August 1, 2013

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

Subject: Perjury Statement and Report Transmittal

1600 – 1630 Park Street 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,

C Mf

John Buestad Partner of F.S.I.

JB/pm

Attachment: AEI Consultants, Groundwater Monitoring & Soil Vapor Sampling Report

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



August 1, 2013

GROUNDWATER MONITORING AND SAMPLING REPORT 2nd Quarter 2013

Property Identification:

1630 Park Street, Parcel B Alameda, California

ACEH RO#000008 AEI Project No. 298931

Prepared for:

Mr. John Buestad Foley Street Investments, LLC 1980 Mountain Boulevard, Suite 208 Oakland, CA 94611

Prepared by:

AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 (925) 746-746-6000

> National Presence Regional Focus Local Solutions

San Francisco HQ

Atlanta

Chicago

Costa Mesa

Dallas

Denver

Los Angeles

Miami

New York

Phoenix

Portland

San Jose

www.aeiconsultants.com



Environmental & Engineering Services

August 1, 2013

Mr. John Buestad Foley Street Investments, LLC 1980 Mountain Boulevard, Suite 208 Oakland, California 94611

Subject: Groundwater Monitoring and Sampling Report 2nd Quarter 2013 1630 Park Street, Parcel B Alameda, California ACEH RO#000008 AEI Project No. 298931

Dear Mr. Buestad:

AEI Consultants (AEI) has prepared this report on behalf of Foley Street Investments, LLC, for the property referenced above. AEI has been retained by Foley Street Investments, LLC to provide environmental consulting and engineering services. The ongoing investigation and remediation of the release is being performed under the direction of the Alameda County Environmental Health (ACEH) local oversight program. This report has been prepared to document the field activities and the results of recent groundwater monitoring event.

SITE DESCRIPTION AND HISTORY

The subject property (hereafter referred to as the "site" or "property") is located in a commercial area on the southeast side of Park Street in Alameda, California (Figure 1 and Figure 2). The property is currently a vacant lot which formerly contained an automobile dealership, repair facility, and parking lot.

According to a Phase I Environmental Site Assessment dated July 5, 2011 by AEI, the former building was constructed in 1945 for use as an automobile garage and showroom. A review of historical city directories indicates that the subject property was occupied by various auto dealerships and repair facilities including Good Chevrolet/Good Leasing from at least 1971 to 2006, Fairway Leasing from 1986 to 2006, and Enterprise Rent-A-Car in 1991.

- In 1986, a 300-gallon waste oil underground storage tank (UST) and a 500-gallon UST were reportedly removed from the north end of the building property by Petroleum Engineering, Inc. Soil samples collected from the adjacent tank pits indicated hydrocarbon impacts in the soils. An environmental case was subsequently opened with the ACEH.
- In January 1987, three groundwater monitoring wells (MW-1 through MW-3) were installed at the site to evaluate the groundwater conditions. Two additional borings (SB-4

and SB-5) were advanced at the same time and soil samples were collected from one of the borings (SB-5).

- In October 1993, a supplemental investigation was performed by Geo Plexus which included advancing seven (7) soil borings (EB1 through EB7) across the parking area of the property. The investigation identified concentrations of hydrocarbons and volatile aromatic compounds in the vicinity of the former USTs at depths between 5 to 12 feet below ground surface (bgs).
- In April 1994, two additional groundwater monitoring wells (MW-4 and MW-5) were installed by Geo Plexus to further characterize the downgradient groundwater conditions.
- In January 1997, a remedial investigation was performed by Geo Plexus which included advancing eight (8) soil borings (EB8 through EB12 and P1 through P3) at locations which were immediately upgradient, downgradient, and cross gradient from the former USTs. Soil samples were collected from EB8 through EB12). The investigation indicated that gasoline impacted soil remained at depths ranging from 7 to 11 feet bgs.
- In November 1998, an investigation for a risk assessment was performed by Geo Plexus. The investigation involved the collection of soil gas samples from three (3) soil gas probes. Soil gas samples were collected at a depth of 3 feet bgs and collected in summa canisters. Using a commercial health risk of 1 x 10⁻⁴, a risk-based corrective action analysis indicated that soil gas concentrations do not represent a significant health risk.
- In April 2008, Blymer Engineers collected soil and groundwater samples from 24 soil borings (GP1 to GP24) on and offsite to characterize the extent of soil and groundwater impacts. It should be noted that AEI was not able to review a formal report of these activities, only tables of soil and groundwater data and figures have been located.
- In June 2011, a Phase I ESA was conducted for the subject property as detailed in a report dated July 5, 2011 (AEI 2011a).
- In July 2011, a subsurface investigation was conducted at the property relating to potential environmental issues aside from the Good Chevrolet LUST case. The areas of concern investigated include five former and five existing underground hydraulic lifts, several floor drains, three existing USTs (1 550-gallon waste-oil UST, 1 10,000 gallon and 1 4,000 gallon gasoline UST), and a former gasoline station identified on the southern end of the development site at the intersection of Park Street and Tilden Way. 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* (AEI 2011b) prepared by AEI.
- An Interim Corrective Action Plan (ICAP) dated September 28, 2011 (AEI 2011c) was submitted and followed by an ICAP Comment Letter Response and Pilot Test Workplan Details dated November 14, 2011 (AEI 2011d). Both documents proposed the performance a High Vacuum Dual Phase Extraction (HVDPE) Pilot Test at the site. A review of multiple remedial options was discussed in these documents and HVDPE was considered the most feasible option given the site conditions.
- In November 2011, three (3) dual phase extraction wells (DPE-1, DPE-2 and DPE-3) and one (1) air sparge well (AS-1) were installed. In early December, three vacuum monitoring points (VP-1, VP-2 and VP-3) were installed and pilot testing began. Results of the HVDPE pilot test were preliminarily provided in the *Investigation and Remedial Action Workplan* dated January 12, 2012 (AEI 2012a). The work plan also proposed the advancement of additional borings and the installation of additional HVPDE wells. In January 2012, borings AEI-20 through AEI-28 were advanced and wells DPE-4 through DPE-6, and DPE-8 through DPE-11 were installed. DPE-7 was advanced as a boring



instead of being completed as a well. Soil sample analytical results for samples collected during the drilling were used to help define the extent of impacted soil and groundwater and to identify target areas for additional remedial action.

