-	4,000	1,400	200	180	210	-	-
	7/21/1995	a	-	-	5,700	2,000	280	270	280	-	-
	10/25/1995	a	-	-	11,000	3,500	1,100	460	680	-	-
	1/21/1997	a	-	-	2,200	860	63	71	80	<5.0	-
	11/12/1998	d	-	-	180	44	0.51	<0.5	0.92	<20	-
	1/16/2001	a	-	-	64	11	0.77	<0.5	<0.5	<5.0	-
	6/27/2002		-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/18/2002	a	-	-	110	21	1	<0.5	<0.5	<0.5	-
	2/20/2003		-	-	<50	2.5	<0.5	<0.5	<0.5	<0.5	-
	6/11/2003		-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	4/3/2008	a	-	-	7,600	2,400	58	250	170	<5.0	<0.5
	6/23/2011	a	-	-	1,300	560	21	86	150	<12	-
	12/6/2011	a	-	-	1,800	620	28	22	46	<17	-
	1/24/2012	a	-	-	3,700	1,200	68	34	130	<25	-
	5/18/2012	f	<50	<250	75	5.3	<0.5	<0.5	1.6	<0.5	-
7/11/2012	a	<50	<250	78	1.4	0.66	<0.5	5.5	<0.5	-	
11/16/2012		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	
2/27/2013	g	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	
5/1/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	
8/2/2013		-	-	-	<2.5	<2.5	<2.5	<2.5	<2.5	-	
10/24/2013	a,g	100	<250	100	4.2	<1.2	<1.2	<1.2	<1.2	-	

Table 8

Groundwater Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-4	4/28/1994	b,c	-	-	190	3.8	2.9	2.1	3.1	-	-
	7/27/1994	a	-	-	180	15	9.2	7.6	28	-	-
	10/27/1994	a	-	-	130	8.6	6.6	4.5	17	-	-
	1/26/1995		-	-	110	6.5	1.2	1.8	11	-	-
	4/13/1995		-	-	82	3.9	<0.5	<0.5	2.5	-	-
	7/21/1995		-	-	130	8.8	1.3	4.5	7.6	-	-
	10/25/1995		-	-	95	6.6	1.7	4.3	7	-	-
	4/3/2008		-	-	130	1.6	<0.5	0.89	0.85	<0.5	<0.5
	6/23/2011	a	-	-	53	2.7	<0.5	1.0	1.7	<0.5	-
	5/23/2012	f	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/11/2012	g	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/16/2012	c	360	<250	440	3.4	<0.5	1.2	2.1	<0.5	-
	2/27/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013		<50	<250	<50	1.8	<0.5	<0.5	<0.5	<0.5	-
	8/8/2013	g	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
10/24/2013	g	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	
MW-5	4/28/1994	a	-	-	30,000	4,000	3,000	810	3,500	-	-
	7/27/1994	a	-	-	9,300	2,000	800	290	940	-	-
	10/27/1994	a	-	-	15,000	2,700	1,300	420	1,100	-	-
	1/26/1995	a	-	-	7,900	2,100	680	240	860	-	-
	4/13/1995	a	-	-	7,900	2,400	580	340	630	-	-
	7/21/1995	a	-	-	11,000	3,400	760	610	1,200	-	-
	10/25/1995	a	-	-	13,000	2,900	830	570	1,100	-	-
	1/21/1997	a	-	-	2,600	750	65	1,860	280	<5.0	-
	11/12/1998		-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-
	1/16/2001		-	-	<50	11	<0.5	<0.5	0.82	<5.0	-
	6/27/2002		-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/18/2002	a	-	-	130	17	3.8	2.1	16	<0.5	-
	2/20/2003		-	-	<50	5.6	0.51	<0.5	0.68	<0.5	-
	6/11/2003	a	-	-	170	48	<0.5	<0.5	1.4	<0.5	-
	4/3/2008	a	-	-	31,000	490	3,400	1,600	5,300	<10	<0.5
	6/23/2011	a	-	-	82	5.1	<0.5	12.0	8.4	<0.5	-
	5/18/2012	f	<50	<250	120	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/11/2012	g	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/16/2012	c	450	<250	580	27	1.7	6.7	7.1	<0.5	-
	2/27/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
5/1/2013	a	<50	<250	64	3.4	<0.5	<0.5	<0.5	<0.5	-	
8/8/2013	g	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	
10/24/2013	a,g	<50	<250	130	5.2	<0.5	0.73	1.9	<0.5	-	

Table 8

Groundwater Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DPE-1	12/6/2011	a	-	-	9,200	1,800	570	460	1,100	<50	-
	1/24/2012	a	-	-	3,200	170	58	<5.0	620	<5.0	-
	5/18/2012	f	280	<250	540	49	<1.0	<1.0	17	<1.0	-
	7/11/2012	a	860	<250	2,300	240	15	98	88	<5.0	-
	11/16/2012	c	360	<250	580	3.3	<0.5	2.2	2.8	<0.5	-
	2/27/2013	a,c	110	<250	270	1.4	<0.5	0.53	5.3	<0.5	-
	5/1/2013	a,c	74	<250	330	0.90	<0.5	1.9	10	<0.5	-
	8/8/2013	g	-	-	-	18	<5.0	35	39	<5.0	-
	10/24/2013	a,g	530	<250	610	6.1	0.78	3.6	3.5	<0.5	-
DPE-2	12/6/2011	a	-	-	22,000	2,100	3,300	650	3,300	<100	-
	1/24/2012	a	-	-	1,100	44	26	11	150	<2.5	-
	5/18/2012	f	<50	<250	220	33	3.2	<0.5	30	<0.5	-
	7/11/2012	a	400	<250	2,600	300	12	45	390	<10	-
	11/16/2012		<50	<250	<50	3.4	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013	h	99	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013	a,c	57	<250	180	37	1.3	3.1	3.2	<0.5	-
	8/8/2013	g	-	-	-	360	<5.0	30	11	<5.0	-
			Well Decommissioned Prior to Excavation - October 2013								
DPE-3	12/6/2011	a	-	-	6,400	550	560	180	1,000	<17	-
	1/24/2012	a	-	-	5,500	290	240	44	1,000	<5.0	-
	5/18/2012	f	260	<250	1,100	78	37	11	89	<1.7	-
	7/11/2012	a	720	<250	2,400	330	19	10	130	<10	-
		Well Decommissioned Prior to Excavation - 2012									
DPE-4	1/24/2012	a	-	-	730	66	6.0	7.1	83	2.5	-
	5/18/2012	f	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/11/2012		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/16/2012		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013		<50	<250	<50	0.63	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013	a,h	53	<250	210	19	<0.5	<0.5	<0.5	<0.5	-
	8/2/2013		-	-	-	12	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	a	76	<250	170	4.4	<0.5	<0.5	0.53	<0.5	-
DPE-5	11/16/2012	h	560	1,400	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013	a,c,h	1,200	2,600	3,900	440	370	120	570	<10	-
	5/1/2013	Well not sampled due to the presence of free product (Thickness of 0.17')									
	8/2/2013	Well not sampled due to the presence of free product (Thickness of 0.09')									
		Well Decommissioned Prior to Excavation - October 2013									
DPE-6	1/24/2012	a	-	-	64*	<0.5	<0.5	<0.5	3.2	<0.5	-
	5/18/2012	f	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/11/2012	g	<50	<250	<50	0.93	<0.5	<0.5	<0.5	<0.5	-
	11/16/2012		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013	h	160	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013	i	1,200	1,100	<50	0.58	<0.5	<0.5	<0.5	<0.5	-
	8/2/2013		-	-	-	0.53	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-

Table 8

Groundwater Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DPE-8	11/16/2012	c	460	<250	630	13	<0.5	1.1	19	<0.5	-
	2/27/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013	a,c	92	<250	140	8.0	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	a	<50	<250	63	<0.5	<0.5	<0.5	<0.5	<0.5	-
DPE-9	1/24/2012	a	<50	<250	4,400	160	390	93	1,100	<5.0	-
	7/11/2012	a	680	<250	1,300	47	3.1	4.0	100	<1.7	-
	11/16/2012	c	470	<250	530	4.7	<0.5	0.78	2.3	<0.5	-
	2/27/2013	b	2,200	<250	3,300	5.5	<0.5	5.7	<0.5	16	-
	5/1/2013	a,c	1,300	<250	1,700	5.4	<0.5	5.6	11	<0.5	-
	8/2/2013		-	-	-	3.9	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	g	<50	<250	<50	0.58	<0.5	<0.5	<0.5	<0.5	-
DPE-10	5/18/2012	f	420	<250	1,700	150	<5.0	<5.0	<5.0	160	-
	7/11/2012	a	160	<250	360	40	<1.0	<1.0	<1.0	<1.0	-
	11/16/2012		<50	<250	79	4.9	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013	a	660	<250	820	5.3	<0.5	6.0	<0.5	4.4	-
	5/1/2013	a,c	2,600	<250	3,700	56	<1.7	95	82	<1.7	-
	8/2/2013		-	-	-	8.2	<0.5	<0.5	<0.5	<0.5	-
10/24/2013	a,g	57	<250	97	2.2	<0.5	<0.5	<0.5	<0.5	-	
DPE-11	5/18/2012	f	260	<250	930	6.4	4.6	4.6	160	<1.2	-
	7/11/2012	a	1,600	<250	2,400	16	<1.0	14	57	<1.0	-
	11/16/2012	c	540	<250	860	5.3	<0.5	0.81	1.2	<0.5	-
	2/27/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	a,g	340	<250	490	4.7	<0.5	2.9	0.80	<0.5	-
ESL		100	100	100	1.0	40	30	20	5.0	2.5	

TPH-g= total petroleum hydrocarbons as gasoline

TPH-d= total petroleum hydrocarbons as diesel

TPH-mo= total petroleum hydrocarbons as motor oil

BTEX= Benzene, Toluene, Ethylbenzene, Xylenes

MTBE = Methyl tertiary butyl ether

"-" = Not analyzed or data not available

µg/L = micrograms per liter (ppb)

ESL = Environmental Screening Levels, Table F-1a, Groundwater, Potential Drinking Water, San Francisco Regional Water Quality Control Board, Revised December 2013

a = Laboratory note indicates the unmodified or weakly modified gasoline is significant.

b = Laboratory note indicates heavier gasoline range compounds are significant (aged gas?).

c = Laboratory note indicates gasoline range compounds are significant with no recognizable pattern.

d = Laboratory note indicates that lighter gasoline range compounds (the most mobile fraction) are significant.

e = Laboratory note indicates that one to a few isolated non-targeted peaks are present.

f = Laboratory note indicates that low surrogate due to matrix interference.

g = Surrogate recovery exceeds the control limits due to dilution / matrix interference / coelution / presence of surrogate compound in the sample

h = Laboratory note indicates that diesel & oil range compounds are significant

i = Laboratory note indicates that aged diesel is significant

* Total petroleum hydrocarbons as diesel = <50; Total petroleum hydrocarbons as motor oil = <250

Table 9

Groundwater Analytical Data (VOCs) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample I.D.	Date	Notes	TAME	t-Butyl alcohol (TBA)	EDB	1,2-DCA	DIPE	Ethanol	ETBE	2-Butanone	n-Butyl benzene	sec-Butyl benzene	Isopropylbenzene	cis-1,2-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	Naphthalene	n-Propyl benzene	Methanol	PCE	TCE	Chloroform	Other VOCs	
			by EPA Methods 8020, 8021B, or 8260B (µg/L)																					
MW-1	1/16/2001	a	<5.0	<25	<5.0	<5.0	<5.0	-	<5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6/27/2002	a	<5.0	<50	<5.0	<5.0	<5.0	-	<5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/18/2002	a	-	-	<2.5	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/20/2003	d	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6/11/2003	a	-	-	<2.5	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/3/2008	a	<1.0	<4.0	<1.0	<1.0	<1.0	<100	<1.0	-	-	-	-	-	-	-	-	-	<1,000	-	-	-	-	
	6/23/2011	a	<2.5	<10	-	-	<2.5	-	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/6/2011	a	<5.0	<20	-	-	<5.0	-	<5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/24/2013			<1.0	<4.0	<1.0	<1.0	<1.0	-	<1.0	<4.0	<1.0	1.3	3.6	<1.0	6.4	29	19	3.3	-	<1.0	<1.0	<1.0	<RL
	MW-2	1/16/2001	a	<30	<150	<30	<30	<30	-	<30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/27/2002		a	<5.0	<5.0	<5.0	6.1	<5.0	-	<5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11/18/2002		a	-	-	<12	<12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2/20/2003		a	-	-	<5.0	5.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6/11/2003		a	-	-	<25	<25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4/3/2008		a	<2.5	<10	<2.5	<2.5	<2.5	<250	<2.5	-	-	-	-	-	-	-	-	-	<2,500	-	-	-	-	
6/23/2011		a	<50	<200	-	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/6/2011		a	<50	<200	-	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10/24/2013				<0.5	13	<0.5	<0.5	<0.5	-	<0.5	<2.0	1.7	2.4	1.1	<0.5	1.9	4.6	24	0.75	-	<0.5	5.5	<0.5	<RL ^h
MW-3		1/16/2001	a	<1.0	<5.0	<1.0	1.4	<1.0	-	<1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/27/2002			<0.5	<5.0	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/18/2002	a	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/20/2003			-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6/11/2003			-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/3/2008	a	<5.0	<20	<5.0	<5.0	<5.0	<500	<5.0	-	-	-	-	-	-	-	-	-	<5,000	-	-	-	-	
	6/23/2011	a	<12	<50	-	-	<12	-	<12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/6/2011	a	<17	<67	-	-	<17	-	<17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/2/2013	g	<2.5	22	<2.5	<2.5	<2.5	-	<2.5	<10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	-	<2.5	63	<2.5	<RL
	10/24/2013			<1.2	5.9	<1.2	<1.2	<1.2	-	<1.2	<5.0	<1.2	<1.2	<1.2	1.3	<1.2	1.4	24	<1.2	-	<1.2	64	<1.2	<RL

Table 9
Groundwater Analytical Data (VOCs) - Monitoring Wells
 AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample I.D.	Date	Notes	TAME	t-Butyl alcohol (TBA)	EDB	1,2-DCA	DIPE	Ethanol	ETBE	2-Butanone	n-Butyl benzene	sec-Butyl benzene	Isopropylbenzene	cis-1,2-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	Naphthalene	n-Propyl benzene	Methanol	PCE	TCE	Chloroform	Other VOCs		
			by EPA Methods 8020, 8021B, or 8260B (µg/L)																						
MW-4	4/3/2008		<0.5	<2.0	<0.5	<0.5	<0.5	<50	<0.5	-	-	-	-	-	-	-	-	-	<500	-	-	-	-		
	6/23/2011	a	<0.5	<2.0	-	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	8/8/2013	g	<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	5.4	13	<0.5	<RL		
	10/24/2013		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	13	18	9.8	<RL	
MW-5	1/16/2001		<1.0	<5.0	<1.0	<1.0	<1.0	-	<1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	6/27/2002		<0.5	<5.0	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	11/18/2002	a	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	2/20/2003		-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	6/11/2003	a	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	4/3/2008	a	<10	<40	<10	<10	<10	<1,000	<10	-	-	-	-	-	-	-	-	-	<10,000	-	-	-	-		
	6/23/2011	a	<0.5	<2.0	-	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	8/8/2013	g	<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	8.3	16	7.4	<RL	
	10/24/2013		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	0.59	<0.5	<0.5	8.0	1.3	<0.5	-	6.7	16	<0.5	<RL	
DPE-1	12/6/2011	a	<50	<200	-	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	8/8/2013	g	<5.0	<20	<5.0	<5.0	<5.0	-	<5.0	<20	<5.0	<5.0	12	<5.0	<5.0	140	22	20	-	<5.0	<5.0	<5.0	<RL		
	10/24/2013		<0.5	9.5	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	1.9	3.5	<0.5	<0.5	14	<0.5	4.2	-	<0.5	<0.5	<0.5	<RL ⁱ		
DPE-2	12/6/2011	a	<100	<400	-	-	<100	-	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	8/8/2013	g	<5.0	41	<5.0	<5.0	<5.0	<5.0	-	<20	<5.0	<5.0	8.9	<5.0	<5.0	87	8.7	6.6	-	11	<5.0	<5.0	<RL		
Well Decommissioned Prior to Excavation - October 2013																									
DPE-3	12/6/2011	a	<17	<67	-	-	<17	-	<17	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Well Decommissioned Prior to Excavation - 2012																								
DPE-4	8/2/2013	g	<0.5	13	<0.5	2.6	<0.5	-	<0.5	2.7	0.59	3.7	0.55	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	2.3	<0.5	<RL		
	10/24/2013		<0.5	16	<0.5	4.1	<0.5	-	<0.5	<2.0	<0.5	2.1	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	1.7	<0.5	<RL ^j		
DPE-5	5/1/2013	Well not sampled due to the presence of free product (Thickness of 0.17')																							
	8/2/2013	Well not sampled due to the presence of free product (Thickness of 0.09')																							
	Well Decommissioned Prior to Excavation - October 2013																								
DPE-6	8/2/2013	g	<0.5	2.3	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.5	1.6	<0.5	<RL		
	10/24/2013		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	0.73	<0.5	<0.5	<0.5	<0.5	-	1.3	2.5	<0.5	<RL ^k		

Table 9
Groundwater Analytical Data (VOCs) - Monitoring Wells
 AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample I.D.	Date	Notes	TAME	t-Butyl alcohol (TBA)	EDB	1,2-DCA	DIPE	Ethanol	ETBE	2-Butanone	n-Butyl benzene	sec-Butyl benzene	Isopropylbenzene	cis-1,2-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	Naphthalene	n-Propyl benzene	Methanol	PCE	TCE	Chloroform	Other VOCs
			by EPA Methods 8020, 8021B, or 8260B (µg/L)																				
DPE-8	10/24/2013		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	0.9	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	-	<0.5	0.67	<0.5	<RL
DPE-9	8/2/2013	g	<0.5	2.6	<0.5	<0.5	<0.5	-	<0.5	<2.0	0.62	1.2	<0.5	4.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	21	<0.5	<RL
	10/24/2013		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	7.0	<0.5	<0.5	<0.5	<0.5	-	<0.5	31	<0.5	<RL
DPE-10	8/2/2013	g	<0.5	4.6	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	0.86	<0.5	1.5	1.0	<0.5	<0.5	<0.5	-	<0.5	26	<0.5	<RL
	10/24/2013		<0.5	2.3	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	2.5	0.63	<0.5	<0.5	<0.5	-	<0.5	29	<0.5	<RL
DPE-11	10/24/2013		<0.5	10	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	5.1	3.6	0.73	<0.5	1.5	<0.5	1.9	-	<0.5	5.6	<0.5	<RL ^l
ESL			NE	12	0.05	0.5	NE	NE	NE	NE	NE	NE	NE	6.0	NE	NE	6.1	NE	NE	5.0	5.0	80	--

VOCs= Volatile Organic Compounds
 PCE= Tetrachloroethene
 TCE= Trichloroethene
 TAME = Tertiary amyl methyl ether
 TBA = Tertiary butyl alcohol
 EDB = 1,2-Dibromoethane
 1,2-DCA = 1,2-Dichloroethane
 DIPE = Diisopropyl ether
 ETBE = Ethyl tertiary butyl ether

µg/L = micrograms per liter (ppb)
 <RL = Below the analytical laboratory reporting limit
 "-" = Not analyzed or data not available
12 = Values in bold exceed the ESL
 NE = No ESL value established

a = Laboratory note indicates the unmodified or weakly modified gasoline is significant.
 d = Laboratory note indicates that lighter gasoline range compounds (the most mobile fraction) are significant.
 g = Surrogate recovery exceeds the control limits due to dilution / matrix interference / coelution / presence of surrogate compound in the sample
 h = 4-Isopropyl toluene detected at 0.89 ug/L and 1,3,5-Trimethylbenzene detected at 1.7 ug/L.
 i = 4-Isopropyl toluene detected at 1.4 ug/L. j = 4-Isopropyl toluene detected at 0.60 ug/L.
 k = 1,1-Dichloroethane detected at 0.77 ug/L. l = 4-Isopropyl toluene detected at 1.5 ug/L.

ESL = Environmental Screening Levels, Table F-1a, Groundwater, Potential Drinking Water, San Francisco Regional Water Quality Control Board, Revised December 2013

Table 10
Soil Vapor Analytical Data

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Isopropyl Alcohol*	Helium**	TPH-g & TVH	Benzene	Toluene	Ethyl-benzene	Xylenes	TBA	MTBE	TAME	DIPE	ETBE	PCE	TCE	Naphthalene (TO-17)	4-Ethyltoluene	4-Methyl-2-Pentanone	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	Tetrahydrofuran	1,3,5-Trimethylbenzene	Other VOCs	CO2	Methane	Nitrogen	Oxygen
		(µg/m ³)	(%)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µL/L)	(µL/L)	(µL/L)	(µL/L)	
SV-8	8/5/2013	na	0.038	-	16	23	<8.8	42	<6.2	<7.3	<8.5	<8.5	<8.5	<14	<11	<23	<10	23	<11	12	9.5	<10	<RL	18,000	-	-	160,000
	8/21/2013	na	<0.005	-	<6.5	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	<14	<11	<11	<10	<8.3	<11	<10	<6.0	<10	<RL	-	-	-	-
	10/24/2013	na	0.12	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	5.2	<2.8	-	<2.5	<2.1	<2.8	<3.8	<1.5	<2.5	<RL	29,000	<1.2	-	130,000
SV-9	8/5/2013	na	0.30	-	<6.5	10	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	<14	<11	<6.2	<10	9.1	<11	<10	<6.0	<10	<RL	12,000	-	-	160,000
	8/21/2013	na	0.059	-	<6.5	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	<14	<11	<11	<10	<8.3	<11	<10	<6.0	<10	<RL	-	-	-	-
	10/24/2013	na	0.019	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	5.4	<2.8	-	<2.5	<2.1	<2.8	<3.8	<1.5	<2.5	<RL	7,300	<1.2	-	170,000
SV-10	8/5/2013	na	0.011	-	27	60	19	110	<6.2	<7.3	<8.5	<8.5	<8.5	720	100	<25	12	28	43	38	9.4	13	<RL ^c	6,300	-	-	170,000
	8/21/2013	<20,000	na	-	8.9	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	2,100	160	<11	<10	<8.3	57	<10	<6.0	<10	<RL ^c	-	-	-	-
SV-11	8/21/2013	na	0.013	-	7,500	4,300	5,700	17,000	<25	<29	<34	<34	<34	2,100	<44	<44	860	<33	130	1,500	<24	700	<RL ^{a,f,g}	-	-	-	-
SV-12	8/21/2013	na	0.056	-	11	19	10	47	<6.2	<7.3	<8.5	<8.5	<8.5	31	<11	<11	<10	<8.3	<11	19	18	<10	<RL ^{d,e}	-	-	-	-
	10/24/2013	na	0.072	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	40	<2.8	-	<2.5	<2.1	<2.8	<3.8	<1.5	<2.5	2.5 ^{k,h}	29,000	<1.0	-	150,000
SV-13	10/24/13	na	0.037	9,000	190	220	37	390	<31	<1.8	<2.1	<2.1	<2.1	390	5.3	-	30	<2.1	4.2	87	<1.5	69	<RL ^l	18,000	2.2	-	150,000
	11/25/13	na	1.6	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	420	3.5	-	<2.5	<2.1	<2.8	<2.5	<1.5	<2.5	0.76 ^o	41000	-	-	100,000
SV-13 DUP	10/24/13	na	0.0091	9,300	190	200	35	370	<31	<1.8	<2.1	<2.1	<2.1	360	5.3	-	29	<2.1	5.0	79	<1.5	66	<RL ⁿ	18,000	2.2	-	140,000
SV-14	10/24/13	na	0.013	2,400	30	38	9.9	32	<31	<1.8	<2.1	<2.1	<2.1	79	<2.8	-	9.0	4.8	<2.8	4.9	<1.5	5.5	<RL ^m	3,000	1.5	-	150,000
SV-15	10/24/13	na	0.038	<720	3.8	6.0	2.4	10	<31	<1.8	<2.1	<2.1	<2.1	75	<2.8	-	<2.5	3.1	<2.8	3.2	<1.5	<2.5	2.3 ^k ,2.9 ^h	8,500	<1.0	-	140,000
ESL		na	NA	2,500,000	420	1,300,000	4,900	440,000	--	47,000	--	--	--	2,100	3,000	360	--	--	22,000,000	--	--	--	na	na	na	na	na

Notes:

µg/m³ = micrograms per cubic meter (ppbv)
 * = Leak check compound
 <1.0 = Not detected above the laboratory reporting limit shown
 na = Not applicable
 - = Not analyzed
 -- = No value established
 <RL = Less than laboratory reporting limit

TPH-g = total petroleum hydrocarbons as gasoline
 TVH = Total volatile hydrocarbons -aliphatics
 TBA = tert-Butyl-alcohol
 MTBE = Methyl-tert-butyl ether
 TAME = Tert-amyl methyl ether
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tert-butyl ether

PCE = Tetrachloroethene
 TCE = Trichloroethene
 a = Hexane detected (no ESL established)
 b = Ethanol detected (no ESL established)
 c = Acetone detected below ESL
 d = Styrene detected below ESL
 e = 1,3-Butadiene detected (no ESL established)
 f = Heptane detected (no ESL established)
 g = 1,1,2,2-Tetrachloroethane detected below ESL
 h = dichlorodifluoromethane detected (no ESL established)

i = Ethyl acetate (no ESL established)
 j = 2-Hexanone (no ESL established)
 k = carbon disulfide (no ESL established)
 o = 1,2-Dibromo-3-chloropropane (no ESL established)

ESL = Environmental Screening Levels, Table E-2, San Francisco Regional Water Quality Control Board
 (Commercial/Industrial, Shallow Soil, Drinking Water Aquifer), Revised December 2013

^l = Following VOCs detected: Acetone (100), Bromomethane (9.5), Carbon Disulfide (14), Cyclohexane (110), 1,2-Dichloroethane (4.0), Ethyl Acetate (4.2), Heptane (57), Hexane (69), and Methylene chloride (3.5).

^m = Following VOCs detected: Carbon Disulfide (6.7), Chloroform (3.9), Cyclohexane (93), Hexane (24), and Styrene (3.9).

ⁿ = Following VOCs detected: Acetone (82), Bromomethane (10), Carbon Disulfide (12), Cyclohexane (110), 1,2-Dichloroethane (3.7), Ethyl Acetate (5.8), Heptane (55), Hexane (65), and Methylene chloride (3.6).

** = Leak check compound; <5% of Tracer Concentration is Acceptable; or 1% assuming a 20% atmosphere was maintained.

Soil Vapor Sample was over-excavated during source removal activities

Table 11

Groundwater Elevation Data

AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation (ft amsl*)	Depth to Water (ft)	Groundwater Elevation (ft amsl*)	
MW-1 (5 - 20 feet bgs)	Jul-89	104.76	8.93	95.83	
	Apr-91		7.59	97.17	
	Jul-92		8.72	96.04	
	Aug-92		9.09	95.67	
	Sep-92		9.25	95.51	
	Oct-92		9.34	95.42	
	Nov-92		9.21	95.55	
	Dec-92		9.26	95.50	
	Jan-93		7.81	96.95	
	Feb-93		7.32	97.44	
	Mar-93		7.20	97.56	
	Apr-93		7.31	97.45	
	May-93		8.29	96.47	
	Jul-93		8.30	96.46	
	Oct-93		9.38	95.38	
	Jan-94		8.80	95.96	
	Apr-94		8.15	96.61	
	Jul-94		8.70	96.06	
	Oct-94		9.37	95.39	
	Jan-94		7.18	97.58	
	Apr-95		6.76	98.00	
	Jan-97		7.03	97.73	
	Nov-98		8.10	96.66	
	Jan-01		7.70	97.06	
	Jun-02		7.30	97.46	
	Nov-02		8.14	96.62	
	Feb-03		6.87	97.89	
	Jun-03		7.05	97.71	
	Apr-08	25.42	7.13	18.29	
	Jun-11	25.42	7.54	17.88	
	Dec-11	25.37	8.02	17.35	
	Jan-12	25.37	8.08	17.29	
	May-12	25.37	6.87	18.50	
	Jul-12	25.37	7.34	18.03	
	Nov-12	25.37	8.23	17.14	
	Feb-13	25.37	6.55	18.82	
	May-13	25.37	7.03	18.34	
	Oct-13	25.37	9.10	16.27	
	MW-2 (5 - 20 feet bgs)	Jul-89	104.86	9.24	95.62
		Apr-91		8.01	96.85
		Jul-92		9.03	95.83
Aug-92			9.34	95.52	
Sep-92			9.46	95.40	
Oct-92			9.52	95.34	
Nov-92			9.42	95.44	
Dec-92			9.47	95.39	
Jan-93			8.25	96.61	
Feb-93			7.85	97.01	
Mar-93			7.77	97.09	
Apr-93			7.86	97.00	
May-93			8.20	96.66	
Jul-93			8.72	96.14	
Oct-93			9.64	95.22	
Jan-94			9.12	95.74	
Apr-94			8.56	96.30	
Jul-94			9.02	95.84	
Oct-94			9.59	95.27	
Jan-94			7.71	97.15	
Apr-95			7.40	97.46	
Jan-97			7.55	97.31	
Nov-98			8.49	96.37	
Jan-01			8.08	96.78	
Jun-02			7.77	97.09	
Nov-02			8.50	96.36	
Feb-03			7.38	97.48	
Jun-03			7.57	97.29	
Apr-08		25.52	7.67	17.85	
Jun-11		25.52	7.35	18.17	
Dec-11		25.48	8.41	17.07	
Jan-12		25.48	8.43	17.05	
May-12		25.48	7.41	18.07	
Jul-12		25.48	7.83	17.65	
Nov-12		25.48	8.51	16.97	
Feb-13		25.48	7.17	18.31	
May-13		25.48	7.67	17.81	
Oct-13		25.48	9.37	16.11	

Table 11

Groundwater Elevation Data

AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation (ft amsl*)	Depth to Water (ft)	Groundwater Elevation (ft amsl*)
MW-3 (5 - 20 feet bgs)	Jul-89	104.52	9.00	95.52
	Apr-91		8.06	96.46
	Jul-92		8.82	95.70
	Aug-92		9.05	95.47
	Sep-92		9.09	95.43
	Oct-92		9.15	95.37
	Nov-92		9.05	95.47
	Dec-92		9.12	95.40
	Jan-93		8.18	96.34
	Feb-93		7.98	96.54
	Mar-93		7.94	96.58
	Apr-93		8.02	96.50
	May-93		7.69	96.83
	Jul-93		8.65	95.87
	Oct-93		9.32	NC
	Jan-94		8.93	NC
	Apr-94		8.52	96.00
	Jul-94		8.86	95.66
	Oct-94		9.25	95.27
	Jan-94		7.85	96.67
	Apr-95		7.64	96.88
	Jan-97		7.75	96.77
	Nov-98		8.38	96.14
	Jan-01		8.00	96.52
	Jun-02		7.81	96.71
	Nov-02		8.37	96.15
	Feb-03		7.48	97.04
	Jun-03		7.67	96.85
	Apr-08	25.17	7.74	17.43
	Jun-11	25.17	7.50	17.67
	Dec-11	25.13	8.25	16.88
	Jan-12	25.13	8.25	16.88
	May-12	25.13	7.64	17.49
	Jul-12	25.13	7.97	17.16
	Nov-12	25.13	8.40	16.73
	Feb-13	25.13	7.49	17.64
	May-13	25.13	8.07	17.06
	Aug-13	25.13	8.68	16.45
	Oct-13	25.13	9.25	15.88
	MW-4 (8 - 23 feet bgs)	Apr-94	104.86	9.29
Jul-94			9.55	95.31
Oct-94			9.83	95.03
Jan-94			8.88	95.98
Apr-95			8.80	96.06
Jan-97			-	-
Nov-98			-	-
Jan-01			-	-
Jun-02			-	-
Nov-02			-	-
Feb-03			-	-
Jun-03			-	-
Apr-08		25.53	8.73	16.80
Jun-11		25.53	8.52	17.01
Dec-11		25.58	-	-
Jan-12		25.58	-	-
May-12		25.58	8.96	16.62
Jul-12		25.58	9.26	16.32
Nov-12		25.58	10.04	15.54
Feb-13		25.58	9.15	16.43
May-13	25.58	9.37	16.21	
Aug-13	25.58	9.71	15.87	
Oct-13	25.58	10.19	15.39	
MW-5 (7 - 22 feet bgs)	Apr-94	103.62	8.27	95.35
	Jul-94		8.50	95.12
	Oct-94		8.92	94.70
	Jan-95		7.61	96.01
	Apr-95		8.48	95.14
	Jan-97		6.79	96.83
	Nov-98		8.12	95.50
	Jan-01		7.67	95.95
	Jun-02		7.61	96.01
	Nov-02		8.01	95.61
	Feb-03		7.22	96.40
	Jun-03		7.43	96.19
	Apr-08	24.31	7.36	16.95
	Jun-11	24.31	7.43	16.88
	Dec-11	24.32	-	-
	Jan-12	24.32	-	-
	May-12	24.32	7.46	16.86
	Jul-12	24.32	7.76	16.56
	Nov-12	24.32	8.47	15.85
	Feb-13	24.32	7.59	16.73
May-13	24.32	7.82	16.50	
Aug-13	24.32	8.34	15.98	
Oct-13	24.32	8.76	15.56	

Table 11

Groundwater Elevation Data

AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation (ft amsl*)	Depth to Water (ft)	Groundwater Elevation (ft amsl*)
DPE-1 (7 - 15 feet bgs)	Dec-11	25.88	8.81	17.07
	Jan-12	25.88	8.78	17.10
	May-12	25.88	7.72	18.16
	Jul-12	25.88	8.13	17.75
	Nov-12	25.88	8.84	17.04
	Feb-13	25.88	7.36	18.52
	May-13	25.88	7.88	18.00
	Aug-13	25.88	8.83	17.05
	Oct-13	25.88	9.70	16.18
	DPE-2 (7 - 15 feet bgs)	Dec-11	26.22	9.29
Jan-12		26.22	7.97	18.25
May-12		26.22	7.89	18.33
Jul-12		26.22	8.26	17.96
Nov-12		26.22	9.02	17.20
Feb-13		26.22	7.50	18.72
May-13		26.22	7.97	18.25
Aug-13		26.22	8.99	17.23
DPE-3 (7 - 14 feet bgs)		Dec-11	25.27	7.92
	Jan-12	25.27	8.98	16.29
	May-12	25.27	6.75	18.52
	Jul-12	25.27	7.20	18.07
	Nov-12	Abandoned	-	-
DPE-4 (8-17 feet bgs)	Jan-12	26.06	9.11	16.95
	May-12	26.06	8.59	17.47
	Jul-12	26.06	8.84	17.22
	Nov-12	26.06	9.23	16.83
	Feb-13	26.06	8.37	17.69
	May-13	26.06	8.90	17.16
	Aug-13	26.06	9.49	16.57
	Oct-13	26.06	10.01	16.05
DPE-5 (8-18 feet bgs)	Jan-12	26.25	-	-
	Nov-12	26.25	9.94	16.31
	Feb-13	26.25	7.72	18.53
	May-13	26.25	8.19	18.06
	Aug-13	26.25	8.99	17.26
DPE-6 (8-18 feet bgs)	Jan-12	26.13	8.58	17.55
	May-12	26.13	7.43	18.70
	Jul-12	26.13	7.83	18.30
	Nov-12	26.13	8.71	17.42
	Feb-13	26.13	7.01	19.12
	May-13	26.13	7.49	18.64
	Aug-13	26.13	8.61	17.52
	Oct-13	26.13	9.66	16.47
DPE-8 (8-18 feet bgs)	Jan-12	25.36	-	-
	Nov-12	25.36	8.31	17.05
	Feb-13	25.36	6.69	18.67
	May-13	25.36	7.25	18.11
	Oct-13	25.36	9.18	16.18
DPE-9 (8-18 feet bgs)	Jan-12	25.09	8.12	16.97
	Jul-12	25.09	7.81	17.28
	Nov-12	25.09	8.38	16.71
	Feb-13	25.09	7.27	17.82
	May-13	25.09	7.75	17.34
	Aug-13	25.09	8.54	16.55
DPE-10 (8-17 feet bgs)	Oct-13	25.09	9.19	15.90
	Jan-12	25.14	-	-
	May-12	25.14	7.73	17.41
	Jul-12	25.14	8.09	17.05
	Nov-12	25.14	8.51	16.63
	Feb-13	25.14	7.64	17.50
	May-13	25.14	8.21	16.93
	Aug-13	25.14	8.79	16.35
Oct-13	25.14	9.34	15.80	
DPE-11 (8-18 feet bgs)	Jan-12	25.57	-	-
	May-12	25.57	7.90	17.67
	Jul-12	25.57	-	-
	Nov-12	25.57	8.74	16.83
	Feb-13	25.57	7.68	17.89
	May-13	25.57	7.24	18.33
	Oct-13	25.57	9.58	15.99
	Average depth to water GW elev	Dec-11		8.45
Jan-12			8.48	17.15
May-12			7.70	17.82
Jul-12			8.03	17.45
Nov-12			8.81	16.73
Feb-13			7.51	18.03
May-13			7.92	17.62

ft amsl *= feet above mean sea level. Note: Data before 2008 are based on a fictitious 100 ft datum.
 All water level depths are measured from the top of casing
 "-" = not measured
 bgs = below ground surface

APPENDIX A
PERMITS

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 09/16/2013 By jamesy

Permit Numbers: W2013-0802
Permits Valid from 09/18/2013 to 09/18/2013

Application Id: 1378513794776
Site Location: 1630 Park St.
Project Start Date: 09/18/2013
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site: Alameda

Completion Date: 09/18/2013

Applicant: AEI Consultants - Robert Robitaille
2500 Camino Diablo, Walnut Creek, CA 94597
Property Owner: John Buestad
2533 Clement Ave, Alameda, CA 94501
Client: ** same as Property Owner **
Contact: Robert Robitaille

Phone: 925-746-6000

Phone: 510-523-1925

Phone: 925-746-6048
Cell: 925-917-0156

	Total Due:	\$265.00
Receipt Number: WR2013-0358	Total Amount Paid:	\$265.00
Payer Name : Robert P. Robtaille	Paid By: MC	PAID IN FULL

Works Requesting Permits:

Well Destruction-Vapor monitoring well - 3 Wells

Driller: Environmental Control Associates - Lic #: 695970 - Method: press

Work Total: \$265.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2013-0802	09/16/2013	12/17/2013	DPE-5	10.00 in.	4.00 in.	7.50 ft	18.00 ft			
W2013-0802	09/16/2013	12/17/2013	SV-10	2.00 in.	0.25 in.	4.00 ft	5.00 ft			
W2013-0802	09/16/2013	12/17/2013	SV-11	2.00 in.	0.25 in.	5.50 ft	6.50 ft			

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days, including permit number and site map.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled,

Alameda County Public Works Agency - Water Resources Well Permit

properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

5. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

7. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

8. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

9. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

11. Vapor monitoring wells constructed with tubing shall be decommissioned by complete removal of tubing, grout seal, and fill material of sand or bentonite. Fill material may be removed by hand auger if material can be removed completely.

Vapor monitoring wells constructed with pvc pipe less than 2" shall be overdrilled to total depth.

Vapor monitoring wells constructed with 2" pvc pipe or larger may be grouted by tremie pipe (any depth) or pressure grouted (less than 30', 25 psi for 5 min).

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 10/10/2013 By jamesy

Permit Numbers: W2013-0847
Permits Valid from 10/22/2013 to 10/22/2013

Application Id: 1381268320557
Site Location: 1630 Park Street
Project Start Date: 10/22/2013
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site: Alameda

Completion Date: 10/22/2013

Applicant: AEI Consultants - Jeremy Smith
2500 Camino Diablo, Walnut Creek, CA 94597
Property Owner: John Buestad
2533 Clement Ave, Alameda, CA 94501
Client: ** same as Property Owner **

Phone: 925-746-6000 x1128

Phone: --

	Total Due:	\$397.00
Receipt Number: WR2013-0392	Total Amount Paid:	\$397.00
Payer Name : Jeremy Smith	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 1 Wells
Driller: None - Lic #: 0 - Method: other

Work Total: \$397.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2013-0847	10/10/2013	01/20/2014	DPE-2	10.00 in.	4.00 in.	4.50 ft	15.00 ft	2S/3W7N	No Records	No Records

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and

Alameda County Public Works Agency - Water Resources Well Permit

all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

6. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Remove well by excavation. Backfill the remaining hole with concrete or compacted material to match existing.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 10/16/2013 By jamesy

Permit Numbers: W2013-0872
Permits Valid from 10/25/2013 to 10/25/2013

Application Id: 1381535141022
Site Location: 1630 Park Street
Project Start Date: 10/25/2013
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site: Alameda

Completion Date: 10/25/2013

Applicant: AEI Consultants - Smith Jeremy
2500 Camino Diablo, Walnut Creek, CA 94597
Property Owner: John Buestad
2533 Clement Ave, Alameda, CA 94501
Client: ** same as Property Owner **

Phone: 925-746-6000 x1128

Phone: --

	Total Due:	\$265.00
Receipt Number: WR2013-0398	Total Amount Paid:	\$265.00
Payer Name : Jeremy Smith	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Well Construction-Vapor monitoring well-Vapor monitoring well - 3 Wells
Driller: Environmental Control Associates - Lic #: 695970 - Method: DP

Work Total: \$265.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2013-0872	10/16/2013	01/23/2014	SV-13	2.00 in.	0.25 in.	3.00 ft	6.00 ft
W2013-0872	10/16/2013	01/23/2014	SV-14	2.00 in.	0.25 in.	3.00 ft	6.00 ft
W2013-0872	10/16/2013	01/23/2014	SV-15	2.00 in.	0.25 in.	3.00 ft	6.00 ft

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
2. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days, including permit number and site map.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or

Alameda County Public Works Agency - Water Resources Well Permit

waterways or be allowed to move off the property where work is being completed.

5. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

7. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

8. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

9. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

11. Vapor monitoring wells above water level constructed with tubing maybe be backfilled with pancake-batter consistency bentonite. Minimum surface seal thickness is two inches of cement grout around well box.

Vapor monitoring wells above water level constructed with pvc pipe shall have a minimum seal depth (Neat Cement Seal) of 2 feet below ground surface (BGS). Minimum surface seal thickness is two inches of cement grout around well box. All other conditions for monitoring well construction shall apply.

APPENDIX B

QUARRY DOCUMENTATION



SYAR INDUSTRIES, INC.

2301 NAPA-VALLEJO HWY. • P.O. BOX 2540 • NAPA, CA 94558-0524
PHONE: 707/252-8711 • FAX: 707/224-5932

Letter of Transmittal

Date: December 16, 2013
Attention: Andrew
Contract No.: _____
Project: 1620 Park Road
Alameda, California

To: A E I CONSULTANTS
ALL ENVIRONMENTAL INC
2500 CAMINO DIABLO SUITE 100
WALNUT CREEK CA 94803

THE FOLLOWING ITEMS ARE BEING TRANSMITTED VIA: EMAIL FAX

WE ARE SENDING YOU SUBMITTAL(S) ADDITIONAL SUBMITTAL(S) REVISED/REPLACEMENT SUBMITTAL(S)

SUBMITTAL NO.	PLANT	DESCRIPTION
131222	Lake Herman	3/4" Class 2 Aggregate Base
131223	Lake Herman	3/4" Drain Rock

THESE ARE TRANSMITTED as checked below:

For approval As requested Corrected as noted

REMARKS:

Debby Pannell
Quality Control Coordinator

Copies To:
File Folder LH068361



SYAR INDUSTRIES, INC.

2301 NAPA-VALLEJO HWY. • P.O. BOX 2540 • NAPA, CA 94558-0524

PHONE: 707/252-8711 • FAX: 707/224-5932

December 16, 2013

A E I CONSULTANTS
ALL ENVIRONMENTAL INC
2500 CAMINO DIABLO SUITE 100
WALNUT CREEK CA 94803

Syar Submittal No. 131222

Re: Certificate of Compliance
Syar Product Code: 1305 - 3/4" Class 2 Aggregate Base

Project: 1620 Park Road
Alameda, California

To whom it may concern:

This letter will certify that the 3/4" (19-mm) Class 2 Aggregate Base Material, to be supplied to the above mentioned project from our Lake Herman Plant, will comply with Section No. 26 in the July 1999, May 2006 & 2010 Caltrans Standard Specifications as well as the July 2002 Standard Specifications for Construction of Local Streets and Roads. *This material is 100% crushed virgin quarried rock produced at the Lake Herman Quarry in Vallejo, California.*

3/4" (19-mm) Class 2 Aggregate Base

<u>English Sieve Size</u>	<u>Metric Sieve Size</u>	<u>Percent Passing</u>	<u>Specified Requirements</u>
1"	25-mm	100	100
3/4"	19-mm	98	90-100
#4	4.75-mm	46	35-60
#30	600-µm	15	10-30
#200	75-µm	6.3	2-9

<u>Test Name</u>	<u>California Test Number</u>	<u>Test Results</u>	<u>Specification Requirements</u>
Resistance (R-Value)	301	85	78 Min.
Sand Equivalent	217	43	25 Min.
Durability Index	229	44	35 Min.

If we may be of any further assistance please contact us.

Sincerely,

Mike Herlax
Quality Control Manager

MH:dp

cc: Lake Herman SH & Lab
File No. LH068361



SYAR INDUSTRIES, INC.

2301 NAPA-VALLEJO HWY. • P.O. BOX 2540 • NAPA, CA 94558-0524

PHONE: 707/252-8711 • FAX: 707/224-5932

December 16, 2013

A E I CONSULTANTS
ALL ENVIRONMENTAL INC
2500 CAMINO DIABLO SUITE 100
WALNUT CREEK CA 94803

Syar Submittal No. 131223

Re: Certificate of Compliance
Syar Product Code: 1735 - 3/4" Crushed Drain Rock

Project: 1620 Park Road
Alameda, California

To whom it may concern:

This letter will certify that the 3/4" Crushed Drain Rock-Straight, to be supplied to the above mentioned project from our Lake Herman Plant, has the following typical gradation. ***This material is 100% crushed virgin quarried rock produced at the Lake Herman Quarry in Vallejo, California.***

3/4" Crushed Drain Rock

<u>English Sieve Size</u>	<u>Metric Sieve Size</u>	<u>Percent Passing</u>
1"	25-mm	100
3/4"	19-mm	86
1/2"	12.5-mm	10
3/8"	9.5-mm	2
#4	4.75-mm	1
#8	2.36-mm	1

If we may be of any further assistance, please contact us.

Sincerely,

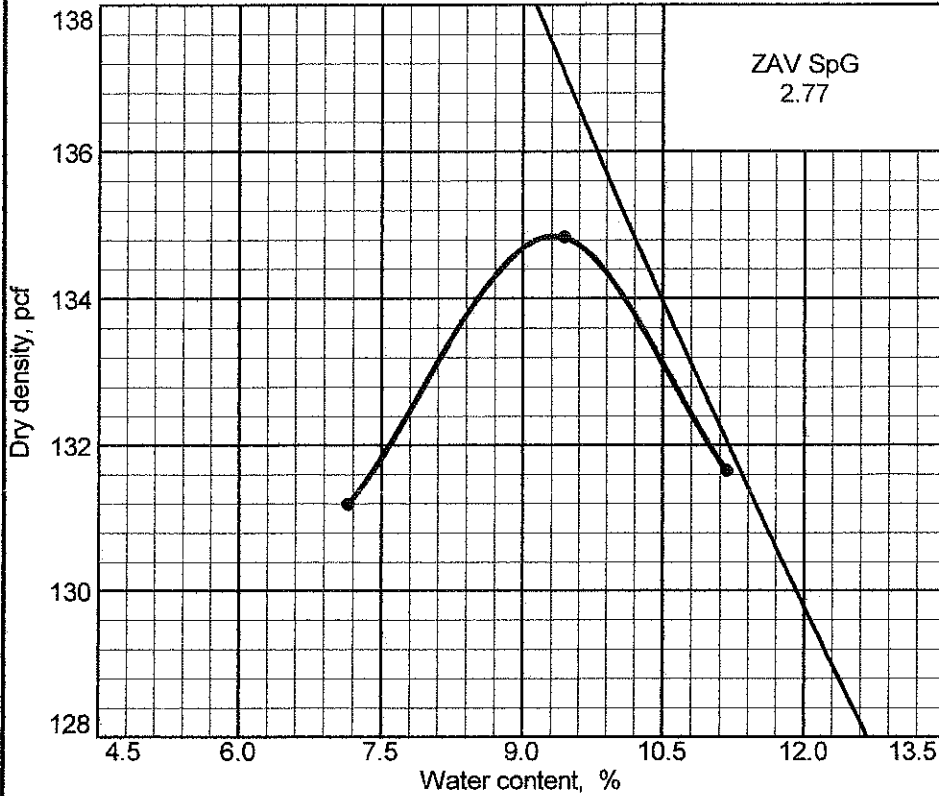
Mike Herlax
Quality Control Manager

MH:dp

cc: Lake Herman SH & Lab (3/4" Drain Rock-STRAIGHT)
File No. LH068361

APPENDIX C
COMPACTION TESTING

COMPACTION TEST REPORT



Curve No.
1

Test Specification:
ASTM D 1557-91 Procedure C Modified

Hammer Wt.: 10 lb.

Hammer Drop: 18 in.

Number of Layers: five

Blows per Layer: 56

Mold Size: .075 cu.ft.

Test Performed on Material
Passing 3/4 in. Sieve

Soil Data

NM _____ **Sp.G.** _____

LL _____ **PI** _____

%>3/4 in. 3.8 **%<#200** _____

USCS _____ **AASHTO** _____

TESTING DATA

	1	2	3	4	5	6
WM + WS	7657.0	7895.0	7854.0			
WM	2875.0	2875.0	2875.0			
WW + T #1	5203.00	5430.00	5387.00			
WD + T #1	4884.00	4997.00	4887.00			
TARE #1	423.00	411.00	412.00			
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	7.2	9.4	11.2			
DRY DENSITY	131.2	134.8	131.6			

TEST RESULTS

Maximum dry density = 134.9 pcf

Optimum moisture = 9.3 %

Material Description

dark gray 3/4" class 2 AB

Project No. 11126 **Client:** AEI #298931

Project: 1630 Park st., Alameda

Remarks:

CLIENT/JPM, 10-7-13, Not enough material for 4 points

● **Location:** import, Syar Lake Herman

COMPACTION TEST REPORT

CONSTRUCTION MATERIALS TESTING INC.

Plate

CMT, INC. DAILY FIELD REPORT

JOB NO. or P.O. NO. 11124
PAGE 1 OF 1

AEI CONST.

PROJECT NAME <u>1630 Park St</u>		CLIENT OR OWNER <u>AEI</u>		DAILY FIELD REPORT SEQUENCE NO.	
GENERAL LOCATION OF WORK <u>Alameda</u>		OWNER OR CLIENT'S REPRESENTATIVE <u>AEI</u>		DATE <u>10-8-13</u>	DAY OF WEEK <u>Tue.</u>
GENERAL CONTRACTOR <u>AEI CONST.</u>		GRADING CONTRACTOR <u>AEI</u>		PROJECT ENGINEER	
TYPE OF WORK <u>Soils Compaction</u>		CONTRACTOR'S SUPERINTENDENT OR FOREMAN <u>Dusty Ray</u>		SUPERVISOR	
SOURCE AND DESCRIPTION OF FILL MATERIAL <u>STAR LAKE HERMAN</u>		(REPORT OR SITE)		WEATHER <u>SUNNY</u>	TECHNICIAN <u>A. De Hara</u>
DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING <u>WALKER NEASON RT5C2 ^{sheep} FOOT ROLLER, VOLVO 5045 ^{sheep} FOOT ROLLER, MAKASA ^{sheep} FOOT ROLLER</u>					

VOLVO 5045
 MAKASA
 FOOT ROLLER
 WALKER NEASON
 RT5C2

TEST NUMBER	TEST LOCATION	ELEV (feet)	FIELD TESTING			REFERENCE CURVE			COMMENTS
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OPTIMUM MOISTURE CONTENT %	
	<u>N.W</u>	<u>3' BFG</u>							<u>9.5% REQUIRED</u>
<u>1</u>	<u>side</u>	<u>↓</u>	<u>144.2</u>	<u>13.5</u>	<u>110</u>	<u>1</u>	<u>134.9</u>	<u>9.3</u>	<u>PASSED</u>
<u>2</u>	<u>N.E. side</u>	<u>↓</u>	<u>151.8</u>	<u>12.4</u>	<u>112</u>				
<u>3</u>	<u>S. side</u>	<u>↓</u>	<u>143.8</u>	<u>11.3</u>	<u>106</u>				
<u>4</u>	<u>N.W side</u>	<u>18' BFG</u>	<u>146.0</u>	<u>11.9</u>	<u>108</u>				
<u>5</u>	<u>N.E. side</u>	<u>↓</u>	<u>148.1</u>	<u>11.6</u>	<u>110</u>				
<u>6</u>	<u>South side</u>	<u>↓</u>	<u>146.1</u>	<u>11.4</u>	<u>108</u>				

NOTES (Describe work completed during the day, any problems and their solutions)

ARRIVED ON SITE AT THE REQUEST OF AEI CONST. TO PERFORM SOILS COMPACTION TESTS LOCATED @ OPEN PIT AREA APPROX 41'W x 71'L.

NUCLEAR CPN MC-10R GAUGE # 9466 WAS USED & STANDARDIZED BEFORE SOILS COMPACTION TEST

<u>Old Standard</u>	<u>New Standard</u>
<u>DS = 9962</u>	<u>DS = 27266 / 10002</u>
<u>MS = 27575</u>	<u>MS = 10002 / 27266</u>

* NOTE: TEST RESULTS ABOVE

* CONTAMINATED SOIL HAD BEEN dug OUT FROM AREA TESTED WHICH WAS backfilled w/ 3/4" class 2 AB

TIME BILLED	<u>9 HRS.</u>	NO. OF VISITS		TYPED REPORT	<input type="checkbox"/> YES <input type="checkbox"/> NO	CONTINUED	<input type="checkbox"/>
RECEIVED BY		COPY GIVEN TO					

CMT, INC.

DAILY FIELD REPORT

JOB NO. or P O NO.

11126

PAGE

1 OF

AEI CONSULTANTS

PROJECT NAME 1630 Park St.	CLIENT OR OWNER AEI	DAILY FIELD REPORT SEQUENCE NO.	
GENERAL LOCATION OF WORK Alameda	OWNER OR CLIENT'S REPRESENTATIVE AEI	DATE 10-11-13	DAY OF WEEK FRI.
GENERAL CONTRACTOR AEI	GRADING CONTRACTOR AEI	PROJECT ENGINEER	
TYPE OF WORK AB COMPACTION TESTING	CONTRACTOR'S SUPERINTENDENT OR FOREMAN DUSTY ROY	SUPERVISOR	
SOURCE AND DESCRIPTION OF FILL MATERIAL	(IMPORT OR SITE)	WEATHER	TECHNICIAN A. DeHoe

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING

TEST NUMBER	TEST LOCATION	ELEV (feet)	FIELD TESTING			REFERENCE CURVE			COMMENTS
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OPTIMUM MOISTURE CONTENT %	
	6' x 41' x 71' AREA	FG							95% required
1	N.W. side	↓	146.1	7.7	108	1	134.9	93	Passed
2	N.E. side	↓	144.9	7.2	107	↓	↓	↓	↓
3	South side 6' x 7' x 15' AREA	↓	142.9	7.7	105	↓	↓	↓	↓
4	@ CENTER OF PIT	3' BFG	144.7	7.7	106	↓	↓	↓	↓
5	@ CENTER OF PIT	FG	154.1	7.0	114	↓	↓	↓	↓

7
8
9
10
11

NOTES (Describe work completed during the day, any problems and their solutions)

ARRIVED ON SITE AT THE REQUEST OF AEI CONSULTANTS TO PERFORM AB COMPACTION TESTING LOCATED AT 2 OPEN PIT AREAS WHERE CONTAMINATED SOILS WERE REMOVED.

NUCLEON PROXBY 3411B SEC. #2622 WAS STANDARDIZED & USED FOR TESTING.

Old Standard	New Standard
MS = 605	MS = 601
DS = 1643	DS = 1638

NOTE: TEST RESULTS ABOVE

TIME BILLED 8 HRS.	NO. OF VISITS	TYPED REPORT <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTINUED <input type="checkbox"/>
RECEIVED BY	COPY GIVEN TO		

APPENDIX D
WASTE MANIFESTS

↑	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number <i>CA0002745943</i>	2. Page 1 of <i>1</i>	3. Emergency Response Phone <i>800-578-8728</i>	4. Manifest Tracking Number <i>005032469 FLE</i>			
	5. Generator's Name and Mailing Address <i>2533 Clement Ave Alameda CA. 94501</i>		Generator's Site Address (if different than mailing address) <i>Attn: John BUSTAD 1630 PARK ST Alameda CA. 94501</i>					
6. Transporter 1 Company Name <i>EXCEL ENVIRONMENTAL SERVICES</i>		U.S. EPA ID Number <i>CA00020060</i>						
7. Transporter 2 Company Name		U.S. EPA ID Number						
8. Designated Facility Name and Site Address <i>TRANSFORMER OIL TRANSFER 100 CLARK RD. BLDG. 11 RIVERVIEW, CA 94567</i>		U.S. EPA ID Number <i>CA000190816</i>						
Facility's Phone: <i>925-822-8151</i>								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
		<i>1. NON-FLAMMABLE HAZARDOUS WASTE LIQUID (USED OIL & WATER)</i>	<i>001</i>	<i>TT</i>	<i>1825</i>	<i>g</i>	<i>221</i>	
		<i>2.</i>						
		<i>3.</i>						
	<i>4.</i>							
14. Special Handling Instructions and Additional Information <i>WEAR GLOVES EPG# 171</i>								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offorer's Printed/Typed Name <i>Andrew Wallace</i>		Signature <i>[Signature]</i>		Month <i>10</i>	Day <i>10</i>	Year <i>13</i>		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
TRANSPORTER INT'L	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name <i>T. Missett</i>		Signature <i>[Signature]</i>		Month <i>10</i>	Day <i>10</i>	Year <i>13</i>	
	Transporter 2 Printed/Typed Name		Signature		Month	Day	Year	
IGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	18b. Alternate Facility (or Generator) U.S. EPA ID Number							
	Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
<i>H 141</i>		<i>2.</i>		<i>3.</i>		<i>4.</i>		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name		Signature		Month	Day	Year		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAL0002745942		2. Page 1 of 1		3. Emergency Response Phone 800-370-6338		4. Manifest Tracking Number 005032462 FLE											
		5. Generator's Name and Mailing Address Foley Street Investments LLC 2533 Clement Ave Alameda CA 94501 Generator's Phone: 510-381-3527						Generator's Site Address (if different than mailing address) 1630 PARK ST. Alameda CA. 94501											
GENERATOR		6. Transporter 1 Company Name EXCEL ENVIRONMENTAL SERVICES						U.S. EPA ID Number CAL000288990											
		7. Transporter 2 Company Name						U.S. EPA ID Number											
GENERATOR		8. Designated Facility Name and Site Address RYE BARK OIL TRANSFER RIVE CLANS RD. BLDG. 11 RYE BARK, CA 94567						U.S. EPA ID Number CAL000190816											
		Facility's Phone: 708-688-0181																	
GENERATOR		9a. HM				9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity		12. Unit Wt./Vol.		13. Waste Codes			
				No.		Type													
		1.		NON-FLAM HAZARDOUS WASTE LIQUID (USED OIL & WATER)				001		TT		1635		Q		221			
		2.																	
		3.																	
4.																			
GENERATOR		14. Special Handling Instructions and Additional Information WEAR GLOVES EPG# 171																	
		15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.																	
GENERATOR		Generator's/Offeror's Printed/Typed Name Andrew Wallace						Signature <i>[Signature]</i>						Month 10		Day 2		Year 13	
		16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____																	
TRANSPORTER		17. Transporter Acknowledgment of Receipt of Materials																	
		Transporter 1 Printed/Typed Name Tim Ingersoll						Signature <i>[Signature]</i>						Month 10		Day 2		Year 13	
TRANSPORTER		Transporter 2 Printed/Typed Name						Signature						Month		Day		Year	
		18. Discrepancy																	
TRANSPORTER		18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection																	
		Manifest Reference Number: _____																	
TRANSPORTER		18b. Alternate Facility (or Generator)						U.S. EPA ID Number						Month		Day		Year	
		Facility's Phone: _____																	
TRANSPORTER		18c. Signature of Alternate Facility (or Generator)						Signature						Month		Day		Year	
		19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)																	
TRANSPORTER		1. H141				2.				3.				4.					
		20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a																	
TRANSPORTER		Printed/Typed Name						Signature						Month		Day		Year	

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone Call 707-548-5858	4. Waste Tracking Number BTT 0125
	5. Generator's Name and Mailing Address Foley Street Investments LLC 2533 Clement Ave Alameda, CA 94501 510 523 1925		Generator's Site Address (if different than mailing address) 1630 Park Street Alameda, CA 94501	
6. Transporter 1 Company Name SINGH TRUCKING		U.S. EPA ID Number		
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address Hay Road Landfill 6426 Hay Road Vacaville, CA 95687 (707) 678-4718		U.S. EPA ID Number N/A		
9. Waste Shipping Name and Description Non-Hazardous Waste/Gold		10. Containers No. Type		11. Total Quantity
				12. Unit Wt./Vol.
1.		601 DT		16 Y
2.				
3.				
4.				
13. Special Handling Instructions and Additional Information Approval # 54262				
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
Generator's/Offeror's Printed/Typed Name Andrew Wallace on behalf of generator		Signature [Signature]		Month Day Year 10 01 13
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter Signature (for exports only): _____ Date leaving U.S.: _____				
16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name RANJIT SINGH		Signature [Signature]		Month Day Year 10 01 13
Transporter 2 Printed/Typed Name		Signature		Month Day Year
17. Discrepancy				
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
Manifest Reference Number: _____				
17b. Alternate Facility (or Generator)		U.S. EPA ID Number		
Facility's Phone:				
17c. Signature of Alternate Facility (or Generator)		Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name		Signature		Month Day Year

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number

N/A

2. Page 1 of

1

3. Emergency Response Phone

Call 707-548-5830

4. Waste Tracking Number

BT1 0127

5. Generator's Name and Mailing Address

Poley Street Investments LLC
2533 Clement Ave
Alameda, CA 94501 510-523-1925

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

1630 Park Street
Alameda, CA 94501

Generator's Phone:

6. Transporter 1 Company Name

S SINGHANI

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road
Vacaville, CA 95667 (707) 678-4712

U.S. EPA ID Number

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. Non-Hazardous Waste (Sol)

001

DT

10

Y

13. Special Handling Instructions and Additional Information

Approval # 5426.2

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

Generator's/Offeror's Printed/Typed Name

On behalf of
Andrew Wallace generator

Signature

AW

Month Day Year

10 01 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

SUN JLE T JRG

Signature

Sun JLE T JRG

Month Day Year

10 01 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone Car 707-548-5839	4. Waste Tracking Number BTI 0123
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5. Generator's Name and Mailing Address Polvy Street Investments LLC 2533 Clement Ave Alameda, CA 94501 510-523-1925	Generator's Site Address (if different than mailing address) 1630 Park Street Alameda, CA 94501
---	---

6. Transporter 1 Company Name CHANEL TRK	U.S. EPA ID Number
---	--------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address Hay Road Landfill 6426 Hay Road Vacaville, CA 95687 (707) 678-4718	U.S. EPA ID Number N/A
--	---------------------------

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

13. Special Handling Instructions and Additional Information Approval # 54262 #1175
--

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

Generator's/Offeror's Printed/Typed Name Andrew Wallace On behalf of generator	Signature [Signature]	Month Day Year 10/01/13
---	--------------------------	----------------------------

15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
--	---

16. Transporter Acknowledgment of Receipt of Materials		
Transporter 1 Printed/Typed Name BALDWIN CHANEL	Signature [Signature]	Month Day Year 10/01/13
Transporter 2 Printed/Typed Name	Signature	Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
Manifest Reference Number:

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

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

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

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Call 707-548-5859

4. Waste Tracking Number
BTR 0109

5. Generator's Name and Mailing Address: **Foley Street Investment LLC**
3533 Clement Ave
Alameda, CA 94501 510-523-1925
Generator's Site Address (if different than mailing address): **1630 Park Street**
Alameda, CA 94501
Generator's Phone: **Alameda, CA 94501 510-523-1925**

6. Transporter 1 Company Name: **CHAUNAL TRK** U.S. EPA ID Number
7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address: **Hay Road Landfill**
6426 Hay Road
Vacaville, CA 95687 (707) 678-4718 U.S. EPA ID Number: **N/A**
Facility's Phone: **N/A**

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

13. Special Handling Instructions and Additional Information
Approval # 54262 #175

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

Generator's/Offeror's Printed/Typed Name: **On behalf of Andrew Wallace generator** Signature: *[Signature]* Month: **10** Day: **11** Year: **13**

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

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only):
Transporter 1 Printed/Typed Name: **BAL JI CHAUNAL** Signature: *[Signature]* Month: **10** Day: **21** Year: **13**

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

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number:

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

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

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

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Carr 707-548-5259

4. Waste Tracking Number
BTJ 0105

5. Generator's Name and Mailing Address

Foley Street Investments LLC
2533 Clement Ave
Alameda, CA 94501 510-523-1925

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

1650 Park Street
Alameda, CA 94501

Generator's Phone:

6. Transporter 1 Company Name

IA Trucking

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road
Vacaville, CA 95687 (707) 678-4718

U.S. EPA ID Number

Facility's Phone:

N/A

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit WL/Vol.