- A *Corrective Action Plan* (CAP) dated February 3, 2012, (AEI 2012b) was submitted to the ACEH. The CAP documented the December 2011 to January 2012 HVDPE event and based on the results, recommended HVDPE as the remedial option for the site.
- On January 25, 2012, based on the results of the pilot testing, the HVDPE system resumed operation. The system was operated for 94 days and was turned off on April 25, 2012.
- At the request of the ACEH, a *Data Gap and Interim Source Removal Workplan*, was prepared and submitted on May 4, 2012 (AEI 2012c). The work plan outlined the scope of work to define the lateral extent of impacted groundwater and proposed excavation of known sources of impacts to groundwater. An addendum to the workplan to address ACEH comments was submitted on September 7, 2012 and conditionally approved on October 5, 2012.
- On October 22 to 29, 2012 interim source removal activities were conducted at the site. Approximately 450 tons of hydrocarbon impacted soil were removed from the three excavation areas. The results of the activities were detailed in the *Interim Source Removal Report and Well Abandonment and Replacement Workplan Addendum*, dated December 7, 2012 (AEI 2012d). Observations made during the excavations and confirmation soil sampling of the excavation bottoms and sidewalls indicate the following:
 - Former UST-hold (Excavation E1): Hydrocarbon impacts in soil at this location are substantially remediated. One sidewall soil sample was found to slightly exceed the ESLs for THP-g and xylenes and two sidewall samples exceeded the ESLs for benzene. The objectives of this excavation were met since the bottoms samples were below the agreed upon target concentrations.
 - <u>Three former hydraulic lifts (Excavation E2)</u>: Hydrocarbon impacts in soil at this location are substantially remediated. One sidewall sample collected from the west wall (closest to the former UST pit) contained concentrations of TPH-g, TPH-mo, ethylbenzene and xylenes at concentrations that exceeded the ESLs. The objectives of this excavation were met since the bottoms samples were below the agreed upon target concentrations.</u>
 - Former hydraulic lift near DPE-5 (Excavation E3): Hydrocarbon impacts in soil at this location remain in the sidewalls at depths between approximately 7 to 11.5 feet bgs. Concentrations of TPHg, TPH-mo and BTEX exceeded the ESLs in all sidewall samples. The objectives of this excavation were met since the bottom samples were below the agreed upon target concentrations.
 - Groundwater monitoring and sampling has been ongoing at the site since 1992. It was conducted approximately quarterly from 1992 through 1995, then sporadically through 2003, once in 2008, and twice in 2011. Groundwater has been monitored on a quarterly basis since December 2011. Soil vapor monitoring from the three vapor monitoring points installed during the HVPDE pilot test was added to the quarterly monitoring schedule in May 2012 and was performed for four consecutive quarters.



SUMMARY OF GROUNDWATER MONITORING ACTIVITIES

On May 1, 2013, thirteen (13) groundwater monitoring wells (MW-1 to MW-5, DPE-1, DPE-2, DPE-4, DPE-6, DPE-8, DPE-9, DPE-10 and DPE-11) were gauged and sampled in accordance with the groundwater monitoring schedule presented in the May 2012, *Data Gap Investigation and Interim Source Removal Workplan* (AEI, 2012c). Well DPE-3 was abandoned in August 2012. During the gauging of well DPE-5, it was found to contain a layer of light non-aqueous phase liquid (LNAPL) hydrocarbon which was sampled on May 6, 2013. Groundwater well field sampling forms are included in Appendix A.

GAUGING

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.

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 Analytical, Inc. of Pittsburg, California (Department of Health Services Certification #1644) for analysis. The LNAPL sample was delivered via overnight shipment to Friedman & Bruya, Inc. laboratory in Seattle, Washington, for forensic evaluation.

The groundwater samples were analyzed for:

- Total Petroleum Hydrocarbons as gasoline (TPH-g) by EPA Method SW8015B Modified, TPH as diesel (TPH-d) and TPH as motor oil (TPH-mo) by EPA Method SW8015B with silica gel clean-up; and
- Benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method SW8260B.

The LNAPL sample was analyzed for:

- Simulated distillation; and
- Gas chromatography with a flame ionization detector (GC/FID) with silica gel clean-up.



GROUNDWATER MONITORING RESULTS

GROUNDWATER ELEVATIONS AND HYDRAULIC GRADIENT

The measured depth to water was subtracted from the surveyed top-of-casing elevation for each well to obtain the groundwater elevation at each well. The groundwater elevations, groundwater flow direction and hydraulic gradient are summarized below:

- The groundwater elevations during this event ranged from 16.21 (MW-4) to 18.64 (DPE-6) feet above mean sea level (amsl). Depth to water ranged from 7.03 (MW-1) to 9.37 (MW-4) below ground surface. The average groundwater elevation for this event was 0.41 feet lower than the previous event.
- Based on these data, the groundwater flow direction was to the northwest under a hydraulic gradient of approximately 0.02 ft/ft which is consistent with previous events.
- Well DPE-5 contained 0.17 feet of LNAPL hydrocarbon. This is the first occurrence of measurable LNAPL in a well at the site.

Current and historical groundwater elevations are summarized in Table 2. The groundwater elevation data, flow direction and hydraulic gradient are presented on Figure 3.

GROUNDWATER AND LNAPL SAMPLE LABORATORY ANALYTICAL DATA

The groundwater sample analytical data, with a comparison to the previous monitoring event, are summarized below:

- Concentrations of TPH-g increased in wells MW-2, MW-5, DPE-1, DPE-2, DPE-4, DPE-8 and DPE-10 compared to the prior event; however, the recent concentrations across the site are well below historical levels. TPH-g was not detected or decreased in all other wells compared to prior events. The highest concentration of TPH-g was reported in the sample collected from well DPE-10 at 3,700 micrograms per liter (µg/L). TPH-d was detected in 8 of the wells sampled. The highest concentration of TPH-d was reported in the sample collected from DPE-10 at 2,600 µg/L; however, qualitative laboratory notations indicate that this detection of TPH-d is associated with gasoline.
- TPH-mo was detected only in DPE-6 well at a concentration of 1,200 µg/L.
- MTBE was not detected in any well during the event.
- Concentrations of benzene in groundwater samples increased slightly in wells MW-1, MW-2, MW-4, MW-5, DPE-2, DPE-4, DPE-6, DPE-8, and DPE-10 and decreased in all other wells compared to prior events. The highest concentration of benzene was reported in the sample collected from well DPE-10 at 56 µg/L. In general, benzene concentrations are well below historic levels.
- Groundwater samples from two wells (MW-3 and DPE-11) were non-detect for all analytes for this event.



• Well DPE-5 contained 0.17 feet of LNAPL hydrocarbon and therefore, no groundwater sample was collected from this well. A sample of the LNAPL was collected and submitted for forensic analysis. The LNAPL was found to be composed primarily of oil (presumably hydraulic or motor oil) mixed with some extensively degraded gasoline.

The groundwater analytical data are summarized in Table 3 and are presented graphically on Figure 4. Laboratory analytical reports with chain of custody and quality assurance/quality control documentation are included in Appendix B.

SUMMARY OF SOIL VAPOR SAMPLING ACTIVITIES

No soil vapor samples were collected from the three onsite (3) soil vapor probes (VP-1, VP-2, and VP-3) during this quarter. During previous groundwater monitoring events, the three onsite (3) soil vapor probes (VP-1, VP-2, and VP-3) were sampled. The purpose of the sampling was to establish a baseline concentrations post interim remediation and as part of an evaluation of vapor intrusion potential. Data from those probes indicated non-detectable concentrations of TPH related constituents of concern over the previous four quarterly sampling events. Several VOCs including tetrachloroethene (PCE), hexane, ethanol and tert-butyl-alcohol have been sporadically detected in soil vapor at concentrations below the ESLs. See Table 4.

At the request of ACEH, a soil vapor survey was conducted on April 16, 2013, using seven temporary soil gas probes installed to a depth of 5 feet bgs across the western portion of site where new buildings are proposed. The results of the sampling indicated non-detectable concentrations of petroleum constituents of concern. PCE was detected in one location (SV-5) at a concentration well below the ESL. Results of the April soil vapor survey are included in Table 4. A map showing the location of the soil vapor probes and a copy of the laboratory analytical report are included as Appendix C.

SUMMARY

AEI completed a groundwater monitoring and sampling event on May 1, 2013. Thirteen wells were monitored as per the proposed groundwater monitoring schedule. The results of the groundwater monitoring are summarized below:

Groundwater flow is toward northwest under a hydraulic gradient of 0.02 ft/ft, consistent with historic data.

TPH-g, TPH-d, benzene, toluene, ethylbenzene, and total xylenes were detected in groundwater around the release area. In general and over time, the concentrations appear to be decreasing as a result of recent remedial efforts. MTBE was not detected in any groundwater samples.

Well DPE-5 contained 0.17 feet of LNAPL hydrocarbon. Forensic analysis of the LNAPL suggests the material is composed primarily of oil with some extensively degraded gasoline. This was the first occurrence of measurable LNAPL in a well at the site.

Soil vapor samples collected from seven locations across the site showed non-detectable concentrations of TPH-g, TPH-d, BTEX and naphthalene.



Tetrachloroethene (PCE) was detected in soil vapor collected from SV-5 located near the center of the proposed building. The laboratory reported a concentration of 100 μ g/m3 in SV-5, well below the commercial/industrial ESL of 2100 μ g/m3. PCE degradation by-products TCE and 1,2-dichlorethene were not detected in any of the samples. The PCE degradation by-product, vinyl chloride, was not reported due to the analytical method used (TO-17), however; the low concentration of PCE combined with the lack of the remaining degradation by-products suggests that vinyl chloride would not be present at significant concentrations.

Based on the results of recent groundwater monitoring, groundwater quality has significantly improved since HVDPE implementation and source area excavation. Natural attenuation is expected to continue to reduce impact to groundwater. No further quarterly groundwater monitoring and sampling events are scheduled at this time. Groundwater and soil gas may be sampled from selected wells, as needed, to fill remaining data gaps.



REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work and were performed under the direction of appropriate California-licensed professionals.

Should you have any questions, or need any additional information regarding this report, please do not hesitate to contact us at (925) 746-6000.

Sincerely, **AEI Consultants Robert Robitaille** Stephen Lao FRED Project Engineer Program Manager PETER J MCINTYRE Peter McIntyre, PG No. 7702 Executive Vice/President Principal Geologist CALIF

ATTACHMENTS

Figures

- Figure 1 Site Location Map
- Figure 2 Site Plan
- Figure 3 Groundwater Elevation Data
- Figure 4 Groundwater Analytical Data

- Table 1 Well Construction Details
- Table 2 Groundwater Elevation Data
- Table 3 Groundwater Analytical Data
- Table 4Soil Vapor Analytical Data



Appendices

Appendix A Field Sampling FormsAppendix B Groundwater and LNAPL Sample Laboratory Analytical ReportsAppendix C Soil Vapor Sample Laboratory Analytical Reports

REFERENCES

AEI Consultants (AEI) 2011a. Phase I Environmental Site Assessment, 1600 – 1650 Park Street, 1600 – 1606 Foley Street, 2329 Pacific Avenue, Alameda, California, July 5, 2011.