No.

Type

1.

Non-Hazardous Waste Soil

001

DT

18

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 5425.2

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

Generator's/Offoror's Printed/Typed Name

Signature

Month Day Year

Andrew Wallace On behalf of generator

[Signature]

11/1/13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Alfonso Valencia

[Signature]

10/1/13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Carr 707-548-9859

4. Waste Tracking Number
E77 0106

5. Generator's Name and Mailing Address

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

Friday Street Investments LLC
2531 Clement Ave

1530 Park Street
Alameda, CA 94501

Generator's Phone: Alameda, CA 94501 510 523 1925

6. Transporter 1 Company Name

Bradley Tanks Inc

U.S. EPA ID Number

N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill

U.S. EPA ID Number

6426 Hay Road

Yacaville, CA 95687 (707) 878-4718

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. Non-Hazardous Waste Soil

001

DT

16

Y

13. Special Handling Instructions and Additional Information

Appendix # 5426.2

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

Generator's/Offoror's Printed/Typed Name

On behalf of
Andrew Wallace generator

Signature

AW

Month Day Year

10 1 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

JOE D'AMICO

Signature

[Signature]

Month Day Year

10 1 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

1

3. Emergency Response Phone

Call 707-548-5858

4. Waste Tracking Number

EPI 0164

5. Generator's Name and Mailing Address

Polay Street Investments LLC
2533 Clement Ave

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

1630 Park Street
Alameda, CA 94501

Generator's Phone:

Alameda, CA 94501 510 523 1925

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road

U.S. EPA ID Number

Facility's Phone:

Hayville, CA 95897 (707) 678-8718

N/A

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit WL/Vol.

No.

Type

1.

Non-Hazardous Waste Soil

600

DT

18

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 5426.2

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

Generator's/Offoror's Printed/Typed Name

On behalf of
Andrew Wallace generator

Signature

AWall

Month Day Year

10 1 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: *N/A*
 2. Page 1 of: *1*
 3. Emergency Response Phone: *Car 907-548-5259*
 4. Waste Tracking Number: *BT1010*

5. Generator's Name and Mailing Address: *Foley Street Investments LLC*
3535 Clement Ave
 Generator's Site Address (if different than mailing address): *1650 Park Street*
 Generator's Phone: *Alameda CA 94501 510-423-1925* | *Alameda CA 94501*

6. Transporter 1 Company Name: *S. LONGM TROUSERS* U.S. EPA ID Number: _____

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

8. Designated Facility Name and Site Address: *Hay Road Landfill*
6425 Hay Road
Vacaville, CA 95687 (707) 678-4715
 Facility's Phone: _____ U.S. EPA ID Number: *N/A*

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit WL/Vol.	
	No.	Type			
1. <i>Non-Hazardous Waste Soil</i>	<i>001</i>	<i>DT</i>	<i>18</i>	<i>Y</i>	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: *Approval # 5426.2*

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

Generator's/Offeror's Printed/Typed Name: *On behalf of Andrew Wallace generator* Signature: *[Signature]* Month: *10* Day: *1* Year: *13*

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

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: *J WALL* Signature: *[Signature]* Month: *10* Day: *1* Year: *13*
 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy
 17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: _____

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

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

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

GENERATOR
INT'L
TRANSPORTER
SIGNATED FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number:

N/A

2. Page 1 of

3. Emergency Response Phone

Cell 707-546-0850

4. Waste Tracking Number

DT1 0108

5. Generator's Name and Mailing Address

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

Foley Street Investments LLC

2533 Clement Ave

1630 Park Street

Generator's Phone:

Alameda, CA 94601 510-521-1075

Alameda, CA 94601

6. Transporter 1 Company Name

CHARLIE V TRUCKING

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill

U.S. EPA ID Number

6426 Hay Road

Vacaville, CA 95687 (707) 578-4718

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. Non-Hazardous Waste Soil

001

DT

18

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 54262

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

Generator's/Offeror's Printed/Typed Name

on behalf of

Signature

Month Day Year

Andrew Wallace generator

Wall

10 1 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

CHARLIE VUONG

[Signature]

10 01 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone Carr 707-544-5859	4. Waste Tracking Number HTJ 0103	
	5. Generator's Name and Mailing Address Foley Street Investments LLC 2533 Clamnet Ave Alameda, CA 94501 510 523 1925		Generator's Site Address (if different than mailing address) 1630 Park Street Alameda, CA 94501		
6. Transporter 1 Company Name S SINGH TRN		U.S. EPA ID Number			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address Hay Road Landfill 6426 Hay Road Vacaville, CA 95687 (707) 678-4718		U.S. EPA ID Number N/A			
Facility's Phone:					
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
	1. Non-Hazardous Waste Soil	001	DT	18	7
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information Approval # 5420.2					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offeror's Printed/Typed Name Andrew Wallace on behalf of generator				Signature AW	Month Day Year 10 1 13
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name SURRET JIN 64		Signature Surret Jin		Month Day Year 10 1 13	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name				Signature	
Month Day Year					

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Call 707-548-5659

4. Waste Tracking Number
BTJ 0107

5. Generator's Name and Mailing Address

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

Foley Street Investments LLC
2533 Clement Ave

1630 Park Street

Generator's Phone:

Alameda CA 94501 510-523-1925

Alameda CA 94501

6. Transporter 1 Company Name

U.S. EPA ID Number

SINGH TRUCKING

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill

U.S. EPA ID Number

6426 Hay Road

Vacaville, CA 95687 (707) 678-4718

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1.

Non-Hazardous Waste Soil

001

DT

18

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 54262

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

Generator's/Offeror's Printed/Typed Name

on behalf of
Andree Walker generator

Signature

[Signature]

Month Day Year

10 1 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

RAV SINGH

[Signature]

10 1 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Call 900-542-5639

4. Waste Tracking Number
BJT 0121

5. Generator's Name and Mailing Address

Foley Street Investments, LLC
2533 Cicero Ave

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

1630 Park Street

Generator's Phone:

Alameda, CA 94501 510 523 1925

Alameda, CA 94501

6. Transporter 1 Company Name

Bradley Parks Inc

U.S. EPA ID Number

N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill

6426 Hay Road

Vacaville, CA 95087 (707) 678-4718

U.S. EPA ID Number

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. Non-Hazardous Waste Soil

001

DT

18

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 54262

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

Generator's/Offoror's Printed/Typed Name

On behalf of
Andrew Wallace generator

Signature

[Signature]

Month Day Year

10 01 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Joe Dominguez

Signature

[Signature]

Month Day Year

10 01 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

1

3. Emergency Response Phone

Call 707-548-5858

4. Waste Tracking Number

RTD 0102

5. Generator's Name and Mailing Address

Foley Street Investments LLC
2533 Clement Ave
Alameda, CA 94501 510 523 1925

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

1630 Park Street
Alameda, CA 94501

Generator's Phone:

6. Transporter 1 Company Name

18 Trucking

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
0425 Hay Road
Vacaville, CA 94967 (707) 678-4718

U.S. EPA ID Number

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. Non-Hazardous Waste Soil

001

DT

18

Y

13. Special Handling Instructions and Additional Information

Approval # 5426.2

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

Generator's/Offoror's Printed/Typed Name

On behalf of generator

Signature

AW

Month Day Year

10 01 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Alfonso Vanegas

Signature

AV

Month Day Year

10 1 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Call 707-548-5850

4. Waste Tracking Number
MT 0124

5. Generator's Name and Mailing Address

Poisy Street Investments LLC
2533 Clement Ave

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

1630 Park Street
Alameda, CA 94501

Generator's Phone:

Alameda, CA 94501 510 523 1925

6. Transporter 1 Company Name

SUNGL

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road

U.S. EPA ID Number

Facility's Phone:

Vacaville, CA 95687 (707) 678-4718

N/A

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1.

Non-Hazardous Waste - Soil

001

DT

16

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 54262

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

Generator's/Offeror's Printed/Typed Name

on behalf of Andrew Wallace generator

Signature

Wall

Month Day Year

10 01 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

JAN 11 7 11 AM

Signature

Jan

Month Day Year

10 11 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of 1

3. Emergency Response Phone
Cal 707-548-5850

4. Waste Tracking Number
EST 0122

5. Generator's Name and Mailing Address

Polay Street Investments LLC
2533 Clement Ave
Alameda, CA 94501 510-523-1925

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

1530 Park Street
Alameda, CA 94501

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road
Vacaville, CA 95687 (707) 676-4716

U.S. EPA ID Number

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. Non-Hazardous Waste Sol

001

DT

12

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 5426.2

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

Generator's/Offeror's Printed/Typed Name

On behalf of
Andrew Wallace
generator

Signature

Wall

Month Day Year

10 01 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Call 707-548-5859

4. Waste Tracking Number
B37 0126

5. Generator's Name and Mailing Address

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

Foley Street Investments LLC
2533 Clement Ave

1636 Park Street
Alameda, CA 94501

Generator's Phone:

Alameda, CA 94501 510-523-1825

6. Transporter 1 Company Name

CHARLIE V. TRUCKING

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road
Vacaville, CA 95667 (707) 678-4716

U.S. EPA ID Number

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. Non-Hazardous Waste Soil

001

DT

1K

Y

13. Special Handling Instructions and Additional Information

Approval # 5426.2

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

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

Andrew Wallace On behalf of generator

[Signature]

10 01 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

CHARLIE VUONG

[Signature]

10 01 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

1

3. Emergency Response Phone

Call (415) 548-5639

4. Waste Tracking Number

BTI 0129

5. Generator's Name and Mailing Address

Polay Street Investments LLC
2533 Clement Ave

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

1630 Park Street

Generator's Phone:

Alameda, CA 94501 510 523 1925

Alameda, CA 94501

6. Transporter 1 Company Name

18 Trucking

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road

U.S. EPA ID Number

Vacaville, CA 95687 (707) 678-4718

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1.

Non-Hazardous Waste Soil

601

DT

18

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 2426.2

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

Generator's/Offoror's Printed/Typed Name

On behalf of
Andrew Wallace
generator

Signature

Wall

Month Day Year

10 2 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Alberto Vazquez

Signature

AV

Month Day Year

10 2 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Call 707-548-5859

4. Waste Tracking Number
DT 0150

5. Generator's Name and Mailing Address

Foley Street Investments LLC
2533 Clement Ave

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

1630 Park Street

Generator's Phone:

Alameda, CA 94501 510-523-1925

Alameda, CA 94501

6. Transporter 1 Company Name

X G 7

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road
Yacoville, CA 95667 (707) 618-4718

U.S. EPA ID Number

N/A

Facility's Phone:

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit WL/Vol.
	No.	Type		
1. Non-Hazardous Waste Soil	600	DT	18	Y
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

Approval # 5925.2

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

Generator's/Offieror's Printed/Typed Name

On behalf of
Andrew Wallace
generator

Signature

Wall

Month Day Year

10 2 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

DAVID WINDY R

Signature

[Signature]

Month Day Year

10 2 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Call 707-544-5859

4. Waste Tracking Number
BT 0128

5. Generator's Name and Mailing Address

Foley Street Investments LLC
2533 Clement Ave

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

1630 Park Street

Generator's Phone:

Alameda, CA 94501 510-523-1925

Alameda, CA 94501

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road

U.S. EPA ID Number

Yacerville, CA 95687 (707) 678-4718

N/A

Facility's Phone:

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. Non-Hazardous Waste Soil	60	DT	18	Y	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

Approval # 54262

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

Generator's/Offoror's Printed/Typed Name

On behalf of
Andrew Wallace
generator

Signature

Wall

Month Day Year

10 2 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of 1

3. Emergency Response Phone
Call 707-548-5859

4. Waste Tracking Number
BTR 0120

5. Generator's Name and Mailing Address

Foley Street Investments LLC
2333 Clarendon Ave

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

1630 Park Street
Alameda, CA 94501

Generator's Phone:

Alameda, CA 94501 510-525-1925

6. Transporter 1 Company Name

Bains Bros

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6425 Hay Road

U.S. EPA ID Number

Vacaville, CA 94967 (707) 578-4718

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1. Non-Hazardous Waste Soil

No. Type

16 Y

13. Special Handling Instructions and Additional Information

Approval # 3426.2

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

Generator's/Offoror's Printed/Typed Name

On behalf of generator

Signature

Month Day Year

Andrew Wallace

[Signature]

10 2 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

G. Bains

[Signature]

10 2 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: *N/A* 2. Page 1 of *1* 3. Emergency Response Phone: *Call 910-348-5859* 4. Waste Tracking Number: *MTI 0119*

5. Generator's Name and Mailing Address: *Boley Street Investments LLC* Generator's Site Address (if different than mailing address): *1630 Park Street*

2535 Clement Ave *Alameda, CA 94501 510-523-1925* *Alameda, CA 94501*

6. Transporter 1 Company Name: *IS Truck* U.S. EPA ID Number: _____

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

8. Designated Facility Name and Site Address: *Hay Road Landfill* U.S. EPA ID Number: _____

6426 Hay Road *Vacaville, CA 95687 (707) 676-4719* *N/A*

Facility's Phone: _____

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. <i>Non-Hazardous Waste Soil</i>	<i>001</i>	<i>DT</i>	<i>10</i>	<i>Y</i>	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: *Approval # 5426.2*

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

Generator's/Offoror's Printed/Typed Name: *On behalf of Andrew Wallace generator* Signature: *[Signature]* Month: *10* Day: *2* Year: *13*

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

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: *HARST Truck* Signature: *[Signature]* Month: *10* Day: *2* Year: *13*

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy

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

Manifest Reference Number: _____ U.S. EPA ID Number: _____

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

Facility's Phone: _____

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

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

Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number: *N/A*
 2. Page 1 of *1*
 3. Emergency Response Phone: *Call 707-548-5855*
 4. Waste Tracking Number: *RT1018*

5. Generator's Name and Mailing Address: *Polay Street Investments LLC*
2533 Clement Ave
Alameda, CA 94501 510-523-1025
 Generator's Site Address (if different than mailing address): *1630 Park Street*
Alameda, CA 94501
 Generator's Phone: *Alameda, CA 94501 510-523-1025*

6. Transporter 1 Company Name: *J.S.D. TRC.* U.S. EPA ID Number: _____

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

8. Designated Facility Name and Site Address: *Hay Road Landfill*
6426 Hay Road
Vacaville, CA 95667 (707) 676-4718
 Facility's Phone: _____ U.S. EPA ID Number: *N/A*

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. <i>Non-Hazardous Waste Soil</i>	<i>001</i>	<i>DT</i>	<i>16</i>	<i>Y</i>	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: *Approval # 54262*

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

Generator's/Offeror's Printed/Typed Name: *On behalf of Andrew Walker generator* Signature: *[Signature]* Month: *10* Day: *2* Year: *13*

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

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: *JASPER* Signature: *[Signature]* Month: *10* Day: *2* Year: *13*

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

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

Manifest Reference Number: _____ U.S. EPA ID Number: _____

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

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

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

Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Call 707-548-5858

4. Waste Tracking Number
EPA 010

5. Generator's Name and Mailing Address: **Foley Street Investments LLC**
2333 Cherner Ave, Alameda, CA 94501 510-523-1925
Generator's Site Address (if different than mailing address): **1630 Park Street**
Alameda, CA 94501

6. Transporter 1 Company Name: **Waste Management** U.S. EPA ID Number: _____

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

8. Designated Facility Name and Site Address: **Hay Road Landfill**
6426 Hay Road, Vacaville, CA 95467 (707) 678-4718 U.S. EPA ID Number: **N/A**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non-Hazardous Waste Soil	661	DT	18	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 54262

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

Generator's/Offeror's Printed/Typed Name: **As behalf of Andrew Walker generator** Signature: *[Signature]* Month: **10** Day: **2** Year: **13**

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

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only): _____
Transporter 1 Printed/Typed Name: **Waste Management** Signature: *[Signature]* Month: **10** Day: **1** Year: **13**
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

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

17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____

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

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

Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

GENERATOR	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone Call 707-546-5859	4. Waste Tracking Number BTT 0117		
	5. Generator's Name and Mailing Address Poly Street Investments LLC 2333 Clement Ave Alameda CA 94501 510-523-1925				Generator's Site Address (if different than mailing address) 1630 Park Street Alameda CA 94501		
	6. Transporter 1 Company Name IB Trucking				U.S. EPA ID Number		
	7. Transporter 2 Company Name				U.S. EPA ID Number		
	8. Designated Facility Name and Site Address Hay Road Landfill 6426 Hay Road Vacaville, CA 95667 (707) 678-4718				U.S. EPA ID Number N/A		
	9. Waste Shipping Name and Description				10. Containers		11. Total Quantity
					No.	Type	12. Unit Wt./Vol.
	1. Non-Hazardous Waste Soil				001	DT	18 Y
	2.						
	3.						
4.							
13. Special Handling Instructions and Additional Information Approval # 54263							
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Offeror's Printed/Typed Name Andrew Wallace On behalf of generator				Signature <i>[Signature]</i>		Month Day Year 10 2 13	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
16. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Albert Vongor				Signature <i>[Signature]</i>		Month Day Year 10 2 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
17. Discrepancy							
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
17b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator)				Month Day Year			
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name				Signature		Month Day Year	

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
Call 707-548-2899

4. Waste Tracking Number
EPI 0116

5. Generator's Name and Mailing Address

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

Poley Street Investments LLC
2533 Clement Ave
Alameda, CA 94501 510-523-1925

1650 Park Street
Alameda, CA 94501

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road
Vacaville, CA 95667 (707) 678-4718

U.S. EPA ID Number

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. Non-Hazardous Waste Soil

001

DT

18

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 54262

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

Generator's/Offoror's Printed/Typed Name

Signature

Month Day Year

*On behalf of
Arthur Salazar
generator*

AS

11 2 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

GENERATOR
 INT'L
 TRANSPORTER
 SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone Call 707-548-3839	4. Waste Tracking Number BTI 0115
5. Generator's Name and Mailing Address Foley Street Investments LLC 2533 Clement Ave Alameda, CA 94501 510.523.1925		Generator's Site Address (if different than mailing address) 1630 Park Street Alameda, CA 94501		
6. Transporter 1 Company Name		U.S. EPA ID Number		
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address Hay Road Landfill 6426 Hay Road Vacaville, CA 95687 (707) 678-4718		U.S. EPA ID Number N/A		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
		No.	Type	12. Unit Wt./Vol.
1. Non-Hazardous Waste Soil		001	DT	10 Y
2.				
3.				
4.				
13. Special Handling Instructions and Additional Information Approval # 5426.2				
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
Generator's/Offeror's Printed/Typed Name Andrew Wallace		Signature <i>[Signature]</i>		Month Day Year 10 2 13
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name M.H. WILDER		Signature <i>[Signature]</i>		Month Day Year 11 1 13
Transporter 2 Printed/Typed Name		Signature		Month Day Year
17. Discrepancy				
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
Manifest Reference Number: _____				
17b. Alternate Facility (or Generator)		U.S. EPA ID Number		
Facility's Phone:				
17c. Signature of Alternate Facility (or Generator)		Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name		Signature		Month Day Year

GENERATOR
 INT'L
 TRANSPORTER
 SIGNED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone Call 707-546-5859	4. Waste Tracking Number B71011
5. Generator's Name and Mailing Address Foley Street Investments LLC 2533 Clarendon Ave Alameda, CA 94501 510-523-1925		Generator's Site Address (if different than mailing address) 1630 Park Street Alameda, CA 94501		
6. Transporter 1 Company Name Bain's Bros		U.S. EPA ID Number		
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address Hay Road Landfill 6426 Hay Road Vacaville, CA 94967 (707) 678-4718		U.S. EPA ID Number N/A		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
		No.	Type	12. Unit Wt./Vol.
1. Non-Hazardous Waste Soil		001	DT	16
2.				
3.				
4.				
13. Special Handling Instructions and Additional Information Approval # S4262				
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
Generator's/Offeror's Printed/Typed Name Andrew Wallace On behalf of generator		Signature <i>[Signature]</i>		Month Day Year 10 2 13
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name C. Bain		Signature <i>[Signature]</i>		Month Day Year 10 2 13
Transporter 2 Printed/Typed Name		Signature		Month Day Year
17. Discrepancy				
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
Manifest Reference Number: _____				
17b. Alternate Facility (or Generator)		U.S. EPA ID Number		
Facility's Phone: _____				
17c. Signature of Alternate Facility (or Generator)		Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name		Signature		Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

1

3. Emergency Response Phone

Carr 707-548-5859

4. Waste Tracking Number

ETI 0117

5. Generator's Name and Mailing Address

Foley Street Investments LLC
2533 Clement Ave
Alameda, CA 94501 510 523 1925

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

1630 Park Street
Alameda, CA 94501

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road
Vacaville, CA 94987 (707) 678-4718

U.S. EPA ID Number

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. Non-Hazardous Waste Soil

001

DT

18

Y

13. Special Handling Instructions and Additional Information

Approval # 5426.2

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

Generator's/Offeor's Printed/Typed Name

Signature

Month Day Year

Andrew Walker on behalf of generator

[Signature]

10 | 2 | 13

15. International Shipments Import to U.S. Export from U.S.

Part of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Thompson

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER INT'L

SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	Call 707-543-5859	BTL 0200
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)		
Poley Street Investments LLC 2533 Clarendon Ave Alameda, CA 94501 510 523 1925		1650 Park Street Alameda, CA 94501		
6. Transporter 1 Company Name		U.S. EPA ID Number		
18 Trucking				
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address		U.S. EPA ID Number		
Hay Road Landfill 6426 Hay Road Vacaville, CA 95687 (707) 678-4718		N/A		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
		No.	Type	12. Unit Wt./Vol.
1. Non-Hazardous Waste Soil		1	DT	18 Y
2.				
3.				
4.				
13. Special Handling Instructions and Additional Information				
Approval # 54262				
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
Generator's/Offlor's Printed/Typed Name		Signature		Month Day Year
Andrew Wallace On behalf of generator				10 8 13
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name		Signature		Month Day Year
4th Street Vehicle				10 8 13
Transporter 2 Printed/Typed Name		Signature		Month Day Year
17. Discrepancy				
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
Manifest Reference Number: _____				
17b. Alternate Facility (or Generator)		U.S. EPA ID Number		
Facility's Phone: _____				
17c. Signature of Alternate Facility (or Generator)		Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name		Signature		Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

1

3. Emergency Response Phone

Call 707-442-5850

4. Waste Tracking Number

WT1 0704

5. Generator's Name and Mailing Address

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

Foley Street Investments LLC

3535 Clement Ave

Alameda, CA 94501 510-523-1923

1030 Park Street

Alameda, CA 94501

Generator's Phone:

6. Transporter 1 Company Name

W. T. Trucking

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Hay Road Landfill

6426 Hay Road

Macaville, CA 95667 (916) 676-4716

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1.

Non-Hazardous Waste Soil

1

DT

10

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 54262

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

Generator's/Offeror's Printed/Typed Name

on behalf of
Andrew Wallace generator

Signature

Andrew Wallace

Month Day Year

10 8 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number	
	N/A	1	Call 707-348-5250	BTL 0205	
5. Generator's Name and Mailing Address			Generator's Site Address (if different than mailing address)		
Poley Street Investments LLC 2533 Cimarron Ave Alameda, CA 94501 510 523 1925			1030 Park Street Alameda, CA 94501		
Generator's Phone:			U.S. EPA ID Number		
6. Transporter 1 Company Name			U.S. EPA ID Number		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address			U.S. EPA ID Number		
Hay Road Landfill 6426 Hay Road Wacama, CA 94607 (415) 878 8718			N/A		
Facility's Phone:			U.S. EPA ID Number		
9. Waste Shipping Name and Description			10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
1. Non-Hazardous Waste Soil			1	DT	16 Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
Approval # 54262					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offeror's Printed/Typed Name			Signature		Month Day Year
Andrew Walker on behalf of generator			[Signature]		10 8 13
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____					
Transporter Signature (for exports only):			Date leaving U.S.:		
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name			Signature		Month Day Year
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:			U.S. EPA ID Number		
17c. Signature of Alternate Facility (or Generator)			Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name			Signature		Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

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

Foley Street Investments LLC
2533 Clarendon Ave

1630 Mark Street

Generator's Phone:

Alameda, CA 94501 510.523.1925

Alameda, CA 94501

6. Transporter 1 Company Name

18 Trucking Corp

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road

U.S. EPA ID Number

N/A

Facility's Phone:

Vacaville, CA 95667 (707) 678-4718

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit WL/Vol.

No.

Type

1. Non-Hazardous Waste Soil

1

DT

18

Y

13. Special Handling Instructions and Additional Information

Approval # 5426.2

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

Generator's/Offeror's Printed/Typed Name

On behalf of
Andrew Wallace generator

Signature

[Signature]

Month Day Year

10 | 8 | 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Missy Ann

Signature

[Signature]

Month Day Year

10 | 8 | 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

3. Emergency Response Phone

Car 707-548-3859

4. Waste Tracking Number

BTT 0203

5. Generator's Name and Mailing Address

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

Foley Street Investments LLC

2533 Cleburn Ave

Alameda, CA 94501 415-573-1825

1630 Park Street

Alameda, CA 94501

Generator's Phone:

6. Transporter 1 Company Name

18 Trucking Inc

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Hay Road Landfill

6426 Hay Road

Hayward, CA 94547 (707) 879-4118

Facility's Phone:

N/A

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1.

Non-Hazardous Waste Sol

101

DT

10

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 5426.2

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

Generator's/Offoror's Printed/Typed Name

Andrew Wallace on behalf of generator

Signature

AW

Month Day Year

10 8 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

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

Polky Street Investments LLC

2535 Clement Ave

1600 Park Street

Generator's Phone:

Alameda, CA 94501 510-525-1925

Alameda, CA 94501

6. Transporter 1 Company Name

Bradley Tanks Inc

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill

U.S. EPA ID Number

6126 Hay Road

N/A

Facility's Phone:

Vacaville, CA 95607 (707) 678-4718

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit WL/Vol.

No.

Type

1. Non-Hazardous Waste - Sol

1

DT

15

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 54262

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

Generator's/Offoror's Printed/Typed Name

On behalf of Andrew Wallace generator

Signature

AW

Month Day Year

10 10 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Tim Barber

Signature

Tim Barber

Month Day Year

10 10 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER INT'L

SIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

1

3. Emergency Response Phone

Car 707-548-9899

4. Waste Tracking Number

8T10119

5. Generator's Name and Mailing Address

Poley Street Investments LLC
2533 Clement Ave

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

1630 Park Street

Generator's Phone:

Alameda, CA 94501 510-523-1925

Alameda, CA 94501

6. Transporter 1 Company Name

P.O. Box 281110

U.S. EPA ID Number

7. Transporter 2 Company Name

18-Trucking San Francisco 415-553-1618

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill
6426 Hay Road

U.S. EPA ID Number

Facility's Phone:

Vacaville, CA 95687 (707) 678-4712

N/A

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit WL/Vol.

1. Non-Hazardous Waste Soil

001

DT

16

Y

13. Special Handling Instructions and Additional Information

Approval # 5426.2

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

Generator's/Offoror's Printed/Typed Name

On behalf of generator
Andrew Pallace

Signature

[Signature]

Month Day Year

10 10 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

18-Trucking E. Franklin V

Signature

[Signature]

Month Day Year

10 10 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

GENERATOR
 INTL
 TRANSPORTER
 SIGNED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number <i>N/A</i>	2. Page 1 of <i>1</i>	3. Emergency Response Phone <i>Car 707-548-5459</i>	4. Waste Tracking Number <i>BTB 0113</i>
5. Generator's Name and Mailing Address <i>Foley Street Investments LLC 1513 Clement Ave Alameda, CA 94501 510 523 1825</i>		Generator's Site Address (if different than mailing address) <i>1630 Park Street Alameda, CA 94501</i>		
6. Transporter 1 Company Name <i>Bains Bro</i>		U.S. EPA ID Number		
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address <i>Hay Road Landfill 6426 Hay Road Vacaville, CA 95687 (707) 578-4118</i>		U.S. EPA ID Number <i>N/A</i>		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
		No.	Type	12. Unit Wt./Vol.
1. <i>Non-Hazardous Waste Soil</i>		<i>001</i>	<i>DT</i>	<i>18</i>
2.				
3.				
4.				
13. Special Handling Instructions and Additional Information <i>Approval # 5426.2</i>				
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
Generator's/Offoror's Printed/Typed Name <i>Andrew Wallace on behalf of generator</i>		Signature <i>[Signature]</i>		Month Day Year <i>10 10 13</i>
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name <i>C. Bains</i>		Signature <i>[Signature]</i>		Month Day Year <i>10 10 13</i>
Transporter 2 Printed/Typed Name		Signature		Month Day Year
17. Discrepancy				
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
Manifest Reference Number: _____				
17b. Alternate Facility (or Generator)		U.S. EPA ID Number <i>/</i>		
Facility's Phone: _____				
17c. Signature of Alternate Facility (or Generator)		Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name		Signature		Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

1

3. Emergency Response Phone

Call 707-548-5850

4. Waste Tracking Number

EST 0207

5. Generator's Name and Mailing Address

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

Foley Street Investments LLC

2533 Channing Ave

Alameda, CA 94501 510-523-1923

1030 Park Street

Alameda, CA 94501

Generator's Phone:

6. Transporter 1 Company Name

Bradley Tanks Inc

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Hay Road Landfill

6420 Hay Road

Yacerville, CA 95887 (707) 878-4118

U.S. EPA ID Number

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1.

Non-Hazardous Waste Soil

1

DT

18

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 5426.2

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

Generator's/Offeror's Printed/Typed Name

on behalf of Andrew Wallace generator

Signature

[Signature]

Month Day Year

10 10 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Tim Barber

Signature

[Signature]

Month Day Year

10 10 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

APPENDIX E

LABORATORY ANALYTICAL REPORTS



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1310053

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jeremy Smith
Project P.O.: #WC084376
Project Name: #298931; FSI

Project Received: 10/02/2013

Analytical Report reviewed & approved for release on 10/03/2013 by:

Question about
your data?

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #298931; FSI
WorkOrder: 1310053

<u>Glossary Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Analytical Qualifier

S	spike recovery outside accepted recovery limits
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SE Corner-10'	1310053-001A	Soil	10/02/2013 10:15	GC28	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	100	10/02/2013 16:30
tert-Amyl methyl ether (TAME)	ND		0.50	100	10/02/2013 16:30
Benzene	ND		0.50	100	10/02/2013 16:30
Bromobenzene	ND		0.50	100	10/02/2013 16:30
Bromochloromethane	ND		0.50	100	10/02/2013 16:30
Bromodichloromethane	ND		0.50	100	10/02/2013 16:30
Bromoform	ND		0.50	100	10/02/2013 16:30
Bromomethane	ND		0.50	100	10/02/2013 16:30
2-Butanone (MEK)	ND		2.0	100	10/02/2013 16:30
t-Butyl alcohol (TBA)	ND		5.0	100	10/02/2013 16:30
n-Butyl benzene	1.3		0.50	100	10/02/2013 16:30
sec-Butyl benzene	ND		0.50	100	10/02/2013 16:30
tert-Butyl benzene	ND		0.50	100	10/02/2013 16:30
Carbon Disulfide	ND		0.50	100	10/02/2013 16:30
Carbon Tetrachloride	ND		0.50	100	10/02/2013 16:30
Chlorobenzene	ND		0.50	100	10/02/2013 16:30
Chloroethane	ND		0.50	100	10/02/2013 16:30
Chloroform	ND		0.50	100	10/02/2013 16:30
Chloromethane	ND		0.50	100	10/02/2013 16:30
2-Chlorotoluene	ND		0.50	100	10/02/2013 16:30
4-Chlorotoluene	ND		0.50	100	10/02/2013 16:30
Dibromochloromethane	ND		0.50	100	10/02/2013 16:30
1,2-Dibromo-3-chloropropane	ND		0.40	100	10/02/2013 16:30
1,2-Dibromoethane (EDB)	ND		0.40	100	10/02/2013 16:30
Dibromomethane	ND		0.50	100	10/02/2013 16:30
1,2-Dichlorobenzene	ND		0.50	100	10/02/2013 16:30
1,3-Dichlorobenzene	ND		0.50	100	10/02/2013 16:30
1,4-Dichlorobenzene	ND		0.50	100	10/02/2013 16:30
Dichlorodifluoromethane	ND		0.50	100	10/02/2013 16:30
1,1-Dichloroethane	ND		0.50	100	10/02/2013 16:30
1,2-Dichloroethane (1,2-DCA)	ND		0.40	100	10/02/2013 16:30
1,1-Dichloroethene	ND		0.50	100	10/02/2013 16:30
cis-1,2-Dichloroethene	ND		0.50	100	10/02/2013 16:30
trans-1,2-Dichloroethene	ND		0.50	100	10/02/2013 16:30
1,2-Dichloropropane	ND		0.50	100	10/02/2013 16:30
1,3-Dichloropropane	ND		0.50	100	10/02/2013 16:30
2,2-Dichloropropane	ND		0.50	100	10/02/2013 16:30
1,1-Dichloropropene	ND		0.50	100	10/02/2013 16:30

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SE Corner-10'	1310053-001A	Soil	10/02/2013 10:15	GC28	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	100	10/02/2013 16:30
trans-1,3-Dichloropropene	ND		0.50	100	10/02/2013 16:30
Diisopropyl ether (DIPE)	ND		0.50	100	10/02/2013 16:30
Ethylbenzene	2.1		0.50	100	10/02/2013 16:30
Ethyl tert-butyl ether (ETBE)	ND		0.50	100	10/02/2013 16:30
Freon 113	ND		10	100	10/02/2013 16:30
Hexachlorobutadiene	ND		0.50	100	10/02/2013 16:30
Hexachloroethane	ND		0.50	100	10/02/2013 16:30
2-Hexanone	ND		0.50	100	10/02/2013 16:30
Isopropylbenzene	ND		0.50	100	10/02/2013 16:30
4-Isopropyl toluene	ND		0.50	100	10/02/2013 16:30
Methyl-t-butyl ether (MTBE)	ND		0.50	100	10/02/2013 16:30
Methylene chloride	ND		0.50	100	10/02/2013 16:30
4-Methyl-2-pentanone (MIBK)	ND		0.50	100	10/02/2013 16:30
Naphthalene	1.2		0.50	100	10/02/2013 16:30
n-Propyl benzene	1.2		0.50	100	10/02/2013 16:30
Styrene	ND		0.50	100	10/02/2013 16:30
1,1,1,2-Tetrachloroethane	ND		0.50	100	10/02/2013 16:30
1,1,2,2-Tetrachloroethane	ND		0.50	100	10/02/2013 16:30
Tetrachloroethene	ND		0.050	10	10/03/2013 11:29
Toluene	1.1		0.50	100	10/02/2013 16:30
1,2,3-Trichlorobenzene	ND		0.50	100	10/02/2013 16:30
1,2,4-Trichlorobenzene	ND		0.50	100	10/02/2013 16:30
1,1,1-Trichloroethane	ND		0.50	100	10/02/2013 16:30
1,1,2-Trichloroethane	ND		0.50	100	10/02/2013 16:30
Trichloroethene	ND		0.50	100	10/02/2013 16:30
Trichlorofluoromethane	ND		0.50	100	10/02/2013 16:30
1,2,3-Trichloropropane	ND		0.50	100	10/02/2013 16:30
1,2,4-Trimethylbenzene	7.8		0.50	100	10/02/2013 16:30
1,3,5-Trimethylbenzene	2.2		0.50	100	10/02/2013 16:30
Vinyl Chloride	ND		0.50	100	10/02/2013 16:30
Xylenes, Total	10		0.50	100	10/02/2013 16:30
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	106		70-130		10/02/2013 16:30
toluene-d8	96		70-130		10/02/2013 16:30
4-BFB	87		70-130		10/02/2013 16:30

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
WW-1-9'	1310053-002A	Soil	10/02/2013 09:54	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		100	1000	10/02/2013 15:09
tert-Amyl methyl ether (TAME)	ND		5.0	1000	10/02/2013 15:09
Benzene	ND		5.0	1000	10/02/2013 15:09
Bromobenzene	ND		5.0	1000	10/02/2013 15:09
Bromochloromethane	ND		5.0	1000	10/02/2013 15:09
Bromodichloromethane	ND		5.0	1000	10/02/2013 15:09
Bromoform	ND		5.0	1000	10/02/2013 15:09
Bromomethane	ND		5.0	1000	10/02/2013 15:09
2-Butanone (MEK)	ND		20	1000	10/02/2013 15:09
t-Butyl alcohol (TBA)	ND		50	1000	10/02/2013 15:09
n-Butyl benzene	15		5.0	1000	10/02/2013 15:09
sec-Butyl benzene	ND		5.0	1000	10/02/2013 15:09
tert-Butyl benzene	ND		5.0	1000	10/02/2013 15:09
Carbon Disulfide	ND		5.0	1000	10/02/2013 15:09
Carbon Tetrachloride	ND		5.0	1000	10/02/2013 15:09
Chlorobenzene	ND		5.0	1000	10/02/2013 15:09
Chloroethane	ND		5.0	1000	10/02/2013 15:09
Chloroform	ND		5.0	1000	10/02/2013 15:09
Chloromethane	ND		5.0	1000	10/02/2013 15:09
2-Chlorotoluene	ND		5.0	1000	10/02/2013 15:09
4-Chlorotoluene	ND		5.0	1000	10/02/2013 15:09
Dibromochloromethane	ND		5.0	1000	10/02/2013 15:09
1,2-Dibromo-3-chloropropane	ND		4.0	1000	10/02/2013 15:09
1,2-Dibromoethane (EDB)	ND		4.0	1000	10/02/2013 15:09
Dibromomethane	ND		5.0	1000	10/02/2013 15:09
1,2-Dichlorobenzene	ND		5.0	1000	10/02/2013 15:09
1,3-Dichlorobenzene	ND		5.0	1000	10/02/2013 15:09
1,4-Dichlorobenzene	ND		5.0	1000	10/02/2013 15:09
Dichlorodifluoromethane	ND		5.0	1000	10/02/2013 15:09
1,1-Dichloroethane	ND		5.0	1000	10/02/2013 15:09
1,2-Dichloroethane (1,2-DCA)	ND		4.0	1000	10/02/2013 15:09
1,1-Dichloroethene	ND		5.0	1000	10/02/2013 15:09
cis-1,2-Dichloroethene	ND		5.0	1000	10/02/2013 15:09
trans-1,2-Dichloroethene	ND		5.0	1000	10/02/2013 15:09
1,2-Dichloropropane	ND		5.0	1000	10/02/2013 15:09
1,3-Dichloropropane	ND		5.0	1000	10/02/2013 15:09
2,2-Dichloropropane	ND		5.0	1000	10/02/2013 15:09
1,1-Dichloropropene	ND		5.0	1000	10/02/2013 15:09

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
WW-1-9'	1310053-002A	Soil	10/02/2013 09:54	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		5.0	1000	10/02/2013 15:09
trans-1,3-Dichloropropene	ND		5.0	1000	10/02/2013 15:09
Diisopropyl ether (DIPE)	ND		5.0	1000	10/02/2013 15:09
Ethylbenzene	55		5.0	1000	10/02/2013 15:09
Ethyl tert-butyl ether (ETBE)	ND		5.0	1000	10/02/2013 15:09
Freon 113	ND		100	1000	10/02/2013 15:09
Hexachlorobutadiene	ND		5.0	1000	10/02/2013 15:09
Hexachloroethane	ND		5.0	1000	10/02/2013 15:09
2-Hexanone	ND		5.0	1000	10/02/2013 15:09
Isopropylbenzene	5.7		5.0	1000	10/02/2013 15:09
4-Isopropyl toluene	5.1		5.0	1000	10/02/2013 15:09
Methyl-t-butyl ether (MTBE)	ND		5.0	1000	10/02/2013 15:09
Methylene chloride	ND		5.0	1000	10/02/2013 15:09
4-Methyl-2-pentanone (MIBK)	ND		5.0	1000	10/02/2013 15:09
Naphthalene	19		5.0	1000	10/02/2013 15:09
n-Propyl benzene	17		5.0	1000	10/02/2013 15:09
Styrene	ND		5.0	1000	10/02/2013 15:09
1,1,1,2-Tetrachloroethane	ND		5.0	1000	10/02/2013 15:09
1,1,2,2-Tetrachloroethane	ND		5.0	1000	10/02/2013 15:09
Tetrachloroethene	ND		0.50	100	10/03/2013 12:09
Toluene	80		5.0	1000	10/02/2013 15:09
1,2,3-Trichlorobenzene	ND		5.0	1000	10/02/2013 15:09
1,2,4-Trichlorobenzene	ND		5.0	1000	10/02/2013 15:09
1,1,1-Trichloroethane	ND		5.0	1000	10/02/2013 15:09
1,1,2-Trichloroethane	ND		5.0	1000	10/02/2013 15:09
Trichloroethene	ND		5.0	1000	10/02/2013 15:09
Trichlorofluoromethane	ND		5.0	1000	10/02/2013 15:09
1,2,3-Trichloropropane	ND		5.0	1000	10/02/2013 15:09
1,2,4-Trimethylbenzene	110		5.0	1000	10/02/2013 15:09
1,3,5-Trimethylbenzene	30		5.0	1000	10/02/2013 15:09
Vinyl Chloride	ND		5.0	1000	10/02/2013 15:09
Xylenes, Total	230		5.0	1000	10/02/2013 15:09
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	100		70-130		10/02/2013 15:09
toluene-d8	95		70-130		10/02/2013 15:09
4-BFB	97		70-130		10/02/2013 15:09

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NWALL-10'	1310053-003A	Soil	10/02/2013 10:45	GC28	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		100	1000	10/02/2013 14:35
tert-Amyl methyl ether (TAME)	ND		5.0	1000	10/02/2013 14:35
Benzene	ND		5.0	1000	10/02/2013 14:35
Bromobenzene	ND		5.0	1000	10/02/2013 14:35
Bromochloromethane	ND		5.0	1000	10/02/2013 14:35
Bromodichloromethane	ND		5.0	1000	10/02/2013 14:35
Bromoform	ND		5.0	1000	10/02/2013 14:35
Bromomethane	ND		5.0	1000	10/02/2013 14:35
2-Butanone (MEK)	ND		20	1000	10/02/2013 14:35
t-Butyl alcohol (TBA)	ND		50	1000	10/02/2013 14:35
n-Butyl benzene	8.3		5.0	1000	10/02/2013 14:35
sec-Butyl benzene	ND		5.0	1000	10/02/2013 14:35
tert-Butyl benzene	ND		5.0	1000	10/02/2013 14:35
Carbon Disulfide	ND		5.0	1000	10/02/2013 14:35
Carbon Tetrachloride	ND		5.0	1000	10/02/2013 14:35
Chlorobenzene	ND		5.0	1000	10/02/2013 14:35
Chloroethane	ND		5.0	1000	10/02/2013 14:35
Chloroform	ND		5.0	1000	10/02/2013 14:35
Chloromethane	ND		5.0	1000	10/02/2013 14:35
2-Chlorotoluene	ND		5.0	1000	10/02/2013 14:35
4-Chlorotoluene	ND		5.0	1000	10/02/2013 14:35
Dibromochloromethane	ND		5.0	1000	10/02/2013 14:35
1,2-Dibromo-3-chloropropane	ND		4.0	1000	10/02/2013 14:35
1,2-Dibromoethane (EDB)	ND		4.0	1000	10/02/2013 14:35
Dibromomethane	ND		5.0	1000	10/02/2013 14:35
1,2-Dichlorobenzene	ND		5.0	1000	10/02/2013 14:35
1,3-Dichlorobenzene	ND		5.0	1000	10/02/2013 14:35
1,4-Dichlorobenzene	ND		5.0	1000	10/02/2013 14:35
Dichlorodifluoromethane	ND		5.0	1000	10/02/2013 14:35
1,1-Dichloroethane	ND		5.0	1000	10/02/2013 14:35
1,2-Dichloroethane (1,2-DCA)	ND		4.0	1000	10/02/2013 14:35
1,1-Dichloroethene	ND		5.0	1000	10/02/2013 14:35
cis-1,2-Dichloroethene	ND		5.0	1000	10/02/2013 14:35
trans-1,2-Dichloroethene	ND		5.0	1000	10/02/2013 14:35
1,2-Dichloropropane	ND		5.0	1000	10/02/2013 14:35
1,3-Dichloropropane	ND		5.0	1000	10/02/2013 14:35
2,2-Dichloropropane	ND		5.0	1000	10/02/2013 14:35
1,1-Dichloropropene	ND		5.0	1000	10/02/2013 14:35

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NWALL-10'	1310053-003A	Soil	10/02/2013 10:45	GC28	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		5.0	1000	10/02/2013 14:35
trans-1,3-Dichloropropene	ND		5.0	1000	10/02/2013 14:35
Diisopropyl ether (DIPE)	ND		5.0	1000	10/02/2013 14:35
Ethylbenzene	27		5.0	1000	10/02/2013 14:35
Ethyl tert-butyl ether (ETBE)	ND		5.0	1000	10/02/2013 14:35
Freon 113	ND		100	1000	10/02/2013 14:35
Hexachlorobutadiene	ND		5.0	1000	10/02/2013 14:35
Hexachloroethane	ND		5.0	1000	10/02/2013 14:35
2-Hexanone	ND		5.0	1000	10/02/2013 14:35
Isopropylbenzene	ND		5.0	1000	10/02/2013 14:35
4-Isopropyl toluene	ND		5.0	1000	10/02/2013 14:35
Methyl-t-butyl ether (MTBE)	ND		5.0	1000	10/02/2013 14:35
Methylene chloride	ND		5.0	1000	10/02/2013 14:35
4-Methyl-2-pentanone (MIBK)	ND		5.0	1000	10/02/2013 14:35
Naphthalene	6.4		5.0	1000	10/02/2013 14:35
n-Propyl benzene	11		5.0	1000	10/02/2013 14:35
Styrene	ND		5.0	1000	10/02/2013 14:35
1,1,1,2-Tetrachloroethane	ND		5.0	1000	10/02/2013 14:35
1,1,2,2-Tetrachloroethane	ND		5.0	1000	10/02/2013 14:35
Tetrachloroethene	ND		0.50	100	10/03/2013 12:49
Toluene	22		5.0	1000	10/02/2013 14:35
1,2,3-Trichlorobenzene	ND		5.0	1000	10/02/2013 14:35
1,2,4-Trichlorobenzene	ND		5.0	1000	10/02/2013 14:35
1,1,1-Trichloroethane	ND		5.0	1000	10/02/2013 14:35
1,1,2-Trichloroethane	ND		5.0	1000	10/02/2013 14:35
Trichloroethene	ND		5.0	1000	10/02/2013 14:35
Trichlorofluoromethane	ND		5.0	1000	10/02/2013 14:35
1,2,3-Trichloropropane	ND		5.0	1000	10/02/2013 14:35
1,2,4-Trimethylbenzene	54		5.0	1000	10/02/2013 14:35
1,3,5-Trimethylbenzene	16		5.0	1000	10/02/2013 14:35
Vinyl Chloride	ND		5.0	1000	10/02/2013 14:35
Xylenes, Total	110		5.0	1000	10/02/2013 14:35
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	103		70-130		10/02/2013 14:35
toluene-d8	99		70-130		10/02/2013 14:35
4-BFB	93		70-130		10/02/2013 14:35

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NBOT-12.5	1310053-004A	Soil	10/02/2013 07:40	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/02/2013 18:00
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/02/2013 18:00
Benzene	ND		0.0050	1	10/02/2013 18:00
Bromobenzene	ND		0.0050	1	10/02/2013 18:00
Bromochloromethane	ND		0.0050	1	10/02/2013 18:00
Bromodichloromethane	ND		0.0050	1	10/02/2013 18:00
Bromoform	ND		0.0050	1	10/02/2013 18:00
Bromomethane	ND		0.0050	1	10/02/2013 18:00
2-Butanone (MEK)	ND		0.020	1	10/02/2013 18:00
t-Butyl alcohol (TBA)	ND		0.050	1	10/02/2013 18:00
n-Butyl benzene	ND		0.0050	1	10/02/2013 18:00
sec-Butyl benzene	ND		0.0050	1	10/02/2013 18:00
tert-Butyl benzene	ND		0.0050	1	10/02/2013 18:00
Carbon Disulfide	ND		0.0050	1	10/02/2013 18:00
Carbon Tetrachloride	ND		0.0050	1	10/02/2013 18:00
Chlorobenzene	ND		0.0050	1	10/02/2013 18:00
Chloroethane	ND		0.0050	1	10/02/2013 18:00
Chloroform	ND		0.0050	1	10/02/2013 18:00
Chloromethane	ND		0.0050	1	10/02/2013 18:00
2-Chlorotoluene	ND		0.0050	1	10/02/2013 18:00
4-Chlorotoluene	ND		0.0050	1	10/02/2013 18:00
Dibromochloromethane	ND		0.0050	1	10/02/2013 18:00
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/02/2013 18:00
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/02/2013 18:00
Dibromomethane	ND		0.0050	1	10/02/2013 18:00
1,2-Dichlorobenzene	ND		0.0050	1	10/02/2013 18:00
1,3-Dichlorobenzene	ND		0.0050	1	10/02/2013 18:00
1,4-Dichlorobenzene	ND		0.0050	1	10/02/2013 18:00
Dichlorodifluoromethane	ND		0.0050	1	10/02/2013 18:00
1,1-Dichloroethane	ND		0.0050	1	10/02/2013 18:00
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/02/2013 18:00
1,1-Dichloroethene	ND		0.0050	1	10/02/2013 18:00
cis-1,2-Dichloroethene	ND		0.0050	1	10/02/2013 18:00
trans-1,2-Dichloroethene	ND		0.0050	1	10/02/2013 18:00
1,2-Dichloropropane	ND		0.0050	1	10/02/2013 18:00
1,3-Dichloropropane	ND		0.0050	1	10/02/2013 18:00
2,2-Dichloropropane	ND		0.0050	1	10/02/2013 18:00
1,1-Dichloropropene	ND		0.0050	1	10/02/2013 18:00

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NBOT-12.5	1310053-004A	Soil	10/02/2013 07:40	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/02/2013 18:00
trans-1,3-Dichloropropene	ND		0.0050	1	10/02/2013 18:00
Diisopropyl ether (DIPE)	ND		0.0050	1	10/02/2013 18:00
Ethylbenzene	ND		0.0050	1	10/02/2013 18:00
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/02/2013 18:00
Freon 113	ND		0.10	1	10/02/2013 18:00
Hexachlorobutadiene	ND		0.0050	1	10/02/2013 18:00
Hexachloroethane	ND		0.0050	1	10/02/2013 18:00
2-Hexanone	ND		0.0050	1	10/02/2013 18:00
Isopropylbenzene	ND		0.0050	1	10/02/2013 18:00
4-Isopropyl toluene	ND		0.0050	1	10/02/2013 18:00
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/02/2013 18:00
Methylene chloride	ND		0.0050	1	10/02/2013 18:00
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/02/2013 18:00
Naphthalene	ND		0.0050	1	10/02/2013 18:00
n-Propyl benzene	ND		0.0050	1	10/02/2013 18:00
Styrene	ND		0.0050	1	10/02/2013 18:00
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/02/2013 18:00
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/02/2013 18:00
Tetrachloroethene	ND		0.0050	1	10/02/2013 18:00
Toluene	ND		0.0050	1	10/02/2013 18:00
1,2,3-Trichlorobenzene	ND		0.0050	1	10/02/2013 18:00
1,2,4-Trichlorobenzene	ND		0.0050	1	10/02/2013 18:00
1,1,1-Trichloroethane	ND		0.0050	1	10/02/2013 18:00
1,1,2-Trichloroethane	ND		0.0050	1	10/02/2013 18:00
Trichloroethene	ND		0.0050	1	10/02/2013 18:00
Trichlorofluoromethane	ND		0.0050	1	10/02/2013 18:00
1,2,3-Trichloropropane	ND		0.0050	1	10/02/2013 18:00
1,2,4-Trimethylbenzene	ND		0.0050	1	10/02/2013 18:00
1,3,5-Trimethylbenzene	ND		0.0050	1	10/02/2013 18:00
Vinyl Chloride	ND		0.0050	1	10/02/2013 18:00
Xylenes, Total	ND		0.0050	1	10/02/2013 18:00
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	98		70-130		10/02/2013 18:00
toluene-d8	102		70-130		10/02/2013 18:00
4-BFB	103		70-130		10/02/2013 18:00

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SBOT-10	1310053-005A	Soil	10/02/2013 08:17	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/03/2013 13:38
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/03/2013 13:38
Benzene	ND		0.0050	1	10/03/2013 13:38
Bromobenzene	ND		0.0050	1	10/03/2013 13:38
Bromochloromethane	ND		0.0050	1	10/03/2013 13:38
Bromodichloromethane	ND		0.0050	1	10/03/2013 13:38
Bromoform	ND		0.0050	1	10/03/2013 13:38
Bromomethane	ND		0.0050	1	10/03/2013 13:38
2-Butanone (MEK)	ND		0.020	1	10/03/2013 13:38
t-Butyl alcohol (TBA)	ND		0.050	1	10/03/2013 13:38
n-Butyl benzene	ND		0.0050	1	10/03/2013 13:38
sec-Butyl benzene	ND		0.0050	1	10/03/2013 13:38
tert-Butyl benzene	ND		0.0050	1	10/03/2013 13:38
Carbon Disulfide	ND		0.0050	1	10/03/2013 13:38
Carbon Tetrachloride	ND		0.0050	1	10/03/2013 13:38
Chlorobenzene	ND		0.0050	1	10/03/2013 13:38
Chloroethane	ND		0.0050	1	10/03/2013 13:38
Chloroform	ND		0.0050	1	10/03/2013 13:38
Chloromethane	ND		0.0050	1	10/03/2013 13:38
2-Chlorotoluene	ND		0.0050	1	10/03/2013 13:38
4-Chlorotoluene	ND		0.0050	1	10/03/2013 13:38
Dibromochloromethane	ND		0.0050	1	10/03/2013 13:38
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/03/2013 13:38
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/03/2013 13:38
Dibromomethane	ND		0.0050	1	10/03/2013 13:38
1,2-Dichlorobenzene	ND		0.0050	1	10/03/2013 13:38
1,3-Dichlorobenzene	ND		0.0050	1	10/03/2013 13:38
1,4-Dichlorobenzene	ND		0.0050	1	10/03/2013 13:38
Dichlorodifluoromethane	ND		0.0050	1	10/03/2013 13:38
1,1-Dichloroethane	ND		0.0050	1	10/03/2013 13:38
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/03/2013 13:38
1,1-Dichloroethene	ND		0.0050	1	10/03/2013 13:38
cis-1,2-Dichloroethene	ND		0.0050	1	10/03/2013 13:38
trans-1,2-Dichloroethene	ND		0.0050	1	10/03/2013 13:38
1,2-Dichloropropane	ND		0.0050	1	10/03/2013 13:38
1,3-Dichloropropane	ND		0.0050	1	10/03/2013 13:38
2,2-Dichloropropane	ND		0.0050	1	10/03/2013 13:38
1,1-Dichloropropene	ND		0.0050	1	10/03/2013 13:38

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SBOT-10	1310053-005A	Soil	10/02/2013 08:17	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/03/2013 13:38
trans-1,3-Dichloropropene	ND		0.0050	1	10/03/2013 13:38
Diisopropyl ether (DIPE)	ND		0.0050	1	10/03/2013 13:38
Ethylbenzene	ND		0.0050	1	10/03/2013 13:38
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/03/2013 13:38
Freon 113	ND		0.10	1	10/03/2013 13:38
Hexachlorobutadiene	ND		0.0050	1	10/03/2013 13:38
Hexachloroethane	ND		0.0050	1	10/03/2013 13:38
2-Hexanone	ND		0.0050	1	10/03/2013 13:38
Isopropylbenzene	ND		0.0050	1	10/03/2013 13:38
4-Isopropyl toluene	ND		0.0050	1	10/03/2013 13:38
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/03/2013 13:38
Methylene chloride	ND		0.0050	1	10/03/2013 13:38
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/03/2013 13:38
Naphthalene	ND		0.0050	1	10/03/2013 13:38
n-Propyl benzene	ND		0.0050	1	10/03/2013 13:38
Styrene	ND		0.0050	1	10/03/2013 13:38
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/03/2013 13:38
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/03/2013 13:38
Tetrachloroethene	ND		0.0050	1	10/03/2013 13:38
Toluene	ND		0.0050	1	10/03/2013 13:38
1,2,3-Trichlorobenzene	ND		0.0050	1	10/03/2013 13:38
1,2,4-Trichlorobenzene	ND		0.0050	1	10/03/2013 13:38
1,1,1-Trichloroethane	ND		0.0050	1	10/03/2013 13:38
1,1,2-Trichloroethane	ND		0.0050	1	10/03/2013 13:38
Trichloroethene	ND		0.0050	1	10/03/2013 13:38
Trichlorofluoromethane	ND		0.0050	1	10/03/2013 13:38
1,2,3-Trichloropropane	ND		0.0050	1	10/03/2013 13:38
1,2,4-Trimethylbenzene	ND		0.0050	1	10/03/2013 13:38
1,3,5-Trimethylbenzene	ND		0.0050	1	10/03/2013 13:38
Vinyl Chloride	ND		0.0050	1	10/03/2013 13:38
Xylenes, Total	ND		0.0050	1	10/03/2013 13:38
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	98		70-130		10/03/2013 13:38
toluene-d8	104		70-130		10/03/2013 13:38
4-BFB	100		70-130		10/03/2013 13:38

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWALL-9'	1310053-006A	Soil	10/02/2013 10:20	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/02/2013 21:34
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/02/2013 21:34
Benzene	ND		0.0050	1	10/02/2013 21:34
Bromobenzene	ND		0.0050	1	10/02/2013 21:34
Bromochloromethane	ND		0.0050	1	10/02/2013 21:34
Bromodichloromethane	ND		0.0050	1	10/02/2013 21:34
Bromoform	ND		0.0050	1	10/02/2013 21:34
Bromomethane	ND		0.0050	1	10/02/2013 21:34
2-Butanone (MEK)	ND		0.020	1	10/02/2013 21:34
t-Butyl alcohol (TBA)	ND		0.050	1	10/02/2013 21:34
n-Butyl benzene	ND		0.0050	1	10/02/2013 21:34
sec-Butyl benzene	ND		0.0050	1	10/02/2013 21:34
tert-Butyl benzene	ND		0.0050	1	10/02/2013 21:34
Carbon Disulfide	ND		0.0050	1	10/02/2013 21:34
Carbon Tetrachloride	ND		0.0050	1	10/02/2013 21:34
Chlorobenzene	ND		0.0050	1	10/02/2013 21:34
Chloroethane	ND		0.0050	1	10/02/2013 21:34
Chloroform	ND		0.0050	1	10/02/2013 21:34
Chloromethane	ND		0.0050	1	10/02/2013 21:34
2-Chlorotoluene	ND		0.0050	1	10/02/2013 21:34
4-Chlorotoluene	ND		0.0050	1	10/02/2013 21:34
Dibromochloromethane	ND		0.0050	1	10/02/2013 21:34
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/02/2013 21:34
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/02/2013 21:34
Dibromomethane	ND		0.0050	1	10/02/2013 21:34
1,2-Dichlorobenzene	ND		0.0050	1	10/02/2013 21:34
1,3-Dichlorobenzene	ND		0.0050	1	10/02/2013 21:34
1,4-Dichlorobenzene	ND		0.0050	1	10/02/2013 21:34
Dichlorodifluoromethane	ND		0.0050	1	10/02/2013 21:34
1,1-Dichloroethane	ND		0.0050	1	10/02/2013 21:34
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/02/2013 21:34
1,1-Dichloroethene	ND		0.0050	1	10/02/2013 21:34
cis-1,2-Dichloroethene	ND		0.0050	1	10/02/2013 21:34
trans-1,2-Dichloroethene	ND		0.0050	1	10/02/2013 21:34
1,2-Dichloropropane	ND		0.0050	1	10/02/2013 21:34
1,3-Dichloropropane	ND		0.0050	1	10/02/2013 21:34
2,2-Dichloropropane	ND		0.0050	1	10/02/2013 21:34
1,1-Dichloropropene	ND		0.0050	1	10/02/2013 21:34