AEI Consultants (AEI) 2011b. Phase II Subsurface Investigation, 1600 to 1630 Park Street, Alameda, California, August 16, 2011.

AEI Consultants (AEI) 2011c. Interim Corrective Action Plan, 1630 Park Street, Alameda, California, September 2011.

AEI Consultants (AEI) 2011d. ICAP Comment Letter Response and Pilot Test Workplan Details, 1630 Park Street, Alameda, California, November 14, 2011.

AEI Consultants (AEI) 2012a. Investigation and Remedial Action Workplan, 1630 Park Street, Alameda, California, January 12, 2012.

AEI Consultants (AEI) 2012b. Corrective Action Plan, 1630 Park Street, Alameda, California, February 3, 2012.

AEI Consultants (AEI) 2012c. Data Gap and Interim Source Removal Workplan, 1630 Park Street, Alameda, California, May 4, 2012.

AEI Consultants (AEI) 2012d. Interim Source Removal Report and Well Abandonment and Replacement Workplan Addendum, 1630 Park Street, Alameda, California, December 7, 2012

RWQCB 2013. Environmental Screening Levels, Table F-1a & E-2, San Francisco Regional Water Quality Control Board

DISTRIBUTION

John Buestad, Foley Street Investments

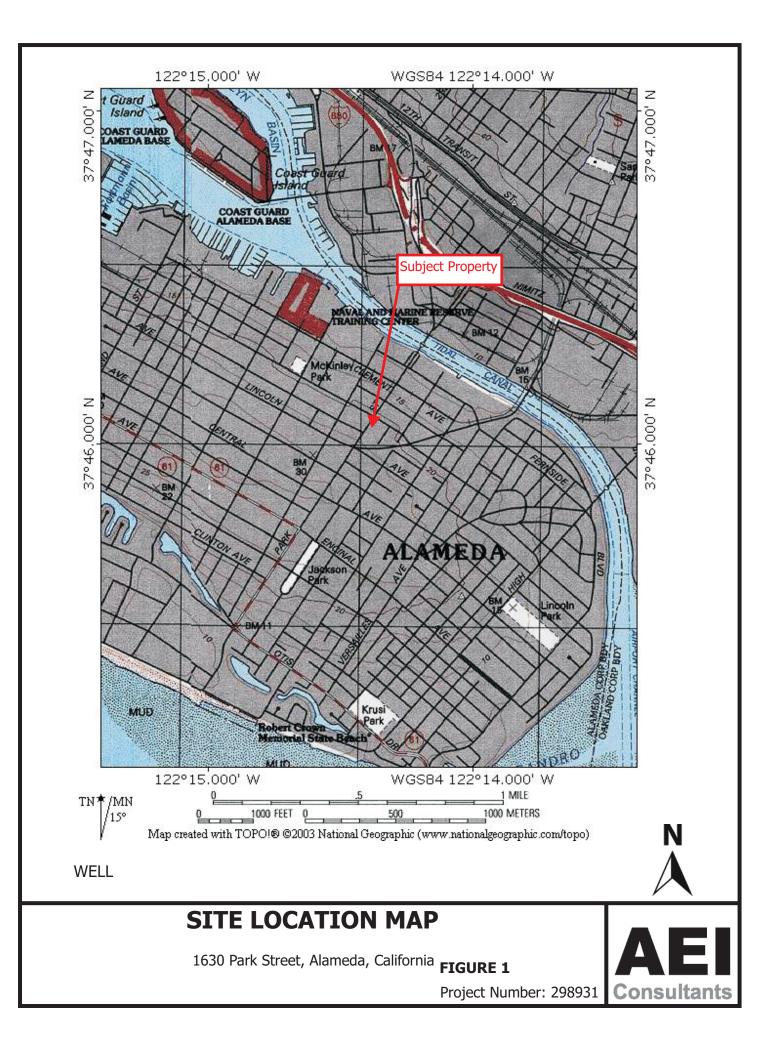
Karel Detterman, Alameda County Environmental Health Department (FTP Upload)