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWALL-9'	1310053-006A	Soil	10/02/2013 10:20	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/02/2013 21:34
trans-1,3-Dichloropropene	ND		0.0050	1	10/02/2013 21:34
Diisopropyl ether (DIPE)	ND		0.0050	1	10/02/2013 21:34
Ethylbenzene	ND		0.0050	1	10/02/2013 21:34
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/02/2013 21:34
Freon 113	ND		0.10	1	10/02/2013 21:34
Hexachlorobutadiene	ND		0.0050	1	10/02/2013 21:34
Hexachloroethane	ND		0.0050	1	10/02/2013 21:34
2-Hexanone	ND		0.0050	1	10/02/2013 21:34
Isopropylbenzene	ND		0.0050	1	10/02/2013 21:34
4-Isopropyl toluene	ND		0.0050	1	10/02/2013 21:34
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/02/2013 21:34
Methylene chloride	ND		0.0050	1	10/02/2013 21:34
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/02/2013 21:34
Naphthalene	ND		0.0050	1	10/02/2013 21:34
n-Propyl benzene	ND		0.0050	1	10/02/2013 21:34
Styrene	ND		0.0050	1	10/02/2013 21:34
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/02/2013 21:34
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/02/2013 21:34
Tetrachloroethene	ND		0.0050	1	10/02/2013 21:34
Toluene	ND		0.0050	1	10/02/2013 21:34
1,2,3-Trichlorobenzene	ND		0.0050	1	10/02/2013 21:34
1,2,4-Trichlorobenzene	ND		0.0050	1	10/02/2013 21:34
1,1,1-Trichloroethane	ND		0.0050	1	10/02/2013 21:34
1,1,2-Trichloroethane	ND		0.0050	1	10/02/2013 21:34
Trichloroethene	ND		0.0050	1	10/02/2013 21:34
Trichlorofluoromethane	ND		0.0050	1	10/02/2013 21:34
1,2,3-Trichloropropane	ND		0.0050	1	10/02/2013 21:34
1,2,4-Trimethylbenzene	ND		0.0050	1	10/02/2013 21:34
1,3,5-Trimethylbenzene	ND		0.0050	1	10/02/2013 21:34
Vinyl Chloride	ND		0.0050	1	10/02/2013 21:34
Xylenes, Total	ND		0.0050	1	10/02/2013 21:34
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	98		70-130		10/02/2013 21:34
toluene-d8	101		70-130		10/02/2013 21:34
4-BFB	99		70-130		10/02/2013 21:34

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWWALL-10'	1310053-007A	Soil	10/02/2013 10:35	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/02/2013 22:20
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/02/2013 22:20
Benzene	ND		0.0050	1	10/02/2013 22:20
Bromobenzene	ND		0.0050	1	10/02/2013 22:20
Bromochloromethane	ND		0.0050	1	10/02/2013 22:20
Bromodichloromethane	ND		0.0050	1	10/02/2013 22:20
Bromoform	ND		0.0050	1	10/02/2013 22:20
Bromomethane	ND		0.0050	1	10/02/2013 22:20
2-Butanone (MEK)	ND		0.020	1	10/02/2013 22:20
t-Butyl alcohol (TBA)	ND		0.050	1	10/02/2013 22:20
n-Butyl benzene	ND		0.0050	1	10/02/2013 22:20
sec-Butyl benzene	ND		0.0050	1	10/02/2013 22:20
tert-Butyl benzene	ND		0.0050	1	10/02/2013 22:20
Carbon Disulfide	ND		0.0050	1	10/02/2013 22:20
Carbon Tetrachloride	ND		0.0050	1	10/02/2013 22:20
Chlorobenzene	ND		0.0050	1	10/02/2013 22:20
Chloroethane	ND		0.0050	1	10/02/2013 22:20
Chloroform	ND		0.0050	1	10/02/2013 22:20
Chloromethane	ND		0.0050	1	10/02/2013 22:20
2-Chlorotoluene	ND		0.0050	1	10/02/2013 22:20
4-Chlorotoluene	ND		0.0050	1	10/02/2013 22:20
Dibromochloromethane	ND		0.0050	1	10/02/2013 22:20
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/02/2013 22:20
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/02/2013 22:20
Dibromomethane	ND		0.0050	1	10/02/2013 22:20
1,2-Dichlorobenzene	ND		0.0050	1	10/02/2013 22:20
1,3-Dichlorobenzene	ND		0.0050	1	10/02/2013 22:20
1,4-Dichlorobenzene	ND		0.0050	1	10/02/2013 22:20
Dichlorodifluoromethane	ND		0.0050	1	10/02/2013 22:20
1,1-Dichloroethane	ND		0.0050	1	10/02/2013 22:20
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/02/2013 22:20
1,1-Dichloroethene	ND		0.0050	1	10/02/2013 22:20
cis-1,2-Dichloroethene	ND		0.0050	1	10/02/2013 22:20
trans-1,2-Dichloroethene	ND		0.0050	1	10/02/2013 22:20
1,2-Dichloropropane	ND		0.0050	1	10/02/2013 22:20
1,3-Dichloropropane	ND		0.0050	1	10/02/2013 22:20
2,2-Dichloropropane	ND		0.0050	1	10/02/2013 22:20
1,1-Dichloropropene	ND		0.0050	1	10/02/2013 22:20

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWWALL-10'	1310053-007A	Soil	10/02/2013 10:35	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/02/2013 22:20
trans-1,3-Dichloropropene	ND		0.0050	1	10/02/2013 22:20
Diisopropyl ether (DIPE)	ND		0.0050	1	10/02/2013 22:20
Ethylbenzene	ND		0.0050	1	10/02/2013 22:20
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/02/2013 22:20
Freon 113	ND		0.10	1	10/02/2013 22:20
Hexachlorobutadiene	ND		0.0050	1	10/02/2013 22:20
Hexachloroethane	ND		0.0050	1	10/02/2013 22:20
2-Hexanone	ND		0.0050	1	10/02/2013 22:20
Isopropylbenzene	ND		0.0050	1	10/02/2013 22:20
4-Isopropyl toluene	ND		0.0050	1	10/02/2013 22:20
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/02/2013 22:20
Methylene chloride	ND		0.0050	1	10/02/2013 22:20
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/02/2013 22:20
Naphthalene	ND		0.0050	1	10/02/2013 22:20
n-Propyl benzene	ND		0.0050	1	10/02/2013 22:20
Styrene	ND		0.0050	1	10/02/2013 22:20
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/02/2013 22:20
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/02/2013 22:20
Tetrachloroethene	ND		0.0050	1	10/02/2013 22:20
Toluene	ND		0.0050	1	10/02/2013 22:20
1,2,3-Trichlorobenzene	ND		0.0050	1	10/02/2013 22:20
1,2,4-Trichlorobenzene	ND		0.0050	1	10/02/2013 22:20
1,1,1-Trichloroethane	ND		0.0050	1	10/02/2013 22:20
1,1,2-Trichloroethane	ND		0.0050	1	10/02/2013 22:20
Trichloroethene	ND		0.0050	1	10/02/2013 22:20
Trichlorofluoromethane	ND		0.0050	1	10/02/2013 22:20
1,2,3-Trichloropropane	ND		0.0050	1	10/02/2013 22:20
1,2,4-Trimethylbenzene	ND		0.0050	1	10/02/2013 22:20
1,3,5-Trimethylbenzene	ND		0.0050	1	10/02/2013 22:20
Vinyl Chloride	ND		0.0050	1	10/02/2013 22:20
Xylenes, Total	ND		0.0050	1	10/02/2013 22:20
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	97		70-130		10/02/2013 22:20
toluene-d8	100		70-130		10/02/2013 22:20
4-BFB	104		70-130		10/02/2013 22:20

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NEWALL-10'	1310053-008A	Soil	10/02/2013 10:40	GC28	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		100	1000	10/02/2013 15:52
tert-Amyl methyl ether (TAME)	ND		5.0	1000	10/02/2013 15:52
Benzene	17		5.0	1000	10/02/2013 15:52
Bromobenzene	ND		5.0	1000	10/02/2013 15:52
Bromochloromethane	ND		5.0	1000	10/02/2013 15:52
Bromodichloromethane	ND		5.0	1000	10/02/2013 15:52
Bromoform	ND		5.0	1000	10/02/2013 15:52
Bromomethane	ND		5.0	1000	10/02/2013 15:52
2-Butanone (MEK)	ND		20	1000	10/02/2013 15:52
t-Butyl alcohol (TBA)	ND		50	1000	10/02/2013 15:52
n-Butyl benzene	9.3		5.0	1000	10/02/2013 15:52
sec-Butyl benzene	ND		5.0	1000	10/02/2013 15:52
tert-Butyl benzene	ND		5.0	1000	10/02/2013 15:52
Carbon Disulfide	ND		5.0	1000	10/02/2013 15:52
Carbon Tetrachloride	ND		5.0	1000	10/02/2013 15:52
Chlorobenzene	ND		5.0	1000	10/02/2013 15:52
Chloroethane	ND		5.0	1000	10/02/2013 15:52
Chloroform	ND		5.0	1000	10/02/2013 15:52
Chloromethane	ND		5.0	1000	10/02/2013 15:52
2-Chlorotoluene	ND		5.0	1000	10/02/2013 15:52
4-Chlorotoluene	ND		5.0	1000	10/02/2013 15:52
Dibromochloromethane	ND		5.0	1000	10/02/2013 15:52
1,2-Dibromo-3-chloropropane	ND		4.0	1000	10/02/2013 15:52
1,2-Dibromoethane (EDB)	ND		4.0	1000	10/02/2013 15:52
Dibromomethane	ND		5.0	1000	10/02/2013 15:52
1,2-Dichlorobenzene	ND		5.0	1000	10/02/2013 15:52
1,3-Dichlorobenzene	ND		5.0	1000	10/02/2013 15:52
1,4-Dichlorobenzene	ND		5.0	1000	10/02/2013 15:52
Dichlorodifluoromethane	ND		5.0	1000	10/02/2013 15:52
1,1-Dichloroethane	ND		5.0	1000	10/02/2013 15:52
1,2-Dichloroethane (1,2-DCA)	ND		4.0	1000	10/02/2013 15:52
1,1-Dichloroethene	ND		5.0	1000	10/02/2013 15:52
cis-1,2-Dichloroethene	ND		5.0	1000	10/02/2013 15:52
trans-1,2-Dichloroethene	ND		5.0	1000	10/02/2013 15:52
1,2-Dichloropropane	ND		5.0	1000	10/02/2013 15:52
1,3-Dichloropropane	ND		5.0	1000	10/02/2013 15:52
2,2-Dichloropropane	ND		5.0	1000	10/02/2013 15:52
1,1-Dichloropropene	ND		5.0	1000	10/02/2013 15:52

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NEWALL-10'	1310053-008A	Soil	10/02/2013 10:40	GC28	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		5.0	1000	10/02/2013 15:52
trans-1,3-Dichloropropene	ND		5.0	1000	10/02/2013 15:52
Diisopropyl ether (DIPE)	ND		5.0	1000	10/02/2013 15:52
Ethylbenzene	39		5.0	1000	10/02/2013 15:52
Ethyl tert-butyl ether (ETBE)	ND		5.0	1000	10/02/2013 15:52
Freon 113	ND		100	1000	10/02/2013 15:52
Hexachlorobutadiene	ND		5.0	1000	10/02/2013 15:52
Hexachloroethane	ND		5.0	1000	10/02/2013 15:52
2-Hexanone	ND		5.0	1000	10/02/2013 15:52
Isopropylbenzene	ND		5.0	1000	10/02/2013 15:52
4-Isopropyl toluene	ND		5.0	1000	10/02/2013 15:52
Methyl-t-butyl ether (MTBE)	ND		5.0	1000	10/02/2013 15:52
Methylene chloride	ND		5.0	1000	10/02/2013 15:52
4-Methyl-2-pentanone (MIBK)	ND		5.0	1000	10/02/2013 15:52
Naphthalene	10		5.0	1000	10/02/2013 15:52
n-Propyl benzene	14		5.0	1000	10/02/2013 15:52
Styrene	ND		5.0	1000	10/02/2013 15:52
1,1,1,2-Tetrachloroethane	ND		5.0	1000	10/02/2013 15:52
1,1,2,2-Tetrachloroethane	ND		5.0	1000	10/02/2013 15:52
Tetrachloroethene	ND		0.50	100	10/03/2013 13:28
Toluene	94		5.0	1000	10/02/2013 15:52
1,2,3-Trichlorobenzene	ND		5.0	1000	10/02/2013 15:52
1,2,4-Trichlorobenzene	ND		5.0	1000	10/02/2013 15:52
1,1,1-Trichloroethane	ND		5.0	1000	10/02/2013 15:52
1,1,2-Trichloroethane	ND		5.0	1000	10/02/2013 15:52
Trichloroethene	ND		5.0	1000	10/02/2013 15:52
Trichlorofluoromethane	ND		5.0	1000	10/02/2013 15:52
1,2,3-Trichloropropane	ND		5.0	1000	10/02/2013 15:52
1,2,4-Trimethylbenzene	74		5.0	1000	10/02/2013 15:52
1,3,5-Trimethylbenzene	22		5.0	1000	10/02/2013 15:52
Vinyl Chloride	ND		5.0	1000	10/02/2013 15:52
Xylenes, Total	170		5.0	1000	10/02/2013 15:52
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	102		70-130		10/02/2013 15:52
toluene-d8	97		70-130		10/02/2013 15:52
4-BFB	87		70-130		10/02/2013 15:52

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NWALL-6'	1310053-009A	Soil	10/02/2013 10:50	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/03/2013 12:13
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/03/2013 12:13
Benzene	ND		0.0050	1	10/03/2013 12:13
Bromobenzene	ND		0.0050	1	10/03/2013 12:13
Bromochloromethane	ND		0.0050	1	10/03/2013 12:13
Bromodichloromethane	ND		0.0050	1	10/03/2013 12:13
Bromoform	ND		0.0050	1	10/03/2013 12:13
Bromomethane	ND		0.0050	1	10/03/2013 12:13
2-Butanone (MEK)	ND		0.020	1	10/03/2013 12:13
t-Butyl alcohol (TBA)	ND		0.050	1	10/03/2013 12:13
n-Butyl benzene	ND		0.0050	1	10/03/2013 12:13
sec-Butyl benzene	ND		0.0050	1	10/03/2013 12:13
tert-Butyl benzene	ND		0.0050	1	10/03/2013 12:13
Carbon Disulfide	ND		0.0050	1	10/03/2013 12:13
Carbon Tetrachloride	ND		0.0050	1	10/03/2013 12:13
Chlorobenzene	ND		0.0050	1	10/03/2013 12:13
Chloroethane	ND		0.0050	1	10/03/2013 12:13
Chloroform	ND		0.0050	1	10/03/2013 12:13
Chloromethane	ND		0.0050	1	10/03/2013 12:13
2-Chlorotoluene	ND		0.0050	1	10/03/2013 12:13
4-Chlorotoluene	ND		0.0050	1	10/03/2013 12:13
Dibromochloromethane	ND		0.0050	1	10/03/2013 12:13
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/03/2013 12:13
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/03/2013 12:13
Dibromomethane	ND		0.0050	1	10/03/2013 12:13
1,2-Dichlorobenzene	ND		0.0050	1	10/03/2013 12:13
1,3-Dichlorobenzene	ND		0.0050	1	10/03/2013 12:13
1,4-Dichlorobenzene	ND		0.0050	1	10/03/2013 12:13
Dichlorodifluoromethane	ND		0.0050	1	10/03/2013 12:13
1,1-Dichloroethane	ND		0.0050	1	10/03/2013 12:13
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/03/2013 12:13
1,1-Dichloroethene	ND		0.0050	1	10/03/2013 12:13
cis-1,2-Dichloroethene	ND		0.0050	1	10/03/2013 12:13
trans-1,2-Dichloroethene	ND		0.0050	1	10/03/2013 12:13
1,2-Dichloropropane	ND		0.0050	1	10/03/2013 12:13
1,3-Dichloropropane	ND		0.0050	1	10/03/2013 12:13
2,2-Dichloropropane	ND		0.0050	1	10/03/2013 12:13
1,1-Dichloropropene	ND		0.0050	1	10/03/2013 12:13

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NWALL-6'	1310053-009A	Soil	10/02/2013 10:50	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/03/2013 12:13
trans-1,3-Dichloropropene	ND		0.0050	1	10/03/2013 12:13
Diisopropyl ether (DIPE)	ND		0.0050	1	10/03/2013 12:13
Ethylbenzene	ND		0.0050	1	10/03/2013 12:13
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/03/2013 12:13
Freon 113	ND		0.10	1	10/03/2013 12:13
Hexachlorobutadiene	ND		0.0050	1	10/03/2013 12:13
Hexachloroethane	ND		0.0050	1	10/03/2013 12:13
2-Hexanone	ND		0.0050	1	10/03/2013 12:13
Isopropylbenzene	ND		0.0050	1	10/03/2013 12:13
4-Isopropyl toluene	ND		0.0050	1	10/03/2013 12:13
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/03/2013 12:13
Methylene chloride	ND		0.0050	1	10/03/2013 12:13
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/03/2013 12:13
Naphthalene	ND		0.0050	1	10/03/2013 12:13
n-Propyl benzene	ND		0.0050	1	10/03/2013 12:13
Styrene	ND		0.0050	1	10/03/2013 12:13
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/03/2013 12:13
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/03/2013 12:13
Tetrachloroethene	ND		0.0050	1	10/03/2013 12:13
Toluene	ND		0.0050	1	10/03/2013 12:13
1,2,3-Trichlorobenzene	ND		0.0050	1	10/03/2013 12:13
1,2,4-Trichlorobenzene	ND		0.0050	1	10/03/2013 12:13
1,1,1-Trichloroethane	ND		0.0050	1	10/03/2013 12:13
1,1,2-Trichloroethane	ND		0.0050	1	10/03/2013 12:13
Trichloroethene	ND		0.0050	1	10/03/2013 12:13
Trichlorofluoromethane	ND		0.0050	1	10/03/2013 12:13
1,2,3-Trichloropropane	ND		0.0050	1	10/03/2013 12:13
1,2,4-Trimethylbenzene	ND		0.0050	1	10/03/2013 12:13
1,3,5-Trimethylbenzene	ND		0.0050	1	10/03/2013 12:13
Vinyl Chloride	ND		0.0050	1	10/03/2013 12:13
Xylenes, Total	ND		0.0050	1	10/03/2013 12:13
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	95		70-130		10/03/2013 12:13
toluene-d8	104		70-130		10/03/2013 12:13
4-BFB	103		70-130		10/03/2013 12:13



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13-10/3/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SE Corner-10'	1310053-001A	Soil	10/02/2013 10:15	GC7	82348
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	380		25	25	10/02/2013 18:54
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	Analytical Comments: d1,c4	
2-fluorotoluene	43	S	70-130		10/02/2013 18:54
WW-1-9'	1310053-002A	Soil	10/02/2013 09:54	GC7	82348
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	3200		330	330	10/02/2013 19:24
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d1	
2-fluorotoluene	84		70-130		10/02/2013 19:24
NWALL-10'	1310053-003A	Soil	10/02/2013 10:45	GC7	82348
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	790		200	200	10/02/2013 23:25
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d1	
aaa-TFT	97		70-130		10/02/2013 23:25
NBOT-12.5	1310053-004A	Soil	10/02/2013 07:40	GC19	82395
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		1.0	1	10/03/2013 16:08
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-fluorotoluene	101		70-130		10/03/2013 16:08
SBOT-10	1310053-005A	Soil	10/02/2013 08:17	GC19	82395
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	11		1.0	1	10/03/2013 16:38
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d7	
2-fluorotoluene	92		70-130		10/03/2013 16:38

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13-10/3/13

WorkOrder: 1310053
Extraction Method: SW5030B
Analytical Method: SW8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWALL-9'	1310053-006A	Soil	10/02/2013 10:20	GC7	82348
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		1.0	1	10/02/2013 21:55
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-fluorotoluene	111		70-130		10/02/2013 21:55
SWWALL-10'	1310053-007A	Soil	10/02/2013 10:35	GC19	82395
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		1.0	1	10/03/2013 17:08
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-fluorotoluene	101		70-130		10/03/2013 17:08
NEWALL-10'	1310053-008A	Soil	10/02/2013 10:40	GC7	82377
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	620		200	200	10/02/2013 23:55
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d1	
aaa-TFT	99		70-130		10/02/2013 23:55
NWALL-6'	1310053-009A	Soil	10/02/2013 10:50	GC19	82377
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		1.0	1	10/03/2013 11:48
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-fluorotoluene	113		70-130		10/03/2013 11:48



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SE Corner-10'	1310053-001A	Soil	10/02/2013 10:15	GC11A	82347
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	54		1.0	1	10/02/2013 15:37
TPH-Motor Oil (C18-C36)	7.7		5.0	1	10/02/2013 15:37
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4,e7,e2	
C9	112		70-130		10/02/2013 15:37
WW-1-9'	1310053-002A	Soil	10/02/2013 09:54	GC6A	82347
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1300		100	100	10/03/2013 10:48
TPH-Motor Oil (C18-C36)	2100		500	100	10/03/2013 10:48
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	Analytical Comments: e7,e4,e2,c1	
C9	178	S	70-130		10/03/2013 10:48
NWALL-10'	1310053-003A	Soil	10/02/2013 10:45	GC11A	82347
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	270		5.0	5	10/03/2013 14:21
TPH-Motor Oil (C18-C36)	110		25	5	10/03/2013 14:21
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4,e7,e2	
C9	115		70-130		10/03/2013 14:21
NBOT-12.5	1310053-004A	Soil	10/02/2013 07:40	GC6A	82347
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	10/02/2013 19:12
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/02/2013 19:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	102		70-130		10/02/2013 19:12

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SBOT-10	1310053-005A	Soil	10/02/2013 08:17	GC6B	82347
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	10/02/2013 22:49
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/02/2013 22:49
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	114		70-130		10/02/2013 22:49
SWALL-9'	1310053-006A	Soil	10/02/2013 10:20	GC6B	82347
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	10/02/2013 21:36
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/02/2013 21:36
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	121		70-130		10/02/2013 21:36
SWWALL-10'	1310053-007A	Soil	10/02/2013 10:35	GC6B	82376
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	10/02/2013 19:12
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/02/2013 19:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	121		70-130		10/02/2013 19:12
NEWALL-10'	1310053-008A	Soil	10/02/2013 10:40	GC11A	82376
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	330		1.0	1	10/02/2013 16:59
TPH-Motor Oil (C18-C36)	280		5.0	1	10/02/2013 16:59
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4,e7,e2	
C9	118		70-130		10/02/2013 16:59

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 11:57
Date Prepared: 10/2/13

WorkOrder: 1310053
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NWALL-6'	1310053-009A	Soil	10/02/2013 10:50	GC6B	82376
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	10/02/2013 20:24
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/02/2013 20:24
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	113		70-130		10/02/2013 20:24



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/2/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310053
BatchID: 82363
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82363
 1310044-001AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.04812	0.0050	0.050	-	96.2	70-130
Benzene	ND	0.0455	0.0050	0.050	-	91	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.2368	0.050	0.20	-	118	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.04503	0.0050	0.050	-	90.1	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.04624	0.0040	0.050	-	92.5	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.04644	0.0040	0.050	-	92.9	70-130
1,1-Dichloroethene	ND	0.03772	0.0050	0.050	-	75.4	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/2/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310053
BatchID: 82363
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82363
 1310044-001AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.05123	0.0050	0.050	-	102	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.04833	0.0050	0.050	-	96.7	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.05048	0.0050	0.050	-	101	70-130
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0481	0.0050	0.050	-	96.2	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0386	0.0050	0.050	-	77.2	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

Surrogate Recovery

dibromofluoromethane	0.122	0.1229		0.12	98	98	70-130
toluene-d8	0.1279	0.1291		0.12	102	103	70-130
4-BFB	0.01295	0.01269		0.012	104	102	70-130

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/2/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310053
BatchID: 82363
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82363
 1310044-001AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.04383	0.04046	0.050	ND	87.7	80.9	56-94	8.01	30
Benzene	0.04014	0.03992	0.050	ND	80.3	79.8	60-106	0.551	30
t-Butyl alcohol (TBA)	0.2068	0.2111	0.20	ND	103	106	56-140	2.08	30
Chlorobenzene	0.03987	0.0397	0.050	ND	79.7	79.4	61-108	0.437	30
1,2-Dibromoethane (EDB)	0.04174	0.04098	0.050	ND	83.5	82	54-119	1.82	30
1,2-Dichloroethane (1,2-DCA)	0.04084	0.04029	0.050	ND	81.7	80.6	48-115	1.36	30
1,1-Dichloroethene	0.03306	0.03266	0.050	ND	66.1	65.3	46-111	1.20	30
Diisopropyl ether (DIPE)	0.04554	0.04524	0.050	ND	91.1	90.5	53-111	0.663	30
Ethyl tert-butyl ether (ETBE)	0.04355	0.04289	0.050	ND	87.1	85.8	61-104	1.53	30
Methyl-t-butyl ether (MTBE)	0.04492	0.04465	0.050	ND	89.8	89.3	58-107	0.597	30
Toluene	0.04208	0.04157	0.050	ND	84.2	83.1	64-114	1.22	30
Trichloroethene	0.03404	0.03359	0.050	ND	68.1	67.2	60-116	1.35	30
Surrogate Recovery									
dibromofluoromethane	0.1219	0.1225	0.12		98	98	70-130	0	30
toluene-d8	0.1279	0.127	0.12		102	102	70-130	0	30
4-BFB	0.0128	0.01267	0.012		102	101	70-130	1.06	30



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/1/13
Date Analyzed: 10/3/13
Instrument: GC7
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310053
BatchID: 82348
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-82348
 1310053-006AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.5908	0.40	0.60	-	98.5	70-130
MTBE	ND	0.07411	0.050	0.10	-	74.1	70-130
Benzene	ND	0.09986	0.0050	0.10	-	99.9	70-130
Toluene	ND	0.09697	0.0050	0.10	-	97	70-130
Ethylbenzene	ND	0.1099	0.0050	0.10	-	110	70-130
Xylenes	ND	0.3367	0.0050	0.30	-	112	70-130

Surrogate Recovery

2-fluorotoluene	0.118	0.1152		0.10	118	115	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.5708	0.6003	0.60	ND	95.1	100	70-130	5.04	20
MTBE	0.08551	0.08347	0.10	ND	85.5	83.5	70-130	2.42	20
Benzene	0.1084	0.1085	0.10	ND	108	108	70-130	0	20
Toluene	0.1042	0.1037	0.10	ND	104	104	70-130	0	20
Ethylbenzene	0.1142	0.1156	0.10	ND	114	116	70-130	1.25	20
Xylenes	0.3591	0.3664	0.30	ND	120	122	70-130	2.02	20

Surrogate Recovery

2-fluorotoluene	0.1244	0.1245	0.10		124	124	70-130	0	20
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(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/3/13
Instrument: GC7
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310053
BatchID: 82377
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-82377
 1310053-009AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.5616	0.40	0.60	-	93.6	70-130
MTBE	ND	0.08119	0.050	0.10	-	81.2	70-130
Benzene	ND	0.1127	0.0050	0.10	-	113	70-130
Toluene	ND	0.1078	0.0050	0.10	-	108	70-130
Ethylbenzene	ND	0.1162	0.0050	0.10	-	116	70-130
Xylenes	ND	0.368	0.0050	0.30	-	123	70-130

Surrogate Recovery

2-fluorotoluene	0.1233	0.1251		0.10	123	125	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.6656	0.6204	0.60	ND	111	103	70-130	7.02	20
MTBE	0.08135	0.07919	0.10	ND	81.4	79.2	70-130	2.69	20
Benzene	0.1121	0.1111	0.10	ND	112	111	70-130	0.866	20
Toluene	0.1185	0.1177	0.10	ND	118	118	70-130	0	20
Ethylbenzene	0.1135	0.1116	0.10	ND	113	112	70-130	1.68	20
Xylenes	0.3591	0.3556	0.30	ND	120	119	70-130	0.966	20

Surrogate Recovery

2-fluorotoluene	0.1064	0.108	0.10		106	108	70-130	1.40	20
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(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/3/13
Instrument: GC19
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310053
BatchID: 82395
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-82395
 1310079-002AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.6198	0.40	0.60	-	103	70-130
MTBE	ND	0.0787	0.050	0.10	-	78.7	70-130
Benzene	ND	0.116	0.0050	0.10	-	116	70-130
Toluene	ND	0.121	0.0050	0.10	-	121	70-130
Ethylbenzene	ND	0.1193	0.0050	0.10	-	119	70-130
Xylenes	ND	0.3665	0.0050	0.30	-	122	70-130

Surrogate Recovery

2-fluorotoluene	0.1145	0.1173		0.10	115	117	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR	0	470	NR	NR	-	NR	
MTBE	NR	NR	0	ND<76	NR	NR	-	NR	
Benzene	NR	NR	0	4.7	NR	NR	-	NR	
Toluene	NR	NR	0	7.1	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	42	NR	NR	-	NR	
Xylenes	NR	NR	0	8.0	NR	NR	-	NR	

Surrogate Recovery

2-fluorotoluene	NR	NR	0		NR	NR	-	NR	
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Quality Control Report

Client: AEI Consultants
Date Prepared: 10/1/13
Date Analyzed: 10/3/13
Instrument: GC6A, GC6B
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310053
BatchID: 82347
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-82347

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.38	1.0	40	-	98.4	70-130
Surrogate Recovery							
C9	26.16	21.37		25	105	85	70-130



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/2/13
Instrument: GC6A
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310053
BatchID: 82376
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-82376

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	41.03	1.0	40	-	103	70-130
Surrogate Recovery							
C9	22.95	22.59		25	92	90	70-130



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1310053

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Jeremy Smith
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com
cc:
PO: #WC084376
ProjectNo: #298931; FSI

Bill to:

Sara Guerin
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.c

Requested TAT:

1 day

Date Received: 10/02/2013

Date Printed: 10/03/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1310053-001	SE Corner-10'	Soil	10/2/2013 10:15	<input type="checkbox"/>	A	A	A	A									
1310053-002	WW-1-9'	Soil	10/2/2013 9:54	<input type="checkbox"/>	A		A	A									
1310053-003	NWALL-10'	Soil	10/2/2013 10:45	<input type="checkbox"/>	A		A	A									
1310053-004	NBOT-12.5	Soil	10/2/2013 7:40	<input type="checkbox"/>	A			A									
1310053-005	SBOT-10	Soil	10/2/2013 8:17	<input type="checkbox"/>	A			A									
1310053-006	SWALL-9'	Soil	10/2/2013 10:20	<input type="checkbox"/>	A			A									
1310053-007	SWWALL-10'	Soil	10/2/2013 10:35	<input type="checkbox"/>	A			A									
1310053-008	NEWALL-10'	Soil	10/2/2013 10:40	<input type="checkbox"/>	A		A	A									
1310053-009	NWALL-6'	Soil	10/2/2013 10:50	<input type="checkbox"/>	A			A									

Test Legend:

1	8260B_S	2	PREFDF REPORT	3	PRMISC	4	TPH(DMO)WSG_S	5	
6		7		8		9		10	
11		12							

The following SamplIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A contain testgroup.

Prepared by: Maria Venegas

Comments: Same Day/24hr; -001, -002, -003 & -008 rr @ lower DF for PCE per request

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

1310053

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR
 48 HR
 72 HR
 5 DAY
 EDF Required? Yes No
 PDF Required? Yes No

Same Day

RUSH

Report To: Jeremy Smith Bill To: AEI Consultants
 Company: AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597
 PO# WC0843 **76** Global ID: T0600100655
 E-Mail: jsmith@aeiconsultatns.com
 Telephone: (925) 746-6000, ext 1128 Fax: (925) 746-6099
 AEI Project No. 298931 Project Name: FSI
 Project Location: 1630 Park St., Alameda, CA 94501
 Sampler Signature: *[Signature]*

SAMPLE ID		FIELD POINT NAME		SAMPLING		MATRIX					METHOD PRESERVED			Analysis Request	Other	Comments
Date	Time	# of Containers	Type Containers	Water	Soil	Air	Sludge	Other	Ice	HCL	HNO ₃	Other	HOLD			
SE Corner-10'		10-2-43	1015	1	Liner	X			X	X		X				
WW-1-9'		↓	954	↓	↓	↓			↓	X		X				
SWALL-10'			1045	↓	↓	↓			↓	X		X				
SWALL-10'										X		X				
N BOT-12.5'			740	1	Lim	X			X	X		X				
S BOT-10'			8:17	1	↓	X			X	X		X				
SWALL-9'			10:20	1	↓	X			X	X		X				
SWALL-10'			1035	1	↓	X			X	X		X				
NEW ALL-10'			1040	1	↓	X			X	X		X				
NEW ALL-6'			1050	1	↓	X			X	X		X				

TPH-G (EPA 8015 M)
TPH-D / TPH-AO (EPA 8015 M w/ Silica Gel Clean-up)

BTEX, MTBE (EPA 8260B)

VOCS 8260B

24 HR

24 HR

Same Day

** Samples have elevated hydrocarbons and screens*
Please use lowest detection limit of PCE possible

Relinquished By: *[Signature]* Date: 10-2-13 Time: 1145
 Received By: *[Signature]*
 Relinquished By: Date: Time: Received By:
 Relinquished By: Date: Time: Received By:

ICE/t° 5.4 VOAS O&G METALS OTHER
 GOOD CONDITION PRESERVATION APPROPRIATE
 HEAD SPACE ABSENT CONTAINERS
 DECHLORINATED IN LAB PERSERVED IN LAB



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **10/2/2013 11:57:43 AM**
 Project Name: **#298931; FSI** Login Reviewed by: **Maria Venegas**
 WorkOrder N°: **1310053** Matrix: Soil Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 5.4°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1310146

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Andrew Wallace
Project P.O.: #WC084378
Project Name: #298931; 1630 Park St. Alameda

Project Received: 10/04/2013

Analytical Report reviewed & approved for release on 10/07/2013 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #298931; 1630 Park St. Alameda
WorkOrder: 1310146

Glossary Abbreviation

Description

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Analytical Qualifier

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant

Quality Control Qualifier

F2	LCS recovery for this compound is outside of acceptance limits.
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Analytical Report

Client: AEI Consultants **WorkOrder:** 1310146
Project: #298931; 1630 Park St. Alameda **Extraction Method:** SW5030B
Date Received: 10/4/13 9:48 **Analytical Method:** SW8260B
Date Prepared: 10/4/13 **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
N Wall2-10'	1310146-001A	Soil	10/04/2013 07:20	GC16	82464
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		100	1000	10/04/2013 13:29
tert-Amyl methyl ether (TAME)	ND		5.0	1000	10/04/2013 13:29
Benzene	ND		5.0	1000	10/04/2013 13:29
Bromobenzene	ND		5.0	1000	10/04/2013 13:29
Bromochloromethane	ND		5.0	1000	10/04/2013 13:29
Bromodichloromethane	ND		5.0	1000	10/04/2013 13:29
Bromoform	ND		5.0	1000	10/04/2013 13:29
Bromomethane	ND		5.0	1000	10/04/2013 13:29
2-Butanone (MEK)	ND		20	1000	10/04/2013 13:29
t-Butyl alcohol (TBA)	ND		50	1000	10/04/2013 13:29
n-Butyl benzene	9.1		5.0	1000	10/04/2013 13:29
sec-Butyl benzene	ND		5.0	1000	10/04/2013 13:29
tert-Butyl benzene	ND		5.0	1000	10/04/2013 13:29
Carbon Disulfide	ND		5.0	1000	10/04/2013 13:29
Carbon Tetrachloride	ND		5.0	1000	10/04/2013 13:29
Chlorobenzene	ND		5.0	1000	10/04/2013 13:29
Chloroethane	ND		5.0	1000	10/04/2013 13:29
Chloroform	ND		5.0	1000	10/04/2013 13:29
Chloromethane	ND		5.0	1000	10/04/2013 13:29
2-Chlorotoluene	ND		5.0	1000	10/04/2013 13:29
4-Chlorotoluene	ND		5.0	1000	10/04/2013 13:29
Dibromochloromethane	ND		5.0	1000	10/04/2013 13:29
1,2-Dibromo-3-chloropropane	ND		4.0	1000	10/04/2013 13:29
1,2-Dibromoethane (EDB)	ND		4.0	1000	10/04/2013 13:29
Dibromomethane	ND		5.0	1000	10/04/2013 13:29
1,2-Dichlorobenzene	ND		5.0	1000	10/04/2013 13:29
1,3-Dichlorobenzene	ND		5.0	1000	10/04/2013 13:29
1,4-Dichlorobenzene	ND		5.0	1000	10/04/2013 13:29
Dichlorodifluoromethane	ND		5.0	1000	10/04/2013 13:29
1,1-Dichloroethane	ND		5.0	1000	10/04/2013 13:29
1,2-Dichloroethane (1,2-DCA)	ND		4.0	1000	10/04/2013 13:29
1,1-Dichloroethene	ND		5.0	1000	10/04/2013 13:29
cis-1,2-Dichloroethene	ND		5.0	1000	10/04/2013 13:29
trans-1,2-Dichloroethene	ND		5.0	1000	10/04/2013 13:29
1,2-Dichloropropane	ND		5.0	1000	10/04/2013 13:29
1,3-Dichloropropane	ND		5.0	1000	10/04/2013 13:29
2,2-Dichloropropane	ND		5.0	1000	10/04/2013 13:29
1,1-Dichloropropene	ND		5.0	1000	10/04/2013 13:29

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Analytical Report

Client: AEI Consultants **WorkOrder:** 1310146
Project: #298931; 1630 Park St. Alameda **Extraction Method:** SW5030B
Date Received: 10/4/13 9:48 **Analytical Method:** SW8260B
Date Prepared: 10/4/13 **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
N Wall2-10'	1310146-001A	Soil	10/04/2013 07:20	GC16	82464
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		5.0	1000	10/04/2013 13:29
trans-1,3-Dichloropropene	ND		5.0	1000	10/04/2013 13:29
Diisopropyl ether (DIPE)	ND		5.0	1000	10/04/2013 13:29
Ethylbenzene	25		5.0	1000	10/04/2013 13:29
Ethyl tert-butyl ether (ETBE)	ND		5.0	1000	10/04/2013 13:29
Freon 113	ND		100	1000	10/04/2013 13:29
Hexachlorobutadiene	ND		5.0	1000	10/04/2013 13:29
Hexachloroethane	ND		5.0	1000	10/04/2013 13:29
2-Hexanone	ND		5.0	1000	10/04/2013 13:29
Isopropylbenzene	ND		5.0	1000	10/04/2013 13:29
4-Isopropyl toluene	ND		5.0	1000	10/04/2013 13:29
Methyl-t-butyl ether (MTBE)	ND		5.0	1000	10/04/2013 13:29
Methylene chloride	ND		5.0	1000	10/04/2013 13:29
4-Methyl-2-pentanone (MIBK)	ND		5.0	1000	10/04/2013 13:29
Naphthalene	12		5.0	1000	10/04/2013 13:29
n-Propyl benzene	9.8		5.0	1000	10/04/2013 13:29
Styrene	ND		5.0	1000	10/04/2013 13:29
1,1,1,2-Tetrachloroethane	ND		5.0	1000	10/04/2013 13:29
1,1,2,2-Tetrachloroethane	ND		5.0	1000	10/04/2013 13:29
Tetrachloroethene	ND		5.0	1000	10/04/2013 13:29
Toluene	17		5.0	1000	10/04/2013 13:29
1,2,3-Trichlorobenzene	ND		5.0	1000	10/04/2013 13:29
1,2,4-Trichlorobenzene	ND		5.0	1000	10/04/2013 13:29
1,1,1-Trichloroethane	ND		5.0	1000	10/04/2013 13:29
1,1,2-Trichloroethane	ND		5.0	1000	10/04/2013 13:29
Trichloroethene	ND		5.0	1000	10/04/2013 13:29
Trichlorofluoromethane	ND		5.0	1000	10/04/2013 13:29
1,2,3-Trichloropropane	ND		5.0	1000	10/04/2013 13:29
1,2,4-Trimethylbenzene	66		5.0	1000	10/04/2013 13:29
1,3,5-Trimethylbenzene	20		5.0	1000	10/04/2013 13:29
Vinyl Chloride	ND		5.0	1000	10/04/2013 13:29
Xylenes, Total	110		5.0	1000	10/04/2013 13:29
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	99		70-130		10/04/2013 13:29
toluene-d8	95		70-130		10/04/2013 13:29
4-BFB	89		70-130		10/04/2013 13:29

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Analytical Report

Client: AEI Consultants **WorkOrder:** 1310146
Project: #298931; 1630 Park St. Alameda **Extraction Method:** SW5030B
Date Received: 10/4/13 9:48 **Analytical Method:** SW8260B
Date Prepared: 10/4/13 **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NE Wall2-10'	1310146-002A	Soil	10/04/2013 08:00	GC16	82464
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		400	4000	10/04/2013 15:37
tert-Amyl methyl ether (TAME)	ND		20	4000	10/04/2013 15:37
Benzene	29		20	4000	10/04/2013 15:37
Bromobenzene	ND		20	4000	10/04/2013 15:37
Bromochloromethane	ND		20	4000	10/04/2013 15:37
Bromodichloromethane	ND		20	4000	10/04/2013 15:37
Bromoform	ND		20	4000	10/04/2013 15:37
Bromomethane	ND		20	4000	10/04/2013 15:37
2-Butanone (MEK)	ND		80	4000	10/04/2013 15:37
t-Butyl alcohol (TBA)	ND		200	4000	10/04/2013 15:37
n-Butyl benzene	37		20	4000	10/04/2013 15:37
sec-Butyl benzene	ND		20	4000	10/04/2013 15:37
tert-Butyl benzene	ND		20	4000	10/04/2013 15:37
Carbon Disulfide	ND		20	4000	10/04/2013 15:37
Carbon Tetrachloride	ND		20	4000	10/04/2013 15:37
Chlorobenzene	ND		20	4000	10/04/2013 15:37
Chloroethane	ND		20	4000	10/04/2013 15:37
Chloroform	ND		20	4000	10/04/2013 15:37
Chloromethane	ND		20	4000	10/04/2013 15:37
2-Chlorotoluene	ND		20	4000	10/04/2013 15:37
4-Chlorotoluene	ND		20	4000	10/04/2013 15:37
Dibromochloromethane	ND		20	4000	10/04/2013 15:37
1,2-Dibromo-3-chloropropane	ND		16	4000	10/04/2013 15:37
1,2-Dibromoethane (EDB)	ND		16	4000	10/04/2013 15:37
Dibromomethane	ND		20	4000	10/04/2013 15:37
1,2-Dichlorobenzene	ND		20	4000	10/04/2013 15:37
1,3-Dichlorobenzene	ND		20	4000	10/04/2013 15:37
1,4-Dichlorobenzene	ND		20	4000	10/04/2013 15:37
Dichlorodifluoromethane	ND		20	4000	10/04/2013 15:37
1,1-Dichloroethane	ND		20	4000	10/04/2013 15:37
1,2-Dichloroethane (1,2-DCA)	ND		16	4000	10/04/2013 15:37
1,1-Dichloroethene	ND		20	4000	10/04/2013 15:37
cis-1,2-Dichloroethene	ND		20	4000	10/04/2013 15:37
trans-1,2-Dichloroethene	ND		20	4000	10/04/2013 15:37
1,2-Dichloropropane	ND		20	4000	10/04/2013 15:37
1,3-Dichloropropane	ND		20	4000	10/04/2013 15:37
2,2-Dichloropropane	ND		20	4000	10/04/2013 15:37
1,1-Dichloropropene	ND		20	4000	10/04/2013 15:37

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Analytical Report

Client: AEI Consultants **WorkOrder:** 1310146
Project: #298931; 1630 Park St. Alameda **Extraction Method:** SW5030B
Date Received: 10/4/13 9:48 **Analytical Method:** SW8260B
Date Prepared: 10/4/13 **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NE Wall2-10'	1310146-002A	Soil	10/04/2013 08:00	GC16	82464
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		20	4000	10/04/2013 15:37
trans-1,3-Dichloropropene	ND		20	4000	10/04/2013 15:37
Diisopropyl ether (DIPE)	ND		20	4000	10/04/2013 15:37
Ethylbenzene	150		20	4000	10/04/2013 15:37
Ethyl tert-butyl ether (ETBE)	ND		20	4000	10/04/2013 15:37
Freon 113	ND		400	4000	10/04/2013 15:37
Hexachlorobutadiene	ND		20	4000	10/04/2013 15:37
Hexachloroethane	ND		20	4000	10/04/2013 15:37
2-Hexanone	ND		20	4000	10/04/2013 15:37
Isopropylbenzene	ND		20	4000	10/04/2013 15:37
4-Isopropyl toluene	ND		20	4000	10/04/2013 15:37
Methyl-t-butyl ether (MTBE)	ND		20	4000	10/04/2013 15:37
Methylene chloride	ND		20	4000	10/04/2013 15:37
4-Methyl-2-pentanone (MIBK)	ND		20	4000	10/04/2013 15:37
Naphthalene	59		20	4000	10/04/2013 15:37
n-Propyl benzene	45		20	4000	10/04/2013 15:37
Styrene	ND		20	4000	10/04/2013 15:37
1,1,1,2-Tetrachloroethane	ND		20	4000	10/04/2013 15:37
1,1,2,2-Tetrachloroethane	ND		20	4000	10/04/2013 15:37
Tetrachloroethene	ND		20	4000	10/04/2013 15:37
Toluene	350		20	4000	10/04/2013 15:37
1,2,3-Trichlorobenzene	ND		20	4000	10/04/2013 15:37
1,2,4-Trichlorobenzene	ND		20	4000	10/04/2013 15:37
1,1,1-Trichloroethane	ND		20	4000	10/04/2013 15:37
1,1,2-Trichloroethane	ND		20	4000	10/04/2013 15:37
Trichloroethene	ND		20	4000	10/04/2013 15:37
Trichlorofluoromethane	ND		20	4000	10/04/2013 15:37
1,2,3-Trichloropropane	ND		20	4000	10/04/2013 15:37
1,2,4-Trimethylbenzene	270		20	4000	10/04/2013 15:37
1,3,5-Trimethylbenzene	85		20	4000	10/04/2013 15:37
Vinyl Chloride	ND		20	4000	10/04/2013 15:37
Xylenes, Total	680		20	4000	10/04/2013 15:37
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	99		70-130		10/04/2013 15:37
toluene-d8	94		70-130		10/04/2013 15:37
4-BFB	92		70-130		10/04/2013 15:37

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Analytical Report

Client: AEI Consultants **WorkOrder:** 1310146
Project: #298931; 1630 Park St. Alameda **Extraction Method:** SW5030B
Date Received: 10/4/13 9:48 **Analytical Method:** SW8260B
Date Prepared: 10/4/13 **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NE Wall2-6'	1310146-003A	Soil	10/04/2013 08:00	GC16	82495
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/04/2013 12:46
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/04/2013 12:46
Benzene	ND		0.0050	1	10/04/2013 12:46
Bromobenzene	ND		0.0050	1	10/04/2013 12:46
Bromochloromethane	ND		0.0050	1	10/04/2013 12:46
Bromodichloromethane	ND		0.0050	1	10/04/2013 12:46
Bromoform	ND		0.0050	1	10/04/2013 12:46
Bromomethane	ND		0.0050	1	10/04/2013 12:46
2-Butanone (MEK)	ND		0.020	1	10/04/2013 12:46
t-Butyl alcohol (TBA)	ND		0.050	1	10/04/2013 12:46
n-Butyl benzene	ND		0.0050	1	10/04/2013 12:46
sec-Butyl benzene	ND		0.0050	1	10/04/2013 12:46
tert-Butyl benzene	ND		0.0050	1	10/04/2013 12:46
Carbon Disulfide	ND		0.0050	1	10/04/2013 12:46
Carbon Tetrachloride	ND		0.0050	1	10/04/2013 12:46
Chlorobenzene	ND		0.0050	1	10/04/2013 12:46
Chloroethane	ND		0.0050	1	10/04/2013 12:46
Chloroform	ND		0.0050	1	10/04/2013 12:46
Chloromethane	ND		0.0050	1	10/04/2013 12:46
2-Chlorotoluene	ND		0.0050	1	10/04/2013 12:46
4-Chlorotoluene	ND		0.0050	1	10/04/2013 12:46
Dibromochloromethane	ND		0.0050	1	10/04/2013 12:46
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/04/2013 12:46
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/04/2013 12:46
Dibromomethane	ND		0.0050	1	10/04/2013 12:46
1,2-Dichlorobenzene	ND		0.0050	1	10/04/2013 12:46
1,3-Dichlorobenzene	ND		0.0050	1	10/04/2013 12:46
1,4-Dichlorobenzene	ND		0.0050	1	10/04/2013 12:46
Dichlorodifluoromethane	ND		0.0050	1	10/04/2013 12:46
1,1-Dichloroethane	ND		0.0050	1	10/04/2013 12:46
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/04/2013 12:46
1,1-Dichloroethene	ND		0.0050	1	10/04/2013 12:46
cis-1,2-Dichloroethene	ND		0.0050	1	10/04/2013 12:46
trans-1,2-Dichloroethene	ND		0.0050	1	10/04/2013 12:46
1,2-Dichloropropane	ND		0.0050	1	10/04/2013 12:46
1,3-Dichloropropane	ND		0.0050	1	10/04/2013 12:46
2,2-Dichloropropane	ND		0.0050	1	10/04/2013 12:46
1,1-Dichloropropene	ND		0.0050	1	10/04/2013 12:46

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Analytical Report

Client: AEI Consultants **WorkOrder:** 1310146
Project: #298931; 1630 Park St. Alameda **Extraction Method:** SW5030B
Date Received: 10/4/13 9:48 **Analytical Method:** SW8260B
Date Prepared: 10/4/13 **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NE Wall2-6'	1310146-003A	Soil	10/04/2013 08:00	GC16	82495
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/04/2013 12:46
trans-1,3-Dichloropropene	ND		0.0050	1	10/04/2013 12:46
Diisopropyl ether (DIPE)	ND		0.0050	1	10/04/2013 12:46
Ethylbenzene	ND		0.0050	1	10/04/2013 12:46
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/04/2013 12:46
Freon 113	ND		0.10	1	10/04/2013 12:46
Hexachlorobutadiene	ND		0.0050	1	10/04/2013 12:46
Hexachloroethane	ND		0.0050	1	10/04/2013 12:46
2-Hexanone	ND		0.0050	1	10/04/2013 12:46
Isopropylbenzene	ND		0.0050	1	10/04/2013 12:46
4-Isopropyl toluene	ND		0.0050	1	10/04/2013 12:46
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/04/2013 12:46
Methylene chloride	ND		0.0050	1	10/04/2013 12:46
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/04/2013 12:46
Naphthalene	ND		0.0050	1	10/04/2013 12:46
n-Propyl benzene	ND		0.0050	1	10/04/2013 12:46
Styrene	ND		0.0050	1	10/04/2013 12:46
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/04/2013 12:46
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/04/2013 12:46
Tetrachloroethene	0.045		0.0050	1	10/04/2013 12:46
Toluene	ND		0.0050	1	10/04/2013 12:46
1,2,3-Trichlorobenzene	ND		0.0050	1	10/04/2013 12:46
1,2,4-Trichlorobenzene	ND		0.0050	1	10/04/2013 12:46
1,1,1-Trichloroethane	ND		0.0050	1	10/04/2013 12:46
1,1,2-Trichloroethane	ND		0.0050	1	10/04/2013 12:46
Trichloroethene	ND		0.0050	1	10/04/2013 12:46
Trichlorofluoromethane	ND		0.0050	1	10/04/2013 12:46
1,2,3-Trichloropropane	ND		0.0050	1	10/04/2013 12:46
1,2,4-Trimethylbenzene	ND		0.0050	1	10/04/2013 12:46
1,3,5-Trimethylbenzene	ND		0.0050	1	10/04/2013 12:46
Vinyl Chloride	ND		0.0050	1	10/04/2013 12:46
Xylenes, Total	0.0062		0.0050	1	10/04/2013 12:46
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	95		70-130		10/04/2013 12:46
toluene-d8	104		70-130		10/04/2013 12:46
4-BFB	110		70-130		10/04/2013 12:46



Analytical Report

Client: AEI Consultants **WorkOrder:** 1310146
Project: #298931; 1630 Park St. Alameda **Extraction Method:** SW5030B
Date Received: 10/4/13 9:48 **Analytical Method:** SW8021B/8015Bm
Date Prepared: 10/4/13 **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
N Wall2-10'	1310146-001A	Soil	10/04/2013 07:20	GC19	82472

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	890	100	100	10/04/2013 15:24
MTBE	---	5.0	100	10/04/2013 15:24
Benzene	---	0.50	100	10/04/2013 15:24
Toluene	---	0.50	100	10/04/2013 15:24
Ethylbenzene	---	0.50	100	10/04/2013 15:24
Xylenes	---	0.50	100	10/04/2013 15:24
Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
2-fluorotoluene	428	S	70-130	10/04/2013 15:24

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NE Wall2-10'	1310146-002A	Soil	10/04/2013 08:00	GC19	82472

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	3300	1000	1000	10/04/2013 13:53
MTBE	---	50	1000	10/04/2013 13:53
Benzene	---	5.0	1000	10/04/2013 13:53
Toluene	---	5.0	1000	10/04/2013 13:53
Ethylbenzene	---	5.0	1000	10/04/2013 13:53
Xylenes	---	5.0	1000	10/04/2013 13:53
Surrogates	REC (%)	Limits	Analytical Comments: d1	
2-fluorotoluene	90	70-130	10/04/2013 13:53	

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NE Wall2-6'	1310146-003A	Soil	10/04/2013 08:00	GC7	82472

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	10/04/2013 18:12
MTBE	---	0.050	1	10/04/2013 18:12
Benzene	---	0.0050	1	10/04/2013 18:12
Toluene	---	0.0050	1	10/04/2013 18:12
Ethylbenzene	---	0.0050	1	10/04/2013 18:12
Xylenes	---	0.0050	1	10/04/2013 18:12
Surrogates	REC (%)	Limits		
aaa-TFT	121	70-130	10/04/2013 18:12	



Analytical Report

Client: AEI Consultants	WorkOrder: 1310146
Project: #298931; 1630 Park St. Alameda	Extraction Method: SW3550B/3630C
Date Received: 10/4/13 9:48	Analytical Method: SW8015B
Date Prepared: 10/4/13	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
N Wall2-10'	1310146-001A	Soil	10/04/2013 07:20	GC11A	82479
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	230		10	10	10/05/2013 09:37
TPH-Motor Oil (C18-C36)	88		50	10	10/05/2013 09:37
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4,e7,e2	
C9	115		70-130		10/05/2013 09:37
NE Wall2-10'	1310146-002A	Soil	10/04/2013 08:00	GC11A	82479
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	2500		10	10	10/05/2013 06:11
TPH-Motor Oil (C18-C36)	2200		50	10	10/05/2013 06:11
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4,e7,e2	
C9	119		70-130		10/05/2013 06:11
NE Wall2-6'	1310146-003A	Soil	10/04/2013 08:00	GC11A	82479
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	2300		200	200	10/07/2013 12:25
TPH-Motor Oil (C18-C36)	8500		1000	200	10/07/2013 12:25
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e7,e2	
C9	88		70-130		10/07/2013 12:25



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/3/13
Date Analyzed: 10/4/13
Instrument: GC16
Matrix: Soil
Project: #298931; 1630 Park St. Alameda

WorkOrder: 1310146
BatchID: 82464
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82464

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.046	0.0050	0.050	-	92	70-130
Benzene	ND	0.04478	0.0050	0.050	-	89.6	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.2204	0.050	0.20	-	110	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.04431	0.0050	0.050	-	88.6	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.04578	0.0040	0.050	-	91.6	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.04416	0.0040	0.050	-	88.3	70-130
1,1-Dichloroethene	ND	0.03695	0.0050	0.050	-	73.9	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/3/13
Date Analyzed: 10/4/13
Instrument: GC16
Matrix: Soil
Project: #298931; 1630 Park St. Alameda

WorkOrder: 1310146
BatchID: 82464
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82464

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.05017	0.0050	0.050	-	100	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.04686	0.0050	0.050	-	93.7	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.04869	0.0050	0.050	-	97.4	70-130
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0465	0.0050	0.050	-	93	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.03893	0.0050	0.050	-	77.9	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

Surrogate Recovery

dibromofluoromethane	0.1186	0.1216		0.12	95	97	70-130
toluene-d8	0.1283	0.1274		0.12	103	102	70-130
4-BFB	0.01282	0.01205		0.012	103	96	70-130

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/4/13
Date Analyzed: 10/7/13
Instrument: GC16
Matrix: Soil
Project: #298931; 1630 Park St. Alameda

WorkOrder: 1310146
BatchID: 82495
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82495

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.04315	0.0050	0.050	-	86.3	70-130
Benzene	ND	0.04088	0.0050	0.050	-	81.8	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.2002	0.050	0.20	-	100	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.04425	0.0050	0.050	-	88.5	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.04429	0.0040	0.050	-	88.6	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.04405	0.0040	0.050	-	88.1	70-130
1,1-Dichloroethene	ND	0.03447	0.0050	0.050	-	68.9, F2	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/4/13
Date Analyzed: 10/7/13
Instrument: GC16
Matrix: Soil
Project: #298931; 1630 Park St. Alameda

WorkOrder: 1310146
BatchID: 82495
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82495

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.04539	0.0050	0.050	-	90.8	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.04354	0.0050	0.050	-	87.1	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.04578	0.0050	0.050	-	91.6	70-130
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.04475	0.0050	0.050	-	89.5	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.03831	0.0050	0.050	-	76.6	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

Surrogate Recovery

dibromofluoromethane	0.1209	0.1224		0.12	97	98	70-130
toluene-d8	0.1311	0.1322		0.12	105	106	70-130
4-BFB	0.01306	0.01201		0.012	104	96	70-130



Quality Control Report

Client:	AEI Consultants	WorkOrder:	1310146
Date Prepared:	10/3/13	BatchID:	82472
Date Analyzed:	10/4/13	Extraction Method	SW5030B
Instrument:	GC7	Analytical Method:	SW8021B/8015Bm
Matrix:	Soil	Unit:	mg/Kg
Project:	#298931; 1630 Park St. Alameda	Sample ID:	MB/LCS-82472 1310146-002AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.5955	0.40	0.60	-	99.2	70-130
MTBE	ND	0.09306	0.050	0.10	-	93.1	70-130
Benzene	ND	0.112	0.0050	0.10	-	112	70-130
Toluene	ND	0.1066	0.0050	0.10	-	107	70-130
Ethylbenzene	ND	0.1202	0.0050	0.10	-	120	70-130
Xylenes	ND	0.378	0.0050	0.30	-	126	70-130

Surrogate Recovery

2-fluorotoluene	0.1198	0.1263		0.10	120	126	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR	0	1000	NR	NR	-	NR	
MTBE	NR	NR	0	ND<50	NR	NR	-	NR	
Benzene	NR	NR	0	17	NR	NR	-	NR	
Toluene	NR	NR	0	240	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	89	NR	NR	-	NR	
Xylenes	NR	NR	0	440	NR	NR	-	NR	

Surrogate Recovery

2-fluorotoluene	NR	NR	0		NR	NR	-	NR	
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Quality Control Report

Client: AEI Consultants	WorkOrder: 1310146
Date Prepared: 10/4/13	BatchID: 82479
Date Analyzed: 10/4/13	Extraction Method: SW3550B/3630C
Instrument: GC11A	Analytical Method: SW8015B
Matrix: Soil	Unit: mg/Kg
Project: #298931; 1630 Park St. Alameda	Sample ID: MB/LCS-82479 1310146-003AMS/MSD

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	41	1.0	40	-	103	70-130
Surrogate Recovery							
C9	26.27	22.87		25	105	91	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR	0	2300	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR	0		NR	NR	-	NR	



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1310146

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Andrew Wallace
 AEI Consultants
 2500 Camino Diablo, Ste.#200
 Walnut Creek, CA 94597
 (925) 283-6000 FAX: (925) 944-2895

Email: awallace@aeiconsultants.com
 cc:
 PO: #WC084378
 ProjectNo: #298931; 1630 Park St. Alameda

Bill to:

Sara Guerin
 AEI Consultants
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597
 AccountsPayable@AEIConsultants.co

Requested TAT:

1 day

Date Received: **10/04/2013**

Date Printed: **10/04/2013**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1310146-001	N Wall2-10'	Soil	10/4/2013 7:20	<input type="checkbox"/>	A	A	A										
1310146-002	NE Wall2-10'	Soil	10/4/2013 8:00	<input type="checkbox"/>	A		A										
1310146-003	NE Wall2-6'	Soil	10/4/2013 8:00	<input type="checkbox"/>	A		A										

Test Legend:

1	8260B_S	2	PREFDF REPORT	3	TPH(DMO)WSG_S	4		5	
6		7		8		9		10	
11		12							

The following SamplIDs: 001A, 002A, 003A contain testgroup.

Prepared by: Maria Venegas

Comments: 24hr Rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **10/4/2013 9:48:55 AM**
 Project Name: **#298931; 1630 Park St. Alameda** Login Reviewed by: **Maria Venegas**
 WorkOrder N°: **1310146** Matrix: Soil Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 8.2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1310060

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jeremy Smith
Project P.O.:
Project Name: #298931; FSI

Project Received: 10/02/2013

Analytical Report reviewed & approved for release on 10/03/2013 by:

Question about
your data?

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #298931; FSI
WorkOrder: 1310060

<u>Glossary Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Analytical Qualifier

d2 heavier gasoline range compounds are significant (aged gasoline?)
e4 gasoline range compounds are significant.



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 14:29
Date Prepared: 10/2/13

WorkOrder: 1310060
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NWW-11-10'	1310060-001A	Soil	10/02/2013 12:10	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/02/2013 23:45
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/02/2013 23:45
Benzene	ND		0.0050	1	10/02/2013 23:45
Bromobenzene	ND		0.0050	1	10/02/2013 23:45
Bromochloromethane	ND		0.0050	1	10/02/2013 23:45
Bromodichloromethane	ND		0.0050	1	10/02/2013 23:45
Bromoform	ND		0.0050	1	10/02/2013 23:45
Bromomethane	ND		0.0050	1	10/02/2013 23:45
2-Butanone (MEK)	ND		0.020	1	10/02/2013 23:45
t-Butyl alcohol (TBA)	ND		0.050	1	10/02/2013 23:45
n-Butyl benzene	0.020		0.0050	1	10/02/2013 23:45
sec-Butyl benzene	ND		0.0050	1	10/02/2013 23:45
tert-Butyl benzene	ND		0.0050	1	10/02/2013 23:45
Carbon Disulfide	ND		0.0050	1	10/02/2013 23:45
Carbon Tetrachloride	ND		0.0050	1	10/02/2013 23:45
Chlorobenzene	ND		0.0050	1	10/02/2013 23:45
Chloroethane	ND		0.0050	1	10/02/2013 23:45
Chloroform	ND		0.0050	1	10/02/2013 23:45
Chloromethane	ND		0.0050	1	10/02/2013 23:45
2-Chlorotoluene	ND		0.0050	1	10/02/2013 23:45
4-Chlorotoluene	ND		0.0050	1	10/02/2013 23:45
Dibromochloromethane	ND		0.0050	1	10/02/2013 23:45
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/02/2013 23:45
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/02/2013 23:45
Dibromomethane	ND		0.0050	1	10/02/2013 23:45
1,2-Dichlorobenzene	ND		0.0050	1	10/02/2013 23:45
1,3-Dichlorobenzene	ND		0.0050	1	10/02/2013 23:45
1,4-Dichlorobenzene	ND		0.0050	1	10/02/2013 23:45
Dichlorodifluoromethane	ND		0.0050	1	10/02/2013 23:45
1,1-Dichloroethane	ND		0.0050	1	10/02/2013 23:45
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/02/2013 23:45
1,1-Dichloroethene	ND		0.0050	1	10/02/2013 23:45
cis-1,2-Dichloroethene	ND		0.0050	1	10/02/2013 23:45
trans-1,2-Dichloroethene	ND		0.0050	1	10/02/2013 23:45
1,2-Dichloropropane	ND		0.0050	1	10/02/2013 23:45
1,3-Dichloropropane	ND		0.0050	1	10/02/2013 23:45
2,2-Dichloropropane	ND		0.0050	1	10/02/2013 23:45
1,1-Dichloropropene	ND		0.0050	1	10/02/2013 23:45

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 14:29
Date Prepared: 10/2/13

WorkOrder: 1310060
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NWW-11-10'	1310060-001A	Soil	10/02/2013 12:10	GC16	82363
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/02/2013 23:45
trans-1,3-Dichloropropene	ND		0.0050	1	10/02/2013 23:45
Diisopropyl ether (DIPE)	ND		0.0050	1	10/02/2013 23:45
Ethylbenzene	ND		0.0050	1	10/02/2013 23:45
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/02/2013 23:45
Freon 113	ND		0.10	1	10/02/2013 23:45
Hexachlorobutadiene	ND		0.0050	1	10/02/2013 23:45
Hexachloroethane	ND		0.0050	1	10/02/2013 23:45
2-Hexanone	ND		0.0050	1	10/02/2013 23:45
Isopropylbenzene	ND		0.0050	1	10/02/2013 23:45
4-Isopropyl toluene	ND		0.0050	1	10/02/2013 23:45
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/02/2013 23:45
Methylene chloride	ND		0.0050	1	10/02/2013 23:45
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/02/2013 23:45
Naphthalene	0.025		0.0050	1	10/02/2013 23:45
n-Propyl benzene	ND		0.0050	1	10/02/2013 23:45
Styrene	ND		0.0050	1	10/02/2013 23:45
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/02/2013 23:45
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/02/2013 23:45
Tetrachloroethene	ND		0.0050	1	10/02/2013 23:45
Toluene	ND		0.0050	1	10/02/2013 23:45
1,2,3-Trichlorobenzene	ND		0.0050	1	10/02/2013 23:45
1,2,4-Trichlorobenzene	ND		0.0050	1	10/02/2013 23:45
1,1,1-Trichloroethane	ND		0.0050	1	10/02/2013 23:45
1,1,2-Trichloroethane	ND		0.0050	1	10/02/2013 23:45
Trichloroethene	ND		0.0050	1	10/02/2013 23:45
Trichlorofluoromethane	ND		0.0050	1	10/02/2013 23:45
1,2,3-Trichloropropane	ND		0.0050	1	10/02/2013 23:45
1,2,4-Trimethylbenzene	0.14		0.0050	1	10/02/2013 23:45
1,3,5-Trimethylbenzene	0.036		0.0050	1	10/02/2013 23:45
Vinyl Chloride	ND		0.0050	1	10/02/2013 23:45
Xylenes, Total	0.024		0.0050	1	10/02/2013 23:45
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	97		70-130		10/02/2013 23:45
toluene-d8	100		70-130		10/02/2013 23:45
4-BFB	93		70-130		10/02/2013 23:45



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 14:29
Date Prepared: 10/2/13

WorkOrder: 1310060
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NWW-11-10'	1310060-001A	Soil	10/02/2013 12:10	GC7	82377
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	1.5		1.0	1	10/03/2013 02:56
MTBE	ND		0.050	1	10/03/2013 02:56
Benzene	ND		0.0050	1	10/03/2013 02:56
Toluene	ND		0.0050	1	10/03/2013 02:56
Ethylbenzene	ND		0.0050	1	10/03/2013 02:56
Xylenes	0.037		0.0050	1	10/03/2013 02:56
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d2	
2-fluorotoluene	113		70-130	10/03/2013 02:56	



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/2/13 14:29
Date Prepared: 10/2/13

WorkOrder: 1310060
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
NWW-11-10'	1310060-001A	Soil	10/02/2013 12:10	GC6A	82376
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1.3		1.0	1	10/03/2013 00:01
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/03/2013 00:01
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	98		70-130		10/03/2013 00:01



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/2/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310060
BatchID: 82363
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82363
 1310044-001AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.04812	0.0050	0.050	-	96.2	70-130
Benzene	ND	0.0455	0.0050	0.050	-	91	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.2368	0.050	0.20	-	118	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.04503	0.0050	0.050	-	90.1	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.04624	0.0040	0.050	-	92.5	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.04644	0.0040	0.050	-	92.9	70-130
1,1-Dichloroethene	ND	0.03772	0.0050	0.050	-	75.4	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/2/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310060
BatchID: 82363
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82363
 1310044-001AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.05123	0.0050	0.050	-	102	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.04833	0.0050	0.050	-	96.7	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.05048	0.0050	0.050	-	101	70-130
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0481	0.0050	0.050	-	96.2	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0386	0.0050	0.050	-	77.2	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

Surrogate Recovery

dibromofluoromethane	0.122	0.1229		0.12	98	98	70-130
toluene-d8	0.1279	0.1291		0.12	102	103	70-130
4-BFB	0.01295	0.01269		0.012	104	102	70-130

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/2/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310060
BatchID: 82363
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82363
 1310044-001AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.04383	0.04046	0.050	ND	87.7	80.9	56-94	8.01	30
Benzene	0.04014	0.03992	0.050	ND	80.3	79.8	60-106	0.551	30
t-Butyl alcohol (TBA)	0.2068	0.2111	0.20	ND	103	106	56-140	2.08	30
Chlorobenzene	0.03987	0.0397	0.050	ND	79.7	79.4	61-108	0.437	30
1,2-Dibromoethane (EDB)	0.04174	0.04098	0.050	ND	83.5	82	54-119	1.82	30
1,2-Dichloroethane (1,2-DCA)	0.04084	0.04029	0.050	ND	81.7	80.6	48-115	1.36	30
1,1-Dichloroethene	0.03306	0.03266	0.050	ND	66.1	65.3	46-111	1.20	30
Diisopropyl ether (DIPE)	0.04554	0.04524	0.050	ND	91.1	90.5	53-111	0.663	30
Ethyl tert-butyl ether (ETBE)	0.04355	0.04289	0.050	ND	87.1	85.8	61-104	1.53	30
Methyl-t-butyl ether (MTBE)	0.04492	0.04465	0.050	ND	89.8	89.3	58-107	0.597	30
Toluene	0.04208	0.04157	0.050	ND	84.2	83.1	64-114	1.22	30
Trichloroethene	0.03404	0.03359	0.050	ND	68.1	67.2	60-116	1.35	30
Surrogate Recovery									
dibromofluoromethane	0.1219	0.1225	0.12		98	98	70-130	0	30
toluene-d8	0.1279	0.127	0.12		102	102	70-130	0	30
4-BFB	0.0128	0.01267	0.012		102	101	70-130	1.06	30



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/3/13
Instrument: GC7
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310060
BatchID: 82377
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-82377
 1310053-009AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.5616	0.40	0.60	-	93.6	70-130
MTBE	ND	0.08119	0.050	0.10	-	81.2	70-130
Benzene	ND	0.1127	0.0050	0.10	-	113	70-130
Toluene	ND	0.1078	0.0050	0.10	-	108	70-130
Ethylbenzene	ND	0.1162	0.0050	0.10	-	116	70-130
Xylenes	ND	0.368	0.0050	0.30	-	123	70-130

Surrogate Recovery

2-fluorotoluene	0.1233	0.1251		0.10	123	125	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.6656	0.6204	0.60	ND	111	103	70-130	7.02	20
MTBE	0.08135	0.07919	0.10	ND	81.4	79.2	70-130	2.69	20
Benzene	0.1121	0.1111	0.10	ND	112	111	70-130	0.866	20
Toluene	0.1185	0.1177	0.10	ND	118	118	70-130	0	20
Ethylbenzene	0.1135	0.1116	0.10	ND	113	112	70-130	1.68	20
Xylenes	0.3591	0.3556	0.30	ND	120	119	70-130	0.966	20

Surrogate Recovery

2-fluorotoluene	0.1064	0.108	0.10		106	108	70-130	1.40	20
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Quality Control Report

Client: AEI Consultants
Date Prepared: 10/2/13
Date Analyzed: 10/2/13
Instrument: GC6A
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310060
BatchID: 82376
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-82376

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	41.03	1.0	40	-	103	70-130
Surrogate Recovery							
C9	22.95	22.59		25	92	90	70-130



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1310060

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Jeremy Smith
 AEI Consultants
 2500 Camino Diablo, Ste.#200
 Walnut Creek, CA 94597
 (925) 283-6000 FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com
 cc:
 PO:
 ProjectNo: #298931; FSI

Bill to:

Sara Guerin
 AEI Consultants
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597
 AccountsPayable@AEIConsultants.co

Requested TAT:

1 day

Date Received: 10/02/2013

Date Printed: 10/02/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1310060-001	NWW-11-10'	Soil	10/2/2013 12:10	<input type="checkbox"/>	A	A											

Test Legend:

1	8260B_S	2	TPH(DMO)WSG_S	3		4		5	
6		7		8		9		10	
11		12							

The following SamplID: 001A contains testgroup.

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.

RUSH

1310060

McCAMPBELL ANALYTICAL INC.

CHAIN OF CUSTODY RECORD

1538 Willow Pass Road, Pittsburg, CA 94565

TURN AROUND TIME

RUSH

24 HR

48 HR

72 HR

5 DAY

Telephone: (925) 252-9262

Fax: (925) 252-9269

EDF Required? Yes No

PDF Required? Yes No

Yes No

Yes No

Yes No

Report To: Jeremy Smith Bill To: AEI Consultants

Company: AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597

PO# WC0843 **77** Global ID: T0600100655

E-Mail: jasmith@aeiconsultatns.com

Telephone: (925) 746-6000, ext. 1128 Fax: (925) 746-6099

AEI Project No. 298931 Project Name: FSL

Project Location: 1630 Park St., Alameda, CA 94501

Sampler Signature: *[Signature]*

Analysis Request

Other

Comments

SAMPLE ID	FIELD POINT NAME	SAMPLING		# of Containers	Type Containers	MATRIX					METHOD PRESERVED				TPH-G (EPA 8015 M) TPH-D / TPH-MO (EPA 8015 M w/ Silica Gel Clean-up) BTEX, MTBE (EPA 8260B)	HOLD	Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCL	HNO ₃	Other					
NW41-10'		10/2/13	12:10	1	5TL	X					X				XX	X			

Relinquished By: *[Signature]* Date: 10/2/13 Time: 2:30 Received By: *[Signature]*

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE# S-4

GOOD CONDITION _____ PRESERVATION APPROPRIATE _____

HEAD SPACE ABSENT _____ CONTAINERS _____

DECLORINATED IN LAB _____ PRESERVED IN LAB _____

VOAS	O&G	METALS	OTHER
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Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **10/2/2013 2:29:01 PM**
 Project Name: **#298931; FSI** LogIn Reviewed by: **Jena Alfaro**
 WorkOrder N°: **1310060** Matrix: Soil Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 5.4°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1310373

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jeremy Smith
Project P.O.: #WC084379
Project Name: #298931; FSI

Project Received: 10/10/2013

Analytical Report reviewed & approved for release on 10/11/2013 by:

*Question about
your data?*

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McC Campbell](#)

Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #298931; FSI
WorkOrder: 1310373

<u>Glossary Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Analytical Qualifier

d2	heavier gasoline range compounds are significant (aged gasoline?)
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/10/13 13:51
Date Prepared: 10/10/13

WorkOrder: 1310373
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EBE-12'	1310373-001A	Soil	10/10/2013 11:10	GC16	82725
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/11/2013 01:46
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/11/2013 01:46
Benzene	ND		0.0050	1	10/11/2013 01:46
Bromobenzene	ND		0.0050	1	10/11/2013 01:46
Bromochloromethane	ND		0.0050	1	10/11/2013 01:46
Bromodichloromethane	ND		0.0050	1	10/11/2013 01:46
Bromoform	ND		0.0050	1	10/11/2013 01:46
Bromomethane	ND		0.0050	1	10/11/2013 01:46
2-Butanone (MEK)	ND		0.020	1	10/11/2013 01:46
t-Butyl alcohol (TBA)	ND		0.050	1	10/11/2013 01:46
n-Butyl benzene	ND		0.0050	1	10/11/2013 01:46
sec-Butyl benzene	ND		0.0050	1	10/11/2013 01:46
tert-Butyl benzene	ND		0.0050	1	10/11/2013 01:46
Carbon Disulfide	ND		0.0050	1	10/11/2013 01:46
Carbon Tetrachloride	ND		0.0050	1	10/11/2013 01:46
Chlorobenzene	ND		0.0050	1	10/11/2013 01:46
Chloroethane	ND		0.0050	1	10/11/2013 01:46
Chloroform	ND		0.0050	1	10/11/2013 01:46
Chloromethane	ND		0.0050	1	10/11/2013 01:46
2-Chlorotoluene	ND		0.0050	1	10/11/2013 01:46
4-Chlorotoluene	ND		0.0050	1	10/11/2013 01:46
Dibromochloromethane	ND		0.0050	1	10/11/2013 01:46
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/11/2013 01:46
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/11/2013 01:46
Dibromomethane	ND		0.0050	1	10/11/2013 01:46
1,2-Dichlorobenzene	ND		0.0050	1	10/11/2013 01:46
1,3-Dichlorobenzene	ND		0.0050	1	10/11/2013 01:46
1,4-Dichlorobenzene	ND		0.0050	1	10/11/2013 01:46
Dichlorodifluoromethane	ND		0.0050	1	10/11/2013 01:46
1,1-Dichloroethane	ND		0.0050	1	10/11/2013 01:46
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/11/2013 01:46
1,1-Dichloroethene	ND		0.0050	1	10/11/2013 01:46
cis-1,2-Dichloroethene	ND		0.0050	1	10/11/2013 01:46
trans-1,2-Dichloroethene	ND		0.0050	1	10/11/2013 01:46
1,2-Dichloropropane	ND		0.0050	1	10/11/2013 01:46
1,3-Dichloropropane	ND		0.0050	1	10/11/2013 01:46
2,2-Dichloropropane	ND		0.0050	1	10/11/2013 01:46
1,1-Dichloropropene	ND		0.0050	1	10/11/2013 01:46

(Cont.)



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Client: AEI Consultants
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Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EBE-12'	1310373-001A	Soil	10/10/2013 11:10	GC16	82725
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/11/2013 01:46
trans-1,3-Dichloropropene	ND		0.0050	1	10/11/2013 01:46
Diisopropyl ether (DIPE)	ND		0.0050	1	10/11/2013 01:46
Ethylbenzene	ND		0.0050	1	10/11/2013 01:46
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/11/2013 01:46
Freon 113	ND		0.10	1	10/11/2013 01:46
Hexachlorobutadiene	ND		0.0050	1	10/11/2013 01:46
Hexachloroethane	ND		0.0050	1	10/11/2013 01:46
2-Hexanone	ND		0.0050	1	10/11/2013 01:46
Isopropylbenzene	ND		0.0050	1	10/11/2013 01:46
4-Isopropyl toluene	ND		0.0050	1	10/11/2013 01:46
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/11/2013 01:46
Methylene chloride	ND		0.0050	1	10/11/2013 01:46
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/11/2013 01:46
Naphthalene	ND		0.0050	1	10/11/2013 01:46
n-Propyl benzene	ND		0.0050	1	10/11/2013 01:46
Styrene	ND		0.0050	1	10/11/2013 01:46
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/11/2013 01:46
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/11/2013 01:46
Tetrachloroethene	ND		0.0050	1	10/11/2013 01:46
Toluene	0.0065		0.0050	1	10/11/2013 01:46
1,2,3-Trichlorobenzene	ND		0.0050	1	10/11/2013 01:46
1,2,4-Trichlorobenzene	ND		0.0050	1	10/11/2013 01:46
1,1,1-Trichloroethane	ND		0.0050	1	10/11/2013 01:46
1,1,2-Trichloroethane	ND		0.0050	1	10/11/2013 01:46
Trichloroethene	ND		0.0050	1	10/11/2013 01:46
Trichlorofluoromethane	ND		0.0050	1	10/11/2013 01:46
1,2,3-Trichloropropane	ND		0.0050	1	10/11/2013 01:46
1,2,4-Trimethylbenzene	0.0096		0.0050	1	10/11/2013 01:46
1,3,5-Trimethylbenzene	ND		0.0050	1	10/11/2013 01:46
Vinyl Chloride	ND		0.0050	1	10/11/2013 01:46
Xylenes, Total	0.018		0.0050	1	10/11/2013 01:46
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	92		70-130		10/11/2013 01:46
Toluene-d8	97		70-130		10/11/2013 01:46
4-BFB	97		70-130		10/11/2013 01:46

(Cont.)



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Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWS-e-10'	1310373-002A	Soil	10/10/2013 11:25	GC16	82725
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		50	500	10/11/2013 14:33
tert-Amyl methyl ether (TAME)	ND		2.5	500	10/11/2013 14:33
Benzene	ND		2.5	500	10/11/2013 14:33
Bromobenzene	ND		2.5	500	10/11/2013 14:33
Bromochloromethane	ND		2.5	500	10/11/2013 14:33
Bromodichloromethane	ND		2.5	500	10/11/2013 14:33
Bromoform	ND		2.5	500	10/11/2013 14:33
Bromomethane	ND		2.5	500	10/11/2013 14:33
2-Butanone (MEK)	ND		10	500	10/11/2013 14:33
t-Butyl alcohol (TBA)	ND		25	500	10/11/2013 14:33
n-Butyl benzene	17		2.5	500	10/11/2013 14:33
sec-Butyl benzene	2.7		2.5	500	10/11/2013 14:33
tert-Butyl benzene	ND		2.5	500	10/11/2013 14:33
Carbon Disulfide	ND		2.5	500	10/11/2013 14:33
Carbon Tetrachloride	ND		2.5	500	10/11/2013 14:33
Chlorobenzene	ND		2.5	500	10/11/2013 14:33
Chloroethane	ND		2.5	500	10/11/2013 14:33
Chloroform	ND		2.5	500	10/11/2013 14:33
Chloromethane	ND		2.5	500	10/11/2013 14:33
2-Chlorotoluene	ND		2.5	500	10/11/2013 14:33
4-Chlorotoluene	ND		2.5	500	10/11/2013 14:33
Dibromochloromethane	ND		2.5	500	10/11/2013 14:33
1,2-Dibromo-3-chloropropane	ND		2.0	500	10/11/2013 14:33
1,2-Dibromoethane (EDB)	ND		2.0	500	10/11/2013 14:33
Dibromomethane	ND		2.5	500	10/11/2013 14:33
1,2-Dichlorobenzene	ND		2.5	500	10/11/2013 14:33
1,3-Dichlorobenzene	ND		2.5	500	10/11/2013 14:33
1,4-Dichlorobenzene	ND		2.5	500	10/11/2013 14:33
Dichlorodifluoromethane	ND		2.5	500	10/11/2013 14:33
1,1-Dichloroethane	ND		2.5	500	10/11/2013 14:33
1,2-Dichloroethane (1,2-DCA)	ND		2.0	500	10/11/2013 14:33
1,1-Dichloroethene	ND		2.5	500	10/11/2013 14:33
cis-1,2-Dichloroethene	ND		2.5	500	10/11/2013 14:33
trans-1,2-Dichloroethene	ND		2.5	500	10/11/2013 14:33
1,2-Dichloropropane	ND		2.5	500	10/11/2013 14:33
1,3-Dichloropropane	ND		2.5	500	10/11/2013 14:33
2,2-Dichloropropane	ND		2.5	500	10/11/2013 14:33
1,1-Dichloropropene	ND		2.5	500	10/11/2013 14:33

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Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWS-e-10'	1310373-002A	Soil	10/10/2013 11:25	GC16	82725
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		2.5	500	10/11/2013 14:33
trans-1,3-Dichloropropene	ND		2.5	500	10/11/2013 14:33
Diisopropyl ether (DIPE)	ND		2.5	500	10/11/2013 14:33
Ethylbenzene	16		2.5	500	10/11/2013 14:33
Ethyl tert-butyl ether (ETBE)	ND		2.5	500	10/11/2013 14:33
Freon 113	ND		50	500	10/11/2013 14:33
Hexachlorobutadiene	ND		2.5	500	10/11/2013 14:33
Hexachloroethane	ND		2.5	500	10/11/2013 14:33
2-Hexanone	ND		2.5	500	10/11/2013 14:33
Isopropylbenzene	2.9		2.5	500	10/11/2013 14:33
4-Isopropyl toluene	4.8		2.5	500	10/11/2013 14:33
Methyl-t-butyl ether (MTBE)	ND		2.5	500	10/11/2013 14:33
Methylene chloride	ND		2.5	500	10/11/2013 14:33
4-Methyl-2-pentanone (MIBK)	ND		2.5	500	10/11/2013 14:33
Naphthalene	22		2.5	500	10/11/2013 14:33
n-Propyl benzene	11		2.5	500	10/11/2013 14:33
Styrene	ND		2.5	500	10/11/2013 14:33
1,1,1,2-Tetrachloroethane	ND		2.5	500	10/11/2013 14:33
1,1,2,2-Tetrachloroethane	ND		2.5	500	10/11/2013 14:33
Tetrachloroethene	ND		2.5	500	10/11/2013 14:33
Toluene	17		2.5	500	10/11/2013 14:33
1,2,3-Trichlorobenzene	ND		2.5	500	10/11/2013 14:33
1,2,4-Trichlorobenzene	ND		2.5	500	10/11/2013 14:33
1,1,1-Trichloroethane	ND		2.5	500	10/11/2013 14:33
1,1,2-Trichloroethane	ND		2.5	500	10/11/2013 14:33
Trichloroethene	ND		2.5	500	10/11/2013 14:33
Trichlorofluoromethane	ND		2.5	500	10/11/2013 14:33
1,2,3-Trichloropropane	ND		2.5	500	10/11/2013 14:33
1,2,4-Trimethylbenzene	91		2.5	500	10/11/2013 14:33
1,3,5-Trimethylbenzene	28		2.5	500	10/11/2013 14:33
Vinyl Chloride	ND		2.5	500	10/11/2013 14:33
Xylenes, Total	100		2.5	500	10/11/2013 14:33
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	95		70-130		10/11/2013 14:33
Toluene-d8	91		70-130		10/11/2013 14:33
4-BFB	84		70-130		10/11/2013 14:33

(Cont.)



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Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWS-e-6'	1310373-003A	Soil	10/10/2013 11:30	GC16	82725
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/11/2013 03:12
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/11/2013 03:12
Benzene	ND		0.0050	1	10/11/2013 03:12
Bromobenzene	ND		0.0050	1	10/11/2013 03:12
Bromochloromethane	ND		0.0050	1	10/11/2013 03:12
Bromodichloromethane	ND		0.0050	1	10/11/2013 03:12
Bromoform	ND		0.0050	1	10/11/2013 03:12
Bromomethane	ND		0.0050	1	10/11/2013 03:12
2-Butanone (MEK)	ND		0.020	1	10/11/2013 03:12
t-Butyl alcohol (TBA)	ND		0.050	1	10/11/2013 03:12
n-Butyl benzene	ND		0.0050	1	10/11/2013 03:12
sec-Butyl benzene	ND		0.0050	1	10/11/2013 03:12
tert-Butyl benzene	ND		0.0050	1	10/11/2013 03:12
Carbon Disulfide	ND		0.0050	1	10/11/2013 03:12
Carbon Tetrachloride	ND		0.0050	1	10/11/2013 03:12
Chlorobenzene	ND		0.0050	1	10/11/2013 03:12
Chloroethane	ND		0.0050	1	10/11/2013 03:12
Chloroform	ND		0.0050	1	10/11/2013 03:12
Chloromethane	ND		0.0050	1	10/11/2013 03:12
2-Chlorotoluene	ND		0.0050	1	10/11/2013 03:12
4-Chlorotoluene	ND		0.0050	1	10/11/2013 03:12
Dibromochloromethane	ND		0.0050	1	10/11/2013 03:12
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/11/2013 03:12
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/11/2013 03:12
Dibromomethane	ND		0.0050	1	10/11/2013 03:12
1,2-Dichlorobenzene	ND		0.0050	1	10/11/2013 03:12
1,3-Dichlorobenzene	ND		0.0050	1	10/11/2013 03:12
1,4-Dichlorobenzene	ND		0.0050	1	10/11/2013 03:12
Dichlorodifluoromethane	ND		0.0050	1	10/11/2013 03:12
1,1-Dichloroethane	ND		0.0050	1	10/11/2013 03:12
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/11/2013 03:12
1,1-Dichloroethene	ND		0.0050	1	10/11/2013 03:12
cis-1,2-Dichloroethene	ND		0.0050	1	10/11/2013 03:12
trans-1,2-Dichloroethene	ND		0.0050	1	10/11/2013 03:12
1,2-Dichloropropane	ND		0.0050	1	10/11/2013 03:12
1,3-Dichloropropane	ND		0.0050	1	10/11/2013 03:12
2,2-Dichloropropane	ND		0.0050	1	10/11/2013 03:12
1,1-Dichloropropene	ND		0.0050	1	10/11/2013 03:12

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WorkOrder: 1310373
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWS-e-6'	1310373-003A	Soil	10/10/2013 11:30	GC16	82725
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/11/2013 03:12
trans-1,3-Dichloropropene	ND		0.0050	1	10/11/2013 03:12
Diisopropyl ether (DIPE)	ND		0.0050	1	10/11/2013 03:12
Ethylbenzene	ND		0.0050	1	10/11/2013 03:12
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/11/2013 03:12
Freon 113	ND		0.10	1	10/11/2013 03:12
Hexachlorobutadiene	ND		0.0050	1	10/11/2013 03:12
Hexachloroethane	ND		0.0050	1	10/11/2013 03:12
2-Hexanone	ND		0.0050	1	10/11/2013 03:12
Isopropylbenzene	ND		0.0050	1	10/11/2013 03:12
4-Isopropyl toluene	ND		0.0050	1	10/11/2013 03:12
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/11/2013 03:12
Methylene chloride	ND		0.0050	1	10/11/2013 03:12
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/11/2013 03:12
Naphthalene	ND		0.0050	1	10/11/2013 13:12
n-Propyl benzene	ND		0.0050	1	10/11/2013 03:12
Styrene	ND		0.0050	1	10/11/2013 03:12
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/11/2013 03:12
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/11/2013 03:12
Tetrachloroethene	ND		0.0050	1	10/11/2013 03:12
Toluene	ND		0.0050	1	10/11/2013 03:12
1,2,3-Trichlorobenzene	ND		0.0050	1	10/11/2013 03:12
1,2,4-Trichlorobenzene	ND		0.0050	1	10/11/2013 03:12
1,1,1-Trichloroethane	ND		0.0050	1	10/11/2013 03:12
1,1,2-Trichloroethane	ND		0.0050	1	10/11/2013 03:12
Trichloroethene	ND		0.0050	1	10/11/2013 03:12
Trichlorofluoromethane	ND		0.0050	1	10/11/2013 03:12
1,2,3-Trichloropropane	ND		0.0050	1	10/11/2013 03:12
1,2,4-Trimethylbenzene	ND		0.0050	1	10/11/2013 03:12
1,3,5-Trimethylbenzene	ND		0.0050	1	10/11/2013 03:12
Vinyl Chloride	ND		0.0050	1	10/11/2013 03:12
Xylenes, Total	ND		0.0050	1	10/11/2013 03:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	93		70-130		10/11/2013 03:12
Toluene-d8	98		70-130		10/11/2013 03:12
4-BFB	99		70-130		10/11/2013 03:12

(Cont.)



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WorkOrder: 1310373
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Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWN-e-10'	1310373-005A	Soil	10/10/2013 11:45	GC16	82725
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		20	200	10/11/2013 03:54
tert-Amyl methyl ether (TAME)	ND		1.0	200	10/11/2013 03:54
Benzene	ND		1.0	200	10/11/2013 03:54
Bromobenzene	ND		1.0	200	10/11/2013 03:54
Bromochloromethane	ND		1.0	200	10/11/2013 03:54
Bromodichloromethane	ND		1.0	200	10/11/2013 03:54
Bromoform	ND		1.0	200	10/11/2013 03:54
Bromomethane	ND		1.0	200	10/11/2013 03:54
2-Butanone (MEK)	ND		4.0	200	10/11/2013 03:54
t-Butyl alcohol (TBA)	ND		10	200	10/11/2013 03:54
n-Butyl benzene	7.2		1.0	200	10/11/2013 03:54
sec-Butyl benzene	1.1		1.0	200	10/11/2013 03:54
tert-Butyl benzene	ND		1.0	200	10/11/2013 03:54
Carbon Disulfide	ND		1.0	200	10/11/2013 03:54
Carbon Tetrachloride	ND		1.0	200	10/11/2013 03:54
Chlorobenzene	ND		1.0	200	10/11/2013 03:54
Chloroethane	ND		1.0	200	10/11/2013 03:54
Chloroform	ND		1.0	200	10/11/2013 03:54
Chloromethane	ND		1.0	200	10/11/2013 03:54
2-Chlorotoluene	ND		1.0	200	10/11/2013 03:54
4-Chlorotoluene	ND		1.0	200	10/11/2013 03:54
Dibromochloromethane	ND		1.0	200	10/11/2013 03:54
1,2-Dibromo-3-chloropropane	ND		0.80	200	10/11/2013 03:54
1,2-Dibromoethane (EDB)	ND		0.80	200	10/11/2013 03:54
Dibromomethane	ND		1.0	200	10/11/2013 03:54
1,2-Dichlorobenzene	ND		1.0	200	10/11/2013 03:54
1,3-Dichlorobenzene	ND		1.0	200	10/11/2013 03:54
1,4-Dichlorobenzene	ND		1.0	200	10/11/2013 03:54
Dichlorodifluoromethane	ND		1.0	200	10/11/2013 03:54
1,1-Dichloroethane	ND		1.0	200	10/11/2013 03:54
1,2-Dichloroethane (1,2-DCA)	ND		0.80	200	10/11/2013 03:54
1,1-Dichloroethene	ND		1.0	200	10/11/2013 03:54
cis-1,2-Dichloroethene	ND		1.0	200	10/11/2013 03:54
trans-1,2-Dichloroethene	ND		1.0	200	10/11/2013 03:54
1,2-Dichloropropane	ND		1.0	200	10/11/2013 03:54
1,3-Dichloropropane	ND		1.0	200	10/11/2013 03:54
2,2-Dichloropropane	ND		1.0	200	10/11/2013 03:54
1,1-Dichloropropene	ND		1.0	200	10/11/2013 03:54

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/10/13 13:51
Date Prepared: 10/10/13

WorkOrder: 1310373
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWN-e-10'	1310373-005A	Soil	10/10/2013 11:45	GC16	82725
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		1.0	200	10/11/2013 03:54
trans-1,3-Dichloropropene	ND		1.0	200	10/11/2013 03:54
Diisopropyl ether (DIPE)	ND		1.0	200	10/11/2013 03:54
Ethylbenzene	3.6		1.0	200	10/11/2013 03:54
Ethyl tert-butyl ether (ETBE)	ND		1.0	200	10/11/2013 03:54
Freon 113	ND		20	200	10/11/2013 03:54
Hexachlorobutadiene	ND		1.0	200	10/11/2013 03:54
Hexachloroethane	ND		1.0	200	10/11/2013 03:54
2-Hexanone	ND		1.0	200	10/11/2013 03:54
Isopropylbenzene	ND		1.0	200	10/11/2013 03:54
4-Isopropyl toluene	ND		1.0	200	10/11/2013 03:54
Methyl-t-butyl ether (MTBE)	ND		1.0	200	10/11/2013 03:54
Methylene chloride	ND		1.0	200	10/11/2013 03:54
4-Methyl-2-pentanone (MIBK)	ND		1.0	200	10/11/2013 03:54
Naphthalene	9.7		1.0	200	10/11/2013 03:54
n-Propyl benzene	3.0		1.0	200	10/11/2013 03:54
Styrene	ND		1.0	200	10/11/2013 03:54
1,1,1,2-Tetrachloroethane	ND		1.0	200	10/11/2013 03:54
1,1,2,2-Tetrachloroethane	ND		1.0	200	10/11/2013 03:54
Tetrachloroethene	ND		1.0	200	10/11/2013 03:54
Toluene	ND		1.0	200	10/11/2013 03:54
1,2,3-Trichlorobenzene	ND		1.0	200	10/11/2013 03:54
1,2,4-Trichlorobenzene	ND		1.0	200	10/11/2013 03:54
1,1,1-Trichloroethane	ND		1.0	200	10/11/2013 03:54
1,1,2-Trichloroethane	ND		1.0	200	10/11/2013 03:54
Trichloroethene	ND		1.0	200	10/11/2013 03:54
Trichlorofluoromethane	ND		1.0	200	10/11/2013 03:54
1,2,3-Trichloropropane	ND		1.0	200	10/11/2013 03:54
1,2,4-Trimethylbenzene	38		1.0	200	10/11/2013 03:54
1,3,5-Trimethylbenzene	13		1.0	200	10/11/2013 03:54
Vinyl Chloride	ND		1.0	200	10/11/2013 03:54
Xylenes, Total	34		1.0	200	10/11/2013 03:54
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	95		70-130		10/11/2013 03:54
Toluene-d8	92		70-130		10/11/2013 03:54
4-BFB	85		70-130		10/11/2013 03:54

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/10/13 13:51
Date Prepared: 10/10/13

WorkOrder: 1310373
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWN-e-6'	1310373-006A	Soil	10/10/2013 12:00	GC16	82725
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/11/2013 01:03
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/11/2013 01:03
Benzene	ND		0.0050	1	10/11/2013 01:03
Bromobenzene	ND		0.0050	1	10/11/2013 01:03
Bromochloromethane	ND		0.0050	1	10/11/2013 01:03
Bromodichloromethane	ND		0.0050	1	10/11/2013 01:03
Bromoform	ND		0.0050	1	10/11/2013 01:03
Bromomethane	ND		0.0050	1	10/11/2013 01:03
2-Butanone (MEK)	ND		0.020	1	10/11/2013 01:03
t-Butyl alcohol (TBA)	ND		0.050	1	10/11/2013 01:03
n-Butyl benzene	ND		0.0050	1	10/11/2013 01:03
sec-Butyl benzene	ND		0.0050	1	10/11/2013 01:03
tert-Butyl benzene	ND		0.0050	1	10/11/2013 01:03
Carbon Disulfide	ND		0.0050	1	10/11/2013 01:03
Carbon Tetrachloride	ND		0.0050	1	10/11/2013 01:03
Chlorobenzene	ND		0.0050	1	10/11/2013 01:03
Chloroethane	ND		0.0050	1	10/11/2013 01:03
Chloroform	ND		0.0050	1	10/11/2013 01:03
Chloromethane	ND		0.0050	1	10/11/2013 01:03
2-Chlorotoluene	ND		0.0050	1	10/11/2013 01:03
4-Chlorotoluene	ND		0.0050	1	10/11/2013 01:03
Dibromochloromethane	ND		0.0050	1	10/11/2013 01:03
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/11/2013 01:03
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/11/2013 01:03
Dibromomethane	ND		0.0050	1	10/11/2013 01:03
1,2-Dichlorobenzene	ND		0.0050	1	10/11/2013 01:03
1,3-Dichlorobenzene	ND		0.0050	1	10/11/2013 01:03
1,4-Dichlorobenzene	ND		0.0050	1	10/11/2013 01:03
Dichlorodifluoromethane	ND		0.0050	1	10/11/2013 01:03
1,1-Dichloroethane	ND		0.0050	1	10/11/2013 01:03
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/11/2013 01:03
1,1-Dichloroethene	ND		0.0050	1	10/11/2013 01:03
cis-1,2-Dichloroethene	ND		0.0050	1	10/11/2013 01:03
trans-1,2-Dichloroethene	ND		0.0050	1	10/11/2013 01:03
1,2-Dichloropropane	ND		0.0050	1	10/11/2013 01:03
1,3-Dichloropropane	ND		0.0050	1	10/11/2013 01:03
2,2-Dichloropropane	ND		0.0050	1	10/11/2013 01:03
1,1-Dichloropropene	ND		0.0050	1	10/11/2013 01:03

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/10/13 13:51
Date Prepared: 10/10/13

WorkOrder: 1310373
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWN-e-6'	1310373-006A	Soil	10/10/2013 12:00	GC16	82725
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/11/2013 01:03
trans-1,3-Dichloropropene	ND		0.0050	1	10/11/2013 01:03
Diisopropyl ether (DIPE)	ND		0.0050	1	10/11/2013 01:03
Ethylbenzene	ND		0.0050	1	10/11/2013 01:03
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/11/2013 01:03
Freon 113	ND		0.10	1	10/11/2013 01:03
Hexachlorobutadiene	ND		0.0050	1	10/11/2013 01:03
Hexachloroethane	ND		0.0050	1	10/11/2013 01:03
2-Hexanone	ND		0.0050	1	10/11/2013 01:03
Isopropylbenzene	ND		0.0050	1	10/11/2013 01:03
4-Isopropyl toluene	ND		0.0050	1	10/11/2013 01:03
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/11/2013 01:03
Methylene chloride	ND		0.0050	1	10/11/2013 01:03
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/11/2013 01:03
Naphthalene	ND		0.0050	1	10/11/2013 01:03
n-Propyl benzene	ND		0.0050	1	10/11/2013 01:03
Styrene	ND		0.0050	1	10/11/2013 01:03
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/11/2013 01:03
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/11/2013 01:03
Tetrachloroethene	ND		0.0050	1	10/11/2013 01:03
Toluene	ND		0.0050	1	10/11/2013 01:03
1,2,3-Trichlorobenzene	ND		0.0050	1	10/11/2013 01:03
1,2,4-Trichlorobenzene	ND		0.0050	1	10/11/2013 01:03
1,1,1-Trichloroethane	ND		0.0050	1	10/11/2013 01:03
1,1,2-Trichloroethane	ND		0.0050	1	10/11/2013 01:03
Trichloroethene	ND		0.0050	1	10/11/2013 01:03
Trichlorofluoromethane	ND		0.0050	1	10/11/2013 01:03
1,2,3-Trichloropropane	ND		0.0050	1	10/11/2013 01:03
1,2,4-Trimethylbenzene	ND		0.0050	1	10/11/2013 01:03
1,3,5-Trimethylbenzene	ND		0.0050	1	10/11/2013 01:03
Vinyl Chloride	ND		0.0050	1	10/11/2013 01:03
Xylenes, Total	ND		0.0050	1	10/11/2013 01:03
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	93		70-130		10/11/2013 01:03
Toluene-d8	98		70-130		10/11/2013 01:03
4-BFB	98		70-130		10/11/2013 01:03



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/10/13 13:51
Date Prepared: 10/10/13

WorkOrder: 1310373
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EBE-12'	1310373-001A	Soil	10/10/2013 11:10	GC7	82721
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		1.0	1	10/11/2013 03:05
MTBE	ND		0.050	1	10/11/2013 03:05
Benzene	ND		0.0050	1	10/11/2013 03:05
Toluene	ND		0.0050	1	10/11/2013 03:05
Ethylbenzene	ND		0.0050	1	10/11/2013 03:05
Xylenes	ND		0.0050	1	10/11/2013 03:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	108		70-130		10/11/2013 03:05
SWS-e-10'	1310373-002A	Soil	10/10/2013 11:25	GC7	82721
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	1500		200	200	10/11/2013 04:04
MTBE	ND		10	200	10/11/2013 04:04
Benzene	1.5		1.0	200	10/11/2013 04:04
Toluene	38		1.0	200	10/11/2013 04:04
Ethylbenzene	33		1.0	200	10/11/2013 04:04
Xylenes	230		1.0	200	10/11/2013 04:04
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d2	
2-Fluorotoluene	127		70-130		10/11/2013 04:04
SWS-e-6'	1310373-003A	Soil	10/10/2013 11:30	GC7	82721
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		1.0	1	10/11/2013 13:01
MTBE	ND		0.050	1	10/11/2013 13:01
Benzene	ND		0.0050	1	10/11/2013 13:01
Toluene	ND		0.0050	1	10/11/2013 13:01
Ethylbenzene	ND		0.0050	1	10/11/2013 13:01
Xylenes	ND		0.0050	1	10/11/2013 13:01
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	107		70-130		10/11/2013 13:01

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/10/13 13:51
Date Prepared: 10/10/13

WorkOrder: 1310373
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWN-e-10'	1310373-005A	Soil	10/10/2013 11:45	GC7	82721

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	770	200	200	10/11/2013 05:33
MTBE	ND	10	200	10/11/2013 05:33
Benzene	ND	1.0	200	10/11/2013 05:33
Toluene	1.1	1.0	200	10/11/2013 05:33
Ethylbenzene	5.9	1.0	200	10/11/2013 05:33
Xylenes	70	1.0	200	10/11/2013 05:33
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	Analytical Comments: d2	
aaa-TFT	97	70-130		10/11/2013 05:33

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWN-e-6'	1310373-006A	Soil	10/10/2013 12:00	GC7	82721

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	10/11/2013 15:14
MTBE	ND	0.050	1	10/11/2013 15:14
Benzene	ND	0.0050	1	10/11/2013 15:14
Toluene	ND	0.0050	1	10/11/2013 15:14
Ethylbenzene	ND	0.0050	1	10/11/2013 15:14
Xylenes	ND	0.0050	1	10/11/2013 15:14
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	101	70-130		10/11/2013 15:14



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/10/13 13:51
Date Prepared: 10/10/13

WorkOrder: 1310373
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EBE-12'	1310373-001A	Soil	10/10/2013 11:10	GC9b	82743
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	10/11/2013 12:17
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/11/2013 12:17
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	113		70-130		10/11/2013 12:17
SWS-e-10'	1310373-002A	Soil	10/10/2013 11:25	GC9a	82743
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	880		20	20	10/11/2013 14:08
TPH-Motor Oil (C18-C36)	470		100	20	10/11/2013 14:08
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4,e7,e2	
C9	116		70-130		10/11/2013 14:08
SWS-e-6'	1310373-003A	Soil	10/10/2013 11:30	GC9b	82743
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1.2		1.0	1	10/11/2013 10:03
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/11/2013 10:03
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e2	
C9	101		70-130		10/11/2013 10:03
SWN-e-10'	1310373-005A	Soil	10/10/2013 11:45	GC11A	82743
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	310		1.0	1	10/11/2013 15:05
TPH-Motor Oil (C18-C36)	160		5.0	1	10/11/2013 15:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4,e7,e2	
C9	120		70-130		10/11/2013 15:05

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/10/13 13:51
Date Prepared: 10/10/13

WorkOrder: 1310373
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWN-e-6'	1310373-006A	Soil	10/10/2013 12:00	GC9b	82743
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	10/11/2013 11:09
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/11/2013 11:09
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	102		70-130		10/11/2013 11:09



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/9/13
Date Analyzed: 10/10/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 82725
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82725
 1310373-006AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.04658	0.0050	0.050	-	93.2	70-130
Benzene	ND	0.04706	0.0050	0.050	-	94.1	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.2141	0.050	0.20	-	107	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.04691	0.0050	0.050	-	93.8	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.04638	0.0040	0.050	-	92.8	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.04801	0.0040	0.050	-	96	70-130
1,1-Dichloroethene	ND	0.04683	0.0050	0.050	-	93.7	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/9/13
Date Analyzed: 10/10/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 82725
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82725
 1310373-006AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.04812	0.0050	0.050	-	96.2	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.04622	0.0050	0.050	-	92.4	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.04839	0.0050	0.050	-	96.8	70-130
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.05146	0.0050	0.050	-	103	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.04589	0.0050	0.050	-	91.8	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

Surrogate Recovery

Dibromofluoromethane	0.1138	0.1163		0.12	91	93	70-130
Toluene-d8	0.1236	0.1232		0.12	99	99	70-130
4-BFB	0.01206	0.01168		0.012	96	93	70-130

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/9/13
Date Analyzed: 10/10/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 82725
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82725
 1310373-006AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.04455	0.04418	0.050	ND	89.1	88.4	56-94	0.845	30
Benzene	0.04494	0.04408	0.050	ND	89.9	88.2	60-106	1.91	30
t-Butyl alcohol (TBA)	0.2005	0.1977	0.20	ND	100	98.8	56-140	1.42	30
Chlorobenzene	0.04545	0.04436	0.050	ND	90.9	88.7	61-108	2.43	30
1,2-Dibromoethane (EDB)	0.0458	0.04484	0.050	ND	91.6	89.7	54-119	2.10	30
1,2-Dichloroethane (1,2-DCA)	0.04454	0.04407	0.050	ND	89.1	88.1	48-115	1.06	30
1,1-Dichloroethene	0.04453	0.04402	0.050	ND	89.1	88	46-111	1.15	30
Diisopropyl ether (DIPE)	0.0458	0.0455	0.050	ND	91.6	91	53-111	0.647	30
Ethyl tert-butyl ether (ETBE)	0.0442	0.04375	0.050	ND	88.4	87.5	61-104	1.04	30
Methyl-t-butyl ether (MTBE)	0.04594	0.04595	0.050	ND	91.9	91.9	58-107	0	30
Toluene	0.04896	0.04846	0.050	ND	97.9	96.9	64-114	1.01	30
Trichloroethene	0.04289	0.04224	0.050	ND	85.8	84.5	60-116	1.54	30
Surrogate Recovery									
Dibromofluoromethane	0.1156	0.1162	0.12		92	93	70-130	0.554	30
Toluene-d8	0.1238	0.123	0.12		99	98	70-130	0.614	30
4-BFB	0.01164	0.01154	0.012		93	92	70-130	0.820	30



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/9/13
Date Analyzed: 10/10/13
Instrument: GC19
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 82721
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-82721
 1310345-035AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.6272	0.40	0.60	-	105	70-130
MTBE	ND	0.08552	0.050	0.10	-	85.5	70-130
Benzene	ND	0.1118	0.0050	0.10	-	112	70-130
Toluene	ND	0.1151	0.0050	0.10	-	115	70-130
Ethylbenzene	ND	0.1133	0.0050	0.10	-	113	70-130
Xylenes	ND	0.3576	0.0050	0.30	-	119	70-130

Surrogate Recovery

2-Fluorotoluene	0.112	0.1099		0.10	112	110	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.5413	0.5722	0.60	ND	90.2	95.4	70-130	5.55	20
MTBE	0.07465	0.07326	0.10	ND	74.7	73.3	70-130	1.88	20
Benzene	0.1001	0.09769	0.10	ND	100	97.7	70-130	2.48	20
Toluene	0.1035	0.1033	0.10	ND	104	103	70-130	0.231	20
Ethylbenzene	0.1025	0.1011	0.10	ND	103	101	70-130	1.40	20
Xylenes	0.3269	0.3208	0.30	ND	109	107	70-130	1.89	20

Surrogate Recovery

2-Fluorotoluene	0.1009	0.09889	0.10		101	99	70-130	1.99	20
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Quality Control Report

Client: AEI Consultants
Date Prepared: 10/10/13
Date Analyzed: 10/11/13
Instrument: GC9b
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 82743
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-82743

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	43.68	1.0	40	-	109	70-130
Surrogate Recovery							
C9	22.74	22.5		25	91	90	70-130



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1310373

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Jeremy Smith
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 283-6121

Email: jasmith@aeiconsultants.com
cc:
PO: #WC084379
ProjectNo: #298931; FSI

Bill to:

Sara Guerin
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.co

Requested TAT:

1 day

Date Received: 10/10/2013

Date Printed: 10/10/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1310373-001	EBE-12'	Soil	10/10/2013 11:10	<input type="checkbox"/>	A	A	A										
1310373-002	SWS-e-10'	Soil	10/10/2013 11:25	<input type="checkbox"/>	A		A										
1310373-003	SWS-e-6'	Soil	10/10/2013 11:30	<input type="checkbox"/>	A		A										
1310373-005	SWN-e-10'	Soil	10/10/2013 11:45	<input type="checkbox"/>	A		A										
1310373-006	SWN-e-6'	Soil	10/10/2013 12:00	<input type="checkbox"/>	A		A										

Test Legend:

1	8260B_S	2	PREFD REPORT	3	TPH(DMO)WSG_S	4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 005A, 006A contain testgroup.

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

RUSH

1310373

McCAMPBELL ANALYTICAL INC.						CHAIN OF CUSTODY RECORD																			
1538 Willow Pass Road, Pittsburg, CA 94565						TURN AROUND TIME																			
Telephone: (925) 252-9262			Fax: (925) 252-9269			EDF Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					RUSH <input checked="" type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAY														
Report To: Jeremy Smith						Bill To: AEI Consultants						Analysis Request				Other		Comments							
Company: AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597						Analysis Request Other Comments																			
PO# WC0843 79			Global ID: T0600100655																						
E-Mail: jsmith@aeiconsultatns.com																									
Telephone: (925) 746-6000, ext. 1128			Fax: (925) 746-6099																						
AEI Project No. 298931			Project Name: FSI																						
Project Location: 1630 Park St., Alameda, CA 94501																									
Sampler Signature: <i>[Signature]</i>																									
SAMPLE ID	FIELD POINT NAME	SAMPLING		# of Containers	Type Containers											MATRIX					METHOD PRESERVED				
		Date	Time													Water	Soil	Air	Sludge	Other	Ice	HCL	HNO ₃	Other	TPH-G (EPA 8015 M)
EBE-12'		10/10/13	11:10	1	STL											X					X				X
SWS-e-10'			11:25								X				X	X									
SWS-e-6'			11:30								X				X	X									
SWS-e-3'			11:35															X							
SWN-e-10'			12:05								X				X	X									
SWN-e-6'			12:00								X				X	X									
SWN-e-3'			12:05															X							
Relinquished By: Andrew Wallace		Date: 10/10/13	Time: 11:40	Received By: <i>[Signature]</i>		ICE/1° 5.2 GOOD CONDITION _____ HEAD SPACE ABSENT _____ DECHLORINATED IN LAB _____ PRESERVATION APPROPRIATE _____ CONTAINERS _____ PERSERVED IN LAB _____ VOAS O&G METALS OTHER																			
Relinquished By:		Date:	Time:	Received By:																					
Relinquished By:		Date:	Time:	Received By:																					



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **10/10/2013 1:51:07 PM**
 Project Name: **#298931; FSI** Login Reviewed by: **Zoraida Cortez**
 WorkOrder N°: **1310373** Matrix: Soil Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 5.2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1310373 A

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jeremy Smith
Project P.O.: #WC084379
Project Name: #298931; FSI

Project Received: 10/10/2013

Analytical Report reviewed & approved for release on 10/22/2013 by:

Question about
your data?

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #298931; FSI
WorkOrder: 1310373

<u>Glossary Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Analytical Qualifier

d1	weakly modified or unmodified gasoline is significant
d2	heavier gasoline range compounds are significant (aged gasoline?)
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant



Analytical Report

Client: AEI Consultants

WorkOrder: 1310373

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/10/13 13:51

Analytical Method: SW8260B

Date Prepared: 10/16/13-10/21/13

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWS-e-3'	1310373-004A	Soil	10/10/2013 11:35	GC16	83118
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/22/2013 00:45
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/22/2013 00:45
Benzene	ND		0.0050	1	10/22/2013 00:45
Bromobenzene	ND		0.0050	1	10/22/2013 00:45
Bromochloromethane	ND		0.0050	1	10/22/2013 00:45
Bromodichloromethane	ND		0.0050	1	10/22/2013 00:45
Bromoform	ND		0.0050	1	10/22/2013 00:45
Bromomethane	ND		0.0050	1	10/22/2013 00:45
2-Butanone (MEK)	ND		0.020	1	10/22/2013 00:45
t-Butyl alcohol (TBA)	ND		0.050	1	10/22/2013 00:45
n-Butyl benzene	ND		0.0050	1	10/22/2013 00:45
sec-Butyl benzene	ND		0.0050	1	10/22/2013 00:45
tert-Butyl benzene	ND		0.0050	1	10/22/2013 00:45
Carbon Disulfide	ND		0.0050	1	10/22/2013 00:45
Carbon Tetrachloride	ND		0.0050	1	10/22/2013 00:45
Chlorobenzene	ND		0.0050	1	10/22/2013 00:45
Chloroethane	ND		0.0050	1	10/22/2013 00:45
Chloroform	ND		0.0050	1	10/22/2013 00:45
Chloromethane	ND		0.0050	1	10/22/2013 00:45
2-Chlorotoluene	ND		0.0050	1	10/22/2013 00:45
4-Chlorotoluene	ND		0.0050	1	10/22/2013 00:45
Dibromochloromethane	ND		0.0050	1	10/22/2013 00:45
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/22/2013 00:45
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/22/2013 00:45
Dibromomethane	ND		0.0050	1	10/22/2013 00:45
1,2-Dichlorobenzene	ND		0.0050	1	10/22/2013 00:45
1,3-Dichlorobenzene	ND		0.0050	1	10/22/2013 00:45
1,4-Dichlorobenzene	ND		0.0050	1	10/22/2013 00:45
Dichlorodifluoromethane	ND		0.0050	1	10/22/2013 00:45
1,1-Dichloroethane	ND		0.0050	1	10/22/2013 00:45
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/22/2013 00:45
1,1-Dichloroethene	ND		0.0050	1	10/22/2013 00:45
cis-1,2-Dichloroethene	ND		0.0050	1	10/22/2013 00:45
trans-1,2-Dichloroethene	ND		0.0050	1	10/22/2013 00:45
1,2-Dichloropropane	ND		0.0050	1	10/22/2013 00:45
1,3-Dichloropropane	ND		0.0050	1	10/22/2013 00:45
2,2-Dichloropropane	ND		0.0050	1	10/22/2013 00:45
1,1-Dichloropropene	ND		0.0050	1	10/22/2013 00:45

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310373

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/10/13 13:51

Analytical Method: SW8260B

Date Prepared: 10/16/13-10/21/13

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWS-e-3'	1310373-004A	Soil	10/10/2013 11:35	GC16	83118
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/22/2013 00:45
trans-1,3-Dichloropropene	ND		0.0050	1	10/22/2013 00:45
Diisopropyl ether (DIPE)	ND		0.0050	1	10/22/2013 00:45
Ethylbenzene	ND		0.0050	1	10/22/2013 00:45
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/22/2013 00:45
Freon 113	ND		0.10	1	10/22/2013 00:45
Hexachlorobutadiene	ND		0.0050	1	10/22/2013 00:45
Hexachloroethane	ND		0.0050	1	10/22/2013 00:45
2-Hexanone	ND		0.0050	1	10/22/2013 00:45
Isopropylbenzene	ND		0.0050	1	10/22/2013 00:45
4-Isopropyl toluene	ND		0.0050	1	10/22/2013 00:45
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/22/2013 00:45
Methylene chloride	ND		0.0050	1	10/22/2013 00:45
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/22/2013 00:45
Naphthalene	ND		0.0050	1	10/22/2013 00:45
n-Propyl benzene	ND		0.0050	1	10/22/2013 00:45
Styrene	ND		0.0050	1	10/22/2013 00:45
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/22/2013 00:45
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/22/2013 00:45
Tetrachloroethene	ND		0.0050	1	10/22/2013 00:45
Toluene	ND		0.0050	1	10/22/2013 00:45
1,2,3-Trichlorobenzene	ND		0.0050	1	10/22/2013 00:45
1,2,4-Trichlorobenzene	ND		0.0050	1	10/22/2013 00:45
1,1,1-Trichloroethane	ND		0.0050	1	10/22/2013 00:45
1,1,2-Trichloroethane	ND		0.0050	1	10/22/2013 00:45
Trichloroethene	ND		0.0050	1	10/22/2013 00:45
Trichlorofluoromethane	ND		0.0050	1	10/22/2013 00:45
1,2,3-Trichloropropane	ND		0.0050	1	10/22/2013 00:45
1,2,4-Trimethylbenzene	ND		0.0050	1	10/22/2013 00:45
1,3,5-Trimethylbenzene	ND		0.0050	1	10/22/2013 00:45
Vinyl Chloride	ND		0.0050	1	10/22/2013 00:45
Xylenes, Total	ND		0.0050	1	10/22/2013 00:45
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	98		70-130		10/22/2013 00:45
Toluene-d8	104		70-130		10/22/2013 00:45
4-BFB	106		70-130		10/22/2013 00:45

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310373

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/10/13 13:51

Analytical Method: SW8260B

Date Prepared: 10/16/13-10/21/13

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWN-e-3'	1310373-007A	Soil	10/10/2013 12:05	GC16	82907
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	10/18/2013 20:33
tert-Amyl methyl ether (TAME)	ND		0.0050	1	10/18/2013 20:33
Benzene	ND		0.0050	1	10/18/2013 20:33
Bromobenzene	ND		0.0050	1	10/18/2013 20:33
Bromochloromethane	ND		0.0050	1	10/18/2013 20:33
Bromodichloromethane	ND		0.0050	1	10/18/2013 20:33
Bromoform	ND		0.0050	1	10/18/2013 20:33
Bromomethane	ND		0.0050	1	10/18/2013 20:33
2-Butanone (MEK)	ND		0.020	1	10/18/2013 20:33
t-Butyl alcohol (TBA)	ND		0.050	1	10/18/2013 20:33
n-Butyl benzene	ND		0.0050	1	10/18/2013 20:33
sec-Butyl benzene	ND		0.0050	1	10/18/2013 20:33
tert-Butyl benzene	ND		0.0050	1	10/18/2013 20:33
Carbon Disulfide	ND		0.0050	1	10/18/2013 20:33
Carbon Tetrachloride	ND		0.0050	1	10/18/2013 20:33
Chlorobenzene	ND		0.0050	1	10/18/2013 20:33
Chloroethane	ND		0.0050	1	10/18/2013 20:33
Chloroform	ND		0.0050	1	10/18/2013 20:33
Chloromethane	ND		0.0050	1	10/18/2013 20:33
2-Chlorotoluene	ND		0.0050	1	10/18/2013 20:33
4-Chlorotoluene	ND		0.0050	1	10/18/2013 20:33
Dibromochloromethane	ND		0.0050	1	10/18/2013 20:33
1,2-Dibromo-3-chloropropane	ND		0.0040	1	10/18/2013 20:33
1,2-Dibromoethane (EDB)	ND		0.0040	1	10/18/2013 20:33
Dibromomethane	ND		0.0050	1	10/18/2013 20:33
1,2-Dichlorobenzene	ND		0.0050	1	10/18/2013 20:33
1,3-Dichlorobenzene	ND		0.0050	1	10/18/2013 20:33
1,4-Dichlorobenzene	ND		0.0050	1	10/18/2013 20:33
Dichlorodifluoromethane	ND		0.0050	1	10/18/2013 20:33
1,1-Dichloroethane	ND		0.0050	1	10/18/2013 20:33
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	10/18/2013 20:33
1,1-Dichloroethene	ND		0.0050	1	10/18/2013 20:33
cis-1,2-Dichloroethene	ND		0.0050	1	10/18/2013 20:33
trans-1,2-Dichloroethene	ND		0.0050	1	10/18/2013 20:33
1,2-Dichloropropane	ND		0.0050	1	10/18/2013 20:33
1,3-Dichloropropane	ND		0.0050	1	10/18/2013 20:33
2,2-Dichloropropane	ND		0.0050	1	10/18/2013 20:33
1,1-Dichloropropene	ND		0.0050	1	10/18/2013 20:33