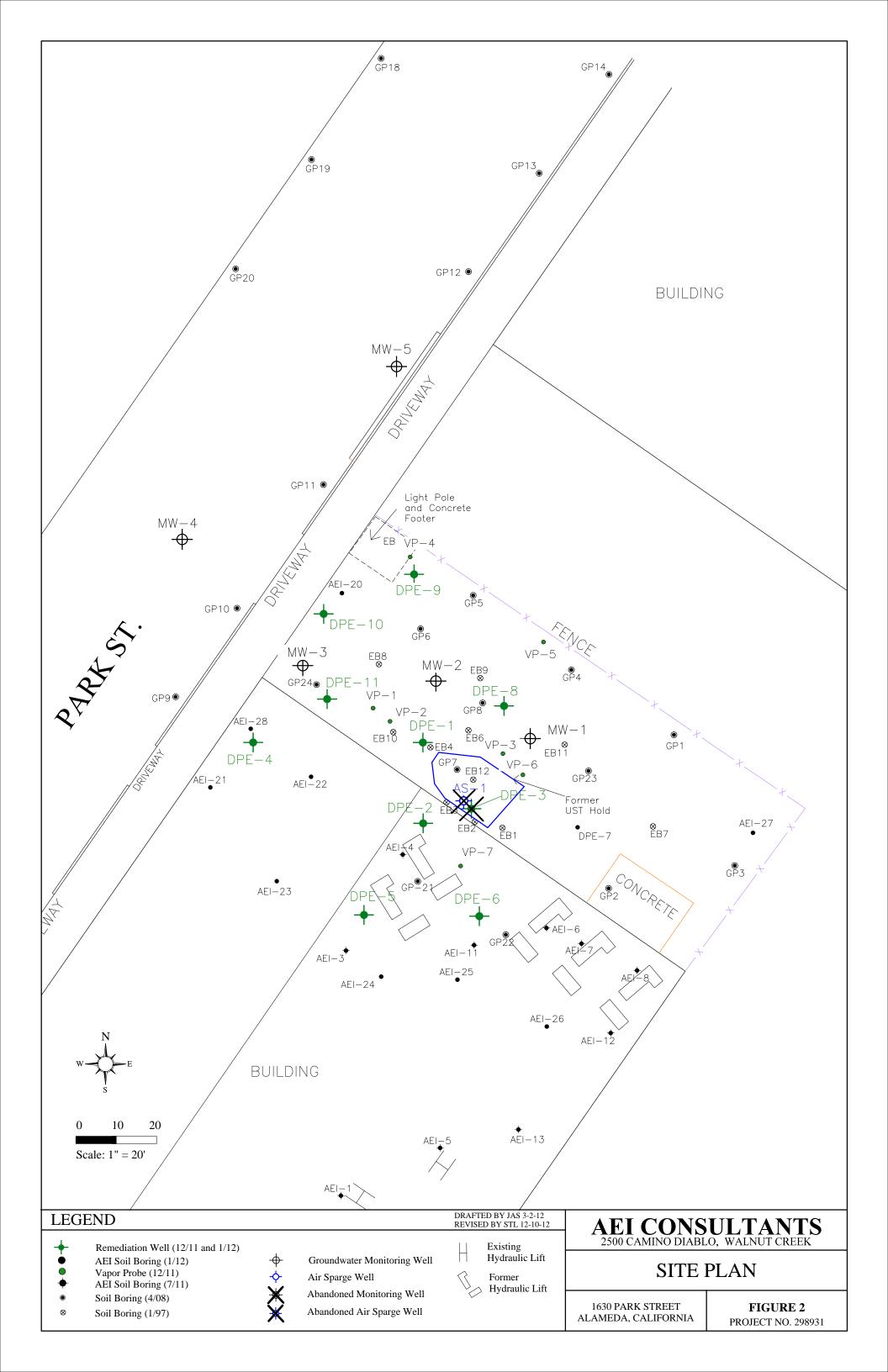
GeoTracker (Upload)

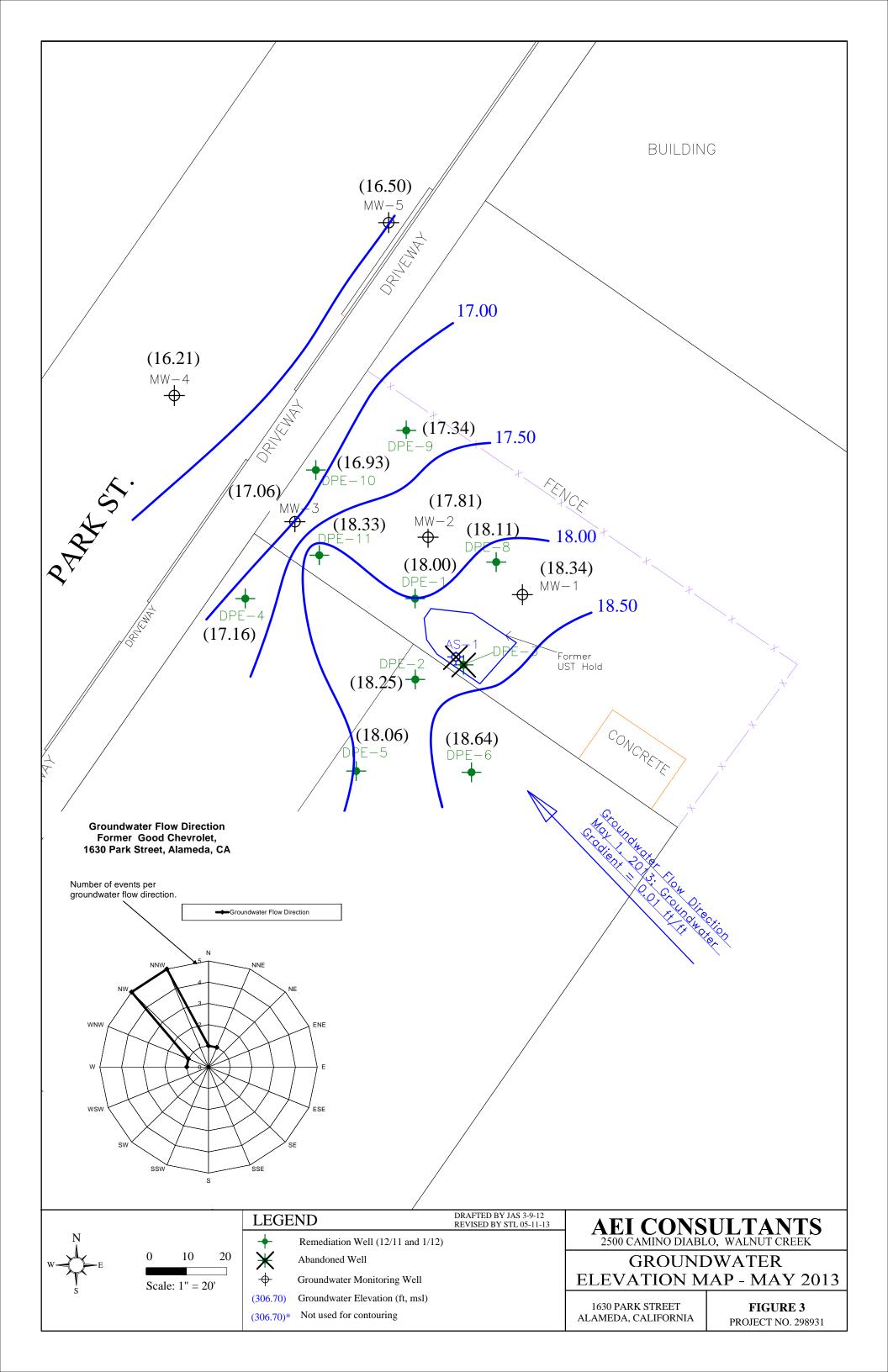


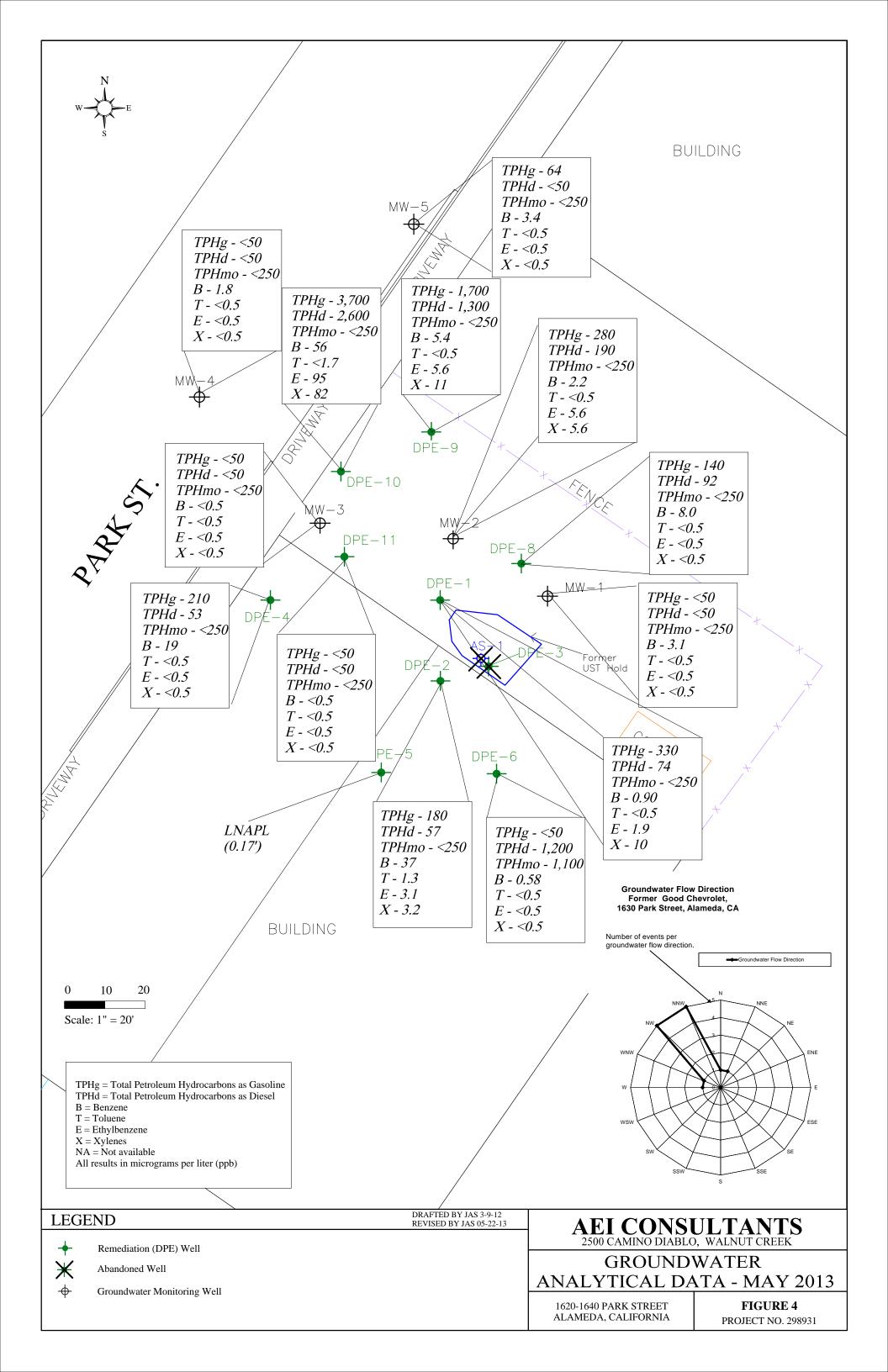
FIGURES











TABLES



Well Construction Details

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

Well ID Number	Well Installation Date	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	-	PVC	25	25	8	2	20 - 25	0.020	20 - 25	#3 Sand
DPE-1	11/15/2011	25.88	PVC	16	15	10	4	7 - 15	0.010	6.5 - 16	#2/12 Sand
DPE-2	11/15/2011	26.22	PVC	16	15	10	4	7 - 15	0.010	6.5 - 16	#2/12 Sand
DPE-3	11/14/2011	25.27	PVC	16	14	10	4	7 - 14	0.010	6.5 - 16	#2/12 Sand
DPE-4	1/19/2012	26.06	PVC	17	17	10	4	8 - 17	0.010	7.5 - 17	#2/12 Sand
DPE-5	1/20/2012	26.25	PVC	18	18	10	4	8 - 18	0.010	7.5 - 18	#2/12 Sand
DPE-6	1/20/2012	26.13	PVC	18	18	10	4	8 - 18	0.010	7.5 - 18	#2/12 Sand
DPE-8	1/20/2012	25.36	PVC	18	18	10	4	8 - 18	0.010	7.5 - 18	#2/12 Sand
DPE-9	1/20/2012	25.09	PVC	18	18	10	4	8 - 18	0.010	7.5 - 18	#2/12 Sand
DPE-10	1/20/2012	25.14	PVC	17	17	10	4	8 - 17	0.010	7.5 - 17	#2/12 Sand
DPE-11	1/20/2012	25.57	PVC	18	18	10	4	8 - 18	0.010	7.5 - 18	#2/12 Sand
MW-1	1/15/1987	25.37	PVC	-	20	8	2	5 - 20	-	-	-
MW-2	1/15/1987	25.48	PVC	-	20	8	2	5 - 20	-	-	-
MW-3	1/15/1987	25.13	PVC	-	20	8	2	5 - 20	-	-	-
MW-4	4/20/1994	25.58	PVC	-	23	8	2	8 - 23	-	-	-
MW-5	4/20/1994	24.32	PVC	-	22	8	2	7 - 22	-	-	-
VP-1	12/6/2011	-	Stainless Steel	6	6	1.25	1/4	5.1 - 5.6	Mesh	4.7 - 6	#30 Mesh Sand
VP-2	12/6/2011	-	Stainless Steel	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	-	Stainless Steel	5.75	5.75	1.25	1/4	5.1-5.6	Mesh	4.7-5.75	#30 Mesh Sand

TOC = top of casing PVC = polyvinyl chloride AS-1 = indicates well has been abandoned

"-" = not available

Table 2
Groundwater Elevation Data
AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation	Depth to Water	Groundwater Elevation
		(ft amsl*)	(ft)	(ft amsl*)
				· ·
MW-1	Jul-89	104.76	8.93	95.83
(5 - 20 feet bgs)	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
1014 0	h.d. 00	104.0/	0.24	05 ()
MW-2	Jul-89	104.86	9.24	95.62
(5 - 20 feet bgs)	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 Mar-93		7.85	97.01
			7.77	97.09
	Apr-93 May-93		7.86 8.20	97.00 96.66
	Jul-93		8.20	96.00 96.14
	Oct-93		9.64	96.14 95.22
	Jan-94		9.04	95.74
	Apr-94		9.12 8.56	95.74 96.30
	Jul-94		9.02	95.84
	Oct-94		9.02	95.84