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310373

Project: #298931; FSI

Extraction Method: SW5030B

Date Received: 10/10/13 13:51

Analytical Method: SW8260B

Date Prepared: 10/16/13-10/21/13

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWN-e-3'	1310373-007A	Soil	10/10/2013 12:05	GC16	82907
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.0050	1	10/18/2013 20:33
trans-1,3-Dichloropropene	ND		0.0050	1	10/18/2013 20:33
Diisopropyl ether (DIPE)	ND		0.0050	1	10/18/2013 20:33
Ethylbenzene	ND		0.0050	1	10/18/2013 20:33
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	10/18/2013 20:33
Freon 113	ND		0.10	1	10/18/2013 20:33
Hexachlorobutadiene	ND		0.0050	1	10/18/2013 20:33
Hexachloroethane	ND		0.0050	1	10/18/2013 20:33
2-Hexanone	ND		0.0050	1	10/18/2013 20:33
Isopropylbenzene	ND		0.0050	1	10/18/2013 20:33
4-Isopropyl toluene	ND		0.0050	1	10/18/2013 20:33
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	10/18/2013 20:33
Methylene chloride	ND		0.0050	1	10/18/2013 20:33
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	10/18/2013 20:33
Naphthalene	ND		0.0050	1	10/18/2013 20:33
n-Propyl benzene	ND		0.0050	1	10/18/2013 20:33
Styrene	ND		0.0050	1	10/18/2013 20:33
1,1,1,2-Tetrachloroethane	ND		0.0050	1	10/18/2013 20:33
1,1,2,2-Tetrachloroethane	ND		0.0050	1	10/18/2013 20:33
Tetrachloroethene	ND		0.0050	1	10/18/2013 20:33
Toluene	ND		0.0050	1	10/18/2013 20:33
1,2,3-Trichlorobenzene	ND		0.0050	1	10/18/2013 20:33
1,2,4-Trichlorobenzene	ND		0.0050	1	10/18/2013 20:33
1,1,1-Trichloroethane	ND		0.0050	1	10/18/2013 20:33
1,1,2-Trichloroethane	ND		0.0050	1	10/18/2013 20:33
Trichloroethene	ND		0.0050	1	10/18/2013 20:33
Trichlorofluoromethane	ND		0.0050	1	10/18/2013 20:33
1,2,3-Trichloropropane	ND		0.0050	1	10/18/2013 20:33
1,2,4-Trimethylbenzene	ND		0.0050	1	10/18/2013 20:33
1,3,5-Trimethylbenzene	ND		0.0050	1	10/18/2013 20:33
Vinyl Chloride	ND		0.0050	1	10/18/2013 20:33
Xylenes, Total	ND		0.0050	1	10/18/2013 20:33
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	96		70-130		10/18/2013 20:33
Toluene-d8	112		70-130		10/18/2013 20:33
4-BFB	115		70-130		10/18/2013 20:33



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/10/13 13:51
Date Prepared: 10/16/13

WorkOrder: 1310373
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWS-e-3'	1310373-004A	Soil	10/10/2013 11:35	GC19	82919

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	18	1.0	1	10/17/2013 23:52
MTBE	---	0.050	1	10/17/2013 23:52
Benzene	---	0.0050	1	10/17/2013 23:52
Toluene	---	0.0050	1	10/17/2013 23:52
Ethylbenzene	---	0.0050	1	10/17/2013 23:52
Xylenes	---	0.0050	1	10/17/2013 23:52
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	Analytical Comments: d1	
2-Fluorotoluene	106	70-130		10/17/2013 23:52

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWN-e-3'	1310373-007A	Soil	10/10/2013 12:05	GC19	82919

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	10/18/2013 02:50
MTBE	---	0.050	1	10/18/2013 02:50
Benzene	---	0.0050	1	10/18/2013 02:50
Toluene	---	0.0050	1	10/18/2013 02:50
Ethylbenzene	---	0.0050	1	10/18/2013 02:50
Xylenes	---	0.0050	1	10/18/2013 02:50
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	106	70-130		10/18/2013 02:50



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/10/13 13:51
Date Prepared: 10/16/13

WorkOrder: 1310373
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SWS-e-3'	1310373-004A	Soil	10/10/2013 11:35	GC6A	82920
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	28		1.0	1	10/18/2013 15:17
TPH-Motor Oil (C18-C36)	27		5.0	1	10/18/2013 15:17
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4,e7,e2	
C9	98		70-130		10/18/2013 15:17
SWN-e-3'	1310373-007A	Soil	10/10/2013 12:05	GC6A	82920
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	10/18/2013 16:33
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/18/2013 16:33
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	98		70-130		10/18/2013 16:33



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/15/13
Date Analyzed: 10/16/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 82907
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82907
 1310280-002AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.04989	0.0050	0.050	-	99.8	70-130
Benzene	ND	0.04681	0.0050	0.050	-	93.6	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.2266	0.050	0.20	-	113	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.04879	0.0050	0.050	-	97.6	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0497	0.0040	0.050	-	99.4	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.05239	0.0040	0.050	-	105	70-130
1,1-Dichloroethene	ND	0.04243	0.0050	0.050	-	84.9	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/15/13
Date Analyzed: 10/16/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 82907
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82907
 1310280-002AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.04793	0.0050	0.050	-	95.9	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.04791	0.0050	0.050	-	95.8	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.05159	0.0050	0.050	-	103	70-130
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.05133	0.0050	0.050	-	103	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.05064	0.0050	0.050	-	101	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

Surrogate Recovery

Dibromofluoromethane	0.1205	0.1244		0.12	96	100	70-130
Toluene-d8	0.1443	0.1441		0.12	115	115	70-130
4-BFB	0.01464	0.01313		0.012	117	105	70-130

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Quality Control Report

Client: AEI Consultants
Date Prepared: 10/15/13
Date Analyzed: 10/16/13
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 82907
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-82907
 1310280-002AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.04233	0.04272	0.050	ND	84.7	85.4	56-94	0.910	30
Benzene	0.03693	0.03822	0.050	ND	73.9	76.4	60-106	3.43	30
t-Butyl alcohol (TBA)	0.1811	0.1801	0.20	ND	90.6	90.1	56-140	0.541	30
Chlorobenzene	0.04078	0.04018	0.050	ND	81.6	80.4	61-108	1.47	30
1,2-Dibromoethane (EDB)	0.04165	0.04133	0.050	ND	83.3	82.7	54-119	0.772	30
1,2-Dichloroethane (1,2-DCA)	0.04105	0.04229	0.050	ND	82.1	84.6	48-115	2.96	30
1,1-Dichloroethene	0.03109	0.03451	0.050	ND	62.2	69	46-111	10.4	30
Diisopropyl ether (DIPE)	0.03886	0.03949	0.050	ND	77.7	79	53-111	1.62	30
Ethyl tert-butyl ether (ETBE)	0.03922	0.0397	0.050	ND	78.4	79.4	61-104	1.22	30
Methyl-t-butyl ether (MTBE)	0.04172	0.04212	0.050	ND	83.4	84.2	58-107	0.963	30
Toluene	0.04158	0.04113	0.050	ND	83.2	82.3	64-114	1.10	30
Trichloroethene	0.03906	0.04125	0.050	ND	78.1	82.5	60-116	5.43	30
Surrogate Recovery									
Dibromofluoromethane	0.1218	0.1227	0.12		97	98	70-130	0.735	30
Toluene-d8	0.1417	0.1402	0.12		113	112	70-130	1.04	30
4-BFB	0.01292	0.01294	0.012		103	103	70-130	0	30

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared:
Date Analyzed:
Instrument: GC16
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 83118
Extraction Method SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID:

QC SUMMARY REPORT FOR SW8260B



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/15/13
Date Analyzed: 10/16/13
Instrument: GC19
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 82919
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-82919
 1310519-008AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.613	0.40	0.60	-	102	70-130
MTBE	ND	0.1009	0.050	0.10	-	101	70-130
Benzene	ND	0.12	0.0050	0.10	-	120	70-130
Toluene	ND	0.1219	0.0050	0.10	-	122	70-130
Ethylbenzene	ND	0.1198	0.0050	0.10	-	120	70-130
Xylenes	ND	0.369	0.0050	0.30	-	123	70-130

Surrogate Recovery

2-Fluorotoluene	0.1108	0.112		0.10	111	112	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.567	0.6371	0.60	ND	94.5	106	70-130	11.6	20
MTBE	0.08772	0.08591	0.10	ND	87.7	85.9	70-130	2.08	20
Benzene	0.1205	0.1165	0.10	ND	121	116	70-130	3.43	20
Toluene	0.1203	0.1175	0.10	ND	120	118	70-130	2.31	20
Ethylbenzene	0.1179	0.1157	0.10	ND	118	116	70-130	1.93	20
Xylenes	0.3701	0.3674	0.30	ND	123	122	70-130	0.735	20

Surrogate Recovery

2-Fluorotoluene	0.1109	0.1017	0.10		111	102	70-130	8.72	20
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Quality Control Report

Client: AEI Consultants
Date Prepared: 10/15/13
Date Analyzed: 10/16/13 - 10/17/13
Instrument: GC6A, GC6B
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310373
BatchID: 82920
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-82920
 1310517-015AMS/MSD

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	38.48	1.0	40	-	96.2	70-130
Surrogate Recovery							
C9	27.87	22.4		25	111	90	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR	0	310	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR	0		NR	NR	-	NR	



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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1310373 **A** ClientCode: AEL

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Report to:

Jeremy Smith
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com
cc:
PO: #WC084379
ProjectNo: #298931; FSI

Bill to:

Sara Guerin
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.co

Requested TAT:

1 day

Date Received: 10/10/2013

Date Add-On: 10/16/2013

Date Printed: 10/16/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1310373-004	SWS-e-3'	Soil	10/10/2013 11:35	<input type="checkbox"/>	A	A	A										
1310373-007	SWN-e-3'	Soil	10/10/2013 12:05	<input type="checkbox"/>	A	A	A										

Test Legend:

1	8260B_S	2	G-MBTEX_S	3	TPH(DMO)WSG_S	4		5	
6		7		8		9		10	
11		12							

Prepared by: Zoraida Cortez

Comments: Samples 004 & 007 taken off hold and setup for MultiRange w/SG & VOCs 10/16/13 5d.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

RUSH

1310373

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH
 24 HR
 48 HR
 72 HR
 5 DAY

EDF Required? Yes No

PDF Required? Yes No

Report To: Jeremy Smith Bill To: AEI Consultants
 Company: AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597
 PO# WC0843 **79** Global ID: T0600100655
 E-Mail: jasmith@aeiconsultatns.com
 Telephone: (925) 746-6000, ext. 1128 Fax: (925) 746-6099
 AEI Project No. 298931 Project Name: FSI
 Project Location: 1630 Park St., Alameda, CA 94501
 Sampler Signature: *[Signature]*

Analysis Request

Other

Comments

SAMPLE ID	FIELD POINT NAME	SAMPLING		# of Containers	Type Containers	MATRIX					METHOD PRESERVED				TPH-G (EPA 8015 M)	TPH-D/TPH-MO (EPA 8015 M w/ Silica Gel Clean-up)	BTEX, MTBE (EPA 8260B)	VOC: 8260	HOLD
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCL	HNO ₃	Other					
EBE-12'		10/10/13	11:10	1	STL	X					X			X	X	X			
SWS-e-10'			11:25								X			X	X	X			
SWS-e-6'			11:30								X			X	X	X			
SWS-e-3'			11:35								X			X	X	X			*
SWN-e-10'			12:15								X			X	X	X			
SWN-e-6'			12:00								X			X	X	X			
SWN-e-3'			12:05								X			X	X	X			*

Relinquished By: *Andrew Wallace* Date: 10/10/13 Time: 1:40 Received By: *[Signature]*
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/^{5.2} _____ PRESERVATION _____
 GOOD CONDITION _____ APPROPRIATE _____
 HEAD SPACE ABSENT _____ CONTAINERS _____
 DECHLORINATED IN LAB _____ PERSERVED IN LAB _____
 added 10/16/13 STAT



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1310829 **Amended:** 11/05/2013

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jeremy Smith
Project P.O.: #WC084430
Project Name: #298931; FSI

Project Received: 10/24/2013

Analytical Report reviewed & approved for release on 10/31/2013 by:

Question about
your data?

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #298931; FSI
WorkOrder: 1310829

<u>Glossary</u> <u>Abbreviation</u>	<u>Description</u>
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95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

<u>Analytical</u> <u>Qualifier</u>	
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j1	see attached narrative
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<u>Quality Control</u> <u>Qualifier</u>	
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F2	LCS recovery for this compound is outside of acceptance limits.
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Case Narrative

Client: AEI Consultants
Project: #298931; FSI

Work Order: 1310829
October 31, 2013

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

In an effort to attain the lowest reporting limits possible for the majority of the TO-15 target list, high level compounds may be analyzed using EPA Method 8260B.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Advisory of April 2012.

SV-12 (1310829-007A)

Acrolein reporting limit was raised due to co-elution with non target peak interfering with quantitative value.



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/29/13

WorkOrder: 1310829
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Helium

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-3	1310829-001A	Soil Gas/DISS.	10/24/2013 11:41	GC26	83464

Initial Pressure (psia)	Final Pressure (psia)
12.06	24.02

Analytes	Result	RL	DF	Date Analyzed
Helium	0.12	0.0063	1.3	10/29/2013 12:45

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1310829-002A	Soil Gas/DISS.	10/24/2013 12:03	GC26	83464

Initial Pressure (psia)	Final Pressure (psia)
12.61	25.13

Analytes	Result	RL	DF	Date Analyzed
Helium	0.032	0.0060	1.2	10/29/2013 13:00

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-6	1310829-003A	Soil Gas/DISS.	10/24/2013 11:19	GC26	83464

Initial Pressure (psia)	Final Pressure (psia)
14.05	28.00

Analytes	Result	RL	DF	Date Analyzed
Helium	0.084	0.0050	1	10/29/2013 13:13

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/29/13

WorkOrder: 1310829
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Helium

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-7	1310829-004A	Soil Gas/DISS.	10/24/2013 10:28	GC26	83464

Initial Pressure (psia)	Final Pressure (psia)
12.98	25.88

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Helium	0.022	0.0066	1.3	10/29/2013 13:30

SV-8	1310829-005A	Soil Gas/DISS.	10/24/2013 09:06	GC26	83464
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Initial Pressure (psia)	Final Pressure (psia)
12.28	24.46

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Helium	0.12	0.0061	1.2	10/29/2013 13:43

SV-9	1310829-006A	Soil Gas/DISS.	10/24/2013 10:13	GC26	83464
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Initial Pressure (psia)	Final Pressure (psia)
13.78	27.46

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Helium	0.019	0.0060	1.2	10/29/2013 13:56

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/29/13

WorkOrder: 1310829
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Helium

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-12	1310829-007A	Soil Gas/DISS.	10/24/2013 11:12	GC26	83464

Initial Pressure (psia) **Final Pressure (psia)**

13.69	27.28
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Analytes	Result	RL	DF	Date Analyzed
Helium	0.072	0.0050	1	10/29/2013 14:08

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13	1310829-008A	Soil Gas/DISS.	10/24/2013 13:15	GC26	83464

Initial Pressure (psia) **Final Pressure (psia)**

13.13	26.16
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Analytes	Result	RL	DF	Date Analyzed
Helium	0.037	0.0050	1	10/29/2013 15:02

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-14	1310829-009A	Soil Gas/DISS.	10/24/2013 14:19	GC26	83464

Initial Pressure (psia) **Final Pressure (psia)**

13.48	26.89
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Analytes	Result	RL	DF	Date Analyzed
Helium	0.013	0.0050	1	10/29/2013 15:15

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/29/13

WorkOrder: 1310829
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Helium

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-15	1310829-010A	Soil Gas/DISS.	10/24/2013 13:28	GC26	83464

Initial Pressure (psia) **Final Pressure (psia)**

12.21	24.33
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Analytes	Result	RL	DF	Date Analyzed
Helium	0.038	0.0050	1	10/29/2013 15:29

SV-13 DUP	1310829-011A	Soil Gas/DISS.	10/24/2013 13:35	GC26	83464
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Initial Pressure (psia) **Final Pressure (psia)**

12.93	25.76
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Analytes	Result	RL	DF	Date Analyzed
Helium	0.0091	0.0050	1	10/29/2013 15:44



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/29/13-10/30/13

WorkOrder: 1310829
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: µL/L

Light Gases

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-3	1310829-001A	Soil Gas/DISS.	10/24/2013 11:41	GC26	83465

Initial Pressure (psia)	Final Pressure (psia)
12.06	24.02

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	2300	630	13	10/30/2013 11:22
Methane	ND	1.3	1.3	10/30/2013 16:59
Oxygen	160,000	13,000	3.1	10/30/2013 11:22

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1310829-002A	Soil Gas/DISS.	10/24/2013 12:03	GC26	83465

Initial Pressure (psia)	Final Pressure (psia)
12.61	25.13

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	2500	600	12	10/30/2013 11:45
Methane	ND	1.2	1.2	10/30/2013 17:25
Oxygen	160,000	12,000	3	10/30/2013 11:45

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-6	1310829-003A	Soil Gas/DISS.	10/24/2013 11:19	GC26	83465

Initial Pressure (psia)	Final Pressure (psia)
14.05	28.00

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	17,000	500	10	10/30/2013 12:10
Methane	ND	1.0	1	10/30/2013 17:50
Oxygen	150,000	10,000	2.5	10/30/2013 12:10

(Cont.)



Analytical Report

Client: AEI Consultants
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Date Received: 10/24/13 20:18
Date Prepared: 10/29/13-10/30/13

WorkOrder: 1310829
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: µL/L

Light Gases

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-7	1310829-004A	Soil Gas/DISS.	10/24/2013 10:28	GC26	83465

Initial Pressure (psia)	Final Pressure (psia)
12.98	25.88

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	12,000	660	13	10/30/2013 12:33
Methane	ND	1.3	1.3	10/30/2013 18:14
Oxygen	160,000	13,000	3.3	10/30/2013 12:33

SV-8	1310829-005A	Soil Gas/DISS.	10/24/2013 09:06	GC26	83465
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Initial Pressure (psia)	Final Pressure (psia)
12.28	24.46

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	29,000	610	12	10/29/2013 20:50
Methane	ND	1.2	1.2	10/30/2013 18:41
Oxygen	130,000	12,000	3	10/29/2013 20:50

SV-9	1310829-006A	Soil Gas/DISS.	10/24/2013 10:13	GC26	83465
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Initial Pressure (psia)	Final Pressure (psia)
13.78	27.46

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	7300	600	12	10/29/2013 21:11
Methane	ND	1.2	1.2	10/30/2013 19:05
Oxygen	170,000	12,000	3	10/29/2013 21:11

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/29/13-10/30/13

WorkOrder: 1310829
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: µL/L

Light Gases

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-12	1310829-007A	Soil Gas/DISS.	10/24/2013 11:12	GC26	83465

Initial Pressure (psia)	Final Pressure (psia)
13.69	27.28

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	29,000	500	10	10/29/2013 21:32
Methane	ND	1.0	1	10/30/2013 19:30
Oxygen	150,000	10,000	2.5	10/29/2013 21:32

SV-13	1310829-008A	Soil Gas/DISS.	10/24/2013 13:15	GC26	83465
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Initial Pressure (psia)	Final Pressure (psia)
13.13	26.16

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	18,000	500	10	10/29/2013 19:26
Methane	2.2	1.0	1	10/30/2013 15:15
Oxygen	150,000	10,000	2.5	10/29/2013 19:26

SV-14	1310829-009A	Soil Gas/DISS.	10/24/2013 14:19	GC26	83465
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Initial Pressure (psia)	Final Pressure (psia)
13.48	26.89

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	3000	500	10	10/29/2013 19:47
Methane	1.5	1.0	1	10/30/2013 15:41
Oxygen	150,000	10,000	2.5	10/29/2013 19:47

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/29/13-10/30/13

WorkOrder: 1310829
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: µL/L

Light Gases

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-15	1310829-010A	Soil Gas/DISS.	10/24/2013 13:28	GC26	83465

Initial Pressure (psia)	Final Pressure (psia)
12.21	24.33

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	8500	500	10	10/29/2013 20:08
Methane	ND	1.0	1	10/30/2013 16:08
Oxygen	140,000	10,000	2.5	10/29/2013 20:08

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13 DUP	1310829-011A	Soil Gas/DISS.	10/24/2013 13:35	GC26	83465

Initial Pressure (psia)	Final Pressure (psia)
12.93	25.76

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	18,000	500	10	10/29/2013 20:29
Methane	2.2	1.0	1	10/30/2013 16:34
Oxygen	140,000	10,000	2.5	10/29/2013 20:29



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-3	1310829-001A	Soil Gas	10/24/2013 11:41	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

12.06	24.02
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Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	10/26/2013 03:31
Acrolein	ND	0.23	1	10/26/2013 03:31
Acrylonitrile	ND	1.1	1	10/26/2013 03:31
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/26/2013 03:31
Benzene	ND	1.6	1	10/26/2013 03:31
Benzyl chloride	ND	2.6	1	10/26/2013 03:31
Bromodichloromethane	ND	3.5	1	10/26/2013 03:31
Bromoform	ND	5.2	1	10/26/2013 03:31
Bromomethane	ND	2.0	1	10/26/2013 03:31
1,3-Butadiene	ND	1.1	1	10/26/2013 03:31
2-Butanone (MEK)	ND	75	1	10/26/2013 03:31
t-Butyl alcohol (TBA)	ND	31	1	10/26/2013 03:31
Carbon Disulfide	ND	1.6	1	10/26/2013 03:31
Carbon Tetrachloride	ND	3.2	1	10/26/2013 03:31
Chlorobenzene	ND	2.4	1	10/26/2013 03:31
Chloroethane	ND	1.3	1	10/26/2013 03:31
Chloroform	ND	2.4	1	10/26/2013 03:31
Chloromethane	ND	1.0	1	10/26/2013 03:31
Cyclohexane	ND	18	1	10/26/2013 03:31
Dibromochloromethane	ND	4.4	1	10/26/2013 03:31
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/26/2013 03:31
1,2-Dibromoethane (EDB)	ND	3.9	1	10/26/2013 03:31
1,2-Dichlorobenzene	ND	3.0	1	10/26/2013 03:31
1,3-Dichlorobenzene	ND	3.0	1	10/26/2013 03:31
1,4-Dichlorobenzene	ND	3.0	1	10/26/2013 03:31
Dichlorodifluoromethane	2.6	2.5	1	10/26/2013 03:31
1,1-Dichloroethane	ND	2.0	1	10/26/2013 03:31
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	10/26/2013 03:31
1,1-Dichloroethene	ND	2.0	1	10/26/2013 03:31
cis-1,2-Dichloroethene	ND	2.0	1	10/26/2013 03:31
trans-1,2-Dichloroethene	ND	2.0	1	10/26/2013 03:31
1,2-Dichloropropane	ND	2.4	1	10/26/2013 03:31
cis-1,3-Dichloropropene	ND	2.3	1	10/26/2013 03:31
trans-1,3-Dichloropropene	ND	2.3	1	10/26/2013 03:31

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/26/13-10/30/13

WorkOrder: 1310829
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-3	1310829-001A	Soil Gas	10/24/2013 11:41	GC24	83426

Initial Pressure (psia)	Final Pressure (psia)
12.06	24.02

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/26/2013 03:31
Diisopropyl ether (DIPE)	ND	2.1	1	10/26/2013 03:31
1,4-Dioxane	ND	1.8	1	10/26/2013 03:31
Ethanol	ND	96	1	10/26/2013 03:31
Ethyl acetate	ND	1.8	1	10/26/2013 03:31
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/26/2013 03:31
Ethylbenzene	ND	2.2	1	10/26/2013 03:31
4-Ethyltoluene	ND	2.5	1	10/26/2013 03:31
Freon 113	ND	3.9	1	10/26/2013 03:31
Heptane	ND	21	1	10/26/2013 03:31
Hexachlorobutadiene	ND	5.4	1	10/26/2013 03:31
Hexane	ND	18	1	10/26/2013 03:31
2-Hexanone	ND	2.1	1	10/26/2013 03:31
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	10/26/2013 03:31
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/26/2013 03:31
Methylene chloride	ND	1.8	1	10/26/2013 03:31
Methyl methacrylate	ND	0.42	1	10/26/2013 03:31
Naphthalene	ND	5.3	1	10/26/2013 03:31
Propene	ND	88	1	10/26/2013 03:31
Styrene	ND	2.2	1	10/26/2013 03:31
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/26/2013 03:31
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/26/2013 03:31
Tetrachloroethene	57	3.4	1	10/26/2013 03:31
Tetrahydrofuran	3.5	1.5	1	10/26/2013 03:31
Toluene	ND	1.9	1	10/26/2013 03:31
TPH(g)	ND	720	1	10/28/2013 21:12
1,2,4-Trichlorobenzene	ND	3.8	1	10/26/2013 03:31
1,1,1-Trichloroethane	ND	2.8	1	10/26/2013 03:31
1,1,2-Trichloroethane	ND	2.8	1	10/26/2013 03:31
Trichloroethene	ND	2.8	1	10/26/2013 03:31
Trichlorofluoromethane	ND	2.8	1	10/26/2013 03:31
1,2,4-Trimethylbenzene	ND	2.5	1	10/26/2013 03:31
1,3,5-Trimethylbenzene	ND	2.5	1	10/26/2013 03:31
Vinyl Acetate	ND	1.8	1	10/26/2013 03:31

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/26/13-10/30/13

WorkOrder: 1310829
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-3	1310829-001A	Soil Gas	10/24/2013 11:41	GC24	83426

Initial Pressure (psia)	Final Pressure (psia)
12.06	24.02

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/26/2013 03:31
Xylenes, Total	ND	6.6	1	10/26/2013 03:31

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	89	70-130	10/26/2013 03:31
Toluene-d8	86	70-130	10/26/2013 03:31
4-BFB	86	70-130	10/26/2013 03:31

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1310829-002A	Soil Gas	10/24/2013 12:03	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

12.61	25.13
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Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	10/26/2013 04:14
Acrolein	ND	0.23	1	10/26/2013 04:14
Acrylonitrile	ND	1.1	1	10/26/2013 04:14
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/26/2013 04:14
Benzene	ND	1.6	1	10/26/2013 04:14
Benzyl chloride	ND	2.6	1	10/26/2013 04:14
Bromodichloromethane	ND	3.5	1	10/26/2013 04:14
Bromoform	ND	5.2	1	10/26/2013 04:14
Bromomethane	ND	2.0	1	10/26/2013 04:14
1,3-Butadiene	ND	1.1	1	10/26/2013 04:14
2-Butanone (MEK)	ND	75	1	10/26/2013 04:14
t-Butyl alcohol (TBA)	ND	31	1	10/26/2013 04:14
Carbon Disulfide	ND	1.6	1	10/26/2013 04:14
Carbon Tetrachloride	ND	3.2	1	10/26/2013 04:14
Chlorobenzene	ND	2.4	1	10/26/2013 04:14
Chloroethane	ND	1.3	1	10/26/2013 04:14
Chloroform	ND	2.4	1	10/26/2013 04:14
Chloromethane	ND	1.0	1	10/26/2013 04:14
Cyclohexane	ND	18	1	10/26/2013 04:14
Dibromochloromethane	ND	4.4	1	10/26/2013 04:14
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/26/2013 04:14
1,2-Dibromoethane (EDB)	ND	3.9	1	10/26/2013 04:14
1,2-Dichlorobenzene	ND	3.0	1	10/26/2013 04:14
1,3-Dichlorobenzene	ND	3.0	1	10/26/2013 04:14
1,4-Dichlorobenzene	ND	3.0	1	10/26/2013 04:14
Dichlorodifluoromethane	2.5	2.5	1	10/26/2013 04:14
1,1-Dichloroethane	ND	2.0	1	10/26/2013 04:14
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	10/26/2013 04:14
1,1-Dichloroethene	ND	2.0	1	10/26/2013 04:14
cis-1,2-Dichloroethene	ND	2.0	1	10/26/2013 04:14
trans-1,2-Dichloroethene	ND	2.0	1	10/26/2013 04:14
1,2-Dichloropropane	ND	2.4	1	10/26/2013 04:14
cis-1,3-Dichloropropene	ND	2.3	1	10/26/2013 04:14
trans-1,3-Dichloropropene	ND	2.3	1	10/26/2013 04:14

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1310829-002A	Soil Gas	10/24/2013 12:03	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

12.61	25.13
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Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/26/2013 04:14
Diisopropyl ether (DIPE)	ND	2.1	1	10/26/2013 04:14
1,4-Dioxane	ND	1.8	1	10/26/2013 04:14
Ethanol	ND	96	1	10/26/2013 04:14
Ethyl acetate	ND	1.8	1	10/26/2013 04:14
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/26/2013 04:14
Ethylbenzene	ND	2.2	1	10/26/2013 04:14
4-Ethyltoluene	ND	2.5	1	10/26/2013 04:14
Freon 113	ND	3.9	1	10/26/2013 04:14
Heptane	ND	21	1	10/26/2013 04:14
Hexachlorobutadiene	ND	5.4	1	10/26/2013 04:14
Hexane	ND	18	1	10/26/2013 04:14
2-Hexanone	ND	2.1	1	10/26/2013 04:14
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	10/26/2013 04:14
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/26/2013 04:14
Methylene chloride	ND	1.8	1	10/26/2013 04:14
Methyl methacrylate	ND	0.42	1	10/26/2013 04:14
Naphthalene	ND	5.3	1	10/26/2013 04:14
Propene	ND	88	1	10/26/2013 04:14
Styrene	ND	2.2	1	10/26/2013 04:14
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/26/2013 04:14
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/26/2013 04:14
Tetrachloroethene	500	3.4	1	10/26/2013 04:14
Tetrahydrofuran	2.1	1.5	1	10/26/2013 04:14
Toluene	ND	1.9	1	10/26/2013 04:14
TPH(g)	ND	720	1	10/28/2013 21:55
1,2,4-Trichlorobenzene	ND	3.8	1	10/26/2013 04:14
1,1,1-Trichloroethane	8.2	2.8	1	10/26/2013 04:14
1,1,2-Trichloroethane	ND	2.8	1	10/26/2013 04:14
Trichloroethene	ND	2.8	1	10/26/2013 04:14
Trichlorofluoromethane	ND	2.8	1	10/26/2013 04:14
1,2,4-Trimethylbenzene	ND	2.5	1	10/26/2013 04:14
1,3,5-Trimethylbenzene	ND	2.5	1	10/26/2013 04:14
Vinyl Acetate	ND	1.8	1	10/26/2013 04:14

(Cont.)



Analytical Report

Client: AEI Consultants	WorkOrder: 1310829
Project: #298931; FSI	Extraction Method: TO15
Date Received: 10/24/13 20:18	Analytical Method: TO15
Date Prepared: 10/26/13-10/30/13	Unit: µg/m ³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1310829-002A	Soil Gas	10/24/2013 12:03	GC24	83426

Initial Pressure (psia)	Final Pressure (psia)
12.61	25.13

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/26/2013 04:14
Xylenes, Total	ND	6.6	1	10/26/2013 04:14

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	90	70-130	10/26/2013 04:14
Toluene-d8	89	70-130	10/26/2013 04:14
4-BFB	87	70-130	10/26/2013 04:14

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-6	1310829-003A	Soil Gas	10/24/2013 11:19	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

14.05	28.00
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Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	10/26/2013 04:58
Acrolein	ND	0.23	1	10/26/2013 04:58
Acrylonitrile	ND	1.1	1	10/26/2013 04:58
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/26/2013 04:58
Benzene	ND	1.6	1	10/26/2013 04:58
Benzyl chloride	ND	2.6	1	10/26/2013 04:58
Bromodichloromethane	ND	3.5	1	10/26/2013 04:58
Bromoform	ND	5.2	1	10/26/2013 04:58
Bromomethane	ND	2.0	1	10/26/2013 04:58
1,3-Butadiene	ND	1.1	1	10/26/2013 04:58
2-Butanone (MEK)	ND	75	1	10/26/2013 04:58
t-Butyl alcohol (TBA)	ND	31	1	10/26/2013 04:58
Carbon Disulfide	ND	1.6	1	10/26/2013 04:58
Carbon Tetrachloride	ND	3.2	1	10/26/2013 04:58
Chlorobenzene	ND	2.4	1	10/26/2013 04:58
Chloroethane	ND	1.3	1	10/26/2013 04:58
Chloroform	ND	2.4	1	10/26/2013 04:58
Chloromethane	ND	1.0	1	10/26/2013 04:58
Cyclohexane	ND	18	1	10/26/2013 04:58
Dibromochloromethane	ND	4.4	1	10/26/2013 04:58
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/26/2013 04:58
1,2-Dibromoethane (EDB)	ND	3.9	1	10/26/2013 04:58
1,2-Dichlorobenzene	ND	3.0	1	10/26/2013 04:58
1,3-Dichlorobenzene	ND	3.0	1	10/26/2013 04:58
1,4-Dichlorobenzene	ND	3.0	1	10/26/2013 04:58
Dichlorodifluoromethane	ND	2.5	1	10/26/2013 04:58
1,1-Dichloroethane	ND	2.0	1	10/26/2013 04:58
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	10/26/2013 04:58
1,1-Dichloroethene	ND	2.0	1	10/26/2013 04:58
cis-1,2-Dichloroethene	ND	2.0	1	10/26/2013 04:58
trans-1,2-Dichloroethene	ND	2.0	1	10/26/2013 04:58
1,2-Dichloropropane	ND	2.4	1	10/26/2013 04:58
cis-1,3-Dichloropropene	ND	2.3	1	10/26/2013 04:58
trans-1,3-Dichloropropene	ND	2.3	1	10/26/2013 04:58

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/26/13-10/30/13

WorkOrder: 1310829
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-6	1310829-003A	Soil Gas	10/24/2013 11:19	GC24	83426

Initial Pressure (psia)	Final Pressure (psia)
14.05	28.00

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/26/2013 04:58
Diisopropyl ether (DIPE)	ND	2.1	1	10/26/2013 04:58
1,4-Dioxane	ND	1.8	1	10/26/2013 04:58
Ethanol	ND	96	1	10/26/2013 04:58
Ethyl acetate	6.5	1.8	1	10/26/2013 04:58
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/26/2013 04:58
Ethylbenzene	ND	2.2	1	10/26/2013 04:58
4-Ethyltoluene	ND	2.5	1	10/26/2013 04:58
Freon 113	ND	3.9	1	10/26/2013 04:58
Heptane	ND	21	1	10/26/2013 04:58
Hexachlorobutadiene	ND	5.4	1	10/26/2013 04:58
Hexane	ND	18	1	10/26/2013 04:58
2-Hexanone	6.5	2.1	1	10/26/2013 04:58
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	10/26/2013 04:58
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/26/2013 04:58
Methylene chloride	ND	1.8	1	10/26/2013 04:58
Methyl methacrylate	ND	0.42	1	10/26/2013 04:58
Naphthalene	ND	5.3	1	10/26/2013 04:58
Propene	ND	88	1	10/26/2013 04:58
Styrene	ND	2.2	1	10/26/2013 04:58
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/26/2013 04:58
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/26/2013 04:58
Tetrachloroethene	46	3.4	1	10/26/2013 04:58
Tetrahydrofuran	5.3	1.5	1	10/26/2013 04:58
Toluene	ND	1.9	1	10/26/2013 04:58
TPH(g)	880	720	1	10/28/2013 20:29
1,2,4-Trichlorobenzene	ND	3.8	1	10/26/2013 04:58
1,1,1-Trichloroethane	ND	2.8	1	10/26/2013 04:58
1,1,2-Trichloroethane	ND	2.8	1	10/26/2013 04:58
Trichloroethene	29	2.8	1	10/26/2013 04:58
Trichlorofluoromethane	ND	2.8	1	10/26/2013 04:58
1,2,4-Trimethylbenzene	ND	2.5	1	10/26/2013 04:58
1,3,5-Trimethylbenzene	ND	2.5	1	10/26/2013 04:58
Vinyl Acetate	ND	1.8	1	10/26/2013 04:58

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-6	1310829-003A	Soil Gas	10/24/2013 11:19	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

14.05	28.00
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Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/26/2013 04:58
Xylenes, Total	ND	6.6	1	10/26/2013 04:58

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	88	70-130	10/26/2013 04:58
Toluene-d8	87	70-130	10/26/2013 04:58
4-BFB	88	70-130	10/26/2013 04:58

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-7	1310829-004A	Soil Gas	10/24/2013 10:28	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

12.98	25.88
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Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	10/26/2013 05:41
Acrolein	ND	0.23	1	10/26/2013 05:41
Acrylonitrile	ND	1.1	1	10/26/2013 05:41
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/26/2013 05:41
Benzene	ND	1.6	1	10/26/2013 05:41
Benzyl chloride	ND	2.6	1	10/26/2013 05:41
Bromodichloromethane	ND	3.5	1	10/26/2013 05:41
Bromoform	ND	5.2	1	10/26/2013 05:41
Bromomethane	ND	2.0	1	10/26/2013 05:41
1,3-Butadiene	ND	1.1	1	10/26/2013 05:41
2-Butanone (MEK)	ND	75	1	10/26/2013 05:41
t-Butyl alcohol (TBA)	ND	31	1	10/26/2013 05:41
Carbon Disulfide	ND	1.6	1	10/26/2013 05:41
Carbon Tetrachloride	ND	3.2	1	10/26/2013 05:41
Chlorobenzene	ND	2.4	1	10/26/2013 05:41
Chloroethane	ND	1.3	1	10/26/2013 05:41
Chloroform	ND	2.4	1	10/26/2013 05:41
Chloromethane	ND	1.0	1	10/26/2013 05:41
Cyclohexane	ND	18	1	10/26/2013 05:41
Dibromochloromethane	ND	4.4	1	10/26/2013 05:41
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/26/2013 05:41
1,2-Dibromoethane (EDB)	ND	3.9	1	10/26/2013 05:41
1,2-Dichlorobenzene	ND	3.0	1	10/26/2013 05:41
1,3-Dichlorobenzene	ND	3.0	1	10/26/2013 05:41
1,4-Dichlorobenzene	ND	3.0	1	10/26/2013 05:41
Dichlorodifluoromethane	ND	2.5	1	10/26/2013 05:41
1,1-Dichloroethane	ND	2.0	1	10/26/2013 05:41
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	10/26/2013 05:41
1,1-Dichloroethene	ND	2.0	1	10/26/2013 05:41
cis-1,2-Dichloroethene	ND	2.0	1	10/26/2013 05:41
trans-1,2-Dichloroethene	ND	2.0	1	10/26/2013 05:41
1,2-Dichloropropane	ND	2.4	1	10/26/2013 05:41
cis-1,3-Dichloropropene	ND	2.3	1	10/26/2013 05:41
trans-1,3-Dichloropropene	ND	2.3	1	10/26/2013 05:41

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/26/13-10/30/13

WorkOrder: 1310829
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-7	1310829-004A	Soil Gas	10/24/2013 10:28	GC24	83426

Initial Pressure (psia)	Final Pressure (psia)
12.98	25.88

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/26/2013 05:41
Diisopropyl ether (DIPE)	ND	2.1	1	10/26/2013 05:41
1,4-Dioxane	ND	1.8	1	10/26/2013 05:41
Ethanol	ND	96	1	10/26/2013 05:41
Ethyl acetate	2.3	1.8	1	10/26/2013 05:41
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/26/2013 05:41
Ethylbenzene	ND	2.2	1	10/26/2013 05:41
4-Ethyltoluene	ND	2.5	1	10/26/2013 05:41
Freon 113	ND	3.9	1	10/26/2013 05:41
Heptane	ND	21	1	10/26/2013 05:41
Hexachlorobutadiene	ND	5.4	1	10/26/2013 05:41
Hexane	ND	18	1	10/26/2013 05:41
2-Hexanone	ND	2.1	1	10/26/2013 05:41
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	10/26/2013 05:41
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/26/2013 05:41
Methylene chloride	ND	1.8	1	10/26/2013 05:41
Methyl methacrylate	ND	0.42	1	10/26/2013 05:41
Naphthalene	ND	5.3	1	10/26/2013 05:41
Propene	ND	88	1	10/26/2013 05:41
Styrene	ND	2.2	1	10/26/2013 05:41
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/26/2013 05:41
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/26/2013 05:41
Tetrachloroethene	ND	3.4	1	10/26/2013 05:41
Tetrahydrofuran	16	1.5	1	10/26/2013 05:41
Toluene	ND	1.9	1	10/26/2013 05:41
TPH(g)	ND	720	1	10/28/2013 17:39
1,2,4-Trichlorobenzene	ND	3.8	1	10/26/2013 05:41
1,1,1-Trichloroethane	ND	2.8	1	10/26/2013 05:41
1,1,2-Trichloroethane	ND	2.8	1	10/26/2013 05:41
Trichloroethene	ND	2.8	1	10/26/2013 05:41
Trichlorofluoromethane	ND	2.8	1	10/26/2013 05:41
1,2,4-Trimethylbenzene	ND	2.5	1	10/26/2013 05:41
1,3,5-Trimethylbenzene	ND	2.5	1	10/26/2013 05:41
Vinyl Acetate	ND	1.8	1	10/26/2013 05:41

(Cont.)



Analytical Report

Client: AEI Consultants **WorkOrder:** 1310829
Project: #298931; FSI **Extraction Method:** TO15
Date Received: 10/24/13 20:18 **Analytical Method:** TO15
Date Prepared: 10/26/13-10/30/13 **Unit:** µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-7	1310829-004A	Soil Gas	10/24/2013 10:28	GC24	83426

Initial Pressure (psia)	Final Pressure (psia)
12.98	25.88

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/26/2013 05:41
Xylenes, Total	ND	6.6	1	10/26/2013 05:41

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	87	70-130	10/26/2013 05:41
Toluene-d8	86	70-130	10/26/2013 05:41
4-BFB	85	70-130	10/26/2013 05:41

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-8	1310829-005A	Soil Gas	10/24/2013 09:06	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

12.28	24.46
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Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	10/26/2013 06:25
Acrolein	ND	0.23	1	10/26/2013 06:25
Acrylonitrile	ND	1.1	1	10/26/2013 06:25
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/26/2013 06:25
Benzene	ND	1.6	1	10/26/2013 06:25
Benzyl chloride	ND	2.6	1	10/26/2013 06:25
Bromodichloromethane	ND	3.5	1	10/26/2013 06:25
Bromoform	ND	5.2	1	10/26/2013 06:25
Bromomethane	ND	2.0	1	10/26/2013 06:25
1,3-Butadiene	ND	1.1	1	10/26/2013 06:25
2-Butanone (MEK)	ND	75	1	10/26/2013 06:25
t-Butyl alcohol (TBA)	ND	31	1	10/26/2013 06:25
Carbon Disulfide	ND	1.6	1	10/26/2013 06:25
Carbon Tetrachloride	ND	3.2	1	10/26/2013 06:25
Chlorobenzene	ND	2.4	1	10/26/2013 06:25
Chloroethane	ND	1.3	1	10/26/2013 06:25
Chloroform	ND	2.4	1	10/26/2013 06:25
Chloromethane	ND	1.0	1	10/26/2013 06:25
Cyclohexane	ND	18	1	10/26/2013 06:25
Dibromochloromethane	ND	4.4	1	10/26/2013 06:25
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/26/2013 06:25
1,2-Dibromoethane (EDB)	ND	3.9	1	10/26/2013 06:25
1,2-Dichlorobenzene	ND	3.0	1	10/26/2013 06:25
1,3-Dichlorobenzene	ND	3.0	1	10/26/2013 06:25
1,4-Dichlorobenzene	ND	3.0	1	10/26/2013 06:25
Dichlorodifluoromethane	ND	2.5	1	10/26/2013 06:25
1,1-Dichloroethane	ND	2.0	1	10/26/2013 06:25
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	10/26/2013 06:25
1,1-Dichloroethene	ND	2.0	1	10/26/2013 06:25
cis-1,2-Dichloroethene	ND	2.0	1	10/26/2013 06:25
trans-1,2-Dichloroethene	ND	2.0	1	10/26/2013 06:25
1,2-Dichloropropane	ND	2.4	1	10/26/2013 06:25
cis-1,3-Dichloropropene	ND	2.3	1	10/26/2013 06:25
trans-1,3-Dichloropropene	ND	2.3	1	10/26/2013 06:25

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/26/13-10/30/13

WorkOrder: 1310829
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-8	1310829-005A	Soil Gas	10/24/2013 09:06	GC24	83426

Initial Pressure (psia)	Final Pressure (psia)
12.28	24.46

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/26/2013 06:25
Diisopropyl ether (DIPE)	ND	2.1	1	10/26/2013 06:25
1,4-Dioxane	ND	1.8	1	10/26/2013 06:25
Ethanol	ND	96	1	10/26/2013 06:25
Ethyl acetate	ND	1.8	1	10/26/2013 06:25
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/26/2013 06:25
Ethylbenzene	ND	2.2	1	10/26/2013 06:25
4-Ethyltoluene	ND	2.5	1	10/26/2013 06:25
Freon 113	ND	3.9	1	10/26/2013 06:25
Heptane	ND	21	1	10/26/2013 06:25
Hexachlorobutadiene	ND	5.4	1	10/26/2013 06:25
Hexane	ND	18	1	10/26/2013 06:25
2-Hexanone	ND	2.1	1	10/26/2013 06:25
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	10/26/2013 06:25
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/26/2013 06:25
Methylene chloride	ND	1.8	1	10/26/2013 06:25
Methyl methacrylate	ND	0.42	1	10/26/2013 06:25
Naphthalene	ND	5.3	1	10/26/2013 06:25
Propene	ND	88	1	10/26/2013 06:25
Styrene	ND	2.2	1	10/26/2013 06:25
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/26/2013 06:25
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/26/2013 06:25
Tetrachloroethene	5.2	3.4	1	10/26/2013 06:25
Tetrahydrofuran	ND	1.5	1	10/26/2013 06:25
Toluene	ND	1.9	1	10/26/2013 06:25
TPH(g)	ND	720	1	10/28/2013 18:20
1,2,4-Trichlorobenzene	ND	3.8	1	10/26/2013 06:25
1,1,1-Trichloroethane	ND	2.8	1	10/26/2013 06:25
1,1,2-Trichloroethane	ND	2.8	1	10/26/2013 06:25
Trichloroethene	ND	2.8	1	10/26/2013 06:25
Trichlorofluoromethane	ND	2.8	1	10/26/2013 06:25
1,2,4-Trimethylbenzene	ND	2.5	1	10/26/2013 06:25
1,3,5-Trimethylbenzene	ND	2.5	1	10/26/2013 06:25
Vinyl Acetate	ND	1.8	1	10/26/2013 06:25

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-8	1310829-005A	Soil Gas	10/24/2013 09:06	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

12.28	24.46
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Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/26/2013 06:25
Xylenes, Total	ND	6.6	1	10/26/2013 06:25

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	90	70-130	10/26/2013 06:25
Toluene-d8	88	70-130	10/26/2013 06:25
4-BFB	84	70-130	10/26/2013 06:25

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-9	1310829-006A	Soil Gas	10/24/2013 10:13	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

13.78	27.46
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Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	10/26/2013 07:07
Acrolein	ND	0.23	1	10/26/2013 07:07
Acrylonitrile	ND	1.1	1	10/26/2013 07:07
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/26/2013 07:07
Benzene	ND	1.6	1	10/26/2013 07:07
Benzyl chloride	ND	2.6	1	10/26/2013 07:07
Bromodichloromethane	ND	3.5	1	10/26/2013 07:07
Bromoform	ND	5.2	1	10/26/2013 07:07
Bromomethane	ND	2.0	1	10/26/2013 07:07
1,3-Butadiene	ND	1.1	1	10/26/2013 07:07
2-Butanone (MEK)	ND	75	1	10/26/2013 07:07
t-Butyl alcohol (TBA)	ND	31	1	10/26/2013 07:07
Carbon Disulfide	ND	1.6	1	10/26/2013 07:07
Carbon Tetrachloride	ND	3.2	1	10/26/2013 07:07
Chlorobenzene	ND	2.4	1	10/26/2013 07:07
Chloroethane	ND	1.3	1	10/26/2013 07:07
Chloroform	ND	2.4	1	10/26/2013 07:07
Chloromethane	ND	1.0	1	10/26/2013 07:07
Cyclohexane	ND	18	1	10/26/2013 07:07
Dibromochloromethane	ND	4.4	1	10/26/2013 07:07
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/26/2013 07:07
1,2-Dibromoethane (EDB)	ND	3.9	1	10/26/2013 07:07
1,2-Dichlorobenzene	ND	3.0	1	10/26/2013 07:07
1,3-Dichlorobenzene	ND	3.0	1	10/26/2013 07:07
1,4-Dichlorobenzene	ND	3.0	1	10/26/2013 07:07
Dichlorodifluoromethane	ND	2.5	1	10/26/2013 07:07
1,1-Dichloroethane	ND	2.0	1	10/26/2013 07:07
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	10/26/2013 07:07
1,1-Dichloroethene	ND	2.0	1	10/26/2013 07:07
cis-1,2-Dichloroethene	ND	2.0	1	10/26/2013 07:07
trans-1,2-Dichloroethene	ND	2.0	1	10/26/2013 07:07
1,2-Dichloropropane	ND	2.4	1	10/26/2013 07:07
cis-1,3-Dichloropropene	ND	2.3	1	10/26/2013 07:07
trans-1,3-Dichloropropene	ND	2.3	1	10/26/2013 07:07

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-9	1310829-006A	Soil Gas	10/24/2013 10:13	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

13.78	27.46
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Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/26/2013 07:07
Diisopropyl ether (DIPE)	ND	2.1	1	10/26/2013 07:07
1,4-Dioxane	ND	1.8	1	10/26/2013 07:07
Ethanol	ND	96	1	10/26/2013 07:07
Ethyl acetate	ND	1.8	1	10/26/2013 07:07
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/26/2013 07:07
Ethylbenzene	ND	2.2	1	10/26/2013 07:07
4-Ethyltoluene	ND	2.5	1	10/26/2013 07:07
Freon 113	ND	3.9	1	10/26/2013 07:07
Heptane	ND	21	1	10/26/2013 07:07
Hexachlorobutadiene	ND	5.4	1	10/26/2013 07:07
Hexane	ND	18	1	10/26/2013 07:07
2-Hexanone	ND	2.1	1	10/26/2013 07:07
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	10/26/2013 07:07
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/26/2013 07:07
Methylene chloride	ND	1.8	1	10/26/2013 07:07
Methyl methacrylate	ND	0.42	1	10/26/2013 07:07
Naphthalene	ND	5.3	1	10/26/2013 07:07
Propene	ND	88	1	10/26/2013 07:07
Styrene	ND	2.2	1	10/26/2013 07:07
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/26/2013 07:07
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/26/2013 07:07
Tetrachloroethene	5.4	3.4	1	10/26/2013 07:07
Tetrahydrofuran	ND	1.5	1	10/26/2013 07:07
Toluene	ND	1.9	1	10/26/2013 07:07
TPH(g)	ND	720	1	10/28/2013 19:03
1,2,4-Trichlorobenzene	ND	3.8	1	10/26/2013 07:07
1,1,1-Trichloroethane	ND	2.8	1	10/26/2013 07:07
1,1,2-Trichloroethane	ND	2.8	1	10/26/2013 07:07
Trichloroethene	ND	2.8	1	10/26/2013 07:07
Trichlorofluoromethane	ND	2.8	1	10/26/2013 07:07
1,2,4-Trimethylbenzene	ND	2.5	1	10/26/2013 07:07
1,3,5-Trimethylbenzene	ND	2.5	1	10/26/2013 07:07
Vinyl Acetate	ND	1.8	1	10/26/2013 07:07

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-9	1310829-006A	Soil Gas	10/24/2013 10:13	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

13.78	27.46
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Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/26/2013 07:07
Xylenes, Total	ND	6.6	1	10/26/2013 07:07

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	91	70-130	10/26/2013 07:07
Toluene-d8	88	70-130	10/26/2013 07:07
4-BFB	86	70-130	10/26/2013 07:07

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-12	1310829-007A	Soil Gas	10/24/2013 11:12	GC24	83426

Initial Pressure (psia)

Final Pressure (psia)

13.69	27.28
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Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	10/26/2013 07:53
Acrolein	ND	3.0	1	10/26/2013 07:53
Acrylonitrile	ND	1.1	1	10/26/2013 07:53
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/26/2013 07:53
Benzene	ND	1.6	1	10/26/2013 07:53
Benzyl chloride	ND	2.6	1	10/26/2013 07:53
Bromodichloromethane	ND	3.5	1	10/26/2013 07:53
Bromoform	ND	5.2	1	10/26/2013 07:53
Bromomethane	ND	2.0	1	10/26/2013 07:53
1,3-Butadiene	ND	1.1	1	10/26/2013 07:53
2-Butanone (MEK)	ND	75	1	10/26/2013 07:53
t-Butyl alcohol (TBA)	ND	31	1	10/26/2013 07:53
Carbon Disulfide	2.5	1.6	1	10/26/2013 07:53
Carbon Tetrachloride	ND	3.2	1	10/26/2013 07:53
Chlorobenzene	ND	2.4	1	10/26/2013 07:53
Chloroethane	ND	1.3	1	10/26/2013 07:53
Chloroform	ND	2.4	1	10/26/2013 07:53
Chloromethane	ND	1.0	1	10/26/2013 07:53
Cyclohexane	ND	18	1	10/26/2013 07:53
Dibromochloromethane	ND	4.4	1	10/26/2013 07:53
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/26/2013 07:53
1,2-Dibromoethane (EDB)	ND	3.9	1	10/26/2013 07:53
1,2-Dichlorobenzene	ND	3.0	1	10/26/2013 07:53
1,3-Dichlorobenzene	ND	3.0	1	10/26/2013 07:53
1,4-Dichlorobenzene	ND	3.0	1	10/26/2013 07:53
Dichlorodifluoromethane	2.5	2.5	1	10/26/2013 07:53
1,1-Dichloroethane	ND	2.0	1	10/26/2013 07:53
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	10/26/2013 07:53
1,1-Dichloroethene	ND	2.0	1	10/26/2013 07:53
cis-1,2-Dichloroethene	ND	2.0	1	10/26/2013 07:53
trans-1,2-Dichloroethene	ND	2.0	1	10/26/2013 07:53
1,2-Dichloropropane	ND	2.4	1	10/26/2013 07:53
cis-1,3-Dichloropropene	ND	2.3	1	10/26/2013 07:53
trans-1,3-Dichloropropene	ND	2.3	1	10/26/2013 07:53

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/26/13-10/30/13

WorkOrder: 1310829
Extraction Method TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-12	1310829-007A	Soil Gas	10/24/2013 11:12	GC24	83426

Initial Pressure (psia)	Final Pressure (psia)
13.69	27.28

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/26/2013 07:53
Diisopropyl ether (DIPE)	ND	2.1	1	10/26/2013 07:53
1,4-Dioxane	ND	1.8	1	10/26/2013 07:53
Ethanol	ND	96	1	10/26/2013 07:53
Ethyl acetate	ND	1.8	1	10/26/2013 07:53
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/26/2013 07:53
Ethylbenzene	ND	2.2	1	10/26/2013 07:53
4-Ethyltoluene	ND	2.5	1	10/26/2013 07:53
Freon 113	ND	3.9	1	10/26/2013 07:53
Heptane	ND	21	1	10/26/2013 07:53
Hexachlorobutadiene	ND	5.4	1	10/26/2013 07:53
Hexane	ND	18	1	10/26/2013 07:53
2-Hexanone	ND	2.1	1	10/26/2013 07:53
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	10/26/2013 07:53
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/26/2013 07:53
Methylene chloride	ND	1.8	1	10/26/2013 07:53
Methyl methacrylate	ND	0.42	1	10/26/2013 07:53
Naphthalene	ND	5.3	1	10/26/2013 07:53
Propene	ND	88	1	10/26/2013 07:53
Styrene	ND	2.2	1	10/26/2013 07:53
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/26/2013 07:53
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/26/2013 07:53
Tetrachloroethene	40	3.4	1	10/26/2013 07:53
Tetrahydrofuran	ND	1.5	1	10/26/2013 07:53
Toluene	ND	1.9	1	10/26/2013 07:53
TPH(g)	ND	720	1	10/28/2013 19:46
1,2,4-Trichlorobenzene	ND	3.8	1	10/26/2013 07:53
1,1,1-Trichloroethane	ND	2.8	1	10/26/2013 07:53
1,1,2-Trichloroethane	ND	2.8	1	10/26/2013 07:53
Trichloroethene	ND	2.8	1	10/26/2013 07:53
Trichlorofluoromethane	ND	2.8	1	10/26/2013 07:53
1,2,4-Trimethylbenzene	ND	2.5	1	10/26/2013 07:53
1,3,5-Trimethylbenzene	ND	2.5	1	10/26/2013 07:53
Vinyl Acetate	ND	1.8	1	10/26/2013 07:53

(Cont.)



Analytical Report

Client: AEI Consultants **WorkOrder:** 1310829
Project: #298931; FSI **Extraction Method:** TO15
Date Received: 10/24/13 20:18 **Analytical Method:** TO15
Date Prepared: 10/26/13-10/30/13 **Unit:** µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-12	1310829-007A	Soil Gas	10/24/2013 11:12	GC24	83426

Initial Pressure (psia)	Final Pressure (psia)
13.69	27.28

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/26/2013 07:53
Xylenes, Total	ND	6.6	1	10/26/2013 07:53

Surrogates	REC (%)	Limits	Analytical Comments: j1
1,2-DCA-d4	89	70-130	10/26/2013 07:53
Toluene-d8	85	70-130	10/26/2013 07:53
4-BFB	85	70-130	10/26/2013 07:53

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13	1310829-008A	Soil Gas	10/24/2013 13:15	GC24	83427

Initial Pressure (psia)

Final Pressure (psia)

13.13	26.16
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Analytes	Result	RL	DF	Date Analyzed
Acetone	100	60	1	10/30/2013 20:44
Acrolein	ND	0.23	1	10/30/2013 20:44
Acrylonitrile	ND	1.1	1	10/30/2013 20:44
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/30/2013 20:44
Benzene	190	1.6	1	10/30/2013 20:44
Benzyl chloride	ND	2.6	1	10/30/2013 20:44
Bromodichloromethane	ND	3.5	1	10/30/2013 20:44
Bromoform	ND	5.2	1	10/30/2013 20:44
Bromomethane	9.5	2.0	1	10/30/2013 20:44
1,3-Butadiene	ND	1.1	1	10/30/2013 20:44
2-Butanone (MEK)	ND	75	1	10/30/2013 20:44
t-Butyl alcohol (TBA)	ND	31	1	10/30/2013 20:44
Carbon Disulfide	14	1.6	1	10/30/2013 20:44
Carbon Tetrachloride	ND	3.2	1	10/30/2013 20:44
Chlorobenzene	ND	2.4	1	10/30/2013 20:44
Chloroethane	ND	1.3	1	10/30/2013 20:44
Chloroform	ND	2.4	1	10/30/2013 20:44
Chloromethane	ND	1.0	1	10/30/2013 20:44
Cyclohexane	110	18	1	10/30/2013 20:44
Dibromochloromethane	ND	4.4	1	10/30/2013 20:44
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/30/2013 20:44
1,2-Dibromoethane (EDB)	ND	3.9	1	10/30/2013 20:44
1,2-Dichlorobenzene	ND	3.0	1	10/30/2013 20:44
1,3-Dichlorobenzene	ND	3.0	1	10/30/2013 20:44
1,4-Dichlorobenzene	ND	3.0	1	10/30/2013 20:44
Dichlorodifluoromethane	ND	2.5	1	10/30/2013 20:44
1,1-Dichloroethane	ND	2.0	1	10/30/2013 20:44
1,2-Dichloroethane (1,2-DCA)	4.0	2.0	1	10/30/2013 20:44
1,1-Dichloroethene	ND	2.0	1	10/30/2013 20:44
cis-1,2-Dichloroethene	ND	2.0	1	10/30/2013 20:44
trans-1,2-Dichloroethene	ND	2.0	1	10/30/2013 20:44
1,2-Dichloropropane	ND	2.4	1	10/30/2013 20:44
cis-1,3-Dichloropropene	ND	2.3	1	10/30/2013 20:44
trans-1,3-Dichloropropene	ND	2.3	1	10/30/2013 20:44

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13	1310829-008A	Soil Gas	10/24/2013 13:15	GC24	83427

Initial Pressure (psia)

Final Pressure (psia)

13.13 **26.16**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/30/2013 20:44
Diisopropyl ether (DIPE)	ND	2.1	1	10/30/2013 20:44
1,4-Dioxane	ND	1.8	1	10/30/2013 20:44
Ethanol	ND	96	1	10/30/2013 20:44
Ethyl acetate	4.2	1.8	1	10/30/2013 20:44
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/30/2013 20:44
Ethylbenzene	37	2.2	1	10/30/2013 20:44
4-Ethyltoluene	30	2.5	1	10/30/2013 20:44
Freon 113	ND	3.9	1	10/30/2013 20:44
Heptane	57	21	1	10/30/2013 20:44
Hexachlorobutadiene	ND	5.4	1	10/30/2013 20:44
Hexane	69	18	1	10/30/2013 20:44
2-Hexanone	ND	2.1	1	10/30/2013 20:44
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	10/30/2013 20:44
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/30/2013 20:44
Methylene chloride	3.5	1.8	1	10/30/2013 20:44
Methyl methacrylate	ND	0.42	1	10/30/2013 20:44
Naphthalene	ND	5.3	1	10/30/2013 20:44
Propene	ND	88	1	10/30/2013 20:44
Styrene	ND	2.2	1	10/30/2013 20:44
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/30/2013 20:44
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/30/2013 20:44
Tetrachloroethene	390	3.4	1	10/30/2013 20:44
Tetrahydrofuran	ND	1.5	1	10/30/2013 20:44
Toluene	220	1.9	1	10/30/2013 20:44
TPH(g)	9000	720	1	10/29/2013 02:34
1,2,4-Trichlorobenzene	ND	3.8	1	10/30/2013 20:44
1,1,1-Trichloroethane	4.2	2.8	1	10/30/2013 20:44
1,1,2-Trichloroethane	ND	2.8	1	10/30/2013 20:44
Trichloroethene	5.3	2.8	1	10/30/2013 20:44
Trichlorofluoromethane	ND	2.8	1	10/30/2013 20:44
1,2,4-Trimethylbenzene	87	2.5	1	10/30/2013 20:44
1,3,5-Trimethylbenzene	69	2.5	1	10/30/2013 20:44
Vinyl Acetate	ND	1.8	1	10/30/2013 20:44

(Cont.)