	Jan-94		7.71	97.15
	Apr-95		7.40	97.15
	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	97.48
	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	17.07
	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		
	rep-13		7.17	18.31
I	May-13	25.48	7.67	17.81

Table 2	
Groundwater Elevation Data AEI Project No. 298931, 1620-1640 Park Street, Alam	eda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation (ft amsl*)	Depth to Water <i>(ft)</i>	Groundwater Elevation (ft amsl*)
MW-3 (5 - 20 feet bgs)	Jul-89 Apr-91 Jul-92 Sep-92 Oct-92 Nov-92 Dec-92 Jan-93 Feb-93 Mar-93 Apr-93 May-93 Jul-93 Oct-93 Jan-94 Apr-94 Jul-94 Oct-94 Jan-94 Oct-94 Jan-94 Oct-94 Jan-94 Oct-94 Jan-94 Apr-95 Jan-97 Nov-98 Jan-01 Jun-02 Nov-02 Feb-03 Jun-03 Apr-08 Jun-03 Apr-08 Jun-03 Apr-08 Jun-03 Jun-03 Apr-08 Jun-11 Dec-11 Jan-12 May-12 Jul-12 Nov-12 Feb-13 May-13	104.52 25.17 25.17 25.13 25.13 25.13 25.13 25.13 25.13 25.13 25.13	9.00 8.06 8.82 9.05 9.09 9.12 8.18 7.94 8.02 7.69 8.65 9.32 8.93 8.52 8.86 9.25 7.64 7.75 8.38 8.00 7.81 8.37 7.74 7.74 7.50 8.25 8.25 8.25 8.25 7.64 7.97 8.40 7.97 8.40 7.97 8.40 7.97	95.52 96.46 95.70 95.47 95.43 95.37 95.47 95.40 96.34 96.58 96.50 96.83 95.87 NC NC 96.00 95.86 95.87 NC NC 96.00 95.66 95.27 96.67 96.88 96.77 96.67 96.88 96.77 96.71 96.14 96.52 96.71 96.15 97.04 96.85 17.43 17.67 16.88 16.88 16.88 16.88 16.88 16.88 17.49 17.16 16.73 17.64 17.06
MW-4 (8 - 23 feet bgs)	Apr-94 Jul-94 Oct-94 Apr-95 Jan-97 Nov-98 Jan-01 Jun-02 Nov-02 Feb-03 Jun-03 Apr-08 Jun-03 Apr-08 Jun-11 Dec-11 Jan-12 May-12 Jul-12 Nov-12 Feb-13 May-13	25.53 25.53 25.53 25.58 25.58 25.58 25.58 25.58 25.58 25.58 25.58 25.58	9.29 9.55 9.83 8.88 8.80 - - - - - - 8.73 8.73 8.52 - - 8.96 9.26 10.04 9.15 9.37	95.57 95.31 95.03 95.98 96.06 - - - - - - - - - - - - - - - - - - -
MW-5 (7 - 22 feet bgs)	Apr-94 Jul-94 Oct-94 Jan-94 Apr-95 Jan-97 Nov-98 Jan-01 Jun-02 Nov-02 Feb-03 Jun-03 Apr-08 Jun-11 Dec-11 Jan-12 May-12 Jul-12 Nov-12 Feb-13 May-13	24.31 24.31 24.32 24.32 24.32 24.32 24.32 24.32 24.32 24.32 24.32 24.32	8.27 8.50 8.92 7.61 8.48 6.79 8.12 7.67 7.61 8.01 7.22 7.43 7.36 7.43 7.36 7.43 7.36 7.43 7.43 7.46 7.76 8.47 7.59 7.82	95.35 95.12 94.70 96.01 95.14 96.83 95.50 95.95 96.01 95.61 96.40 96.19 16.95 16.88 16.56 15.85 16.73 16.50