Analytical Report

Client: AEI Consultants **WorkOrder:** 1310829
Project: #298931; FSI **Extraction Method:** TO15
Date Received: 10/24/13 20:18 **Analytical Method:** TO15
Date Prepared: 10/26/13-10/30/13 **Unit:** µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13	1310829-008A	Soil Gas	10/24/2013 13:15	GC24	83427

Initial Pressure (psia)	Final Pressure (psia)
13.13	26.16

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/30/2013 20:44
Xylenes, Total	390	6.6	1	10/30/2013 20:44

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	94	70-130	10/30/2013 20:44
Toluene-d8	93	70-130	10/30/2013 20:44
4-BFB	91	70-130	10/30/2013 20:44

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-14	1310829-009A	Soil Gas	10/24/2013 14:19	GC24	83427

Initial Pressure (psia)

Final Pressure (psia)

13.48	26.89
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Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	10/30/2013 21:27
Acrolein	ND	0.23	1	10/30/2013 21:27
Acrylonitrile	ND	1.1	1	10/30/2013 21:27
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/30/2013 21:27
Benzene	30	1.6	1	10/30/2013 21:27
Benzyl chloride	ND	2.6	1	10/30/2013 21:27
Bromodichloromethane	ND	3.5	1	10/30/2013 21:27
Bromoform	ND	5.2	1	10/30/2013 21:27
Bromomethane	ND	2.0	1	10/30/2013 21:27
1,3-Butadiene	ND	1.1	1	10/30/2013 21:27
2-Butanone (MEK)	ND	75	1	10/30/2013 21:27
t-Butyl alcohol (TBA)	ND	31	1	10/30/2013 21:27
Carbon Disulfide	6.7	1.6	1	10/30/2013 21:27
Carbon Tetrachloride	ND	3.2	1	10/30/2013 21:27
Chlorobenzene	ND	2.4	1	10/30/2013 21:27
Chloroethane	ND	1.3	1	10/30/2013 21:27
Chloroform	3.9	2.4	1	10/30/2013 21:27
Chloromethane	ND	1.0	1	10/30/2013 21:27
Cyclohexane	93	18	1	10/30/2013 21:27
Dibromochloromethane	ND	4.4	1	10/30/2013 21:27
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/30/2013 21:27
1,2-Dibromoethane (EDB)	ND	3.9	1	10/30/2013 21:27
1,2-Dichlorobenzene	ND	3.0	1	10/30/2013 21:27
1,3-Dichlorobenzene	ND	3.0	1	10/30/2013 21:27
1,4-Dichlorobenzene	ND	3.0	1	10/30/2013 21:27
Dichlorodifluoromethane	ND	2.5	1	10/30/2013 21:27
1,1-Dichloroethane	ND	2.0	1	10/30/2013 21:27
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	10/30/2013 21:27
1,1-Dichloroethene	ND	2.0	1	10/30/2013 21:27
cis-1,2-Dichloroethene	ND	2.0	1	10/30/2013 21:27
trans-1,2-Dichloroethene	ND	2.0	1	10/30/2013 21:27
1,2-Dichloropropane	ND	2.4	1	10/30/2013 21:27
cis-1,3-Dichloropropene	ND	2.3	1	10/30/2013 21:27
trans-1,3-Dichloropropene	ND	2.3	1	10/30/2013 21:27

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/26/13-10/30/13

WorkOrder: 1310829
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-14	1310829-009A	Soil Gas	10/24/2013 14:19	GC24	83427

Initial Pressure (psia)	Final Pressure (psia)
13.48	26.89

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/30/2013 21:27
Diisopropyl ether (DIPE)	ND	2.1	1	10/30/2013 21:27
1,4-Dioxane	ND	1.8	1	10/30/2013 21:27
Ethanol	ND	96	1	10/30/2013 21:27
Ethyl acetate	ND	1.8	1	10/30/2013 21:27
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/30/2013 21:27
Ethylbenzene	9.9	2.2	1	10/30/2013 21:27
4-Ethyltoluene	9.0	2.5	1	10/30/2013 21:27
Freon 113	ND	3.9	1	10/30/2013 21:27
Heptane	ND	21	1	10/30/2013 21:27
Hexachlorobutadiene	ND	5.4	1	10/30/2013 21:27
Hexane	24	18	1	10/30/2013 21:27
2-Hexanone	ND	2.1	1	10/30/2013 21:27
4-Methyl-2-pentanone (MIBK)	4.8	2.1	1	10/30/2013 21:27
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/30/2013 21:27
Methylene chloride	ND	1.8	1	10/30/2013 21:27
Methyl methacrylate	ND	0.42	1	10/30/2013 21:27
Naphthalene	ND	5.3	1	10/30/2013 21:27
Propene	ND	88	1	10/30/2013 21:27
Styrene	3.9	2.2	1	10/30/2013 21:27
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/30/2013 21:27
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/30/2013 21:27
Tetrachloroethene	79	3.4	1	10/30/2013 21:27
Tetrahydrofuran	ND	1.5	1	10/30/2013 21:27
Toluene	38	1.9	1	10/30/2013 21:27
TPH(g)	2400	720	1	10/29/2013 03:15
1,2,4-Trichlorobenzene	ND	3.8	1	10/30/2013 21:27
1,1,1-Trichloroethane	ND	2.8	1	10/30/2013 21:27
1,1,2-Trichloroethane	ND	2.8	1	10/30/2013 21:27
Trichloroethene	ND	2.8	1	10/30/2013 21:27
Trichlorofluoromethane	ND	2.8	1	10/30/2013 21:27
1,2,4-Trimethylbenzene	4.9	2.5	1	10/30/2013 21:27
1,3,5-Trimethylbenzene	5.5	2.5	1	10/30/2013 21:27
Vinyl Acetate	ND	1.8	1	10/30/2013 21:27

(Cont.)



Analytical Report

Client: AEI Consultants **WorkOrder:** 1310829
Project: #298931; FSI **Extraction Method:** TO15
Date Received: 10/24/13 20:18 **Analytical Method:** TO15
Date Prepared: 10/26/13-10/30/13 **Unit:** µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-14	1310829-009A	Soil Gas	10/24/2013 14:19	GC24	83427

Initial Pressure (psia)	Final Pressure (psia)
13.48	26.89

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/30/2013 21:27
Xylenes, Total	32	6.6	1	10/30/2013 21:27

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	96	70-130	10/30/2013 21:27
Toluene-d8	92	70-130	10/30/2013 21:27
4-BFB	94	70-130	10/30/2013 21:27

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method: TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-15	1310829-010A	Soil Gas	10/24/2013 13:28	GC24	83427

Initial Pressure (psia)

Final Pressure (psia)

12.21	24.33
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Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	10/30/2013 22:11
Acrolein	ND	0.23	1	10/30/2013 22:11
Acrylonitrile	ND	1.1	1	10/30/2013 22:11
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/30/2013 22:11
Benzene	3.8	1.6	1	10/30/2013 22:11
Benzyl chloride	ND	2.6	1	10/30/2013 22:11
Bromodichloromethane	ND	3.5	1	10/30/2013 22:11
Bromoform	ND	5.2	1	10/30/2013 22:11
Bromomethane	ND	2.0	1	10/30/2013 22:11
1,3-Butadiene	ND	1.1	1	10/30/2013 22:11
2-Butanone (MEK)	ND	75	1	10/30/2013 22:11
t-Butyl alcohol (TBA)	ND	31	1	10/30/2013 22:11
Carbon Disulfide	2.3	1.6	1	10/30/2013 22:11
Carbon Tetrachloride	ND	3.2	1	10/30/2013 22:11
Chlorobenzene	ND	2.4	1	10/30/2013 22:11
Chloroethane	ND	1.3	1	10/30/2013 22:11
Chloroform	ND	2.4	1	10/30/2013 22:11
Chloromethane	ND	1.0	1	10/30/2013 22:11
Cyclohexane	ND	18	1	10/30/2013 22:11
Dibromochloromethane	ND	4.4	1	10/30/2013 22:11
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/30/2013 22:11
1,2-Dibromoethane (EDB)	ND	3.9	1	10/30/2013 22:11
1,2-Dichlorobenzene	ND	3.0	1	10/30/2013 22:11
1,3-Dichlorobenzene	ND	3.0	1	10/30/2013 22:11
1,4-Dichlorobenzene	ND	3.0	1	10/30/2013 22:11
Dichlorodifluoromethane	2.9	2.5	1	10/30/2013 22:11
1,1-Dichloroethane	ND	2.0	1	10/30/2013 22:11
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	10/30/2013 22:11
1,1-Dichloroethene	ND	2.0	1	10/30/2013 22:11
cis-1,2-Dichloroethene	ND	2.0	1	10/30/2013 22:11
trans-1,2-Dichloroethene	ND	2.0	1	10/30/2013 22:11
1,2-Dichloropropane	ND	2.4	1	10/30/2013 22:11
cis-1,3-Dichloropropene	ND	2.3	1	10/30/2013 22:11
trans-1,3-Dichloropropene	ND	2.3	1	10/30/2013 22:11

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/24/13 20:18
Date Prepared: 10/26/13-10/30/13

WorkOrder: 1310829
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-15	1310829-010A	Soil Gas	10/24/2013 13:28	GC24	83427

Initial Pressure (psia)	Final Pressure (psia)
12.21	24.33

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/30/2013 22:11
Diisopropyl ether (DIPE)	ND	2.1	1	10/30/2013 22:11
1,4-Dioxane	ND	1.8	1	10/30/2013 22:11
Ethanol	ND	96	1	10/30/2013 22:11
Ethyl acetate	ND	1.8	1	10/30/2013 22:11
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/30/2013 22:11
Ethylbenzene	2.4	2.2	1	10/30/2013 22:11
4-Ethyltoluene	ND	2.5	1	10/30/2013 22:11
Freon 113	ND	3.9	1	10/30/2013 22:11
Heptane	ND	21	1	10/30/2013 22:11
Hexachlorobutadiene	ND	5.4	1	10/30/2013 22:11
Hexane	ND	18	1	10/30/2013 22:11
2-Hexanone	ND	2.1	1	10/30/2013 22:11
4-Methyl-2-pentanone (MIBK)	3.1	2.1	1	10/30/2013 22:11
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/30/2013 22:11
Methylene chloride	ND	1.8	1	10/30/2013 22:11
Methyl methacrylate	ND	0.42	1	10/30/2013 22:11
Naphthalene	ND	5.3	1	10/30/2013 22:11
Propene	ND	88	1	10/30/2013 22:11
Styrene	ND	2.2	1	10/30/2013 22:11
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/30/2013 22:11
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/30/2013 22:11
Tetrachloroethene	75	3.4	1	10/30/2013 22:11
Tetrahydrofuran	ND	1.5	1	10/30/2013 22:11
Toluene	6.0	1.9	1	10/30/2013 22:11
TPH(g)	ND	720	1	10/29/2013 03:58
1,2,4-Trichlorobenzene	ND	3.8	1	10/30/2013 22:11
1,1,1-Trichloroethane	ND	2.8	1	10/30/2013 22:11
1,1,2-Trichloroethane	ND	2.8	1	10/30/2013 22:11
Trichloroethene	ND	2.8	1	10/30/2013 22:11
Trichlorofluoromethane	ND	2.8	1	10/30/2013 22:11
1,2,4-Trimethylbenzene	3.2	2.5	1	10/30/2013 22:11
1,3,5-Trimethylbenzene	ND	2.5	1	10/30/2013 22:11
Vinyl Acetate	ND	1.8	1	10/30/2013 22:11

(Cont.)



Analytical Report

Client: AEI Consultants **WorkOrder:** 1310829
Project: #298931; FSI **Extraction Method:** TO15
Date Received: 10/24/13 20:18 **Analytical Method:** TO15
Date Prepared: 10/26/13-10/30/13 **Unit:** µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-15	1310829-010A	Soil Gas	10/24/2013 13:28	GC24	83427

Initial Pressure (psia)	Final Pressure (psia)
12.21	24.33

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/30/2013 22:11
Xylenes, Total	10	6.6	1	10/30/2013 22:11

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	97	70-130	10/30/2013 22:11
Toluene-d8	93	70-130	10/30/2013 22:11
4-BFB	93	70-130	10/30/2013 22:11

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13 DUP	1310829-011A	Soil Gas	10/24/2013 13:35	GC24	83427

Initial Pressure (psia)

Final Pressure (psia)

13.93	25.76
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Analytes	Result	RL	DF	Date Analyzed
Acetone	82	60	1	10/30/2013 22:54
Acrolein	ND	0.23	1	10/30/2013 22:54
Acrylonitrile	ND	1.1	1	10/30/2013 22:54
tert-Amyl methyl ether (TAME)	ND	2.1	1	10/30/2013 22:54
Benzene	190	1.6	1	10/30/2013 22:54
Benzyl chloride	ND	2.6	1	10/30/2013 22:54
Bromodichloromethane	ND	3.5	1	10/30/2013 22:54
Bromoform	ND	5.2	1	10/30/2013 22:54
Bromomethane	10	2.0	1	10/30/2013 22:54
1,3-Butadiene	ND	1.1	1	10/30/2013 22:54
2-Butanone (MEK)	ND	75	1	10/30/2013 22:54
t-Butyl alcohol (TBA)	ND	31	1	10/30/2013 22:54
Carbon Disulfide	12	1.6	1	10/30/2013 22:54
Carbon Tetrachloride	ND	3.2	1	10/30/2013 22:54
Chlorobenzene	ND	2.4	1	10/30/2013 22:54
Chloroethane	ND	1.3	1	10/30/2013 22:54
Chloroform	ND	2.4	1	10/30/2013 22:54
Chloromethane	ND	1.0	1	10/30/2013 22:54
Cyclohexane	110	18	1	10/30/2013 22:54
Dibromochloromethane	ND	4.4	1	10/30/2013 22:54
1,2-Dibromo-3-chloropropane	ND	0.12	1	10/30/2013 22:54
1,2-Dibromoethane (EDB)	ND	3.9	1	10/30/2013 22:54
1,2-Dichlorobenzene	ND	3.0	1	10/30/2013 22:54
1,3-Dichlorobenzene	ND	3.0	1	10/30/2013 22:54
1,4-Dichlorobenzene	ND	3.0	1	10/30/2013 22:54
Dichlorodifluoromethane	ND	2.5	1	10/30/2013 22:54
1,1-Dichloroethane	ND	2.0	1	10/30/2013 22:54
1,2-Dichloroethane (1,2-DCA)	3.7	2.0	1	10/30/2013 22:54
1,1-Dichloroethene	ND	2.0	1	10/30/2013 22:54
cis-1,2-Dichloroethene	ND	2.0	1	10/30/2013 22:54
trans-1,2-Dichloroethene	ND	2.0	1	10/30/2013 22:54
1,2-Dichloropropane	ND	2.4	1	10/30/2013 22:54
cis-1,3-Dichloropropene	ND	2.3	1	10/30/2013 22:54
trans-1,3-Dichloropropene	ND	2.3	1	10/30/2013 22:54

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13 DUP	1310829-011A	Soil Gas	10/24/2013 13:35	GC24	83427

Initial Pressure (psia)

Final Pressure (psia)

13.93	25.76
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Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	10/30/2013 22:54
Diisopropyl ether (DIPE)	ND	2.1	1	10/30/2013 22:54
1,4-Dioxane	ND	1.8	1	10/30/2013 22:54
Ethanol	ND	96	1	10/30/2013 22:54
Ethyl acetate	5.8	1.8	1	10/30/2013 22:54
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	10/30/2013 22:54
Ethylbenzene	35	2.2	1	10/30/2013 22:54
4-Ethyltoluene	29	2.5	1	10/30/2013 22:54
Freon 113	ND	3.9	1	10/30/2013 22:54
Heptane	55	21	1	10/30/2013 22:54
Hexachlorobutadiene	ND	5.4	1	10/30/2013 22:54
Hexane	65	18	1	10/30/2013 22:54
2-Hexanone	ND	2.1	1	10/30/2013 22:54
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	10/30/2013 22:54
Methyl-t-butyl ether (MTBE)	ND	1.8	1	10/30/2013 22:54
Methylene chloride	3.6	1.8	1	10/30/2013 22:54
Methyl methacrylate	ND	0.42	1	10/30/2013 22:54
Naphthalene	ND	5.3	1	10/30/2013 22:54
Propene	ND	88	1	10/30/2013 22:54
Styrene	ND	2.2	1	10/30/2013 22:54
1,1,1,2-Tetrachloroethane	ND	3.5	1	10/30/2013 22:54
1,1,2,2-Tetrachloroethane	ND	3.5	1	10/30/2013 22:54
Tetrachloroethene	360	3.4	1	10/30/2013 22:54
Tetrahydrofuran	ND	1.5	1	10/30/2013 22:54
Toluene	200	1.9	1	10/30/2013 22:54
TPH(g)	9300	720	1	10/29/2013 04:42
1,2,4-Trichlorobenzene	ND	3.8	1	10/30/2013 22:54
1,1,1-Trichloroethane	5.0	2.8	1	10/30/2013 22:54
1,1,2-Trichloroethane	ND	2.8	1	10/30/2013 22:54
Trichloroethene	5.3	2.8	1	10/30/2013 22:54
Trichlorofluoromethane	ND	2.8	1	10/30/2013 22:54
1,2,4-Trimethylbenzene	79	2.5	1	10/30/2013 22:54
1,3,5-Trimethylbenzene	66	2.5	1	10/30/2013 22:54
Vinyl Acetate	ND	1.8	1	10/30/2013 22:54

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310829

Project: #298931; FSI

Extraction Method TO15

Date Received: 10/24/13 20:18

Analytical Method: TO15

Date Prepared: 10/26/13-10/30/13

Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13 DUP	1310829-011A	Soil Gas	10/24/2013 13:35	GC24	83427

Initial Pressure (psia)

Final Pressure (psia)

13.93	25.76
-------	-------

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	10/30/2013 22:54
Xylenes, Total	370	6.6	1	10/30/2013 22:54

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	101	70-130	10/30/2013 22:54
Toluene-d8	92	70-130	10/30/2013 22:54
4-BFB	92	70-130	10/30/2013 22:54



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/29/13
Date Analyzed: 10/29/13
Instrument: GC26
Matrix: Soilgas
Project: #298931; FSI

WorkOrder: 1310829
BatchID: 83464
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %
Sample ID: MB/LCS-83464

QC SUMMARY REPORT FOR ASTM D 1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Helium	ND	0.01165	0.0050	0.010	-	116	60-140



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/29/13
Date Analyzed: 10/29/13
Instrument: GC26
Matrix: SoilGas
Project: #298931; FSI

WorkOrder: 1310829
BatchID: 83465
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L
Sample ID: MB/LCS-83465

QC SUMMARY REPORT FOR ASTM D 1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Carbon Dioxide	ND	105.6	50	100	-	106	70-130
Methane	ND	94.62	1.0	100	-	94.6	70-130
Oxygen	ND	2416	4000	2800	-	86.3	70-130



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/25/13
Date Analyzed: 10/25/13
Instrument: GC24
Matrix: Soilgas
Project: #298931; FSI

WorkOrder: 1310829
BatchID: 83426
Extraction Method: TO15
Analytical Method: TO15
Unit: n/L
Sample ID: MB/LCS-83426

QC SUMMARY REPORT FOR TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	25	-	-	-	-
Acrylonitrile	ND	28.36	0.50	25	-	113	60-140
tert-Amyl methyl ether (TAME)	ND	28.17	0.50	25	-	113	60-140
Benzene	ND	26.68	0.50	25	-	107	60-140
Benzyl chloride	ND	27.26	0.50	25	-	109	60-140
Bromodichloromethane	ND	24.25	0.50	25	-	97	60-140
Bromoform	ND	28.04	0.50	25	-	112	60-140
Bromomethane	ND	-	0.50	-	-	-	-
1,3-Butadiene	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	25	-	-	-	-
t-Butyl alcohol (TBA)	ND	29.86	10	25	-	119	60-140
Carbon Disulfide	ND	27.06	0.50	25	-	108	60-140
Carbon Tetrachloride	ND	29.26	0.50	25	-	117	60-140
Chlorobenzene	ND	25.29	0.50	25	-	101	60-140
Chloroethane	ND	25.91	0.50	25	-	104	60-140
Chloroform	ND	22.31	0.50	25	-	89.3	60-140
Chloromethane	ND	25.2	0.50	25	-	101	60-140
Cyclohexane	ND	-	5.0	-	-	-	-
Dibromochloromethane	ND	31.68	0.50	25	-	127	60-140
1,2-Dibromo-3-chloropropane	ND	33.01	0.012	25	-	132	60-140
1,2-Dibromoethane (EDB)	ND	24.83	0.50	25	-	99.3	60-140
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	25.76	0.50	25	-	103	60-140
1,4-Dichlorobenzene	ND	22.42	0.50	25	-	89.7	60-140
Dichlorodifluoromethane	ND	24.55	0.50	25	-	98.2	60-140
1,1-Dichloroethane	ND	26	0.50	25	-	104	60-140
1,2-Dichloroethane (1,2-DCA)	ND	22.47	0.50	25	-	89.9	60-140
1,1-Dichloroethene	ND	-	0.50	-	-	-	-
cis-1,2-Dichloroethene	ND	27.16	0.50	25	-	109	60-140
trans-1,2-Dichloroethene	ND	27.59	0.50	25	-	110	60-140
1,2-Dichloropropane	ND	22.6	0.50	25	-	90.4	60-140
cis-1,3-Dichloropropene	ND	29.55	0.50	25	-	118	60-140
trans-1,3-Dichloropropene	ND	27.35	0.50	25	-	109	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	24.09	0.50	25	-	96.3	60-140
Diisopropyl ether (DIPE)	ND	30.74	0.50	25	-	123	60-140
1,4-Dioxane	ND	25.98	0.50	25	-	104	60-140
Ethanol	ND	-	50	-	-	-	-
Ethyl acetate	ND	27.05	0.50	25	-	108	60-140
Ethyl tert-butyl ether (ETBE)	ND	28.16	0.50	25	-	113	60-140
Ethylbenzene	ND	26.26	0.50	25	-	105	60-140

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/25/13
Date Analyzed: 10/25/13
Instrument: GC24
Matrix: Soilgas
Project: #298931; FSI

WorkOrder: 1310829
BatchID: 83426
Extraction Method: TO15
Analytical Method: TO15
Unit: nL/L
Sample ID: MB/LCS-83426

QC SUMMARY REPORT FOR TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
4-Ethyltoluene	ND	-	0.50	-	-	-	-
Freon 113	ND	25.53	0.50	25	-	102	60-140
Heptane	ND	-	5.0	-	-	-	-
Hexachlorobutadiene	ND	27.3	0.50	25	-	109	60-140
Hexane	ND	-	5.0	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	30.6	0.50	25	-	122	60-140
Methyl-t-butyl ether (MTBE)	ND	28.22	0.50	25	-	113	60-140
Methylene chloride	ND	23.24	0.50	25	-	93	60-140
Naphthalene	ND	53.21	1.0	50	-	106	60-140
Propene	ND	-	50	-	-	-	-
Styrene	ND	27.27	0.50	25	-	109	60-140
1,1,1,2-Tetrachloroethane	ND	29.34	0.50	25	-	117	60-140
1,1,2,2-Tetrachloroethane	ND	21.51	0.50	25	-	86	60-140
Tetrachloroethene	ND	25.68	0.50	25	-	103	60-140
Tetrahydrofuran	ND	21.62	0.50	25	-	86.5	60-140
Toluene	ND	24.69	0.50	25	-	98.8	60-140
1,2,4-Trichlorobenzene	ND	27.18	0.50	25	-	109	60-140
1,1,1-Trichloroethane	ND	29.02	0.50	25	-	116	60-140
1,1,2-Trichloroethane	ND	23.41	0.50	25	-	93.6	60-140
Trichloroethene	ND	21.1	0.50	25	-	84.4	60-140
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	25.31	0.50	25	-	101	60-140
1,3,5-Trimethylbenzene	ND	25.54	0.50	25	-	102	60-140
Vinyl Acetate	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	20.04	0.50	25	-	80.2	60-140
Xylenes, Total	ND	78.26	1.5	75	-	104	60-140

Surrogate Recovery

1,2-DCA-d4	447.6	536.1		500	90	107	60-140
Toluene-d8	445.9	444.4		500	89	89	60-140
4-BFB	425.7	409		500	85	82	60-140

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/29/13
Date Analyzed: 10/30/13
Instrument: GC24
Matrix: Soilgas
Project: #298931; FSI

WorkOrder: 1310829
BatchID: 83427
Extraction Method: TO15
Analytical Method: TO15
Unit: n/L
Sample ID: MB/LCS-83427

QC SUMMARY REPORT FOR TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	25	-	-	-	-
Acrylonitrile	ND	29.37	0.50	25	-	117	60-140
tert-Amyl methyl ether (TAME)	ND	29.42	0.50	25	-	118	60-140
Benzene	ND	28.34	0.50	25	-	113	60-140
Benzyl chloride	ND	30.26	0.50	25	-	121	60-140
Bromodichloromethane	ND	25.44	0.50	25	-	102	60-140
Bromoform	ND	28.66	0.50	25	-	115	60-140
Bromomethane	ND	-	0.50	-	-	-	-
1,3-Butadiene	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	25	-	-	-	-
t-Butyl alcohol (TBA)	ND	26.35	10	25	-	105	60-140
Carbon Disulfide	ND	28.09	0.50	25	-	112	60-140
Carbon Tetrachloride	ND	30.43	0.50	25	-	122	60-140
Chlorobenzene	ND	26	0.50	25	-	104	60-140
Chloroethane	ND	30.35	0.50	25	-	121	60-140
Chloroform	ND	23.44	0.50	25	-	93.8	60-140
Chloromethane	ND	29.53	0.50	25	-	118	60-140
Cyclohexane	ND	-	5.0	-	-	-	-
Dibromochloromethane	ND	32.41	0.50	25	-	130	60-140
1,2-Dibromo-3-chloropropane	ND	35.41	0.012	25	-	142, F2	60-140
1,2-Dibromoethane (EDB)	ND	25.63	0.50	25	-	103	60-140
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	27.45	0.50	25	-	110	60-140
1,4-Dichlorobenzene	ND	24.02	0.50	25	-	96.1	60-140
Dichlorodifluoromethane	ND	24.71	0.50	25	-	98.8	60-140
1,1-Dichloroethane	ND	27.52	0.50	25	-	110	60-140
1,2-Dichloroethane (1,2-DCA)	ND	23.69	0.50	25	-	94.8	60-140
1,1-Dichloroethene	ND	-	0.50	-	-	-	-
cis-1,2-Dichloroethene	ND	27.76	0.50	25	-	111	60-140
trans-1,2-Dichloroethene	ND	28.23	0.50	25	-	113	60-140
1,2-Dichloropropane	ND	24.08	0.50	25	-	96.3	60-140
cis-1,3-Dichloropropene	ND	31.15	0.50	25	-	125	60-140
trans-1,3-Dichloropropene	ND	28.81	0.50	25	-	115	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	25.24	0.50	25	-	101	60-140
Diisopropyl ether (DIPE)	ND	36.44	0.50	25	-	146, F2	60-140
1,4-Dioxane	ND	27.17	0.50	25	-	109	60-140
Ethanol	ND	-	50	-	-	-	-
Ethyl acetate	ND	29.18	0.50	25	-	117	60-140
Ethyl tert-butyl ether (ETBE)	ND	30.09	0.50	25	-	120	60-140
Ethylbenzene	ND	27.32	0.50	25	-	109	60-140

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/29/13
Date Analyzed: 10/30/13
Instrument: GC24
Matrix: Soilgas
Project: #298931; FSI

WorkOrder: 1310829
BatchID: 83427
Extraction Method: TO15
Analytical Method: TO15
Unit: nL/L
Sample ID: MB/LCS-83427

QC SUMMARY REPORT FOR TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
4-Ethyltoluene	ND	-	0.50	-	-	-	-
Freon 113	ND	25.71	0.50	25	-	103	60-140
Heptane	ND	-	5.0	-	-	-	-
Hexachlorobutadiene	ND	27.14	0.50	25	-	109	60-140
Hexane	ND	-	5.0	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	32.95	0.50	25	-	132	60-140
Methyl-t-butyl ether (MTBE)	ND	29.54	0.50	25	-	118	60-140
Methylene chloride	ND	23.6	0.50	25	-	94.4	60-140
Naphthalene	ND	55.35	1.0	50	-	111	60-140
Propene	ND	-	50	-	-	-	-
Styrene	ND	28.67	0.50	25	-	115	60-140
1,1,1,2-Tetrachloroethane	ND	30.19	0.50	25	-	121	60-140
1,1,2,2-Tetrachloroethane	ND	23.13	0.50	25	-	92.5	60-140
Tetrachloroethene	ND	25.86	0.50	25	-	103	60-140
Tetrahydrofuran	ND	25.72	0.50	25	-	103	60-140
Toluene	ND	25.41	0.50	25	-	102	60-140
1,2,4-Trichlorobenzene	ND	28.31	0.50	25	-	113	60-140
1,1,1-Trichloroethane	ND	30.01	0.50	25	-	120	60-140
1,1,2-Trichloroethane	ND	24.29	0.50	25	-	97.2	60-140
Trichloroethene	ND	21.57	0.50	25	-	86.3	60-140
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	27.48	0.50	25	-	110	60-140
1,3,5-Trimethylbenzene	ND	27.29	0.50	25	-	109	60-140
Vinyl Acetate	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	20.02	0.50	25	-	80.1	60-140
Xylenes, Total	ND	81.79	1.5	75	-	109	60-140

Surrogate Recovery

1,2-DCA-d4	480.6	481.2		500	96	96	60-140
Toluene-d8	467.4	463.4		500	93	93	60-140
4-BFB	447.2	473		500	89	95	60-140



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1310829

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Jeremy Smith
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com
cc:
PO: #WC084430
ProjectNo: #298931; FSI

Bill to:

Sara Guerin
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.co

Requested TAT:

5 days

Date Received: 10/24/2013

Date Printed: 10/25/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1310829-001	SV-3	Soil Gas	10/24/2013 11:41	<input type="checkbox"/>	A	A	A			A							
1310829-002	SV-4	Soil Gas	10/24/2013 12:03	<input type="checkbox"/>	A					A							
1310829-003	SV-6	Soil Gas	10/24/2013 11:19	<input type="checkbox"/>	A					A							
1310829-004	SV-7	Soil Gas	10/24/2013 10:28	<input type="checkbox"/>	A					A							
1310829-005	SV-8	Soil Gas	10/24/2013 9:06	<input type="checkbox"/>	A					A							
1310829-006	SV-9	Soil Gas	10/24/2013 10:13	<input type="checkbox"/>	A					A							
1310829-007	SV-12	Soil Gas	10/24/2013 11:12	<input type="checkbox"/>	A					A							
1310829-008	SV-13	Soil Gas	10/24/2013 13:15	<input type="checkbox"/>	A					A							
1310829-009	SV-14	Soil Gas	10/24/2013 14:19	<input type="checkbox"/>	A					A							
1310829-010	SV-15	Soil Gas	10/24/2013 13:28	<input type="checkbox"/>	A					A							
1310829-011	SV-13 DUP	Soil Gas	10/24/2013 13:35	<input type="checkbox"/>	A					A							
1310829-012	Unused Summa 1	Soil Gas	10/24/2013	<input type="checkbox"/>					A								
1310829-013	Unused Summa 2	Soil Gas	10/24/2013	<input type="checkbox"/>					A								
1310829-014	Unused Summa 3	Soil Gas	10/24/2013	<input type="checkbox"/>					A								

Test Legend:

1	LG_SUMMA_SOILGAS	2	PREFD REPORT	3	PRHELIUM SHROUD	4	PRNUSEDSUMMA	5	5+GAS_Scan-SIM_SOIL(UG)
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A contain testgroup.

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

1310829

McCAMPBELL ANALYTICAL INC.
 1534 Willow Pass Road
 Pittsburg, CA 94565-1701
 www.main@mccampbell.com
 Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD
TURN AROUND TIME RUSH 24 HR 48 HR 72 HR 5 DAY
 EDF Required? No Yes

Report To: **Jeremy Smith** Bill To: **PO# WC084430**
 Company: **AEI Consultants**
 2500 Camino Diablo, Walnut Creek, California 94597
 E-Mail: **jasmith@aeiconsultants.com**
 Tele: (925) 746-6000 Fax: (925) 746-6099
 Project #: **298931** Project Name: **FSI**
 Project Location: **1630 Park St., Alameda, California**

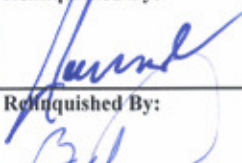

Lab Use Only			
Pressurized By	Date	Pressurization Gas	
		N2	He


Sampler Signature: 

Notes: **Helium leak check**

Field Sample ID (Location)	Collection		Canister SN#	Sampler Kit SN#
	Date	Time		
SV-3	10-24 13	1141	6166	316T-994
SV-4	10-24	1203	6306	316-728
SV-6	10-24	1119	6168	316-718
SV-7	10-24	1028	6169	316-667
SV-8	10-24	906	6174	316-T999
SV-9	10-24	1013	7531	316-771
SV-12	10-24	1112	6203	316-1222
SV-13	10-24	135	7519	316-1216
SV-14	10-24	1419	5809	316-1217
SV-15	10-24	1328	6307	316-1218
SV-15 Dup	10-24	135	6412	316-1216

Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum			
			Initial	Final	Receipt	Final (psi)
TPH(g)/VOCs by TO-15, Fix Gas ASTM1946		X	-27	-4		
		X	-30	-5		
		X	-30	-5		
		X	-29.5	-5		
		X	-28	-5		
		X	-30	-5		
		X	-29.5	-1		
		X	-30	-5		
		X	-30	-5		
		X	-30	-5		

Relinquished By:  Date: **10-24** Time: **340**
 Relinquished By:  Date: **10-24** Time: **1020**

Received By: 
 Temp (°C): _____ Work Order #: _____
 Condition: _____
 Custody Seals Intact?: Yes _____ No _____ None _____
 Shipped Via: _____



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **10/24/2013 8:18:47 PM**
 Project Name: **#298931; FSI** LogIn Reviewed by: **Jena Alfaro**
 WorkOrder N°: **1310829** Matrix: Soil Gas Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1311900

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jeremy Smith
Project P.O.: #WC084484
Project Name: FSI

Project Received: 11/25/2013

Analytical Report reviewed & approved for release on 12/04/2013 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: FSI
WorkOrder: 1311900

<u>Glossary</u> <u>Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Quality Control Qualifier

F2 LCS recovery for this compound is outside of acceptance limits.



Case Narrative

Client: AEI Consultants
Project: FSI

Work Order: 1311900
December 04, 2013

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

In an effort to attain the lowest reporting limits possible for the majority of the TO-15 target list, high level compounds may be analyzed using EPA Method 8260B.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Advisory of April 2012.



Analytical Report

Client: AEI Consultants
Project: FSI
Date Received: 11/25/13 19:03
Date Prepared: 12/2/13

WorkOrder: 1311900
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L

Light Gases

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1311900-001A	Soil Gas/DISS.	11/25/2013 09:14	GC26	84601

Initial Pressure (psia) **Final Pressure (psia)**

12.00	23.92
--------------	--------------

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	1700	740	15	12/02/2013 14:50
Oxygen	150,000	15,000	3.7	12/02/2013 14:50

SV-13	1311900-002A	Soil Gas/DISS.	11/25/2013 09:55	GC26	84601
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Initial Pressure (psia) **Final Pressure (psia)**

11.66	23.22
--------------	--------------

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	41,000	720	14	12/02/2013 15:11
Oxygen	100,000	15,000	3.6	12/02/2013 15:11



Analytical Report

Client: AEI Consultants
Project: FSI
Date Received: 11/25/13 19:03
Date Prepared: 11/27/13

WorkOrder: 1311900
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1311900-001A	Soil Gas	11/25/2013 09:14	GC24	84681

Initial Pressure (psia)	Final Pressure (psia)
12.00	23.92

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	11/27/2013 12:27
Acrolein	ND	1.2	1	11/27/2013 12:27
Acrylonitrile	ND	1.1	1	11/27/2013 12:27
tert-Amyl methyl ether (TAME)	ND	2.1	1	11/27/2013 12:27
Benzene	ND	1.6	1	11/27/2013 12:27
Benzyl chloride	ND	2.6	1	11/27/2013 12:27
Bromodichloromethane	ND	3.5	1	11/27/2013 12:27
Bromoform	ND	5.2	1	11/27/2013 12:27
Bromomethane	ND	2.0	1	11/27/2013 12:27
1,3-Butadiene	ND	1.1	1	11/27/2013 12:27
2-Butanone (MEK)	ND	75	1	11/27/2013 12:27
t-Butyl alcohol (TBA)	ND	31	1	11/27/2013 12:27
Carbon Disulfide	ND	1.6	1	11/27/2013 12:27
Carbon Tetrachloride	ND	3.2	1	11/27/2013 12:27
Chlorobenzene	ND	2.4	1	11/27/2013 12:27
Chloroethane	ND	1.3	1	11/27/2013 12:27
Chloroform	ND	2.4	1	11/27/2013 12:27
Chloromethane	ND	1.0	1	11/27/2013 12:27
Cyclohexane	ND	18	1	11/27/2013 12:27
Dibromochloromethane	ND	4.4	1	11/27/2013 12:27
1,2-Dibromo-3-chloropropane	0.77	0.12	1	11/27/2013 12:27
1,2-Dibromoethane (EDB)	ND	3.9	1	11/27/2013 12:27
1,2-Dichlorobenzene	ND	3.0	1	11/27/2013 12:27
1,3-Dichlorobenzene	ND	3.0	1	11/27/2013 12:27
1,4-Dichlorobenzene	ND	3.0	1	11/27/2013 12:27
Dichlorodifluoromethane	ND	2.5	1	11/27/2013 12:27
1,1-Dichloroethane	ND	2.0	1	11/27/2013 12:27
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	11/27/2013 12:27
1,1-Dichloroethene	ND	2.0	1	11/27/2013 12:27
cis-1,2-Dichloroethene	ND	2.0	1	11/27/2013 12:27
trans-1,2-Dichloroethene	ND	2.0	1	11/27/2013 12:27
1,2-Dichloropropane	ND	2.4	1	11/27/2013 12:27
cis-1,3-Dichloropropene	ND	2.3	1	11/27/2013 12:27
trans-1,3-Dichloropropene	ND	2.3	1	11/27/2013 12:27

(Cont.)



Analytical Report

Client: AEI Consultants
Project: FSI
Date Received: 11/25/13 19:03
Date Prepared: 11/27/13

WorkOrder: 1311900
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1311900-001A	Soil Gas	11/25/2013 09:14	GC24	84681

Initial Pressure (psia)	Final Pressure (psia)
12.00	23.92

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	11/27/2013 12:27
Diisopropyl ether (DIPE)	ND	2.1	1	11/27/2013 12:27
1,4-Dioxane	ND	1.8	1	11/27/2013 12:27
Ethanol	ND	96	1	11/27/2013 12:27
Ethyl acetate	ND	1.8	1	11/27/2013 12:27
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	11/27/2013 12:27
Ethylbenzene	ND	2.2	1	11/27/2013 12:27
4-Ethyltoluene	ND	2.5	1	11/27/2013 12:27
Freon 113	ND	3.9	1	11/27/2013 12:27
Heptane	ND	21	1	11/27/2013 12:27
Hexachlorobutadiene	ND	5.4	1	11/27/2013 12:27
Hexane	ND	18	1	11/27/2013 12:27
2-Hexanone	ND	2.1	1	11/27/2013 12:27
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	11/27/2013 12:27
Methyl-t-butyl ether (MTBE)	ND	1.8	1	11/27/2013 12:27
Methylene chloride	ND	1.8	1	11/27/2013 12:27
Methyl methacrylate	ND	2.1	1	11/27/2013 12:27
Naphthalene	ND	5.3	1	11/27/2013 12:27
Propene	ND	88	1	11/27/2013 12:27
Styrene	ND	2.2	1	11/27/2013 12:27
1,1,1,2-Tetrachloroethane	ND	3.5	1	11/27/2013 12:27
1,1,2,2-Tetrachloroethane	ND	3.5	1	11/27/2013 12:27
Tetrachloroethene	210	3.4	1	11/27/2013 12:27
Tetrahydrofuran	ND	1.5	1	11/27/2013 12:27
Toluene	ND	1.9	1	11/27/2013 12:27
TPH(g)	ND	720	1	11/27/2013 12:27
1,2,4-Trichlorobenzene	ND	3.8	1	11/27/2013 12:27
1,1,1-Trichloroethane	4.3	2.8	1	11/27/2013 12:27
1,1,2-Trichloroethane	ND	2.8	1	11/27/2013 12:27
Trichloroethene	ND	2.8	1	11/27/2013 12:27
Trichlorofluoromethane	ND	2.8	1	11/27/2013 12:27
1,2,4-Trimethylbenzene	ND	2.5	1	11/27/2013 12:27
1,3,5-Trimethylbenzene	ND	2.5	1	11/27/2013 12:27
Vinyl Acetate	ND	1.8	1	11/27/2013 12:27

(Cont.)



Analytical Report

Client: AEI Consultants
Project: FSI
Date Received: 11/25/13 19:03
Date Prepared: 11/27/13

WorkOrder: 1311900
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1311900-001A	Soil Gas	11/25/2013 09:14	GC24	84681

Initial Pressure (psia)	Final Pressure (psia)
12.00	23.92

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	11/27/2013 12:27
Xylenes, Total	ND	6.6	1	11/27/2013 12:27

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	115	70-130	11/27/2013 12:27
Toluene-d8	111	70-130	11/27/2013 12:27
4-BFB	103	70-130	11/27/2013 12:27

(Cont.)



Analytical Report

Client: AEI Consultants
Project: FSI
Date Received: 11/25/13 19:03
Date Prepared: 11/27/13

WorkOrder: 1311900
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13	1311900-002A	Soil Gas	11/25/2013 09:55	GC24	84681

Initial Pressure (psia)	Final Pressure (psia)
11.66	23.22

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	11/27/2013 13:06
Acrolein	ND	1.2	1	11/27/2013 13:06
Acrylonitrile	ND	1.1	1	11/27/2013 13:06
tert-Amyl methyl ether (TAME)	ND	2.1	1	11/27/2013 13:06
Benzene	ND	1.6	1	11/27/2013 13:06
Benzyl chloride	ND	2.6	1	11/27/2013 13:06
Bromodichloromethane	ND	3.5	1	11/27/2013 13:06
Bromoform	ND	5.2	1	11/27/2013 13:06
Bromomethane	ND	2.0	1	11/27/2013 13:06
1,3-Butadiene	ND	1.1	1	11/27/2013 13:06
2-Butanone (MEK)	ND	75	1	11/27/2013 13:06
t-Butyl alcohol (TBA)	ND	31	1	11/27/2013 13:06
Carbon Disulfide	ND	1.6	1	11/27/2013 13:06
Carbon Tetrachloride	ND	3.2	1	11/27/2013 13:06
Chlorobenzene	ND	2.4	1	11/27/2013 13:06
Chloroethane	ND	1.3	1	11/27/2013 13:06
Chloroform	ND	2.4	1	11/27/2013 13:06
Chloromethane	ND	1.0	1	11/27/2013 13:06
Cyclohexane	ND	18	1	11/27/2013 13:06
Dibromochloromethane	ND	4.4	1	11/27/2013 13:06
1,2-Dibromo-3-chloropropane	0.76	0.12	1	11/27/2013 13:06
1,2-Dibromoethane (EDB)	ND	3.9	1	11/27/2013 13:06
1,2-Dichlorobenzene	ND	3.0	1	11/27/2013 13:06
1,3-Dichlorobenzene	ND	3.0	1	11/27/2013 13:06
1,4-Dichlorobenzene	ND	3.0	1	11/27/2013 13:06
Dichlorodifluoromethane	ND	2.5	1	11/27/2013 13:06
1,1-Dichloroethane	ND	2.0	1	11/27/2013 13:06
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	11/27/2013 13:06
1,1-Dichloroethene	ND	2.0	1	11/27/2013 13:06
cis-1,2-Dichloroethene	ND	2.0	1	11/27/2013 13:06
trans-1,2-Dichloroethene	ND	2.0	1	11/27/2013 13:06
1,2-Dichloropropane	ND	2.4	1	11/27/2013 13:06
cis-1,3-Dichloropropene	ND	2.3	1	11/27/2013 13:06
trans-1,3-Dichloropropene	ND	2.3	1	11/27/2013 13:06

(Cont.)



Analytical Report

Client: AEI Consultants
Project: FSI
Date Received: 11/25/13 19:03
Date Prepared: 11/27/13

WorkOrder: 1311900
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13	1311900-002A	Soil Gas	11/25/2013 09:55	GC24	84681

Initial Pressure (psia)	Final Pressure (psia)
11.66	23.22

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	11/27/2013 13:06
Diisopropyl ether (DIPE)	ND	2.1	1	11/27/2013 13:06
1,4-Dioxane	ND	1.8	1	11/27/2013 13:06
Ethanol	ND	96	1	11/27/2013 13:06
Ethyl acetate	ND	1.8	1	11/27/2013 13:06
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	11/27/2013 13:06
Ethylbenzene	ND	2.2	1	11/27/2013 13:06
4-Ethyltoluene	ND	2.5	1	11/27/2013 13:06
Freon 113	ND	3.9	1	11/27/2013 13:06
Heptane	ND	21	1	11/27/2013 13:06
Hexachlorobutadiene	ND	5.4	1	11/27/2013 13:06
Hexane	ND	18	1	11/27/2013 13:06
2-Hexanone	ND	2.1	1	11/27/2013 13:06
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	11/27/2013 13:06
Methyl-t-butyl ether (MTBE)	ND	1.8	1	11/27/2013 13:06
Methylene chloride	ND	1.8	1	11/27/2013 13:06
Methyl methacrylate	ND	2.1	1	11/27/2013 13:06
Naphthalene	ND	5.3	1	11/27/2013 13:06
Propene	ND	88	1	11/27/2013 13:06
Styrene	ND	2.2	1	11/27/2013 13:06
1,1,1,2-Tetrachloroethane	ND	3.5	1	11/27/2013 13:06
1,1,2,2-Tetrachloroethane	ND	3.5	1	11/27/2013 13:06
Tetrachloroethene	420	3.4	1	11/27/2013 13:06
Tetrahydrofuran	ND	1.5	1	11/27/2013 13:06
Toluene	ND	1.9	1	11/27/2013 13:06
TPH(g)	ND	720	1	11/27/2013 13:06
1,2,4-Trichlorobenzene	ND	3.8	1	11/27/2013 13:06
1,1,1-Trichloroethane	ND	2.8	1	11/27/2013 13:06
1,1,2-Trichloroethane	ND	2.8	1	11/27/2013 13:06
Trichloroethene	3.5	2.8	1	11/27/2013 13:06
Trichlorofluoromethane	ND	2.8	1	11/27/2013 13:06
1,2,4-Trimethylbenzene	ND	2.5	1	11/27/2013 13:06
1,3,5-Trimethylbenzene	ND	2.5	1	11/27/2013 13:06
Vinyl Acetate	ND	1.8	1	11/27/2013 13:06

(Cont.)



Analytical Report

Client: AEI Consultants
Project: FSI
Date Received: 11/25/13 19:03
Date Prepared: 11/27/13

WorkOrder: 1311900
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas + Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-13	1311900-002A	Soil Gas	11/25/2013 09:55	GC24	84681

Initial Pressure (psia)	Final Pressure (psia)
11.66	23.22

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.3	1	11/27/2013 13:06
Xylenes, Total	ND	6.6	1	11/27/2013 13:06

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	110	70-130	11/27/2013 13:06
Toluene-d8	108	70-130	11/27/2013 13:06
4-BFB	102	70-130	11/27/2013 13:06



Analytical Report

Client: AEI Consultants
Project: FSI
Date Received: 11/25/13 19:03
Date Prepared: 11/27/13

WorkOrder: 1311900
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Leak Check Compound

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1311900-001A	Soil Gas	11/25/2013 09:14	GC24	84681

Initial Pressure (psia) **Final Pressure (psia)**

12.00	23.92
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Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	11/27/2013 12:27

SV-13	1311900-002A	Soil Gas	11/25/2013 09:55	GC24	84681
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Initial Pressure (psia) **Final Pressure (psia)**

11.66	23.22
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Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	11/27/2013 13:06



Quality Control Report

Client: AEI Consultants
Date Prepared: 12/2/13
Date Analyzed: 12/2/13
Instrument: GC26
Matrix: SoilGas
Project: FSI

WorkOrder: 1311900
BatchID: 84601
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L
Sample ID: MB/LCS-84601

QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Carbon Dioxide	ND	ND	50	25	-	117	70-130
Oxygen	ND	6722	4000	7000	-	96	70-130



Quality Control Report

Client: AEI Consultants
Date Prepared: 11/26/13
Date Analyzed: 11/26/13
Instrument: GC24
Matrix: Soilgas
Project: FSI

WorkOrder: 1311900
BatchID: 84681
Extraction Method: TO15
Analytical Method: TO15
Unit: nL/L
Sample ID: MB/LCS-84681

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	25	-	-	-	-
Acrylonitrile	ND	21.39	0.50	25	-	85.6	70-130
tert-Amyl methyl ether (TAME)	ND	27.49	0.50	25	-	110	70-130
Benzene	ND	18.74	0.50	25	-	74.9	70-130
Benzyl chloride	ND	35.42	0.50	25	-	142, F2	70-130
Bromodichloromethane	ND	28.64	0.50	25	-	115	70-130
Bromoform	ND	29.05	0.50	25	-	116	70-130
Bromomethane	ND	-	0.50	-	-	-	-
1,3-Butadiene	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	25	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	10	0	-	F2	-
Carbon Disulfide	ND	26.24	0.50	25	-	105	70-130
Carbon Tetrachloride	ND	33.3	0.50	25	-	133, F2	70-130
Chlorobenzene	ND	25.69	0.50	25	-	103	70-130
Chloroethane	ND	26.24	0.50	25	-	105	70-130
Chloroform	ND	22.46	0.50	25	-	89.9	70-130
Chloromethane	ND	20.35	0.50	25	-	81.4	70-130
Cyclohexane	ND	-	5.0	-	-	-	-
Dibromochloromethane	ND	32.06	0.50	25	-	128	70-130
1,2-Dibromo-3-chloropropane	ND	32.69	0.012	25	-	131, F2	70-130
1,2-Dibromoethane (EDB)	ND	23.3	0.50	25	-	93.2	70-130
1,2-Dichlorobenzene	ND	26.43	0.50	25	-	106	70-130
1,3-Dichlorobenzene	ND	26.1	0.50	25	-	104	70-130
1,4-Dichlorobenzene	ND	21.32	0.50	25	-	85.3	70-130
Dichlorodifluoromethane	ND	26.73	0.50	25	-	107	70-130
1,1-Dichloroethane	ND	24	0.50	25	-	96	70-130
1,2-Dichloroethane (1,2-DCA)	ND	23.63	0.50	25	-	94.5	70-130
1,1-Dichloroethene	ND	29.46	0.50	25	-	118	70-130
cis-1,2-Dichloroethene	ND	26.43	0.50	25	-	106	70-130
trans-1,2-Dichloroethene	ND	26.16	0.50	25	-	105	70-130
1,2-Dichloropropane	ND	21.21	0.50	25	-	84.8	70-130
cis-1,3-Dichloropropene	ND	27.84	0.50	25	-	111	70-130
trans-1,3-Dichloropropene	ND	26.1	0.50	25	-	104	70-130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	24.97	0.50	25	-	99.9	70-130
Diisopropyl ether (DIPE)	ND	20.28	0.50	25	-	81.1	70-130
1,4-Dioxane	ND	24.77	0.50	25	-	99.1	70-130
Ethanol	ND	-	50	-	-	-	-
Ethyl acetate	ND	23.2	0.50	25	-	92.8	70-130
Ethyl tert-butyl ether (ETBE)	ND	25.73	0.50	25	-	103	70-130
Ethylbenzene	ND	25.7	0.50	25	-	103	70-130

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 11/26/13
Date Analyzed: 11/26/13
Instrument: GC24
Matrix: Soilgas
Project: FSI

WorkOrder: 1311900
BatchID: 84681
Extraction Method: TO15
Analytical Method: TO15
Unit: nL/L
Sample ID: MB/LCS-84681

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
4-Ethyltoluene	ND	-	0.50	-	-	-	-
Freon 113	ND	25.19	0.50	25	-	101	70-130
Heptane	ND	-	5.0	-	-	-	-
Hexachlorobutadiene	ND	22.82	0.50	25	-	91.3	70-130
Hexane	ND	-	5.0	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	24.98	0.50	25	-	99.9	70-130
Methyl-t-butyl ether (MTBE)	ND	28.49	0.50	25	-	114	70-130
Methylene chloride	ND	21.87	0.50	25	-	87.5	70-130
Naphthalene	ND	42.65	1.0	50	-	85.3	70-130
Propene	ND	-	50	-	-	-	-
Styrene	ND	28.53	0.50	25	-	114	70-130
1,1,1,2-Tetrachloroethane	ND	27.25	0.50	25	-	109	70-130
1,1,2,2-Tetrachloroethane	ND	20.58	0.50	25	-	82.3	70-130
Tetrachloroethene	ND	22.94	0.50	25	-	91.8	70-130
Tetrahydrofuran	ND	19.76	0.50	25	-	79	70-130
Toluene	ND	24.74	0.50	25	-	99	70-130
1,2,4-Trichlorobenzene	ND	26.42	0.50	25	-	106	70-130
1,1,1-Trichloroethane	ND	30.86	0.50	25	-	123	70-130
1,1,2-Trichloroethane	ND	21.9	0.50	25	-	87.6	70-130
Trichloroethene	ND	22.55	0.50	25	-	90.2	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	27.05	0.50	25	-	108	70-130
1,3,5-Trimethylbenzene	ND	23.86	0.50	25	-	95.4	70-130
Vinyl Acetate	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	24.49	0.50	25	-	98	70-130
Xylenes, Total	ND	77.78	1.5	75	-	104	70-130

Surrogate Recovery

1,2-DCA-d4	532.4	528.9		500	106	106	70-130
Toluene-d8	558.9	553		500	112	111	70-130
4-BFB	501.9	511		500	100	102	70-130



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1311900

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Jeremy Smith
 AEI Consultants
 2500 Camino Diablo, Ste.#200
 Walnut Creek, CA 94597
 (925) 283-6000 FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com
 cc:
 PO: #WC084484
 ProjectNo: FSI

Bill to:

Sara Guerin
 AEI Consultants
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597
 AccountsPayable@AEIConsultants.co

Requested TAT:

5 days

Date Received: 11/25/2013

Date Printed: 11/25/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1311900-001	SV-4	Soil Gas	11/25/2013 9:14	<input type="checkbox"/>	A	A	A									
1311900-002	SV-13	Soil Gas	11/25/2013 9:55	<input type="checkbox"/>	A		A									

Test Legend:

1	3_SUMMA_SOILGAS(UG/M)	2	PREFD REPORT	3	5+GAS_Scan-SIM_SOIL(UG)	4		5	
6		7		8		9		10	
11		12							

The following SamplIDs: 001A, 002A contain testgroup.

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1311900

Project: FSI

Client Contact: Jeremy Smith

Date Received: 11/25/2013

Comments:

Contact's Email: jasmith@aeiconsultants.com

WaterTrax
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 J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1311900-001A	SV-4	Soil Gas	VOCs and TPHgas by TO15 for Soil Vapor ASTM D1946-90 (Light Gases)	1	1L Summa	<input type="checkbox"/>	11/25/2013 9:14	5 days		<input type="checkbox"/>	
						<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1311900-002A	SV-13	Soil Gas	VOCs and TPHgas by TO15 for Soil Vapor ASTM D1946-90 (Light Gases)	1	1L Summa	<input type="checkbox"/>	11/25/2013 9:55	5 days		<input type="checkbox"/>	
						<input type="checkbox"/>		5 days		<input type="checkbox"/>	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

1L Summa = 1L Summa Canister

1311900

McCAMPBELL ANALYTICAL INC.
 1534 Willow Pass Road
 Pittsburg, CA 94565-1701
 www.main@mccampbell.com
 Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD
TURN AROUND TIME
 RUSH 24 HR 48 HR 72 HR 5 DAY
 EDF Required? No Yes

Report To: Jeremy Smith Bill To: PO# WC084484
 Company: AEI Consultants
 2500 Camino Diablo, Walnut Creek, California 94597
 E-Mail: jasmith@aeiconsultants.com
 Tele: (925) 746-6000 Fax: (925) 746-6099
 Project #: Project Name: FSI
 Project Location: 1630 Park St., Alameda, California

Lab Use Only			
Pressurized By	Date	Pressurization Gas	
		N2	He

Sampler Signature: *John Sigg*

Notes:

Field Sample ID (Location)	Collection		Canister SN#	Sampler Kit SN#
	Date	Time		
SV-4	11-25-13	0914	A7508	991
SV-13	11-25-13	0955	6171	1217

Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum			
			Initial	Final	Receipt	Final (psi)
TPH(g)/VOCs by TO-15, Fix Gas ASTM1946		X	29	5		
TPH(g)/VOCs by TO-15, Fix Gas ASTM1946		X	28	5		

Relinquished By: *John Sigg* Date: 11-25-13 Time: 1213 Received By: *[Signature]*

Temp (°C) : _____ Work Order #: 1311900
 Condition: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Custody Seals Intact?: Yes _____ No _____ None _____
 Shipped Via: _____



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **11/25/2013 7:03:36 PM**
 Project Name: **FSI** LogIn Reviewed by: **Zoraida Cortez**
 WorkOrder N°: **1311900** Matrix: Soil Gas Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1311900 A

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jeremy Smith
Project P.O.: #WC084484
Project Name: FSI

Project Received: 11/25/2013

Analytical Report reviewed & approved for release on 12/06/2013 by:

Question about
your data?

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: FSI
WorkOrder: 1311900

<u>Glossary Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Quality Control Qualifier

F2 LCS recovery for this compound is outside of acceptance limits.



Analytical Report

Client: AEI Consultants
Project: FSI
Date Received: 11/25/13 19:03
Date Prepared: 12/6/13

WorkOrder: 1311900
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Helium

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SV-4	1311900-001A	Soil Gas/DISS.	11/25/2013 09:14	GC26	84804

Initial Pressure (psia) **Final Pressure (psia)**

12.00	23.92
-------	-------

Analytes	Result	RL	DF	Date Analyzed
Helium	0.051	0.0074	1.5	12/06/2013 12:41

SV-13	1311900-002A	Soil Gas/DISS.	11/25/2013 09:55	GC26	84804
-------	--------------	----------------	------------------	------	-------

Initial Pressure (psia) **Final Pressure (psia)**

11.66	23.22
-------	-------

Analytes	Result	RL	DF	Date Analyzed
Helium	1.6	0.0072	1.4	12/06/2013 12:54



Quality Control Report

Client: AEI Consultants
Date Prepared: 12/6/13
Date Analyzed: 12/6/13
Instrument: GC26
Matrix: Soilgas
Project: FSI

WorkOrder: 1311900
BatchID: 84804
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %
Sample ID: MB/LCS-84804

QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Helium	ND	0.01005	0.0050	0.010	-	100	60-140

1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1311900 **A** ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Jeremy Smith
 AEI Consultants
 2500 Camino Diablo, Ste.#200
 Walnut Creek, CA 94597
 (925) 283-6000 FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com
 cc:
 PO: #WC084484
 ProjectNo: FSI

Bill to:
 Sara Guerin
 AEI Consultants
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597
 AccountsPayable@AEIConsultants.co

Requested TAT: **5 days**
 Date Received: **11/25/2013**
 Date Add-On: **12/04/2013**
 Date Printed: **12/04/2013**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1311900-001	SV-4	Soil Gas	11/25/2013 9:14	<input type="checkbox"/>	A												
1311900-002	SV-13	Soil Gas	11/25/2013 9:55	<input type="checkbox"/>	A												

Test Legend:

1	HELIUM_LC_SOILGAS(%)	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Zoraida Cortez

Comments: He added 12/4/13 5d per email.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.

1311900

McCAMPBELL ANALYTICAL INC.
 1534 Willow Pass Road
 Pittsburg, CA 94565-1701
 www.main@mccampbell.com
 Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD
TURN AROUND TIME
 RUSH 24 HR 48 HR 72 HR 5 DAY
 EDF Required? No Yes

Report To: Jeremy Smith Bill To: PO# WC084484
 Company: AEI Consultants
 2500 Camino Diablo, Walnut Creek, California 94597
 E-Mail: jsmith@aeiconsultants.com
 Tele: (925) 746-6000 Fax: (925) 746-6099
 Project #: Project Name: FSI
 Project Location: 1630 Park St., Alameda, California

Lab Use Only			
Pressurized By	Date	Pressurization Gas	
		N2	He

Sampler Signature: *John Sigg*

Notes:

Field Sample ID (Location)	Collection		Canister SN#	Sampler Kit SN#
	Date	Time		
SV-4	11-25-13	0914	A7508	991
SV-13	11-25-13	0955	6171	1217

He added 12/4 to both samples

Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum			
			Initial	Final	Receipt	Final (psi)
TPH(g)/VOCs by TO-15, Fix Gas ASTM1946		X	29	5		
TPH(g)/VOCs by TO-15, Fix Gas ASTM1946		X	28	5		

Relinquished By: *John Sigg* Date: 11-25-13 Time: 1213 Received By: *[Signature]*

Temp (°C): _____ Work Order #: 1311900
 Condition: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Custody Seals Intact?: Yes _____ No _____ None _____
 Shipped Via: _____



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1311900

Project: FSI

Client Contact: Jeremy Smith

Date Received: 11/25/2013

Comments: He added 12/4/13 5d per email.

Contact's Email: jasmith@aeiconsultants.com

Date Add-On: 12/4/2013

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1311900-001A	SV-4	Soil Gas	ASTM D1946-90 (Helium)	1	1L Summa	11/25/2013 9:14	5 days		<input type="checkbox"/>	
1311900-002A	SV-13	Soil Gas	ASTM D1946-90 (Helium)	1	1L Summa	11/25/2013 9:55	5 days		<input type="checkbox"/>	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

1L Summa = 1L Summa Canister



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1310870

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jeremy Smith
Project P.O.: #WC084429
Project Name: #298931; FSI

Project Received: 10/25/2013

Analytical Report reviewed & approved for release on 11/06/2013 by:

Question about
your data?

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McC Campbell](#)

Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #298931; FSI
WorkOrder: 1310870

Glossary Abbreviation

Description

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Analytical Qualifier

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant

Quality Control Qualifier

F1	MS/MSD recovery was out of acceptance criteria; LCS validated the prep batch.
----	---



Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1	1310870-001B	Water	10/24/2013	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		20	2	10/28/2013 23:33
tert-Amyl methyl ether (TAME)	ND		1.0	2	10/28/2013 23:33
Benzene	39		1.0	2	10/28/2013 23:33
Bromobenzene	ND		1.0	2	10/28/2013 23:33
Bromochloromethane	ND		1.0	2	10/28/2013 23:33
Bromodichloromethane	ND		1.0	2	10/28/2013 23:33
Bromoform	ND		1.0	2	10/28/2013 23:33
Bromomethane	ND		1.0	2	10/28/2013 23:33
2-Butanone (MEK)	ND		4.0	2	10/28/2013 23:33
t-Butyl alcohol (TBA)	ND		4.0	2	10/28/2013 23:33
n-Butyl benzene	ND		1.0	2	10/28/2013 23:33
sec-Butyl benzene	1.3		1.0	2	10/28/2013 23:33
tert-Butyl benzene	ND		1.0	2	10/28/2013 23:33
Carbon Disulfide	ND		1.0	2	10/28/2013 23:33
Carbon Tetrachloride	ND		1.0	2	10/28/2013 23:33
Chlorobenzene	ND		1.0	2	10/28/2013 23:33
Chloroethane	ND		1.0	2	10/28/2013 23:33
Chloroform	ND		1.0	2	10/28/2013 23:33
Chloromethane	ND		1.0	2	10/28/2013 23:33
2-Chlorotoluene	ND		1.0	2	10/28/2013 23:33
4-Chlorotoluene	ND		1.0	2	10/28/2013 23:33
Dibromochloromethane	ND		1.0	2	10/28/2013 23:33
1,2-Dibromo-3-chloropropane	ND		0.40	2	10/28/2013 23:33
1,2-Dibromoethane (EDB)	ND		1.0	2	10/28/2013 23:33
Dibromomethane	ND		1.0	2	10/28/2013 23:33
1,2-Dichlorobenzene	ND		1.0	2	10/28/2013 23:33
1,3-Dichlorobenzene	ND		1.0	2	10/28/2013 23:33
1,4-Dichlorobenzene	ND		1.0	2	10/28/2013 23:33
Dichlorodifluoromethane	ND		1.0	2	10/28/2013 23:33
1,1-Dichloroethane	ND		1.0	2	10/28/2013 23:33
1,2-Dichloroethane (1,2-DCA)	ND		1.0	2	10/28/2013 23:33
1,1-Dichloroethene	ND		1.0	2	10/28/2013 23:33
cis-1,2-Dichloroethene	ND		1.0	2	10/28/2013 23:33
trans-1,2-Dichloroethene	ND		1.0	2	10/28/2013 23:33
1,2-Dichloropropane	ND		1.0	2	10/28/2013 23:33
1,3-Dichloropropane	ND		1.0	2	10/28/2013 23:33
2,2-Dichloropropane	ND		1.0	2	10/28/2013 23:33
1,1-Dichloropropene	ND		1.0	2	10/28/2013 23:33

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1	1310870-001B	Water	10/24/2013	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		1.0	2	10/28/2013 23:33
trans-1,3-Dichloropropene	ND		1.0	2	10/28/2013 23:33
Diisopropyl ether (DIPE)	ND		1.0	2	10/28/2013 23:33
Ethylbenzene	29		1.0	2	10/28/2013 23:33
Ethyl tert-butyl ether (ETBE)	ND		1.0	2	10/28/2013 23:33
Freon 113	ND		1.0	2	10/28/2013 23:33
Hexachlorobutadiene	ND		1.0	2	10/28/2013 23:33
Hexachloroethane	ND		1.0	2	10/28/2013 23:33
2-Hexanone	ND		1.0	2	10/28/2013 23:33
Isopropylbenzene	3.6		1.0	2	10/28/2013 23:33
4-Isopropyl toluene	ND		1.0	2	10/28/2013 23:33
Methyl-t-butyl ether (MTBE)	ND		1.0	2	10/28/2013 23:33
Methylene chloride	ND		1.0	2	10/28/2013 23:33
4-Methyl-2-pentanone (MIBK)	ND		1.0	2	10/28/2013 23:33
Naphthalene	19		1.0	2	10/28/2013 23:33
n-Propyl benzene	3.3		1.0	2	10/28/2013 23:33
Styrene	ND		1.0	2	10/28/2013 23:33
1,1,1,2-Tetrachloroethane	ND		1.0	2	10/28/2013 23:33
1,1,2,2-Tetrachloroethane	ND		1.0	2	10/28/2013 23:33
Tetrachloroethene	ND		1.0	2	10/28/2013 23:33
Toluene	ND		1.0	2	10/28/2013 23:33
1,2,3-Trichlorobenzene	ND		1.0	2	10/28/2013 23:33
1,2,4-Trichlorobenzene	ND		1.0	2	10/28/2013 23:33
1,1,1-Trichloroethane	ND		1.0	2	10/28/2013 23:33
1,1,2-Trichloroethane	ND		1.0	2	10/28/2013 23:33
Trichloroethene	ND		1.0	2	10/28/2013 23:33
Trichlorofluoromethane	ND		1.0	2	10/28/2013 23:33
1,2,3-Trichloropropane	6.4		1.0	2	10/28/2013 23:33
1,2,4-Trimethylbenzene	29		1.0	2	10/28/2013 23:33
1,3,5-Trimethylbenzene	ND		1.0	2	10/28/2013 23:33
Vinyl Chloride	ND		1.0	2	10/28/2013 23:33
Xylenes, Total	5.2		1.0	2	10/28/2013 23:33
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	106		70-130		10/28/2013 23:33
Toluene-d8	97		70-130		10/28/2013 23:33
4-BFB	90		70-130		10/28/2013 23:33

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-2	1310870-002B	Water	10/24/2013 16:50	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	1	10/28/2013 12:41
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/28/2013 12:41
Benzene	5.0		0.50	1	10/28/2013 12:41
Bromobenzene	ND		0.50	1	10/28/2013 12:41
Bromochloromethane	ND		0.50	1	10/28/2013 12:41
Bromodichloromethane	ND		0.50	1	10/28/2013 12:41
Bromoform	ND		0.50	1	10/28/2013 12:41
Bromomethane	ND		0.50	1	10/28/2013 12:41
2-Butanone (MEK)	ND		2.0	1	10/28/2013 12:41
t-Butyl alcohol (TBA)	13		2.0	1	10/28/2013 12:41
n-Butyl benzene	1.7		0.50	1	10/28/2013 12:41
sec-Butyl benzene	2.4		0.50	1	10/28/2013 12:41
tert-Butyl benzene	ND		0.50	1	10/28/2013 12:41
Carbon Disulfide	ND		0.50	1	10/28/2013 12:41
Carbon Tetrachloride	ND		0.50	1	10/28/2013 12:41
Chlorobenzene	ND		0.50	1	10/28/2013 12:41
Chloroethane	ND		0.50	1	10/28/2013 12:41
Chloroform	ND		0.50	1	10/28/2013 12:41
Chloromethane	ND		0.50	1	10/28/2013 12:41
2-Chlorotoluene	ND		0.50	1	10/28/2013 12:41
4-Chlorotoluene	ND		0.50	1	10/28/2013 12:41
Dibromochloromethane	ND		0.50	1	10/28/2013 12:41
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/28/2013 12:41
1,2-Dibromoethane (EDB)	ND		0.50	1	10/28/2013 12:41
Dibromomethane	ND		0.50	1	10/28/2013 12:41
1,2-Dichlorobenzene	ND		0.50	1	10/28/2013 12:41
1,3-Dichlorobenzene	ND		0.50	1	10/28/2013 12:41
1,4-Dichlorobenzene	ND		0.50	1	10/28/2013 12:41
Dichlorodifluoromethane	ND		0.50	1	10/28/2013 12:41
1,1-Dichloroethane	ND		0.50	1	10/28/2013 12:41
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/28/2013 12:41
1,1-Dichloroethene	ND		0.50	1	10/28/2013 12:41
cis-1,2-Dichloroethene	ND		0.50	1	10/28/2013 12:41
trans-1,2-Dichloroethene	ND		0.50	1	10/28/2013 12:41
1,2-Dichloropropane	ND		0.50	1	10/28/2013 12:41
1,3-Dichloropropane	ND		0.50	1	10/28/2013 12:41
2,2-Dichloropropane	ND		0.50	1	10/28/2013 12:41
1,1-Dichloropropene	ND		0.50	1	10/28/2013 12:41

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-2	1310870-002B	Water	10/24/2013 16:50	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	1	10/28/2013 12:41
trans-1,3-Dichloropropene	ND		0.50	1	10/28/2013 12:41
Diisopropyl ether (DIPE)	ND		0.50	1	10/28/2013 12:41
Ethylbenzene	2.8		0.50	1	10/28/2013 12:41
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/28/2013 12:41
Freon 113	ND		0.50	1	10/28/2013 12:41
Hexachlorobutadiene	ND		0.50	1	10/28/2013 12:41
Hexachloroethane	ND		0.50	1	10/28/2013 12:41
2-Hexanone	ND		0.50	1	10/28/2013 12:41
Isopropylbenzene	1.1		0.50	1	10/28/2013 12:41
4-Isopropyl toluene	0.89		0.50	1	10/28/2013 12:41
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/28/2013 12:41
Methylene chloride	ND		0.50	1	10/28/2013 12:41
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/28/2013 12:41
Naphthalene	24		0.50	1	10/28/2013 12:41
n-Propyl benzene	0.75		0.50	1	10/28/2013 12:41
Styrene	ND		0.50	1	10/28/2013 12:41
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/28/2013 12:41
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/28/2013 12:41
Tetrachloroethene	ND		0.50	1	10/28/2013 12:41
Toluene	ND		0.50	1	10/28/2013 12:41
1,2,3-Trichlorobenzene	ND		0.50	1	10/28/2013 12:41
1,2,4-Trichlorobenzene	ND		0.50	1	10/28/2013 12:41
1,1,1-Trichloroethane	ND		0.50	1	10/28/2013 12:41
1,1,2-Trichloroethane	ND		0.50	1	10/28/2013 12:41
Trichloroethene	5.5		0.50	1	10/28/2013 12:41
Trichlorofluoromethane	ND		0.50	1	10/28/2013 12:41
1,2,3-Trichloropropane	1.9		0.50	1	10/28/2013 12:41
1,2,4-Trimethylbenzene	4.6		0.50	1	10/28/2013 12:41
1,3,5-Trimethylbenzene	1.7		0.50	1	10/28/2013 12:41
Vinyl Chloride	ND		0.50	1	10/28/2013 12:41
Xylenes, Total	1.3		0.50	1	10/28/2013 12:41
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	104		70-130		10/28/2013 12:41
Toluene-d8	98		70-130		10/28/2013 12:41
4-BFB	89		70-130		10/28/2013 12:41

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Analytical Report

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Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-3	1310870-003B	Water	10/24/2013 14:05	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		25	2.5	10/29/2013 00:49
tert-Amyl methyl ether (TAME)	ND		1.2	2.5	10/29/2013 00:49
Benzene	4.2		1.2	2.5	10/29/2013 00:49
Bromobenzene	ND		1.2	2.5	10/29/2013 00:49
Bromochloromethane	ND		1.2	2.5	10/29/2013 00:49
Bromodichloromethane	ND		1.2	2.5	10/29/2013 00:49
Bromoform	ND		1.2	2.5	10/29/2013 00:49
Bromomethane	ND		1.2	2.5	10/29/2013 00:49
2-Butanone (MEK)	ND		5.0	2.5	10/29/2013 00:49
t-Butyl alcohol (TBA)	5.9		5.0	2.5	10/29/2013 00:49
n-Butyl benzene	ND		1.2	2.5	10/29/2013 00:49
sec-Butyl benzene	ND		1.2	2.5	10/29/2013 00:49
tert-Butyl benzene	ND		1.2	2.5	10/29/2013 00:49
Carbon Disulfide	ND		1.2	2.5	10/29/2013 00:49
Carbon Tetrachloride	ND		1.2	2.5	10/29/2013 00:49
Chlorobenzene	ND		1.2	2.5	10/29/2013 00:49
Chloroethane	ND		1.2	2.5	10/29/2013 00:49
Chloroform	ND		1.2	2.5	10/29/2013 00:49
Chloromethane	ND		1.2	2.5	10/29/2013 00:49
2-Chlorotoluene	ND		1.2	2.5	10/29/2013 00:49
4-Chlorotoluene	ND		1.2	2.5	10/29/2013 00:49
Dibromochloromethane	ND		1.2	2.5	10/29/2013 00:49
1,2-Dibromo-3-chloropropane	ND		0.50	2.5	10/29/2013 00:49
1,2-Dibromoethane (EDB)	ND		1.2	2.5	10/29/2013 00:49
Dibromomethane	ND		1.2	2.5	10/29/2013 00:49
1,2-Dichlorobenzene	ND		1.2	2.5	10/29/2013 00:49
1,3-Dichlorobenzene	ND		1.2	2.5	10/29/2013 00:49
1,4-Dichlorobenzene	ND		1.2	2.5	10/29/2013 00:49
Dichlorodifluoromethane	ND		1.2	2.5	10/29/2013 00:49
1,1-Dichloroethane	ND		1.2	2.5	10/29/2013 00:49
1,2-Dichloroethane (1,2-DCA)	ND		1.2	2.5	10/29/2013 00:49
1,1-Dichloroethene	ND		1.2	2.5	10/29/2013 00:49
cis-1,2-Dichloroethene	1.3		1.2	2.5	10/29/2013 00:49
trans-1,2-Dichloroethene	ND		1.2	2.5	10/29/2013 00:49
1,2-Dichloropropane	ND		1.2	2.5	10/29/2013 00:49
1,3-Dichloropropane	ND		1.2	2.5	10/29/2013 00:49
2,2-Dichloropropane	ND		1.2	2.5	10/29/2013 00:49
1,1-Dichloropropene	ND		1.2	2.5	10/29/2013 00:49

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-3	1310870-003B	Water	10/24/2013 14:05	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		1.2	2.5	10/29/2013 00:49
trans-1,3-Dichloropropene	ND		1.2	2.5	10/29/2013 00:49
Diisopropyl ether (DIPE)	ND		1.2	2.5	10/29/2013 00:49
Ethylbenzene	ND		1.2	2.5	10/29/2013 00:49
Ethyl tert-butyl ether (ETBE)	ND		1.2	2.5	10/29/2013 00:49
Freon 113	ND		1.2	2.5	10/29/2013 00:49
Hexachlorobutadiene	ND		1.2	2.5	10/29/2013 00:49
Hexachloroethane	ND		1.2	2.5	10/29/2013 00:49
2-Hexanone	ND		1.2	2.5	10/29/2013 00:49
Isopropylbenzene	ND		1.2	2.5	10/29/2013 00:49
4-Isopropyl toluene	ND		1.2	2.5	10/29/2013 00:49
Methyl-t-butyl ether (MTBE)	ND		1.2	2.5	10/29/2013 00:49
Methylene chloride	ND		1.2	2.5	10/29/2013 00:49
4-Methyl-2-pentanone (MIBK)	ND		1.2	2.5	10/29/2013 00:49
Naphthalene	24		1.2	2.5	10/29/2013 00:49
n-Propyl benzene	ND		1.2	2.5	10/29/2013 00:49
Styrene	ND		1.2	2.5	10/29/2013 00:49
1,1,1,2-Tetrachloroethane	ND		1.2	2.5	10/29/2013 00:49
1,1,2,2-Tetrachloroethane	ND		1.2	2.5	10/29/2013 00:49
Tetrachloroethene	ND		1.2	2.5	10/29/2013 00:49
Toluene	ND		1.2	2.5	10/29/2013 00:49
1,2,3-Trichlorobenzene	ND		1.2	2.5	10/29/2013 00:49
1,2,4-Trichlorobenzene	ND		1.2	2.5	10/29/2013 00:49
1,1,1-Trichloroethane	ND		1.2	2.5	10/29/2013 00:49
1,1,2-Trichloroethane	ND		1.2	2.5	10/29/2013 00:49
Trichloroethene	64		1.2	2.5	10/29/2013 00:49
Trichlorofluoromethane	ND		1.2	2.5	10/29/2013 00:49
1,2,3-Trichloropropane	ND		1.2	2.5	10/29/2013 00:49
1,2,4-Trimethylbenzene	1.4		1.2	2.5	10/29/2013 00:49
1,3,5-Trimethylbenzene	ND		1.2	2.5	10/29/2013 00:49
Vinyl Chloride	ND		1.2	2.5	10/29/2013 00:49
Xylenes, Total	ND		1.2	2.5	10/29/2013 00:49
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	106		70-130		10/29/2013 00:49
Toluene-d8	99		70-130		10/29/2013 00:49
4-BFB	93		70-130		10/29/2013 00:49

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-4	1310870-004B	Water	10/24/2013 10:14	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	1	10/29/2013 12:55
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/29/2013 12:55
Benzene	ND		0.50	1	10/29/2013 12:55
Bromobenzene	ND		0.50	1	10/29/2013 12:55
Bromochloromethane	ND		0.50	1	10/29/2013 12:55
Bromodichloromethane	ND		0.50	1	10/29/2013 12:55
Bromoform	ND		0.50	1	10/29/2013 12:55
Bromomethane	ND		0.50	1	10/29/2013 12:55
2-Butanone (MEK)	ND		2.0	1	10/29/2013 12:55
t-Butyl alcohol (TBA)	ND		2.0	1	10/29/2013 12:55
n-Butyl benzene	ND		0.50	1	10/29/2013 12:55
sec-Butyl benzene	ND		0.50	1	10/29/2013 12:55
tert-Butyl benzene	ND		0.50	1	10/29/2013 12:55
Carbon Disulfide	ND		0.50	1	10/29/2013 12:55
Carbon Tetrachloride	ND		0.50	1	10/29/2013 12:55
Chlorobenzene	ND		0.50	1	10/29/2013 12:55
Chloroethane	ND		0.50	1	10/29/2013 12:55
Chloroform	9.8		0.50	1	10/29/2013 12:55
Chloromethane	ND		0.50	1	10/29/2013 12:55
2-Chlorotoluene	ND		0.50	1	10/29/2013 12:55
4-Chlorotoluene	ND		0.50	1	10/29/2013 12:55
Dibromochloromethane	ND		0.50	1	10/29/2013 12:55
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/29/2013 12:55
1,2-Dibromoethane (EDB)	ND		0.50	1	10/29/2013 12:55
Dibromomethane	ND		0.50	1	10/29/2013 12:55
1,2-Dichlorobenzene	ND		0.50	1	10/29/2013 12:55
1,3-Dichlorobenzene	ND		0.50	1	10/29/2013 12:55
1,4-Dichlorobenzene	ND		0.50	1	10/29/2013 12:55
Dichlorodifluoromethane	ND		0.50	1	10/29/2013 12:55
1,1-Dichloroethane	ND		0.50	1	10/29/2013 12:55
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/29/2013 12:55
1,1-Dichloroethene	ND		0.50	1	10/29/2013 12:55
cis-1,2-Dichloroethene	ND		0.50	1	10/29/2013 12:55
trans-1,2-Dichloroethene	ND		0.50	1	10/29/2013 12:55
1,2-Dichloropropane	ND		0.50	1	10/29/2013 12:55
1,3-Dichloropropane	ND		0.50	1	10/29/2013 12:55
2,2-Dichloropropane	ND		0.50	1	10/29/2013 12:55
1,1-Dichloropropene	ND		0.50	1	10/29/2013 12:55

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-4	1310870-004B	Water	10/24/2013 10:14	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	1	10/29/2013 12:55
trans-1,3-Dichloropropene	ND		0.50	1	10/29/2013 12:55
Diisopropyl ether (DIPE)	ND		0.50	1	10/29/2013 12:55
Ethylbenzene	ND		0.50	1	10/29/2013 12:55
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/29/2013 12:55
Freon 113	ND		0.50	1	10/29/2013 12:55
Hexachlorobutadiene	ND		0.50	1	10/29/2013 12:55
Hexachloroethane	ND		0.50	1	10/29/2013 12:55
2-Hexanone	ND		0.50	1	10/29/2013 12:55
Isopropylbenzene	ND		0.50	1	10/29/2013 12:55
4-Isopropyl toluene	ND		0.50	1	10/29/2013 12:55
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/29/2013 12:55
Methylene chloride	ND		0.50	1	10/29/2013 12:55
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/29/2013 12:55
Naphthalene	ND		0.50	1	10/29/2013 12:55
n-Propyl benzene	ND		0.50	1	10/29/2013 12:55
Styrene	ND		0.50	1	10/29/2013 12:55
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/29/2013 12:55
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/29/2013 12:55
Tetrachloroethene	13		0.50	1	10/29/2013 12:55
Toluene	ND		0.50	1	10/29/2013 12:55
1,2,3-Trichlorobenzene	ND		0.50	1	10/29/2013 12:55
1,2,4-Trichlorobenzene	ND		0.50	1	10/29/2013 12:55
1,1,1-Trichloroethane	ND		0.50	1	10/29/2013 12:55
1,1,2-Trichloroethane	ND		0.50	1	10/29/2013 12:55
Trichloroethene	18		0.50	1	10/29/2013 12:55
Trichlorofluoromethane	ND		0.50	1	10/29/2013 12:55
1,2,3-Trichloropropane	ND		0.50	1	10/29/2013 12:55
1,2,4-Trimethylbenzene	ND		0.50	1	10/29/2013 12:55
1,3,5-Trimethylbenzene	ND		0.50	1	10/29/2013 12:55
Vinyl Chloride	ND		0.50	1	10/29/2013 12:55
Xylenes, Total	ND		0.50	1	10/29/2013 12:55
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	105		70-130		10/29/2013 12:55
Toluene-d8	100		70-130		10/29/2013 12:55
4-BFB	94		70-130		10/29/2013 12:55

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-5	1310870-005B	Water	10/24/2013 10:59	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	1	10/29/2013 13:33
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/29/2013 13:33
Benzene	5.2		0.50	1	10/29/2013 13:33
Bromobenzene	ND		0.50	1	10/29/2013 13:33
Bromochloromethane	ND		0.50	1	10/29/2013 13:33
Bromodichloromethane	ND		0.50	1	10/29/2013 13:33
Bromoform	ND		0.50	1	10/29/2013 13:33
Bromomethane	ND		0.50	1	10/29/2013 13:33
2-Butanone (MEK)	ND		2.0	1	10/29/2013 13:33
t-Butyl alcohol (TBA)	ND		2.0	1	10/29/2013 13:33
n-Butyl benzene	ND		0.50	1	10/29/2013 13:33
sec-Butyl benzene	ND		0.50	1	10/29/2013 13:33
tert-Butyl benzene	ND		0.50	1	10/29/2013 13:33
Carbon Disulfide	ND		0.50	1	10/29/2013 13:33
Carbon Tetrachloride	ND		0.50	1	10/29/2013 13:33
Chlorobenzene	ND		0.50	1	10/29/2013 13:33
Chloroethane	ND		0.50	1	10/29/2013 13:33
Chloroform	ND		0.50	1	10/29/2013 13:33
Chloromethane	ND		0.50	1	10/29/2013 13:33
2-Chlorotoluene	ND		0.50	1	10/29/2013 13:33
4-Chlorotoluene	ND		0.50	1	10/29/2013 13:33
Dibromochloromethane	ND		0.50	1	10/29/2013 13:33
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/29/2013 13:33
1,2-Dibromoethane (EDB)	ND		0.50	1	10/29/2013 13:33
Dibromomethane	ND		0.50	1	10/29/2013 13:33
1,2-Dichlorobenzene	ND		0.50	1	10/29/2013 13:33
1,3-Dichlorobenzene	ND		0.50	1	10/29/2013 13:33
1,4-Dichlorobenzene	ND		0.50	1	10/29/2013 13:33
Dichlorodifluoromethane	ND		0.50	1	10/29/2013 13:33
1,1-Dichloroethane	ND		0.50	1	10/29/2013 13:33
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/29/2013 13:33
1,1-Dichloroethene	ND		0.50	1	10/29/2013 13:33
cis-1,2-Dichloroethene	0.59		0.50	1	10/29/2013 13:33
trans-1,2-Dichloroethene	ND		0.50	1	10/29/2013 13:33
1,2-Dichloropropane	ND		0.50	1	10/29/2013 13:33
1,3-Dichloropropane	ND		0.50	1	10/29/2013 13:33
2,2-Dichloropropane	ND		0.50	1	10/29/2013 13:33
1,1-Dichloropropene	ND		0.50	1	10/29/2013 13:33

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-5	1310870-005B	Water	10/24/2013 10:59	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	1	10/29/2013 13:33
trans-1,3-Dichloropropene	ND		0.50	1	10/29/2013 13:33
Diisopropyl ether (DIPE)	ND		0.50	1	10/29/2013 13:33
Ethylbenzene	0.73		0.50	1	10/29/2013 13:33
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/29/2013 13:33
Freon 113	ND		0.50	1	10/29/2013 13:33
Hexachlorobutadiene	ND		0.50	1	10/29/2013 13:33
Hexachloroethane	ND		0.50	1	10/29/2013 13:33
2-Hexanone	ND		0.50	1	10/29/2013 13:33
Isopropylbenzene	ND		0.50	1	10/29/2013 13:33
4-Isopropyl toluene	ND		0.50	1	10/29/2013 13:33
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/29/2013 13:33
Methylene chloride	ND		0.50	1	10/29/2013 13:33
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/29/2013 13:33
Naphthalene	1.3		0.50	1	10/29/2013 13:33
n-Propyl benzene	ND		0.50	1	10/29/2013 13:33
Styrene	ND		0.50	1	10/29/2013 13:33
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/29/2013 13:33
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/29/2013 13:33
Tetrachloroethene	6.7		0.50	1	10/29/2013 13:33
Toluene	ND		0.50	1	10/29/2013 13:33
1,2,3-Trichlorobenzene	ND		0.50	1	10/29/2013 13:33
1,2,4-Trichlorobenzene	ND		0.50	1	10/29/2013 13:33
1,1,1-Trichloroethane	ND		0.50	1	10/29/2013 13:33
1,1,2-Trichloroethane	ND		0.50	1	10/29/2013 13:33
Trichloroethene	16		0.50	1	10/29/2013 13:33
Trichlorofluoromethane	ND		0.50	1	10/29/2013 13:33
1,2,3-Trichloropropane	ND		0.50	1	10/29/2013 13:33
1,2,4-Trimethylbenzene	8.0		0.50	1	10/29/2013 13:33
1,3,5-Trimethylbenzene	ND		0.50	1	10/29/2013 13:33
Vinyl Chloride	ND		0.50	1	10/29/2013 13:33
Xylenes, Total	1.9		0.50	1	10/29/2013 13:33
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	104		70-130		10/29/2013 13:33
Toluene-d8	99		70-130		10/29/2013 13:33
4-BFB	96		70-130		10/29/2013 13:33

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Analytical Report

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WorkOrder: 1310870

Project: #298931; FSI

Extraction Method: SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-1	1310870-006B	Water	10/24/2013 15:00	GC18	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	1	10/29/2013 17:04
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/29/2013 17:04
Benzene	6.1		0.50	1	10/29/2013 17:04
Bromobenzene	ND		0.50	1	10/29/2013 17:04
Bromochloromethane	ND		0.50	1	10/29/2013 17:04
Bromodichloromethane	ND		0.50	1	10/29/2013 17:04
Bromoform	ND		0.50	1	10/29/2013 17:04
Bromomethane	ND		0.50	1	10/29/2013 17:04
2-Butanone (MEK)	ND		2.0	1	10/29/2013 17:04
t-Butyl alcohol (TBA)	9.5		2.0	1	10/29/2013 17:04
n-Butyl benzene	ND		0.50	1	10/29/2013 17:04
sec-Butyl benzene	1.9		0.50	1	10/29/2013 17:04
tert-Butyl benzene	ND		0.50	1	10/29/2013 17:04
Carbon Disulfide	ND		0.50	1	10/29/2013 17:04
Carbon Tetrachloride	ND		0.50	1	10/29/2013 17:04
Chlorobenzene	ND		0.50	1	10/29/2013 17:04
Chloroethane	ND		0.50	1	10/29/2013 17:04
Chloroform	ND		0.50	1	10/29/2013 17:04
Chloromethane	ND		0.50	1	10/29/2013 17:04
2-Chlorotoluene	ND		0.50	1	10/29/2013 17:04
4-Chlorotoluene	ND		0.50	1	10/29/2013 17:04
Dibromochloromethane	ND		0.50	1	10/29/2013 17:04
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/29/2013 17:04
1,2-Dibromoethane (EDB)	ND		0.50	1	10/29/2013 17:04
Dibromomethane	ND		0.50	1	10/29/2013 17:04
1,2-Dichlorobenzene	ND		0.50	1	10/29/2013 17:04
1,3-Dichlorobenzene	ND		0.50	1	10/29/2013 17:04
1,4-Dichlorobenzene	ND		0.50	1	10/29/2013 17:04
Dichlorodifluoromethane	ND		0.50	1	10/29/2013 17:04
1,1-Dichloroethane	ND		0.50	1	10/29/2013 17:04
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/29/2013 17:04
1,1-Dichloroethene	ND		0.50	1	10/29/2013 17:04
cis-1,2-Dichloroethene	ND		0.50	1	10/29/2013 17:04
trans-1,2-Dichloroethene	ND		0.50	1	10/29/2013 17:04
1,2-Dichloropropane	ND		0.50	1	10/29/2013 17:04
1,3-Dichloropropane	ND		0.50	1	10/29/2013 17:04
2,2-Dichloropropane	ND		0.50	1	10/29/2013 17:04
1,1-Dichloropropene	ND		0.50	1	10/29/2013 17:04

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Analytical Report

Client: AEI Consultants

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Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-1	1310870-006B	Water	10/24/2013 15:00	GC18	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	1	10/29/2013 17:04
trans-1,3-Dichloropropene	ND		0.50	1	10/29/2013 17:04
Diisopropyl ether (DIPE)	ND		0.50	1	10/29/2013 17:04
Ethylbenzene	3.6		0.50	1	10/29/2013 17:04
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/29/2013 17:04
Freon 113	ND		0.50	1	10/29/2013 17:04
Hexachlorobutadiene	ND		0.50	1	10/29/2013 17:04
Hexachloroethane	ND		0.50	1	10/29/2013 17:04
2-Hexanone	ND		0.50	1	10/29/2013 17:04
Isopropylbenzene	3.5		0.50	1	10/29/2013 17:04
4-Isopropyl toluene	1.4		0.50	1	10/29/2013 17:04
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/29/2013 17:04
Methylene chloride	ND		0.50	1	10/29/2013 17:04
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/29/2013 17:04
Naphthalene	ND		0.50	1	10/29/2013 17:04
n-Propyl benzene	4.2		0.50	1	10/29/2013 17:04
Styrene	ND		0.50	1	10/29/2013 17:04
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/29/2013 17:04
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/29/2013 17:04
Tetrachloroethene	ND		0.50	1	10/29/2013 17:04
Toluene	0.78		0.50	1	10/29/2013 17:04
1,2,3-Trichlorobenzene	ND		0.50	1	10/29/2013 17:04
1,2,4-Trichlorobenzene	ND		0.50	1	10/29/2013 17:04
1,1,1-Trichloroethane	ND		0.50	1	10/29/2013 17:04
1,1,2-Trichloroethane	ND		0.50	1	10/29/2013 17:04
Trichloroethene	ND		0.50	1	10/29/2013 17:04
Trichlorofluoromethane	ND		0.50	1	10/29/2013 17:04
1,2,3-Trichloropropane	ND		0.50	1	10/29/2013 17:04
1,2,4-Trimethylbenzene	14		0.50	1	10/29/2013 17:04
1,3,5-Trimethylbenzene	ND		0.50	1	10/29/2013 17:04
Vinyl Chloride	ND		0.50	1	10/29/2013 17:04
Xylenes, Total	3.5		0.50	1	10/29/2013 17:04
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	100		70-130		10/29/2013 17:04
Toluene-d8	95		70-130		10/29/2013 17:04
4-BFB	92		70-130		10/29/2013 17:04

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Analytical Report

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Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-4	1310870-007B	Water	10/24/2013 14:30	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	1	10/29/2013 22:29
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/29/2013 22:29
Benzene	4.4		0.50	1	10/29/2013 22:29
Bromobenzene	ND		0.50	1	10/29/2013 22:29
Bromochloromethane	ND		0.50	1	10/29/2013 22:29
Bromodichloromethane	ND		0.50	1	10/29/2013 22:29
Bromoform	ND		0.50	1	10/29/2013 22:29
Bromomethane	ND		0.50	1	10/29/2013 22:29
2-Butanone (MEK)	ND		2.0	1	10/29/2013 22:29
t-Butyl alcohol (TBA)	16		2.0	1	10/29/2013 22:29
n-Butyl benzene	ND		0.50	1	10/29/2013 22:29
sec-Butyl benzene	2.1		0.50	1	10/29/2013 22:29
tert-Butyl benzene	ND		0.50	1	10/29/2013 22:29
Carbon Disulfide	ND		0.50	1	10/29/2013 22:29
Carbon Tetrachloride	ND		0.50	1	10/29/2013 22:29
Chlorobenzene	ND		0.50	1	10/29/2013 22:29
Chloroethane	ND		0.50	1	10/29/2013 22:29
Chloroform	ND		0.50	1	10/29/2013 22:29
Chloromethane	ND		0.50	1	10/29/2013 22:29
2-Chlorotoluene	ND		0.50	1	10/29/2013 22:29
4-Chlorotoluene	ND		0.50	1	10/29/2013 22:29
Dibromochloromethane	ND		0.50	1	10/29/2013 22:29
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/29/2013 22:29
1,2-Dibromoethane (EDB)	ND		0.50	1	10/29/2013 22:29
Dibromomethane	ND		0.50	1	10/29/2013 22:29
1,2-Dichlorobenzene	ND		0.50	1	10/29/2013 22:29
1,3-Dichlorobenzene	ND		0.50	1	10/29/2013 22:29
1,4-Dichlorobenzene	ND		0.50	1	10/29/2013 22:29
Dichlorodifluoromethane	ND		0.50	1	10/29/2013 22:29
1,1-Dichloroethane	ND		0.50	1	10/29/2013 22:29
1,2-Dichloroethane (1,2-DCA)	4.1		0.50	1	10/29/2013 22:29
1,1-Dichloroethene	ND		0.50	1	10/29/2013 22:29
cis-1,2-Dichloroethene	ND		0.50	1	10/29/2013 22:29
trans-1,2-Dichloroethene	ND		0.50	1	10/29/2013 22:29
1,2-Dichloropropane	ND		0.50	1	10/29/2013 22:29
1,3-Dichloropropane	ND		0.50	1	10/29/2013 22:29
2,2-Dichloropropane	ND		0.50	1	10/29/2013 22:29
1,1-Dichloropropene	ND		0.50	1	10/29/2013 22:29

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Analytical Report

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Date Received: 10/25/13 19:38

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Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-4	1310870-007B	Water	10/24/2013 14:30	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	1	10/29/2013 22:29
trans-1,3-Dichloropropene	ND		0.50	1	10/29/2013 22:29
Diisopropyl ether (DIPE)	ND		0.50	1	10/29/2013 22:29
Ethylbenzene	ND		0.50	1	10/29/2013 22:29
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/29/2013 22:29
Freon 113	ND		0.50	1	10/29/2013 22:29
Hexachlorobutadiene	ND		0.50	1	10/29/2013 22:29
Hexachloroethane	ND		0.50	1	10/29/2013 22:29
2-Hexanone	ND		0.50	1	10/29/2013 22:29
Isopropylbenzene	1.1		0.50	1	10/29/2013 22:29
4-Isopropyl toluene	0.60		0.50	1	10/29/2013 22:29
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/29/2013 22:29
Methylene chloride	ND		0.50	1	10/29/2013 22:29
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/29/2013 22:29
Naphthalene	ND		0.50	1	10/29/2013 22:29
n-Propyl benzene	ND		0.50	1	10/29/2013 22:29
Styrene	ND		0.50	1	10/29/2013 22:29
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/29/2013 22:29
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/29/2013 22:29
Tetrachloroethene	ND		0.50	1	10/29/2013 22:29
Toluene	ND		0.50	1	10/29/2013 22:29
1,2,3-Trichlorobenzene	ND		0.50	1	10/29/2013 22:29
1,2,4-Trichlorobenzene	ND		0.50	1	10/29/2013 22:29
1,1,1-Trichloroethane	ND		0.50	1	10/29/2013 22:29
1,1,2-Trichloroethane	ND		0.50	1	10/29/2013 22:29
Trichloroethene	1.7		0.50	1	10/29/2013 22:29
Trichlorofluoromethane	ND		0.50	1	10/29/2013 22:29
1,2,3-Trichloropropane	ND		0.50	1	10/29/2013 22:29
1,2,4-Trimethylbenzene	ND		0.50	1	10/29/2013 22:29
1,3,5-Trimethylbenzene	ND		0.50	1	10/29/2013 22:29
Vinyl Chloride	ND		0.50	1	10/29/2013 22:29
Xylenes, Total	0.53		0.50	1	10/29/2013 22:29
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	107		70-130		10/29/2013 22:29
Toluene-d8	97		70-130		10/29/2013 22:29
4-BFB	96		70-130		10/29/2013 22:29

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Analytical Report

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Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-6	1310870-008B	Water	10/24/2013 15:30	GC18	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	1	10/29/2013 15:08
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/29/2013 15:08
Benzene	ND		0.50	1	10/29/2013 15:08
Bromobenzene	ND		0.50	1	10/29/2013 15:08
Bromochloromethane	ND		0.50	1	10/29/2013 15:08
Bromodichloromethane	ND		0.50	1	10/29/2013 15:08
Bromoform	ND		0.50	1	10/29/2013 15:08
Bromomethane	ND		0.50	1	10/29/2013 15:08
2-Butanone (MEK)	ND		2.0	1	10/29/2013 15:08
t-Butyl alcohol (TBA)	ND		2.0	1	10/29/2013 15:08
n-Butyl benzene	ND		0.50	1	10/29/2013 15:08
sec-Butyl benzene	ND		0.50	1	10/29/2013 15:08
tert-Butyl benzene	ND		0.50	1	10/29/2013 15:08
Carbon Disulfide	ND		0.50	1	10/29/2013 15:08
Carbon Tetrachloride	ND		0.50	1	10/29/2013 15:08
Chlorobenzene	ND		0.50	1	10/29/2013 15:08
Chloroethane	ND		0.50	1	10/29/2013 15:08
Chloroform	ND		0.50	1	10/29/2013 15:08
Chloromethane	ND		0.50	1	10/29/2013 15:08
2-Chlorotoluene	ND		0.50	1	10/29/2013 15:08
4-Chlorotoluene	ND		0.50	1	10/29/2013 15:08
Dibromochloromethane	ND		0.50	1	10/29/2013 15:08
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/29/2013 15:08
1,2-Dibromoethane (EDB)	ND		0.50	1	10/29/2013 15:08
Dibromomethane	ND		0.50	1	10/29/2013 15:08
1,2-Dichlorobenzene	ND		0.50	1	10/29/2013 15:08
1,3-Dichlorobenzene	ND		0.50	1	10/29/2013 15:08
1,4-Dichlorobenzene	ND		0.50	1	10/29/2013 15:08
Dichlorodifluoromethane	ND		0.50	1	10/29/2013 15:08
1,1-Dichloroethane	0.77		0.50	1	10/29/2013 15:08
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/29/2013 15:08
1,1-Dichloroethene	ND		0.50	1	10/29/2013 15:08
cis-1,2-Dichloroethene	0.73		0.50	1	10/29/2013 15:08
trans-1,2-Dichloroethene	ND		0.50	1	10/29/2013 15:08
1,2-Dichloropropane	ND		0.50	1	10/29/2013 15:08
1,3-Dichloropropane	ND		0.50	1	10/29/2013 15:08
2,2-Dichloropropane	ND		0.50	1	10/29/2013 15:08
1,1-Dichloropropene	ND		0.50	1	10/29/2013 15:08

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-6	1310870-008B	Water	10/24/2013 15:30	GC18	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	1	10/29/2013 15:08
trans-1,3-Dichloropropene	ND		0.50	1	10/29/2013 15:08
Diisopropyl ether (DIPE)	ND		0.50	1	10/29/2013 15:08
Ethylbenzene	ND		0.50	1	10/29/2013 15:08
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/29/2013 15:08
Freon 113	ND		0.50	1	10/29/2013 15:08
Hexachlorobutadiene	ND		0.50	1	10/29/2013 15:08
Hexachloroethane	ND		0.50	1	10/29/2013 15:08
2-Hexanone	ND		0.50	1	10/29/2013 15:08
Isopropylbenzene	ND		0.50	1	10/29/2013 15:08
4-Isopropyl toluene	ND		0.50	1	10/29/2013 15:08
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/29/2013 15:08
Methylene chloride	ND		0.50	1	10/29/2013 15:08
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/29/2013 15:08
Naphthalene	ND		0.50	1	10/29/2013 15:08
n-Propyl benzene	ND		0.50	1	10/29/2013 15:08
Styrene	ND		0.50	1	10/29/2013 15:08
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/29/2013 15:08
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/29/2013 15:08
Tetrachloroethene	1.3		0.50	1	10/29/2013 15:08
Toluene	ND		0.50	1	10/29/2013 15:08
1,2,3-Trichlorobenzene	ND		0.50	1	10/29/2013 15:08
1,2,4-Trichlorobenzene	ND		0.50	1	10/29/2013 15:08
1,1,1-Trichloroethane	ND		0.50	1	10/29/2013 15:08
1,1,2-Trichloroethane	ND		0.50	1	10/29/2013 15:08
Trichloroethene	2.5		0.50	1	10/29/2013 15:08
Trichlorofluoromethane	ND		0.50	1	10/29/2013 15:08
1,2,3-Trichloropropane	ND		0.50	1	10/29/2013 15:08
1,2,4-Trimethylbenzene	ND		0.50	1	10/29/2013 15:08
1,3,5-Trimethylbenzene	ND		0.50	1	10/29/2013 15:08
Vinyl Chloride	ND		0.50	1	10/29/2013 15:08
Xylenes, Total	ND		0.50	1	10/29/2013 15:08
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	102		70-130		10/29/2013 15:08
Toluene-d8	96		70-130		10/29/2013 15:08
4-BFB	97		70-130		10/29/2013 15:08

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method: SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-8	1310870-009B	Water	10/24/2013 16:25	GC18	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	1	10/29/2013 15:47
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/29/2013 15:47
Benzene	ND		0.50	1	10/29/2013 15:47
Bromobenzene	ND		0.50	1	10/29/2013 15:47
Bromochloromethane	ND		0.50	1	10/29/2013 15:47
Bromodichloromethane	ND		0.50	1	10/29/2013 15:47
Bromoform	ND		0.50	1	10/29/2013 15:47
Bromomethane	ND		0.50	1	10/29/2013 15:47
2-Butanone (MEK)	ND		2.0	1	10/29/2013 15:47
t-Butyl alcohol (TBA)	ND		2.0	1	10/29/2013 15:47
n-Butyl benzene	ND		0.50	1	10/29/2013 15:47
sec-Butyl benzene	0.90		0.50	1	10/29/2013 15:47
tert-Butyl benzene	ND		0.50	1	10/29/2013 15:47
Carbon Disulfide	ND		0.50	1	10/29/2013 15:47
Carbon Tetrachloride	ND		0.50	1	10/29/2013 15:47
Chlorobenzene	ND		0.50	1	10/29/2013 15:47
Chloroethane	ND		0.50	1	10/29/2013 15:47
Chloroform	ND		0.50	1	10/29/2013 15:47
Chloromethane	ND		0.50	1	10/29/2013 15:47
2-Chlorotoluene	ND		0.50	1	10/29/2013 15:47
4-Chlorotoluene	ND		0.50	1	10/29/2013 15:47
Dibromochloromethane	ND		0.50	1	10/29/2013 15:47
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/29/2013 15:47
1,2-Dibromoethane (EDB)	ND		0.50	1	10/29/2013 15:47
Dibromomethane	ND		0.50	1	10/29/2013 15:47
1,2-Dichlorobenzene	ND		0.50	1	10/29/2013 15:47
1,3-Dichlorobenzene	ND		0.50	1	10/29/2013 15:47
1,4-Dichlorobenzene	ND		0.50	1	10/29/2013 15:47
Dichlorodifluoromethane	ND		0.50	1	10/29/2013 15:47
1,1-Dichloroethane	ND		0.50	1	10/29/2013 15:47
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/29/2013 15:47
1,1-Dichloroethene	ND		0.50	1	10/29/2013 15:47
cis-1,2-Dichloroethene	ND		0.50	1	10/29/2013 15:47
trans-1,2-Dichloroethene	ND		0.50	1	10/29/2013 15:47
1,2-Dichloropropane	ND		0.50	1	10/29/2013 15:47
1,3-Dichloropropane	ND		0.50	1	10/29/2013 15:47
2,2-Dichloropropane	ND		0.50	1	10/29/2013 15:47
1,1-Dichloropropene	ND		0.50	1	10/29/2013 15:47

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method: SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-8	1310870-009B	Water	10/24/2013 16:25	GC18	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	1	10/29/2013 15:47
trans-1,3-Dichloropropene	ND		0.50	1	10/29/2013 15:47
Diisopropyl ether (DIPE)	ND		0.50	1	10/29/2013 15:47
Ethylbenzene	ND		0.50	1	10/29/2013 15:47
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/29/2013 15:47
Freon 113	ND		0.50	1	10/29/2013 15:47
Hexachlorobutadiene	ND		0.50	1	10/29/2013 15:47
Hexachloroethane	ND		0.50	1	10/29/2013 15:47
2-Hexanone	ND		0.50	1	10/29/2013 15:47
Isopropylbenzene	ND		0.50	1	10/29/2013 15:47
4-Isopropyl toluene	ND		0.50	1	10/29/2013 15:47
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/29/2013 15:47
Methylene chloride	ND		0.50	1	10/29/2013 15:47
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/29/2013 15:47
Naphthalene	ND		0.50	1	10/29/2013 15:47
n-Propyl benzene	ND		0.50	1	10/29/2013 15:47
Styrene	ND		0.50	1	10/29/2013 15:47
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/29/2013 15:47
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/29/2013 15:47
Tetrachloroethene	ND		0.50	1	10/29/2013 15:47
Toluene	ND		0.50	1	10/29/2013 15:47
1,2,3-Trichlorobenzene	ND		0.50	1	10/29/2013 15:47
1,2,4-Trichlorobenzene	ND		0.50	1	10/29/2013 15:47
1,1,1-Trichloroethane	ND		0.50	1	10/29/2013 15:47
1,1,2-Trichloroethane	ND		0.50	1	10/29/2013 15:47
Trichloroethene	0.67		0.50	1	10/29/2013 15:47
Trichlorofluoromethane	ND		0.50	1	10/29/2013 15:47
1,2,3-Trichloropropane	3.4		0.50	1	10/29/2013 15:47
1,2,4-Trimethylbenzene	ND		0.50	1	10/29/2013 15:47
1,3,5-Trimethylbenzene	ND		0.50	1	10/29/2013 15:47
Vinyl Chloride	ND		0.50	1	10/29/2013 15:47
Xylenes, Total	ND		0.50	1	10/29/2013 15:47
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	106		70-130		10/29/2013 15:47
Toluene-d8	95		70-130		10/29/2013 15:47
4-BFB	99		70-130		10/29/2013 15:47

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-9	1310870-010B	Water	10/24/2013 17:30	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	1	10/28/2013 17:48
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/28/2013 17:48
Benzene	0.58		0.50	1	10/28/2013 17:48
Bromobenzene	ND		0.50	1	10/28/2013 17:48
Bromochloromethane	ND		0.50	1	10/28/2013 17:48
Bromodichloromethane	ND		0.50	1	10/28/2013 17:48
Bromoform	ND		0.50	1	10/28/2013 17:48
Bromomethane	ND		0.50	1	10/28/2013 17:48
2-Butanone (MEK)	ND		2.0	1	10/28/2013 17:48
t-Butyl alcohol (TBA)	ND		2.0	1	10/28/2013 17:48
n-Butyl benzene	ND		0.50	1	10/28/2013 17:48
sec-Butyl benzene	ND		0.50	1	10/28/2013 17:48
tert-Butyl benzene	ND		0.50	1	10/28/2013 17:48
Carbon Disulfide	ND		0.50	1	10/28/2013 17:48
Carbon Tetrachloride	ND		0.50	1	10/28/2013 17:48
Chlorobenzene	ND		0.50	1	10/28/2013 17:48
Chloroethane	ND		0.50	1	10/28/2013 17:48
Chloroform	ND		0.50	1	10/28/2013 17:48
Chloromethane	ND		0.50	1	10/28/2013 17:48
2-Chlorotoluene	ND		0.50	1	10/28/2013 17:48
4-Chlorotoluene	ND		0.50	1	10/28/2013 17:48
Dibromochloromethane	ND		0.50	1	10/28/2013 17:48
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/28/2013 17:48
1,2-Dibromoethane (EDB)	ND		0.50	1	10/28/2013 17:48
Dibromomethane	ND		0.50	1	10/28/2013 17:48
1,2-Dichlorobenzene	ND		0.50	1	10/28/2013 17:48
1,3-Dichlorobenzene	ND		0.50	1	10/28/2013 17:48
1,4-Dichlorobenzene	ND		0.50	1	10/28/2013 17:48
Dichlorodifluoromethane	ND		0.50	1	10/28/2013 17:48
1,1-Dichloroethane	ND		0.50	1	10/28/2013 17:48
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/28/2013 17:48
1,1-Dichloroethene	ND		0.50	1	10/28/2013 17:48
cis-1,2-Dichloroethene	7.0		0.50	1	10/28/2013 17:48
trans-1,2-Dichloroethene	ND		0.50	1	10/28/2013 17:48
1,2-Dichloropropane	ND		0.50	1	10/28/2013 17:48
1,3-Dichloropropane	ND		0.50	1	10/28/2013 17:48
2,2-Dichloropropane	ND		0.50	1	10/28/2013 17:48
1,1-Dichloropropene	ND		0.50	1	10/28/2013 17:48

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-9	1310870-010B	Water	10/24/2013 17:30	GC28	83357
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	1	10/28/2013 17:48
trans-1,3-Dichloropropene	ND		0.50	1	10/28/2013 17:48
Diisopropyl ether (DIPE)	ND		0.50	1	10/28/2013 17:48
Ethylbenzene	ND		0.50	1	10/28/2013 17:48
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/28/2013 17:48
Freon 113	ND		0.50	1	10/28/2013 17:48
Hexachlorobutadiene	ND		0.50	1	10/28/2013 17:48
Hexachloroethane	ND		0.50	1	10/28/2013 17:48
2-Hexanone	ND		0.50	1	10/28/2013 17:48
Isopropylbenzene	ND		0.50	1	10/28/2013 17:48
4-Isopropyl toluene	ND		0.50	1	10/28/2013 17:48
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/28/2013 17:48
Methylene chloride	ND		0.50	1	10/28/2013 17:48
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/28/2013 17:48
Naphthalene	ND		0.50	1	10/28/2013 17:48
n-Propyl benzene	ND		0.50	1	10/28/2013 17:48
Styrene	ND		0.50	1	10/28/2013 17:48
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/28/2013 17:48
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/28/2013 17:48
Tetrachloroethene	ND		0.50	1	10/28/2013 17:48
Toluene	ND		0.50	1	10/28/2013 17:48
1,2,3-Trichlorobenzene	ND		0.50	1	10/28/2013 17:48
1,2,4-Trichlorobenzene	ND		0.50	1	10/28/2013 17:48
1,1,1-Trichloroethane	ND		0.50	1	10/28/2013 17:48
1,1,2-Trichloroethane	ND		0.50	1	10/28/2013 17:48
Trichloroethene	31		0.50	1	10/28/2013 17:48
Trichlorofluoromethane	ND		0.50	1	10/28/2013 17:48
1,2,3-Trichloropropane	ND		0.50	1	10/28/2013 17:48
1,2,4-Trimethylbenzene	ND		0.50	1	10/28/2013 17:48
1,3,5-Trimethylbenzene	ND		0.50	1	10/28/2013 17:48
Vinyl Chloride	ND		0.50	1	10/28/2013 17:48
Xylenes, Total	ND		0.50	1	10/28/2013 17:48
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	107		70-130		10/28/2013 17:48
Toluene-d8	100		70-130		10/28/2013 17:48
4-BFB	95		70-130		10/28/2013 17:48

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Analytical Report

Client: AEI Consultants

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Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-10	1310870-011B	Water	10/24/2013 11:55	GC28	83442
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	1	10/29/2013 16:45
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/29/2013 16:45
Benzene	2.2		0.50	1	10/29/2013 16:45
Bromobenzene	ND		0.50	1	10/29/2013 16:45
Bromochloromethane	ND		0.50	1	10/29/2013 16:45
Bromodichloromethane	ND		0.50	1	10/29/2013 16:45
Bromoform	ND		0.50	1	10/29/2013 16:45
Bromomethane	ND		0.50	1	10/29/2013 16:45
2-Butanone (MEK)	ND		2.0	1	10/29/2013 16:45
t-Butyl alcohol (TBA)	2.3		2.0	1	10/29/2013 16:45
n-Butyl benzene	ND		0.50	1	10/29/2013 16:45
sec-Butyl benzene	ND		0.50	1	10/29/2013 16:45
tert-Butyl benzene	ND		0.50	1	10/29/2013 16:45
Carbon Disulfide	ND		0.50	1	10/29/2013 16:45
Carbon Tetrachloride	ND		0.50	1	10/29/2013 16:45
Chlorobenzene	ND		0.50	1	10/29/2013 16:45
Chloroethane	ND		0.50	1	10/29/2013 16:45
Chloroform	ND		0.50	1	10/29/2013 16:45
Chloromethane	ND		0.50	1	10/29/2013 16:45
2-Chlorotoluene	ND		0.50	1	10/29/2013 16:45
4-Chlorotoluene	ND		0.50	1	10/29/2013 16:45
Dibromochloromethane	ND		0.50	1	10/29/2013 16:45
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/29/2013 16:45
1,2-Dibromoethane (EDB)	ND		0.50	1	10/29/2013 16:45
Dibromomethane	ND		0.50	1	10/29/2013 16:45
1,2-Dichlorobenzene	ND		0.50	1	10/29/2013 16:45
1,3-Dichlorobenzene	ND		0.50	1	10/29/2013 16:45
1,4-Dichlorobenzene	ND		0.50	1	10/29/2013 16:45
Dichlorodifluoromethane	ND		0.50	1	10/29/2013 16:45
1,1-Dichloroethane	ND		0.50	1	10/29/2013 16:45
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/29/2013 16:45
1,1-Dichloroethene	ND		0.50	1	10/29/2013 16:45
cis-1,2-Dichloroethene	2.5		0.50	1	10/29/2013 16:45
trans-1,2-Dichloroethene	ND		0.50	1	10/29/2013 16:45
1,2-Dichloropropane	ND		0.50	1	10/29/2013 16:45
1,3-Dichloropropane	ND		0.50	1	10/29/2013 16:45
2,2-Dichloropropane	ND		0.50	1	10/29/2013 16:45
1,1-Dichloropropene	ND		0.50	1	10/29/2013 16:45

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-10	1310870-011B	Water	10/24/2013 11:55	GC28	83442
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	1	10/29/2013 16:45
trans-1,3-Dichloropropene	ND		0.50	1	10/29/2013 16:45
Diisopropyl ether (DIPE)	ND		0.50	1	10/29/2013 16:45
Ethylbenzene	ND		0.50	1	10/29/2013 16:45
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/29/2013 16:45
Freon 113	ND		0.50	1	10/29/2013 16:45
Hexachlorobutadiene	ND		0.50	1	10/29/2013 16:45
Hexachloroethane	ND		0.50	1	10/29/2013 16:45
2-Hexanone	ND		0.50	1	10/29/2013 16:45
Isopropylbenzene	ND		0.50	1	10/29/2013 16:45
4-Isopropyl toluene	ND		0.50	1	10/29/2013 16:45
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/29/2013 16:45
Methylene chloride	ND		0.50	1	10/29/2013 16:45
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/29/2013 16:45
Naphthalene	ND		0.50	1	10/29/2013 16:45
n-Propyl benzene	ND		0.50	1	10/29/2013 16:45
Styrene	ND		0.50	1	10/29/2013 16:45
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/29/2013 16:45
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/29/2013 16:45
Tetrachloroethene	ND		0.50	1	10/29/2013 16:45
Toluene	ND		0.50	1	10/29/2013 16:45
1,2,3-Trichlorobenzene	ND		0.50	1	10/29/2013 16:45
1,2,4-Trichlorobenzene	ND		0.50	1	10/29/2013 16:45
1,1,1-Trichloroethane	ND		0.50	1	10/29/2013 16:45
1,1,2-Trichloroethane	ND		0.50	1	10/29/2013 16:45
Trichloroethene	29		0.50	1	10/29/2013 16:45
Trichlorofluoromethane	ND		0.50	1	10/29/2013 16:45
1,2,3-Trichloropropane	0.63		0.50	1	10/29/2013 16:45
1,2,4-Trimethylbenzene	ND		0.50	1	10/29/2013 16:45
1,3,5-Trimethylbenzene	ND		0.50	1	10/29/2013 16:45
Vinyl Chloride	ND		0.50	1	10/29/2013 16:45
Xylenes, Total	ND		0.50	1	10/29/2013 16:45
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	107		70-130		10/29/2013 16:45
Toluene-d8	74		70-130		10/29/2013 16:45
4-BFB	97		70-130		10/29/2013 16:45

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method: SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-11	1310870-012B	Water	10/24/2013 13:30	GC28	83442
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		10	1	10/29/2013 23:46
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/29/2013 23:46
Benzene	4.7		0.50	1	10/29/2013 23:46
Bromobenzene	ND		0.50	1	10/29/2013 23:46
Bromochloromethane	ND		0.50	1	10/29/2013 23:46
Bromodichloromethane	ND		0.50	1	10/29/2013 23:46
Bromoform	ND		0.50	1	10/29/2013 23:46
Bromomethane	ND		0.50	1	10/29/2013 23:46
2-Butanone (MEK)	ND		2.0	1	10/29/2013 23:46
t-Butyl alcohol (TBA)	10		2.0	1	10/29/2013 23:46
n-Butyl benzene	ND		0.50	1	10/29/2013 23:46
sec-Butyl benzene	5.1		0.50	1	10/29/2013 23:46
tert-Butyl benzene	ND		0.50	1	10/29/2013 23:46
Carbon Disulfide	ND		0.50	1	10/29/2013 23:46
Carbon Tetrachloride	ND		0.50	1	10/29/2013 23:46
Chlorobenzene	ND		0.50	1	10/29/2013 23:46
Chloroethane	ND		0.50	1	10/29/2013 23:46
Chloroform	ND		0.50	1	10/29/2013 23:46
Chloromethane	ND		0.50	1	10/29/2013 23:46
2-Chlorotoluene	ND		0.50	1	10/29/2013 23:46
4-Chlorotoluene	ND		0.50	1	10/29/2013 23:46
Dibromochloromethane	ND		0.50	1	10/29/2013 23:46
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/29/2013 23:46
1,2-Dibromoethane (EDB)	ND		0.50	1	10/29/2013 23:46
Dibromomethane	ND		0.50	1	10/29/2013 23:46
1,2-Dichlorobenzene	ND		0.50	1	10/29/2013 23:46
1,3-Dichlorobenzene	ND		0.50	1	10/29/2013 23:46
1,4-Dichlorobenzene	ND		0.50	1	10/29/2013 23:46
Dichlorodifluoromethane	ND		0.50	1	10/29/2013 23:46
1,1-Dichloroethane	ND		0.50	1	10/29/2013 23:46
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/29/2013 23:46
1,1-Dichloroethene	ND		0.50	1	10/29/2013 23:46
cis-1,2-Dichloroethene	0.73		0.50	1	10/29/2013 23:46
trans-1,2-Dichloroethene	ND		0.50	1	10/29/2013 23:46
1,2-Dichloropropane	ND		0.50	1	10/29/2013 23:46
1,3-Dichloropropane	ND		0.50	1	10/29/2013 23:46
2,2-Dichloropropane	ND		0.50	1	10/29/2013 23:46
1,1-Dichloropropene	ND		0.50	1	10/29/2013 23:46

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8260B

Date Prepared: 10/28/13-10/29/13

Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-11	1310870-012B	Water	10/24/2013 13:30	GC28	83442
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
cis-1,3-Dichloropropene	ND		0.50	1	10/29/2013 23:46
trans-1,3-Dichloropropene	ND		0.50	1	10/29/2013 23:46
Diisopropyl ether (DIPE)	ND		0.50	1	10/29/2013 23:46
Ethylbenzene	2.9		0.50	1	10/29/2013 23:46
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/29/2013 23:46
Freon 113	ND		0.50	1	10/29/2013 23:46
Hexachlorobutadiene	ND		0.50	1	10/29/2013 23:46
Hexachloroethane	ND		0.50	1	10/29/2013 23:46
2-Hexanone	ND		0.50	1	10/29/2013 23:46
Isopropylbenzene	3.6		0.50	1	10/29/2013 23:46
4-Isopropyl toluene	1.5		0.50	1	10/29/2013 23:46
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/29/2013 23:46
Methylene chloride	ND		0.50	1	10/29/2013 23:46
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/29/2013 23:46
Naphthalene	ND		0.50	1	10/29/2013 23:46
n-Propyl benzene	1.9		0.50	1	10/29/2013 23:46
Styrene	ND		0.50	1	10/29/2013 23:46
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/29/2013 23:46
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/29/2013 23:46
Tetrachloroethene	ND		0.50	1	10/29/2013 23:46
Toluene	ND		0.50	1	10/29/2013 23:46
1,2,3-Trichlorobenzene	ND		0.50	1	10/29/2013 23:46
1,2,4-Trichlorobenzene	ND		0.50	1	10/29/2013 23:46
1,1,1-Trichloroethane	ND		0.50	1	10/29/2013 23:46
1,1,2-Trichloroethane	ND		0.50	1	10/29/2013 23:46
Trichloroethene	5.6		0.50	1	10/29/2013 23:46
Trichlorofluoromethane	ND		0.50	1	10/29/2013 23:46
1,2,3-Trichloropropane	ND		0.50	1	10/29/2013 23:46
1,2,4-Trimethylbenzene	1.5		0.50	1	10/29/2013 23:46
1,3,5-Trimethylbenzene	ND		0.50	1	10/29/2013 23:46
Vinyl Chloride	ND		0.50	1	10/29/2013 23:46
Xylenes, Total	0.80		0.50	1	10/29/2013 23:46
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	106		70-130		10/29/2013 23:46
Toluene-d8	96		70-130		10/29/2013 23:46
4-BFB	89		70-130		10/29/2013 23:46



Analytical Report

Client: AEI Consultants	WorkOrder: 1310870
Project: #298931; FSI	Extraction Method: SW5030B
Date Received: 10/25/13 19:38	Analytical Method: SW8021B/8015Bm
Date Prepared: 10/29/13-10/31/13	Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1	1310870-001A	Water	10/24/2013	GC3	83360
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	520		50	1	10/29/2013 04:01
MTBE	---		5.0	1	10/29/2013 04:01
Benzene	---		0.50	1	10/29/2013 04:01
Toluene	---		0.50	1	10/29/2013 04:01
Ethylbenzene	---		0.50	1	10/29/2013 04:01
Xylenes	---		0.50	1	10/29/2013 04:01
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	Analytical Comments: d1,c4	
aaa-TFT	132	S	70-130		10/29/2013 04:01
MW-2	1310870-002A	Water	10/24/2013 16:50	GC3	83443
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	480		50	1	10/30/2013 06:31
MTBE	---		15	1	10/30/2013 06:31
Benzene	---		0.50	1	10/30/2013 06:31
Toluene	---		0.50	1	10/30/2013 06:31
Ethylbenzene	---		0.50	1	10/30/2013 06:31
Xylenes	---		0.50	1	10/30/2013 06:31
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	Analytical Comments: d1,c4	
aaa-TFT	161	S	70-130		10/30/2013 06:31
MW-3	1310870-003A	Water	10/24/2013 14:05	GC3	83443
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	100		50	1	10/30/2013 07:00
MTBE	---		5.0	1	10/30/2013 07:00
Benzene	---		0.50	1	10/30/2013 07:00
Toluene	---		0.50	1	10/30/2013 07:00
Ethylbenzene	---		0.50	1	10/30/2013 07:00
Xylenes	---		0.50	1	10/30/2013 07:00
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	Analytical Comments: d1,c4	
aaa-TFT	533	S	70-130		10/30/2013 07:00

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Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8021B/8015Bm

Date Prepared: 10/29/13-10/31/13

Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-4	1310870-004A	Water	10/24/2013 10:14	GC3	83443

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	10/30/2013 05:33
MTBE	---	5.0	1	10/30/2013 05:33
Benzene	---	0.50	1	10/30/2013 05:33
Toluene	---	0.50	1	10/30/2013 05:33
Ethylbenzene	---	0.50	1	10/30/2013 05:33
Xylenes	---	0.50	1	10/30/2013 05:33
Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: c4
aaa-TFT	238	S	70-130	10/30/2013 05:33

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-5	1310870-005A	Water	10/24/2013 10:59	GC3	83443

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	130	50	1	10/30/2013 06:02
MTBE	---	5.0	1	10/30/2013 06:02
Benzene	---	0.50	1	10/30/2013 06:02
Toluene	---	0.50	1	10/30/2013 06:02
Ethylbenzene	---	0.50	1	10/30/2013 06:02
Xylenes	---	0.50	1	10/30/2013 06:02
Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
aaa-TFT	230	S	70-130	10/30/2013 06:02

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-1	1310870-006A	Water	10/24/2013 15:00	GC3	83443

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	610	50	1	10/30/2013 07:29
MTBE	---	5.0	1	10/30/2013 07:29
Benzene	---	0.50	1	10/30/2013 07:29
Toluene	---	0.50	1	10/30/2013 07:29
Ethylbenzene	---	0.50	1	10/30/2013 07:29
Xylenes	---	0.50	1	10/30/2013 07:29
Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
aaa-TFT	145	S	70-130	10/30/2013 07:29

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8021B/8015Bm

Date Prepared: 10/29/13-10/31/13

Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-4	1310870-007A	Water	10/24/2013 14:30	GC3	83507

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	170	50	1	10/30/2013 20:30
MTBE	---	20	1	10/30/2013 20:30
Benzene	---	0.50	1	10/30/2013 20:30
Toluene	---	0.50	1	10/30/2013 20:30
Ethylbenzene	---	0.50	1	10/30/2013 20:30
Xylenes	---	0.50	1	10/30/2013 20:30
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	Analytical Comments: d1	
aaa-TFT	116	70-130		10/30/2013 20:30

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-6	1310870-008A	Water	10/24/2013 15:30	GC3	83507

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	10/30/2013 21:00
MTBE	---	5.0	1	10/30/2013 21:00
Benzene	---	0.50	1	10/30/2013 21:00
Toluene	---	0.50	1	10/30/2013 21:00
Ethylbenzene	---	0.50	1	10/30/2013 21:00
Xylenes	---	0.50	1	10/30/2013 21:00
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
aaa-TFT	121	70-130		10/30/2013 21:00

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-8	1310870-009A	Water	10/24/2013 16:25	GC3	83507

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	63	50	1	10/31/2013 20:34
MTBE	---	5.0	1	10/31/2013 20:34
Benzene	---	0.50	1	10/31/2013 20:34
Toluene	---	0.50	1	10/31/2013 20:34
Ethylbenzene	---	0.50	1	10/31/2013 20:34
Xylenes	---	0.50	1	10/31/2013 20:34
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	Analytical Comments: d1	
aaa-TFT	111	70-130		10/31/2013 20:34

(Cont.)



Analytical Report

Client: AEI Consultants

WorkOrder: 1310870

Project: #298931; FSI

Extraction Method SW5030B

Date Received: 10/25/13 19:38

Analytical Method: SW8021B/8015Bm

Date Prepared: 10/29/13-10/31/13

Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-9	1310870-010A	Water	10/24/2013 17:30	GC3	83507

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	10/30/2013 23:59
MTBE	---	5.0	1	10/30/2013 23:59
Benzene	---	0.50	1	10/30/2013 23:59
Toluene	---	0.50	1	10/30/2013 23:59
Ethylbenzene	---	0.50	1	10/30/2013 23:59
Xylenes	---	0.50	1	10/30/2013 23:59
Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: c4
aaa-TFT	308	S	70-130	10/30/2013 23:59

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-10	1310870-011A	Water	10/24/2013 11:55	GC3	83507

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	97	50	1	10/31/2013 22:33
MTBE	---	5.0	1	10/31/2013 22:33
Benzene	---	0.50	1	10/31/2013 22:33
Toluene	---	0.50	1	10/31/2013 22:33
Ethylbenzene	---	0.50	1	10/31/2013 22:33
Xylenes	---	0.50	1	10/31/2013 22:33
Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
aaa-TFT	249	S	70-130	10/31/2013 22:33

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-11	1310870-012A	Water	10/24/2013 13:30	GC3	83507

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	490	50	1	10/31/2013 01:56
MTBE	---	5.0	1	10/31/2013 01:56
Benzene	---	0.50	1	10/31/2013 01:56
Toluene	---	0.50	1	10/31/2013 01:56
Ethylbenzene	---	0.50	1	10/31/2013 01:56
Xylenes	---	0.50	1	10/31/2013 01:56
Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
aaa-TFT	154	S	70-130	10/31/2013 01:56



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/25/13 19:38
Date Prepared: 10/25/13-11/4/13

WorkOrder: 1310870
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1	1310870-001A	Water	10/24/2013	GC11A	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	230		50	1	11/01/2013 21:19
TPH-Motor Oil (C18-C36)	ND		250	1	11/01/2013 21:19
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	105		70-130		11/01/2013 21:19
MW-2	1310870-002A	Water	10/24/2013 16:50	GC6B	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	380		50	1	11/01/2013 05:02
TPH-Motor Oil (C18-C36)	ND		250	1	11/01/2013 05:02
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	105		70-130		11/01/2013 05:02
MW-3	1310870-003A	Water	10/24/2013 14:05	GC2A	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	100		50	1	11/04/2013 21:46
TPH-Motor Oil (C18-C36)	ND		250	1	11/04/2013 21:46
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	123		70-130		11/04/2013 21:46
MW-4	1310870-004A	Water	10/24/2013 10:14	GC6B	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		50	1	11/01/2013 09:52
TPH-Motor Oil (C18-C36)	ND		250	1	11/01/2013 09:52
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	113		70-130		11/01/2013 09:52

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/25/13 19:38
Date Prepared: 10/25/13-11/4/13

WorkOrder: 1310870
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-5	1310870-005A	Water	10/24/2013 10:59	GC11A	83620
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		50	1	11/04/2013 13:46
TPH-Motor Oil (C18-C36)	ND		250	1	11/04/2013 13:46
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	99		70-130		11/04/2013 13:46
DPE-1	1310870-006A	Water	10/24/2013 15:00	GC6B	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	530		50	1	11/01/2013 02:37
TPH-Motor Oil (C18-C36)	ND		250	1	11/01/2013 02:37
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	112		70-130		11/01/2013 02:37
DPE-4	1310870-007A	Water	10/24/2013 14:30	GC2A	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	76		50	1	11/04/2013 19:14
TPH-Motor Oil (C18-C36)	ND		250	1	11/04/2013 19:14
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	113		70-130		11/04/2013 19:14
DPE-6	1310870-008A	Water	10/24/2013 15:30	GC6B	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		50	1	11/01/2013 08:39
TPH-Motor Oil (C18-C36)	ND		250	1	11/01/2013 08:39
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	113		70-130		11/01/2013 08:39

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Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/25/13 19:38
Date Prepared: 10/25/13-11/4/13

WorkOrder: 1310870
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-8	1310870-009A	Water	10/24/2013 16:25	GC6A	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		50	1	10/31/2013 21:46
TPH-Motor Oil (C18-C36)	ND		250	1	10/31/2013 21:46
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	95		70-130		10/31/2013 21:46
DPE-9	1310870-010A	Water	10/24/2013 17:30	GC6B	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		50	1	11/03/2013 06:30
TPH-Motor Oil (C18-C36)	ND		250	1	11/03/2013 06:30
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	110		70-130		11/03/2013 06:30
DPE-10	1310870-011A	Water	10/24/2013 11:55	GC2A	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	57		50	1	11/04/2013 20:30
TPH-Motor Oil (C18-C36)	ND		250	1	11/04/2013 20:30
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	91		70-130		11/04/2013 20:30
DPE-11	1310870-012A	Water	10/24/2013 13:30	GC2A	83331
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	340		50	1	11/04/2013 23:01
TPH-Motor Oil (C18-C36)	ND		250	1	11/04/2013 23:01
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	93		70-130		11/04/2013 23:01



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/28/13
Date Analyzed: 10/28/13
Instrument: GC28
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83357
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-83357
 1310862-001DMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	22.76	0.50	20	-	114	70-130
Benzene	ND	20.26	0.50	20	-	101	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	87.94	2.0	80	-	110	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	20.55	0.50	20	-	103	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	19.96	0.50	20	-	99.8	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	21.63	0.50	20	-	108	70-130
1,1-Dichloroethene	ND	17.02	0.50	20	-	85.1	70-130
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/28/13
Date Analyzed: 10/28/13
Instrument: GC28
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83357
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-83357
 1310862-001DMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	22.15	0.50	20	-	111	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	23.02	0.50	20	-	115	70-130
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	22.03	0.50	20	-	110	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	20.06	0.50	20	-	100	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	23.08	0.50	20	-	115	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

Surrogate Recovery

Dibromofluoromethane	26.28	26.81		25	105	107	70-130
Toluene-d8	24.86	24.29		25	99	97	70-130
4-BFB	2.37	2.233		2.5	95	89	70-130

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/28/13
Date Analyzed: 10/28/13
Instrument: GC28
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83357
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-83357
 1310862-001DMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	27.39	26.21	20	ND	137,F1	131,F1	70-130	4.39	20
Benzene	22.65	21.09	20	ND	113	105	70-130	7.14	20
t-Butyl alcohol (TBA)	119.4	116.8	80	ND	149,F1	146,F1	70-130	2.14	20
Chlorobenzene	23.97	22.54	20	ND	120	113	70-130	6.13	20
1,2-Dibromoethane (EDB)	24.56	23.15	20	ND	123	116	70-130	5.93	20
1,2-Dichloroethane (1,2-DCA)	25.81	24.22	20	ND	129	121	70-130	6.37	20
1,1-Dichloroethene	18.18	16.72	20	ND	90.9	83.6	70-130	8.35	20
Diisopropyl ether (DIPE)	25.68	23.97	20	ND	128	120	70-130	6.91	20
Ethyl tert-butyl ether (ETBE)	26.87	25.25	20	ND	134,F1	126	70-130	6.25	20
Methyl-t-butyl ether (MTBE)	26.8	25.26	20	ND	134,F1	126	70-130	5.93	20
Toluene	22.42	20.91	20	ND	112	105	70-130	6.95	20
Trichloroethene	25.34	23.47	20	ND	127	117	70-130	7.68	20
Surrogate Recovery									
Dibromofluoromethane	26.99	26.69	25		108	107	70-130	1.10	20
Toluene-d8	24.16	24.25	25		97	97	70-130	0	20
4-BFB	2.233	2.21	2.5		89	88	70-130	1.04	20

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/28/13
Date Analyzed: 10/28/13
Instrument: GC3
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83360
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-83360
 1310874-002AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	58.37	40	60	-	97.3	70-130
MTBE	ND	10.4	5.0	10	-	104	70-130
Benzene	ND	11.01	0.50	10	-	110	70-130
Toluene	ND	10.8	0.50	10	-	108	70-130
Ethylbenzene	ND	10.64	0.50	10	-	106	70-130
Xylenes	ND	32.18	0.50	30	-	107	70-130
Surrogate Recovery							
aaa-TFT	10.3	10.57		10	103	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	61.07	59.79	60	ND	102	99.6	70-130	2.12	20
MTBE	10.48	10.61	10	ND	105	106	70-130	1.18	20
Benzene	10.59	10.89	10	ND	106	109	70-130	2.79	20
Toluene	10.54	10.79	10	ND	105	108	70-130	2.38	20
Ethylbenzene	10.39	10.62	10	ND	104	106	70-130	2.24	20
Xylenes	31.45	31.9	30	ND	105	106	70-130	1.42	20
Surrogate Recovery									
aaa-TFT	9.962	10.44	10		100	104	70-130	4.65	20

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/29/13
Date Analyzed: 10/29/13
Instrument: GC28
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83442
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-83442
 1310923-001AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	21.38	0.50	20	-	107	70-130
Benzene	ND	19.12	0.50	20	-	95.6	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	85.61	2.0	80	-	107	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	19.72	0.50	20	-	98.6	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	19.89	0.50	20	-	99.5	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	20.62	0.50	20	-	103	70-130
1,1-Dichloroethene	ND	18.86	0.50	20	-	94.3	70-130
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/29/13
Date Analyzed: 10/29/13
Instrument: GC28
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83442
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-83442
 1310923-001AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	20.27	0.50	20	-	101	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	21.07	0.50	20	-	105	70-130
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	20.19	0.50	20	-	101	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	19.36	0.50	20	-	96.8	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	21.97	0.50	20	-	110	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

Surrogate Recovery

Dibromofluoromethane	26.84	45.97		50	107	92	70-130
Toluene-d8	24.32	43.31		50	97	87	70-130
4-BFB	2.33	3.964		5	93	79	70-130

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/29/13
Date Analyzed: 10/29/13
Instrument: GC28
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83442
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-83442
 1310923-001AMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	22.91	23.18	20	ND	115	116	70-130	1.17	20
Benzene	19.98	20.05	20	ND	99.9	100	70-130	0.327	20
t-Butyl alcohol (TBA)	96.24	97.05	80	ND	120	121	70-130	0.836	20
Chlorobenzene	20.18	20.73	20	ND	101	104	70-130	2.68	20
1,2-Dibromoethane (EDB)	20.7	21.15	20	ND	104	106	70-130	2.14	20
1,2-Dichloroethane (1,2-DCA)	21.82	22.38	20	ND	109	112	70-130	2.55	20
1,1-Dichloroethene	19.33	19.02	20	ND	96.7	95.1	70-130	1.65	20
Diisopropyl ether (DIPE)	21.58	21.81	20	ND	108	109	70-130	1.07	20
Ethyl tert-butyl ether (ETBE)	22.61	23.42	20	ND	113	117	70-130	3.51	20
Methyl-t-butyl ether (MTBE)	21.96	22.31	20	ND	110	112	70-130	1.55	20
Toluene	19.41	19.52	20	ND	97	97.6	70-130	0.555	20
Trichloroethene	22.5	22.69	20	ND	113	113	70-130	0	20
Surrogate Recovery									
Dibromofluoromethane	47.96	48.6	50		96	97	70-130	1.32	20
Toluene-d8	43.12	44.06	50		86	88	70-130	2.16	20
4-BFB	3.903	4.037	5		78	81	70-130	3.39	20

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/29/13
Date Analyzed: 10/29/13
Instrument: GC3
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83443
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-83443
 1310943-001CMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	60.82	40	60	-	101	70-130
MTBE	ND	10.18	5.0	10	-	102	70-130
Benzene	ND	11.98	0.50	10	-	120	70-130
Toluene	ND	10.38	0.50	10	-	104	70-130
Ethylbenzene	ND	10.29	0.50	10	-	103	70-130
Xylenes	ND	31.23	0.50	30	-	104	70-130

Surrogate Recovery

aaa-TFT	10.23	10.03		10	102	100	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	59.66	62.24	60	ND	99.4	104	70-130	4.23	20
MTBE	10.4	10.52	10	ND	104	105	70-130	1.19	20
Benzene	10.35	10.51	10	ND	104	105	70-130	1.50	20
Toluene	10.3	10.41	10	ND	103	104	70-130	1.03	20
Ethylbenzene	10.18	10.34	10	ND	102	103	70-130	1.54	20
Xylenes	30.96	31.4	30	ND	103	105	70-130	1.40	20

Surrogate Recovery

aaa-TFT	9.934	9.909	10		99	99	70-130	0	20
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(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/30/13
Date Analyzed: 10/30/13
Instrument: GC3
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83507
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-83507
 1310870-008AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	64.03	40	60	-	107	70-130
MTBE	ND	11.27	5.0	10	-	113	70-130
Benzene	ND	10.69	0.50	10	-	107	70-130
Toluene	ND	10.76	0.50	10	-	108	70-130
Ethylbenzene	ND	10.52	0.50	10	-	105	70-130
Xylenes	ND	31.88	0.50	30	-	106	70-130

Surrogate Recovery

aaa-TFT	9.722	9.597		10	97	96	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	61.67	60.96	60	ND	103	102	70-130	1.17	20
MTBE	10.55	10.2	10	ND	106	102	70-130	3.39	20
Benzene	9.916	10.75	10	ND	99.2	107	70-130	8.02	20
Toluene	9.987	9.889	10	ND	99.9	98.9	70-130	0.990	20
Ethylbenzene	9.865	9.765	10	ND	98.6	97.7	70-130	1.01	20
Xylenes	29.88	29.67	30	ND	99.6	98.9	70-130	0.716	20

Surrogate Recovery

aaa-TFT	9.433	9.579	10		94	96	70-130	1.54	20
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Quality Control Report

Client: AEI Consultants
Date Prepared: 10/25/13
Date Analyzed: 10/30/13
Instrument: GC6A
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83331
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L
Sample ID: MB/LCS-83331

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1070	50	1000	-	107	70-130
Surrogate Recovery							
C9	560.7	564		625	90	90	70-130



Quality Control Report

Client: AEI Consultants
Date Prepared: 11/4/13
Date Analyzed: 11/5/13
Instrument: GC6A, GC6B
Matrix: Water
Project: #298931; FSI

WorkOrder: 1310870
BatchID: 83620
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L
Sample ID: MB/LCS-83620

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1074	50	1000	-	107	70-130
Surrogate Recovery							
C9	564	650.6		625	90	104	70-130



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1310870

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Jeremy Smith
 AEI Consultants
 2500 Camino Diablo, Ste.#200
 Walnut Creek, CA 94597
 (925) 283-6000 FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com
 cc:
 PO: #WC084429
 ProjectNo: #298931; FSI

Bill to:

Sara Guerin
 AEI Consultants
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597
 AccountsPayable@AEIConsultants.co

Requested TAT:

5 days

Date Received: 10/25/2013

Date Printed: 10/25/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1310870-001	MW-1	Water	10/24/2013	<input type="checkbox"/>	B	A											
1310870-002	MW-2	Water	10/24/2013 16:50	<input type="checkbox"/>	B	A											
1310870-003	MW-3	Water	10/24/2013 14:05	<input type="checkbox"/>	B	A											
1310870-004	MW-4	Water	10/24/2013 10:14	<input type="checkbox"/>	B	A											
1310870-005	MW-5	Water	10/24/2013 10:59	<input type="checkbox"/>	B	A											
1310870-006	DPE-1	Water	10/24/2013 15:00	<input type="checkbox"/>	B	A											
1310870-007	DPE-4	Water	10/24/2013 14:30	<input type="checkbox"/>	B	A											
1310870-008	DPE-6	Water	10/24/2013 15:30	<input type="checkbox"/>	B	A											
1310870-009	DPE-8	Water	10/24/2013 16:25	<input type="checkbox"/>	B	A											
1310870-010	DPE-9	Water	10/24/2013 17:30	<input type="checkbox"/>	B	A											
1310870-011	DPE-10	Water	10/24/2013 11:55	<input type="checkbox"/>	B	A											
1310870-012	DPE-11	Water	10/24/2013 13:30	<input type="checkbox"/>	B	A											

Test Legend:

1	8260B_W	2	G-MBTEX_W	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A contain testgroup.

Prepared by: Daniel Loa

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.

1310870

McCAMPBELL ANALYTICAL INC.

1538 Willow Pass Road, Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Yes No

PDF Required? Yes No

Report To: **Jeremy Smith** Bill To: **AEI Consultants**
 Company: **AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597**
 PO# **WC084429** Global ID: **T0600100655**
 E-Mail: **jasmith@aeiconsultatns.com**
 Telephone: (925) 746-6000, Fax: (925) 746-6099
 AEI Project No. **298931** Project Name: **FSI**
 Project Location: **1630 Park St., Alameda, CA 94501**
 Sampler Signature: *[Signature]*

Analysis Request Other Comments

SAMPLE ID	FIELD POINT NAME	SAMPLING		# of Containers	Type Containers	MATRIX					METHOD PRESERVED				TPH-G (EPA 8015 M)	TPH-D / TPH-MO (EPA 8015 M w/ Silica Gel Clean-up)	VOCs (EPA 8260B)	Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCL	HNO ₃	Other						
MW-1		10/24/13	1554	4	VOAs	X					X	X		X	X	X				
MW-2			1658	4	VOAs	X					X	X		X	X	X				
MW-3			1405	4	VOAs	X					X	X		X	X	X				
MW-4			1014	4	VOAs	X					X	X		X	X	X				
MW-5			1059	4	VOAs	X					X	X		X	X	X				
DPE-1			1500	4	VOAs	X					X	X		X	X	X				
DPE-4			1430	4	VOAs	X					X	X		X	X	X				
DPE-6			1530	4	VOAs	X					X	X		X	X	X				
DPE-8			1625	4	VOAs	X					X	X		X	X	X				
DPE-9			1730	4	VOAs	X					X	X		X	X	X				
DPE-10			1155	4	VOAs	X					X	X		X	X	X				
DPE-11			1330	4	VOAs	X					X	X		X	X	X				

Relinquished By: *[Signature]* Date: 10/24/13 Time: 1430 Received By: *[Signature]*
 Relinquished By: *[Signature]* Date: 10/25 Time: 1705 Received By: *[Signature]*
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/° 3.2
 GOOD CONDITION _____ PRESERVATION _____
 HEAD SPACE ABSENT _____ APPROPRIATE CONTAINERS _____
 DECHLORINATED IN LAB _____ PERSERVED IN LAB _____

VOAS O&G METALS OTHER

+
+
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+



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **10/25/2013 7:38:08 PM**
 Project Name: **#298931; FSI** Login Reviewed by: **Daniel Loa**
 WorkOrder N°: **1310870** Matrix: Water Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 3.2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1309537

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Andrew Wallace
Project P.O.:
Project Name: #298931; FSI Park St.

Project Received: 09/18/2013

Analytical Report reviewed & approved for release on 09/20/2013 by:

Question about
your data?

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #298931; FSI Park St.
WorkOrder: 1309537

<u>Glossary Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Analytical Qualifier

d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant



Analytical Report

Client: AEI Consultants
Project: #298931; FSI Park St.
Date Received: 9/18/13 18:46
Date Prepared: 9/18/13

WorkOrder: 1309537
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
A-3', 6', 9', 12'	1309537-001A	Soil/TOTAL	09/18/2013 15:00	ICP-MS1	81858
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	09/19/2013 14:17
Arsenic	2.0		0.50	1	09/19/2013 14:17
Barium	57		5.0	1	09/19/2013 14:17
Beryllium	ND		0.50	1	09/19/2013 14:17
Cadmium	ND		0.25	1	09/19/2013 14:17
Chromium	38		0.50	1	09/19/2013 14:17
Cobalt	5.0		0.50	1	09/19/2013 14:17
Copper	7.0		0.50	1	09/19/2013 14:17
Lead	4.4		0.50	1	09/19/2013 14:17
Mercury	ND		0.050	1	09/19/2013 14:17
Molybdenum	ND		0.50	1	09/19/2013 14:17
Nickel	30		0.50	1	09/19/2013 14:17
Selenium	ND		0.50	1	09/19/2013 14:17
Silver	ND		0.50	1	09/19/2013 14:17
Thallium	ND		0.50	1	09/19/2013 14:17
Vanadium	25		0.50	1	09/19/2013 14:17
Zinc	21		5.0	1	09/19/2013 14:17
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	99		70-130		09/19/2013 14:17

(Cont.)



Analytical Report

Client: AEI Consultants
Project: #298931; FSI Park St.
Date Received: 9/18/13 18:46
Date Prepared: 9/18/13

WorkOrder: 1309537
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3', 6', 9', 12'	1309537-002A	Soil/TOTAL	09/18/2013 16:00	ICP-MS1	81858
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	09/19/2013 14:23
Arsenic	1.8		0.50	1	09/19/2013 14:23
Barium	60		5.0	1	09/19/2013 14:23
Beryllium	ND		0.50	1	09/19/2013 14:23
Cadmium	ND		0.25	1	09/19/2013 14:23
Chromium	43		0.50	1	09/19/2013 14:23
Cobalt	4.0		0.50	1	09/19/2013 14:23
Copper	7.7		0.50	1	09/19/2013 14:23
Lead	7.5		0.50	1	09/19/2013 14:23
Mercury	0.050		0.050	1	09/19/2013 14:23
Molybdenum	ND		0.50	1	09/19/2013 14:23
Nickel	34		0.50	1	09/19/2013 14:23
Selenium	ND		0.50	1	09/19/2013 14:23
Silver	ND		0.50	1	09/19/2013 14:23
Thallium	ND		0.50	1	09/19/2013 14:23
Vanadium	28		0.50	1	09/19/2013 14:23
Zinc	25		5.0	1	09/19/2013 14:23
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	99		70-130		09/19/2013 14:23



Analytical Report

Client: AEI Consultants
Project: #298931; FSI Park St.
Date Received: 9/18/13 18:46
Date Prepared: 9/18/13

WorkOrder: 1309537
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
A-3', 6', 9', 12'	1309537-001A	Soil	09/18/2013 15:00	GC19	81854
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		1.0	1	09/19/2013 06:19
MTBE	ND		0.050	1	09/19/2013 06:19
Benzene	ND		0.0050	1	09/19/2013 06:19
Toluene	ND		0.0050	1	09/19/2013 06:19
Ethylbenzene	ND		0.0050	1	09/19/2013 06:19
Xylenes	ND		0.0050	1	09/19/2013 06:19
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-fluorotoluene	97		70-130		09/19/2013 06:19
B-3', 6', 9', 12'	1309537-002A	Soil	09/18/2013 16:00	GC19	81854
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	60		1.0	1	09/19/2013 06:48
MTBE	ND		0.050	1	09/19/2013 06:48
Benzene	ND		0.0050	1	09/19/2013 06:48
Toluene	0.083		0.0050	1	09/19/2013 06:48
Ethylbenzene	ND		0.0050	1	09/19/2013 06:48
Xylenes	0.22		0.0050	1	09/19/2013 06:48
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d7,d9	
2-fluorotoluene	108		70-130		09/19/2013 06:48



Analytical Report

Client: AEI Consultants
Project: #298931; FSI Park St.
Date Received: 9/18/13 18:46
Date Prepared: 9/18/13

WorkOrder: 1309537
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
A-3', 6', 9', 12'	1309537-001A	Soil	09/18/2013 15:00	GC6B	81820
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	09/18/2013 22:34
TPH-Motor Oil (C18-C36)	ND		5.0	1	09/18/2013 22:34
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	113		70-130		09/18/2013 22:34
B-3', 6', 9', 12'	1309537-002A	Soil	09/18/2013 16:00	GC11A	81820
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	66		5.0	5	09/19/2013 12:12
TPH-Motor Oil (C18-C36)	110		25	5	09/19/2013 12:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e7,e4,e2	
C9	95		70-130		09/19/2013 12:12



Quality Control Report

Client: AEI Consultants

WorkOrder: 1309537

Date Prepared: 9/18/13

BatchID: 81858

Date Analyzed: 9/19/13

Extraction Method: SW3050B

Instrument: ICP-MS1

Analytical Method: SW6020

Matrix: Soil

Unit: mg/Kg

Project: #298931; FSI Park St.

Sample ID: MB/LCS-81858
1309527-013AMS/MSD

QC SUMMARY REPORT FOR SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	50.73	0.50	50	-	101	75-125
Arsenic	ND	51.34	0.50	50	-	103	75-125
Barium	ND	481.1	5.0	500	-	96.2	75-125
Beryllium	ND	48.55	0.50	50	-	97.1	75-125
Cadmium	ND	50.39	0.25	50	-	101	75-125
Chromium	ND	49.55	0.50	50	-	99.1	75-125
Cobalt	ND	50.3	0.50	50	-	101	75-125
Copper	ND	50.08	0.50	50	-	100	75-125
Lead	ND	50.65	0.50	50	-	101	75-125
Mercury	ND	1.229	0.050	1.25	-	98.3	75-125
Molybdenum	ND	51.6	0.50	50	-	103	75-125
Nickel	ND	50.61	0.50	50	-	101	75-125
Selenium	ND	50.48	0.50	50	-	101	75-125
Silver	ND	49.8	0.50	50	-	99.6	75-125
Thallium	ND	49.09	0.50	50	-	98.2	75-125
Vanadium	ND	50.11	0.50	50	-	100	75-125
Zinc	ND	509.9	5.0	500	-	102	75-125
Surrogate Recovery							
Tb 350.917	510.8	520.3		500	102	104	70-130



Quality Control Report

Client: AEI Consultants

WorkOrder: 1309537

Date Prepared: 9/18/13

BatchID: 81858

Date Analyzed: 9/19/13

Extraction Method: SW3050B

Instrument: ICP-MS1

Analytical Method: SW6020

Matrix: Soil

Unit: mg/Kg

Project: #298931; FSI Park St.

Sample ID: MB/LCS-81858

1309527-013AMS/MSD

QC SUMMARY REPORT FOR SW6020

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	52.69	52.52	50	ND	105	105	75-125	0	20
Arsenic	53.69	54.68	50	2.5	102	104	75-125	1.83	20
Barium	525.2	520.4	500	18	101	101	75-125	0	20
Beryllium	49.05	48.95	50	ND	98.1	97.9	75-125	0.204	20
Cadmium	51.51	51.28	50	ND	103	103	75-125	0	20
Chromium	99.42	90.1	50	43	112	93.4	75-125	9.84	20
Cobalt	55.54	54.25	50	5.6	99.9	97.3	75-125	2.35	20
Copper	59.47	57.15	50	6.2	107	102	75-125	3.98	20
Lead	54.71	53.71	50	2.0	105	103	75-125	1.84	20
Mercury	1.272	1.272	1.25	ND	99	99	75-125	0	20
Molybdenum	53.62	53.59	50	ND	107	107	75-125	0	20
Nickel	84.91	79.25	50	30	110	98.9	75-125	6.90	20
Selenium	51.28	50.94	50	ND	103	102	75-125	0.665	20
Silver	48.51	48.18	50	ND	97	96.4	75-125	0.683	20
Thallium	50.74	50	50	ND	101	100	75-125	1.47	20
Vanadium	86.34	80.98	50	30	112	101	75-125	6.41	20
Zinc	534	521.1	500	20	103	100	75-125	2.45	20
Surrogate Recovery									
Tb 350.917	522.7	517.5	500	99	105	103	70-130	1.00	20



Quality Control Report

Client: AEI Consultants	WorkOrder: 1309537
Date Prepared: 9/18/13	BatchID: 81854
Date Analyzed: 9/19/13	Extraction Method: SW5030B
Instrument: GC7	Analytical Method: SW8021B/8015Bm
Matrix: Soil	Unit: mg/Kg
Project: #298931; FSI Park St.	Sample ID: MB/LCS-81854 1309527-013AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.5746	0.40	0.60	-	95.8	70-130
MTBE	ND	0.08668	0.050	0.10	-	86.7	70-130
Benzene	ND	0.1021	0.0050	0.10	-	102	70-130
Toluene	ND	0.1014	0.0050	0.10	-	101	70-130
Ethylbenzene	ND	0.1091	0.0050	0.10	-	109	70-130
Xylenes	ND	0.3324	0.0050	0.30	-	111	70-130
Surrogate Recovery							
2-fluorotoluene	0.09917	0.09697		0.10	99	97	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.5816	0.5606	0.60	ND	96.9	93.4	70-130	3.67	20
MTBE	0.08355	0.07834	0.10	ND	77	71.8	70-130	6.44	20
Benzene	0.1051	0.1058	0.10	ND	105	106	70-130	0.753	20
Toluene	0.103	0.1041	0.10	ND	101	102	70-130	1.05	20
Ethylbenzene	0.1109	0.1137	0.10	ND	111	114	70-130	2.57	20
Xylenes	0.337	0.3465	0.30	ND	112	115	70-130	2.78	20
Surrogate Recovery									
2-fluorotoluene	0.09902	0.1012	0.10	84	99	101	70-130	2.22	20



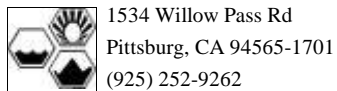
Quality Control Report

Client: AEI Consultants
Date Prepared: 9/17/13
Date Analyzed: 9/19/13
Instrument: GC11B
Matrix: Soil
Project: #298931; FSI Park St.

WorkOrder: 1309537
BatchID: 81820
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-81820

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	46.29	1.0	40	-	116	70-130
Surrogate Recovery							
C9	26.68	26.36		25	107	105	70-130



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1309537

ClientCode: AEL

- WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Andrew Wallace
 AEI Consultants
 2500 Camino Diablo, Ste.#200
 Walnut Creek, CA 94597
 (925) 283-6000 FAX: (925) 283-6121

Email: awallace@aeiconsultants.com
 cc:
 PO:
 ProjectNo: #298931; FSI Park St.

Bill to:
 Sara Guerin
 AEI Consultants
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597
 AccountsPayable@AEIConsultants.co

Requested TAT: 1 day

Date Received: 09/18/2013

Date Printed: 09/18/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1309537-001	A-3', 6', 9', 12'	Soil	9/18/2013 15:00	<input type="checkbox"/>	A	A	A										
1309537-002	B-3', 6', 9', 12'	Soil	9/18/2013 16:00	<input type="checkbox"/>	A	A	A										

Test Legend:

1	CAM17MS_S	2	G-MBTX_S	3	TPH(DMO)_S	4		5	
6		7		8		9		10	
11		12							

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **9/18/2013 6:46:09 PM**
 Project Name: **#298931; FSI Park St.** LogIn Reviewed by: **Zoraida Cortez**
 WorkOrder N°: **1309537** Matrix: Soil Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 6°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1310160

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Andrew Wallace
Project P.O.:
Project Name: #298931; FSI

Project Received: 10/04/2013

Analytical Report reviewed & approved for release on 10/07/2013 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #298931; FSI
WorkOrder: 1310160

<u>Glossary Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Analytical Qualifier

d2	heavier gasoline range compounds are significant (aged gasoline?)
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/4/13 15:35
Date Prepared: 10/4/13

WorkOrder: 1310160
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
STKP-(1-4)	1310160-001A	Soil/TOTAL	10/04/2013 14:35	ICP-MS2	82494
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	10/04/2013 22:20
Arsenic	2.2		0.50	1	10/04/2013 22:20
Barium	66		5.0	1	10/04/2013 22:20
Beryllium	ND		0.50	1	10/04/2013 22:20
Cadmium	ND		0.25	1	10/04/2013 22:20
Chromium	42		0.50	1	10/04/2013 22:20
Cobalt	4.3		0.50	1	10/04/2013 22:20
Copper	9.3		0.50	1	10/04/2013 22:20
Lead	31		0.50	1	10/04/2013 22:20
Mercury	0.13		0.050	1	10/04/2013 22:20
Molybdenum	ND		0.50	1	10/04/2013 22:20
Nickel	27		0.50	1	10/04/2013 22:20
Selenium	ND		0.50	1	10/04/2013 22:20
Silver	ND		0.50	1	10/04/2013 22:20
Thallium	ND		0.50	1	10/04/2013 22:20
Vanadium	29		0.50	1	10/04/2013 22:20
Zinc	44		5.0	1	10/04/2013 22:20
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	106		70-130		10/04/2013 22:20



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/4/13 15:35
Date Prepared: 10/4/13

WorkOrder: 1310160
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
STKP-(1-4)	1310160-001A	Soil	10/04/2013 14:35	GC7	82492
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	240		20	20	10/05/2013 19:21
MTBE	ND		1.0	20	10/05/2013 19:21
Benzene	ND		0.10	20	10/05/2013 19:21
Toluene	1.1		0.10	20	10/05/2013 19:21
Ethylbenzene	2.1		0.10	20	10/05/2013 19:21
Xylenes	14		0.10	20	10/05/2013 19:21
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d2	
2-fluorotoluene	118		70-130		10/05/2013 19:21



Analytical Report

Client: AEI Consultants
Project: #298931; FSI
Date Received: 10/4/13 15:35
Date Prepared: 10/4/13

WorkOrder: 1310160
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
STKP-(1-4)	1310160-001A	Soil	10/04/2013 14:35	GC6A	82460
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	540		20	20	10/07/2013 10:45
TPH-Motor Oil (C18-C36)	810		100	20	10/07/2013 10:45
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e7,e4,e2	
C9	102		70-130		10/07/2013 10:45



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/4/13
Date Analyzed: 10/4/13
Instrument: ICP-MS2
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310160
BatchID: 82494
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-82494
 1310160-001AMS/MSD

QC SUMMARY REPORT FOR SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	45.76	0.50	50	-	91.5	75-125
Arsenic	ND	48.03	0.50	50	-	96.1	75-125
Barium	ND	456.5	5.0	500	-	91.3	75-125
Beryllium	ND	48.38	0.50	50	-	96.8	75-125
Cadmium	ND	46.7	0.25	50	-	93.4	75-125
Chromium	ND	47.81	0.50	50	-	95.6	75-125
Cobalt	ND	48.98	0.50	50	-	98	75-125
Copper	ND	48.55	0.50	50	-	97.1	75-125
Lead	ND	47.43	0.50	50	-	94.9	75-125
Mercury	ND	1.168	0.050	1.25	-	93.4	75-125
Molybdenum	ND	45.88	0.50	50	-	91.8	75-125
Nickel	ND	49.45	0.50	50	-	98.9	75-125
Selenium	ND	48.74	0.50	50	-	97.5	75-125
Silver	ND	46.9	0.50	50	-	93.8	75-125
Thallium	ND	46.5	0.50	50	-	93	75-125
Vanadium	ND	47.68	0.50	50	-	95.4	75-125
Zinc	ND	487	5.0	500	-	97.4	75-125
Surrogate Recovery							
Tb 350.917	520.3	455.6		500	104	91	70-130



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/4/13
Date Analyzed: 10/4/13
Instrument: ICP-MS2
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310160
BatchID: 82494
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-82494
 1310160-001AMS/MSD

QC SUMMARY REPORT FOR SW6020

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	47.96	46.42	50	ND	95.9	92.8	75-125	3.26	20
Arsenic	52.1	50.23	50	2.238	99.7	96	75-125	3.65	20
Barium	553.3	525.3	500	65.54	97.6	92	75-125	5.19	20
Beryllium	50.35	47.27	50	ND	101	94.5	75-125	6.31	20
Cadmium	50.08	47.6	50	ND	100	95.2	75-125	5.08	20
Chromium	91.01	83.68	50	41.62	98.8	84.1	75-125	8.39	20
Cobalt	53.84	51.09	50	4.289	99.1	93.6	75-125	5.24	20
Copper	59.07	56.1	50	9.270	99.6	93.7	75-125	5.16	20
Lead	75.58	70.38	50	31.02	89.1	78.7	75-125	7.13	20
Mercury	1.46	1.297	1.25	0.1334	106	93.1	75-125	11.8	20
Molybdenum	48.03	46.52	50	ND	96.1	93	75-125	3.19	20
Nickel	75.86	72.27	50	26.82	98.1	90.9	75-125	4.85	20
Selenium	50.9	49.2	50	ND	102	98.4	75-125	3.40	20
Silver	50.19	48.11	50	ND	100	96.2	75-125	4.23	20
Thallium	49.36	46.91	50	ND	98.7	93.8	75-125	5.09	20
Vanadium	81.69	75.53	50	29.33	105	92.4	75-125	7.84	20
Zinc	551	522.4	500	44.29	101	95.6	75-125	5.33	20
Surrogate Recovery									
Tb 350.917	499.1	449.4	500		100	90	70-130	10.5	20



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/4/13
Date Analyzed: 10/5/13
Instrument: GC7
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310160
BatchID: 82492
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-82492
 1310160-001AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.5943	0.40	0.60	-	99.1	70-130
MTBE	ND	0.08064	0.050	0.10	-	80.6	70-130
Benzene	ND	0.1018	0.0050	0.10	-	102	70-130
Toluene	ND	0.102	0.0050	0.10	-	102	70-130
Ethylbenzene	ND	0.1126	0.0050	0.10	-	113	70-130
Xylenes	ND	0.3397	0.0050	0.30	-	113	70-130

Surrogate Recovery

2-fluorotoluene	0.1051	0.117		0.10	105	117	70-130
-----------------	--------	-------	--	------	-----	-----	--------

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR	0	27	NR	NR	-	NR	
MTBE	NR	NR	0	ND<1	NR	NR	-	NR	
Benzene	NR	NR	0	ND<0.1	NR	NR	-	NR	
Toluene	NR	NR	0	1.1	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	2.1	NR	NR	-	NR	
Xylenes	NR	NR	0	14	NR	NR	-	NR	

Surrogate Recovery

2-fluorotoluene	NR	NR	0		NR	NR	-	NR	
-----------------	----	----	---	--	----	----	---	----	--



Quality Control Report

Client: AEI Consultants
Date Prepared: 10/3/13
Date Analyzed: 10/4/13
Instrument: GC11A, GC11B
Matrix: Soil
Project: #298931; FSI

WorkOrder: 1310160
BatchID: 82460
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-82460
 1310129-001AMS/MSD

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	34.67	1.0	40	-	86.7	70-130
Surrogate Recovery							
C9	25.71	21.22		25	103	85	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	43.48	44.7	40	3.079	101	104	70-130	0	30
Surrogate Recovery									
C9	24.2	24.48	25		97	98	70-130	0	30



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1310160

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Andrew Wallace
 AEI Consultants
 2500 Camino Diablo, Ste.#200
 Walnut Creek, CA 94597
 (408) 559-7600 FAX: (408) 559-7601

Email: awallace@aeiconsultants.com
 cc:
 PO:
 ProjectNo: #298931; FSI

Bill to:

Sara Guerin
 AEI Consultants
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597
 AccountsPayable@AEIConsultants.co

Requested TAT:

1 day

Date Received: 10/04/2013

Date Printed: 10/07/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1310160-001	STKP-(1-4)	Soil	10/4/2013 14:35	<input type="checkbox"/>	A	A	A	A									

Test Legend:

1	CAM17MS_S	2	G-MBTEX_S	3	PREFDF REPORT	4	TPH(DMO)_S	5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments: 24hr Rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.

1310160



McCAMPBELL ANALYTICAL, INC.
 1534 WILLOW PASS ROAD
 PITTSBURG, CA 94565-1701
 Website: www.mccampbell.com Email: main@mccampbell.com
 Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD
 TURN AROUND TIME
 RUSH 24 HR 48 HR 72 HR 5 DAY
 GeoTracker EDF PDF Excel Write On (DW)
 Check if sample is effluent and "J" flag is required

Report To: Andrew Wallace Bill To: AEI Consultants
 Company: AEI Consultants
 2500 Camino Diablo #200, Walnut Creek 94597
 E-Mail: awallace@aeiconsultants.com
 Tele: (925) 746-6000 x105 Fax: (925) 746-6099
 Project #: 298931 Project Name: FSI
 Project Location: 1630 Park ST, Alameda
 Sampler Signature: *Jared*

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED					
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other		
STKP-(1-4)		10/4/13	2:35	4	SL	X					X					

Analysis Request													Other	Comments
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Filter Samples for Metals analysis: Yes / No
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE														
TPH as Diesel (8015)														
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)														
Total Petroleum Hydrocarbons (418.1)														
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)														
MTBE / BTEX ONLY (EPA 602 / 8021)														
EPA 505 / 608 / 8081 (CI Pesticides)														
EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners														
EPA 507 / 8141 (NP Pesticides)														
EPA 515 / 8151 (Acidic CI Herbicides)														
EPA 524.2 / 624 / 8260 (VOCs)														
EPA 525.2 / 625 / 8270 (SVOCs)														
EPA 8270 SIM / 8310 (PAHs / PNAs)														
CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)														
LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)														
Lead (200.7 / 200.8 / 6010 / 6020)														
w/Silica Gel Clean Up Only														
<i>TPH-3,4,6,8,10, MTBE, BTEX (8015)</i>													<input checked="" type="checkbox"/>	

Relinquished By: Andrew Wallace Date: 10/4/13 Time: 3:30 Received By: *[Signature]*

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/T* *9.4* COMMENTS:

GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

VOAS O&G METALS OTHER
 PRESERVATION pH<2



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **10/4/2013 3:35:37 PM**
 Project Name: **#298931; FSI** Login Reviewed by: **Maria Venegas**
 WorkOrder N°: **1310160** Matrix: Soil Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 9.4°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:

APPENDIX F

GROUNDWATER MONITORING FIELD FORMS

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2	
Well & Wellhead Condition	good	
Elevation of Top of Casing (feet above msl)		
Depth of Well	17.95	20.00
Depth to Water (from top of casing)	Before: 9.10	After: 9.07
Water Elevation (feet above msl)	Before:	After:
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling	
Well Volumes Purged	—	
Pump Speed (Default = 300 rpms)	300 Rpm	
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)		
Actual Volume Purged (liters)	5.0	
Appearance of Purge Water/Turbidity/Color	Clear	
Free Product Present?	—	Thickness (ft): —

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size				Three (3) 40mL VOAs (HCL)			
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
1336	itr	21.56	713	1.40	6.49	36.3	clr
38	1	21.60	738	1.50	6.48	-14.4	
40	2	21.65	734	0.82	5.89	-24.4	
42	3	21.70	726	0.59	5.66	-22.1	
44	4	21.71	712	0.44	5.76	-25.5	
46	5	21.68	697	0.36	5.92	-31.0	
48	6	21.69	688	0.31	6.02	-35.8	
1550	7	21.70	682	0.30	6.09	-38.3	

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

Odor	No	COMMENTS
Recharge time %	>90%	
Duplicate sample	No	
Pump intake depth	17 ft	
Sample method	pump	
bailer/from pump/system		

1554

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2	
Wellhead Condition	good	
Elevation of Top of Casing (feet above msl)		
Depth of Well	20.00	18.52
Depth to Water (from top of casing)	Before: 9.37	After: 9.38
Water Elevation (feet above msl)	Before:	After:
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling	
Well Volumes Purged	—	
Pump Speed (Default = 300 rpms)	300 RPM	
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	.5 L/min	
Actual Volume Purged (liters)	8L	
Appearance of Purge Water/Turbidity/Color	Clear	
Free Product Present?		Thickness (ft):

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size				Three (3) 40mL VOAs (HCL)			
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
1636	0	21.68	1016	2.17	6.54	97.3	c/r
38	1	22.01	985	1.90	5.62	-65.7	
40	2	22.00	974	1.37	5.80	-66.0	
42	3	21.82	766	0.77	5.92	-72.2	
44	4	21.73	956	0.56	5.87	-70.8	
46	5	21.63	941	0.45	5.77	67.8	
48	6	21.55	927	0.39	5.82	-66.9	
50	7	21.56	919	0.35	5.80	-69.0	
52	8	21.52	913	0.33	5.83	-69.9	

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

	COMMENTS
Odor	No
Recharge time %	> 90%
Duplicate sample	No
Pump intake depth	17 ft
Sample method	pump
bailer/from pump/system	

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2"14"/6")	2
Wellhead Condition	<i>good</i>
Elevation of Top of Casing (feet above msl)	
Depth of Well	20.00
Depth to Water (from top of casing)	Before: <i>9.25</i> After: <i>9.92</i>
Water Elevation (feet above msl)	Before: After:
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling
Well Volumes Purged	—
Pump Speed (Default = 300 rpms)	<i>300 RPM</i>
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	<i>0.51/min</i>
Actual Volume Purged (liters)	<i>6</i>
Appearance of Purge Water/Turbidity/Color	<i>clear</i>
Free Product Present?	— Thickness (ft): —

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size				Three (3) 40mL VOAs (HCL)			
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
<i>1342</i>	<i>0</i>	<i>21.42</i>	<i>809</i>	<i>3.46</i>	<i>6.08</i>	<i>142.0</i>	<i>clear</i>
<i>45</i>	<i>1</i>	<i>21.66</i>	<i>869</i>	<i>0.34</i>	<i>6.71</i>	<i>67.8</i>	
<i>48</i>	<i>2</i>	<i>21.71</i>	<i>888</i>	<i>0.30</i>	<i>6.52</i>	<i>44.3</i>	
<i>51</i>	<i>3</i>	<i>21.56</i>	<i>903</i>	<i>0.29</i>	<i>6.33</i>	<i>55.1</i>	
<i>54</i>	<i>4</i>	<i>21.51</i>	<i>905</i>	<i>0.27</i>	<i>6.22</i>	<i>46.2</i>	
<i>57</i>	<i>5</i>	<i>21.52</i>	<i>909</i>	<i>0.25</i>	<i>6.22</i>	<i>22.3</i>	
<i>1400</i>	<i>6</i>	<i>21.54</i>	<i>911</i>	<i>0.25</i>	<i>6.23</i>	<i>40.8</i>	<i>clear</i>

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

	COMMENTS
Odor	<i>No</i>
Recharge time %	<i>> 90%</i>
Duplicate sample	<i>No</i>
Pump intake depth	<i>17 ft</i>
Sample method	<i>Pump</i>
bailer/from pump/system	

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-4

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2" / 4" / 6")	2	
Wellhead Condition		
Elevation of Top of Casing (feet above msl)		
Depth of Well	19.51	23.00
Depth to Water (from top of casing)	Before: 10.19	After: 10.28
Water Elevation (feet above msl)	Before:	After:
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling	
Well Volumes Purged	—	
Pump Speed (Default = 300 rpms)	300 rpm	
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	0.51/min	
Actual Volume Purged (liters)	7L	
Appearance of Purge Water/Turbidity/Color	Clear	
Free Product Present?		Thickness (ft):

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size			Three (3) 40mL VOAs (HCL)					
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments	
951	0	20.40	551	1.55	7.56	356.7	Clear	
953	1	20.52	549	1.54	7.90	362.9	Clr	
56	2	20.61	548	1.53	7.73	374.3		
57	3	20.70	544	1.40	7.54	396.4		
59	4	20.74	556	1.37	7.32	409.0		
1001	5	20.86	546	1.33	7.25	415.0		
03	6	20.90	546	1.32	7.14	414.1		
1005	7	20.98	545	1.26	7.13	418.6		Clr

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

Odor	No	COMMENTS
Recharge time %	790%	
Duplicate sample	No	
Pump intake depth	19	
Sample method	pump	
bailer/from pump/system		

10/14

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-5

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2	
Wellhead Condition	good	
Elevation of Top of Casing (feet above msl)		
Depth of Well	22.91 22.00	
Depth to Water (from top of casing)	Before: 8.76	After: 8.82
Water Elevation (feet above msl)	Before:	After:
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling	
Well Volumes Purged	---	
Pump Speed (Default = 300 rpms)	300	
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	0.5L	
Actual Volume Purged (liters)	7L	
Appearance of Purge Water/Turbidity/Color	clear	
Free Product Present?		Thickness (ft):

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size			Three (3) 40mL VOAs (HCL)				
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
1030	0	21.38	707	1.86	7.14	431.0	clear
33	1	21.43	709	0.96	7.23	496.6	
36	2	21.57	711	0.62	7.11	392.7	
39	3	21.71	714	0.46	7.00	394.2	
41	4	21.80	715	0.39	6.88	385.4	
44	5	21.92	717	0.32	6.92	350.0	
47	6	21.93	717	0.30	6.85	346.4	
50	7	22.05	719	0.27	6.79	346.5	clear

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

Odor	No	COMMENTS
Recharge time %	790%	
Duplicate sample	No	
Pump intake depth	17	
Sample method	pump	
bailer/from pump/system		

1059

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: DPE-1

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4	
Wellhead Condition		
Elevation of Top of Casing (feet above msl)		
Depth of Well	14.71	15.00
Depth to Water (from top of casing)	Before: 9.70	After: 7.04
Water Elevation (feet above msl)	Before:	After:
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling	
Well Volumes Purged	-	
Pump Speed (Default = 300 rpms)	300	
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	0.5L	
Actual Volume Purged (liters)	8	
Appearance of Purge Water/Turbidity/Color	c/r	
Free Product Present?		Thickness (ft):

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size				Three (3) 40mL VOAs (HCL)			
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
1442	0	20.81	1216	0.65	6.75	-135.2	c/r 1 c/r
1444	1	21.76	1215	0.43	6.79	-141.9	
46	2	21.76	1210	0.33	6.75	-139.2	
48	3	21.79	1212	0.28	6.70	-136.4	
50	4	21.83	1210	0.25	6.71	-132.9	
52	5	21.88	1209	0.23	6.70	-128.8	
54	6	21.93	1213	0.22	6.70	-131.2	
56	7	21.94	1315	0.22	6.71	-129.6	
58	8	21.91	1311	0.20	6.73	-129.3	

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

Odor	No	COMMENTS
Recharge time %	>90%	
Duplicate sample	No	
Pump intake depth	13	
Sample method	pump	
bailer/from pump/system		

1502

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: DPE-4

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition			
Elevation of Top of Casing (feet above msl)			
Depth of Well	17.00		
Depth to Water (from top of casing)	Before: 10.01	After: 10.03	
Water Elevation (feet above msl)	Before:	After:	
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling		
Well Volumes Purged	—		
Pump Speed (Default = 300 rpms)	300		
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	0.5L		
Actual Volume Purged (liters)	7.0L		
Appearance of Purge Water/Turbidity/Color	clear		
Free Product Present?		Thickness (ft):	

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size				Three (3) 40mL VOAs (HCL)			
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
1414	0	21.04	1104	6.60	6.10	391.6	clear
16	1	21.21	1107	1.51	6.19	406.6	
18	2	21.17	1108	0.95	6.23	416.0	
20	3	21.25	1109	0.64	6.25	436.5	
22	4	21.29	1108	0.49	6.27	446.8	
24	5	21.7	1106	0.42	6.23	456.9	
26	6	21.25	1103	0.40	6.21	461.1	
28	7	21.25	1101	0.73	6.20	471.3	

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

Odor	No	COMMENTS
Recharge time %	290%	
Duplicate sample	No	
Pump intake depth	13	
Sample method	pump	
bailer/from pump/system		

1430

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: DPE-6

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2"14"16")	4	
Wellhead Condition		
Elevation of Top of Casing (feet above msl)		
Depth of Well	17.9	18.00
Depth to Water (from top of casing)	Before: 9.66	After: 9.70
Water Elevation (feet above msl)	Before:	After:
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling	
Well Volumes Purged	—	
Pump Speed (Default = 300 rpms)	300	
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	0.5L	
Actual Volume Purged (liters)	8	
Appearance of Purge Water/Turbidity/Color	Clean	
Free Product Present?		Thickness (ft):

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size				Three (3) 40mL VOAs (HCL)			
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
1510	0	20.78	453	.076	7.21	136.9	Chp
12	1	20.74	447	.37	5.77	266.9	
13	2	20.75	444	.31	5.46	321.8	
16	3	20.72	444	.27	5.40	371.9	
18	4	20.77	441	.25	5.44	425.9	
20	5	20.82	440	.24	5.56	437.0	
22	6	20.34	440	.24	5.73	451.6	
24	7	20.88	443	.23	5.76	466.4	
26	8	20.92	445	.23	5.79	465.6	

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

Odor	No	COMMENTS
Recharge time %	790%	
Duplicate sample	No	
Pump intake depth	16	
Sample method	Pump	
bailer/from pump/system		

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: DPE-8

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2" / 4" / 6")	4		
Wellhead Condition			
Elevation of Top of Casing (feet above msl)			
Depth of Well	18.00	17.93	
Depth to Water (from top of casing)	Before: 9.18	After: 9.23	
Water Elevation (feet above msl)	Before:	After:	
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling		
Well Volumes Purged	-		
Pump Speed (Default = 300 rpms)	300		
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	0.5		
Actual Volume Purged (liters)	8		
Appearance of Purge Water/Turbidity/Color			
Free Product Present?		Thickness (ft):	

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size				Three (3) 40mL VOAs (HCL)			
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
1608	0	21.39	638	2.22	6.69	420.1	
10	1	21.40	645	0.51	5.40	422.9	
12	2	21.45	645	1.39	5.23	488.0	
14	3	21.39	644	.33	5.31	502.6	
16	4	21.43	644	0.34	5.37	506.0	
18	5	21.35	645	0.25	5.56	516.1	
20	6	21.37	645	1.24	5.54	530.3	
22	7	21.37	644	1.25	5.56	539.7	
1627	8	21.37	644	1.23	5.58	542.5	

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

Odor	None	COMMENTS
Recharge time %	790%	
Duplicate sample	No	
Pump intake depth	16	
Sample method	Pump	
bailer/from pump/system		

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: DPE-9

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4
Wellhead Condition	▼
Elevation of Top of Casing (feet above msl)	
Depth of Well	17.88 18.00
Depth to Water (from top of casing)	Before: 9.19 After: 9.23
Water Elevation (feet above msl)	Before: After:
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling
Well Volumes Purged	—
Pump Speed (Default = 300 rpms)	300
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	0.5L/min
Actual Volume Purged (liters)	7L
Appearance of Purge Water/Turbidity/Color	Clr
Free Product Present?	Thickness (ft):

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size				Three (3) 40mL VOAs (HCL)			
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
1714	0	21.24	643	5.54	6.04	406.1	Clr
16	1	21.27	674	0.74	6.29	456.2	
18	2	21.31	674	1.61	6.16	468.6	
20	3	21.33	674	.50	6.03	476.4	
22	4	21.37	674	.49	5.95	486.9	
24	5	21.39	674	.50	5.94	494.7	
26	6	21.39	674	.49	5.90	502.7	
1728	7	21.38	674	.50	5.81	509.6	Clr

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

Odor	No	COMMENTS
Recharge time %	>90%	
Duplicate sample	No	
Pump intake depth	10 ft	
Sample method	pump	
bailer/from pump/system		

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: DPE-10

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2" / 4" / 6")	4	
Wellhead Condition		
Elevation of Top of Casing (feet above msl)		
Depth of Well	1673	17.00
Depth to Water (from top of casing)	Before: 9.34	After: 9.38
Water Elevation (feet above msl)	Before:	After:
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling	
Well Volumes Purged	—	
Pump Speed (Default = 300 rpms)	300	
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	0.52/min	
Actual Volume Purged (liters)	102	
Appearance of Purge Water/Turbidity/Color	clr	
Free Product Present?		Thickness (ft):

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size				Three (3) 40mL VOAs (HCL)			
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
1124	0	21.40	862	1.21	6.92	27.5	clr
27	1	21.50	864	0.95	6.65	19.4	
30	2	21.56	865	.56	6.50	61.1	
33	3	21.96	870	.41	6.43	57.6	
36	4	21.96	873	.32	6.39	22.2	
39	5	21.74	876	.29	6.37	7.83	
42	6	21.73	877	.26	6.37	-2.56	
45	7	21.77	879	.25	6.36	-11.5	
48	8	21.81	881	.24	6.36	-19.7	
51	9	21.82	881	.23	6.36	-24.6	
1154	10	21.79	881	.23	6.36	-27.7	clr

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

Odor	No	COMMENTS
Recharge time %	790%	
Duplicate sample	No	
Pump intake depth	15	
Sample method	Pump	
bailer/from pump/system		

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: DPE-11

Project Name:	Buestad	Date of Sampling:	10/24/13
Job Number:	298931	Name of Sampler:	R Flory
Project Address:	1630 Park Street, Alameda, CA		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4	
Wellhead Condition		
Elevation of Top of Casing (feet above msl)		
Depth of Well	18.0	18.00
Depth to Water (from top of casing)	Before: 9.58	After: 9.62
Water Elevation (feet above msl)	Before:	After:
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling	
Well Volumes Purged	—	
Pump Speed (Default = 300 rpms)	300	
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	0.56	
Actual Volume Purged (liters)	7	
Appearance of Purge Water/Turbidity/Color	clr	
Free Product Present?		Thickness (ft):

Purging Equipment/Pump: Peristaltic/ bladder/ centrifugal/ submersible

GROUNDWATER SAMPLES

Number of Samples / Container Size			Three (3) 40mL VOAs (HCL)				
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments
1300	0	21.81	1432	1.76	6.81	-130.1	CLR
03	1	21.10	1320	1.65	6.81	-147.0	
06	2	21.23	1318	1.54	6.75	-147.3	
09	3	21.26	1314	1.43	6.69	-149.9	
1312	4	21.28	1310	1.37	6.63	-147.2	
15	5	21.28	1307	1.32	6.59	-147.0	
18	6	21.32	1302	1.28	6.58	-145.0	
1321	7	21.31	1297	1.28	6.58	-145.7	

Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV

	COMMENTS
Odor	10
Recharge time %	> 90%
Duplicate sample	No
Pump intake depth	15
Sample method	Pump
bailer/from pump/system	