Table 2
Groundwater Elevation Data
AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Well ID	Date	Well	Depth to	Groundwater
(Screen Interval)	Collected	Elevation	Water	Elevation
		(ft amsl*)	(ft)	(ft amsl*)
005.4	5 44	05.00	0.01	47.07
DPE-1	Dec-11	25.88	8.81	17.07
(7 - 15 feet bgs)	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
DPE-2	Dec-11	26.22	9.29	16.93
(7 - 15 feet bgs)	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
DPE-3	Dec-11	25.27	7.92	17.35
(7 - 15 feet bgs)	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	Jan-12	26.06	9.11	16.95
	Jan-12 May-12	26.06		16.95
(8-17 feet bgs)			8.59	
	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
DPE-5	Jan-12	26.25	-	-
(8-18 feet bgs)	Nov-12	26.25	9.94	16.31
	Feb-13	26.25	7.72	18.53
	May-13	26.25	8.19	18.06
DPE-6	Jan-12	26.13	8.58	17.55
(8-18 feet bgs)	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
DPE-8	Jan-12	25.36	-	
(8-18 feet bgs)	Nov-12	25.36	8.31	17.05
(0-10 leet bys)	Feb-13	25.36	6.69	18.67
	May-13	25.36	7.25	18.11
555.0	- 10	05.00	0.40	44.07
DPE-9	Jan-12	25.09	8.12	16.97
(8-18 feet bgs)	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
DPE-10	Jan-12	25.14	-	-
(8-17 feet bgs)	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
DPE-11	Jan-12	25.57	-	_
(8-18 feet bqs)	May-12	25.57	- 7.90	- 17.67
(0.10.000.000)	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
August	-		0.45	17 11
Average depth to water	Dec-11 Jan-12		8.45 8.48	17.11 17.15
GW elev	May-12		7.70	17.82
	Jul-12		8.03	17.45
			8.81	16.73
	Nov-12			
	Nov-12 Feb-13			
	Nov-12 Feb-13 May-13		7.51 7.92	18.03 17.62

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

Groundwater Analytical Data- Monitoring Wells AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Sample	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene ods 8020, 8		Ethylbenzene	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA	DIPE hod 8260	Ethanol	ETBE	Methanol	Lead
ID			(µg/L)	(µg/L)	(µg/L)	οus 8020, 6 (μg/L)	(µg/L)	8260B (μg/L)	(µg/L)	(µg/L)	(µg/L)	(ua/L)	(µg/L)	(ua/L)	(µg/L)	μg/L)	ир/L)	(µg/L)	(µg/L)	(µg/L)
			(=)	(19) -)	(19) -)	(19) -)	(19) =)	(19) -)	(19) -)	(#9/=/	(19/-)	(1-16-1)	(#9/ =/	(19) -)	(#9/=/	(19) -)	(#9/=/	(#9/-/	(19) -)	(#9/=/
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	а	-	-	2,200	720	180	82	150	-	-	-	-	-	-	-	-	-	-	-
	7/8/1993	а	-	-	3,200	1,200	110	97	100	-	-	-	-	-	-	-	-	-	-	-
	10/15/1993	а	-	-	3,700	1,400	43	94	36	-	-	-	-	-	-	-	-	-	-	-
	1/25/1994	а	-	-	1,600	680	16	41	35	-	-	-	-	-	-	-	-	-	-	-
	4/28/1994	а	-	-	6,100	1,900	380	250	340	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	а	-	-	6,000	1,800	510	220	450	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	а	-	-	3,000	1,100	79	82	87	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	а	-	-	1,600	660	100	82	87	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	а	-	-	3,800	1,200	270	120	260	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	а	-	-	5,200	1,500	450	190	400	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	а	-	-	5,900	1,800	450	210	400	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	а	-	-	3,100	1,100	87	160	180	<7.3	-	-	-	-	-	-	-	-	-	-
	11/12/1998	а	-	-	1,000	280	3	3.3	7.9	<30	-	-	-	-	-	-	-	-	-	-
	1/16/2001	а	-	-	4,700	1,20	18	150	49	-	<5	<5.0	<25	<5.0	<5.0	<5.0	-	<5.0	-	-
	6/27/2002	а	-	-	5,900	230	7.7	<5	1,500	-	<5	<5.0	<50	<5.0	<5.0	<5.0	-	<5.0	-	-
	11/18/2002	а	-	-	3,100	890	12	310	28	-	<2.5	-	-	<2.5	<2.5	-	-	-	-	-
	2/20/2003	d	-	-	260	100	0.72	< 0.5	< 0.5	-	< 0.5	-	-	<0.5	< 0.5	-	-	-	-	-
	6/11/2003	а	-	-	3,100	480	6.7	220	420	-	<2.5	-	-	<2.5	<2.5	-	-	-	-	-
	4/3/2008	а	-	-	2,700	280	21	130	230	<25	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<100	<1.0	<1,000	< 0.5
	6/23/2011	а	-	-	610	100	6.2	46	77	-	<2.5	<2.5	<10	-	-	<2.5	-	<2.5	-	-
	12/6/2011	а	-	-	900	160	<5.0	68	76	-	<5.0	<5.0	<20	-	-	<5.0	-	<5.0	-	-
	1/24/2012	а	-	-	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	а	700	<250	2,700	190	8.1	100	230	<5.0	-	-	-	-	-	-	-	-	-	-
	11/16/2012	С	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	-									

Groundwater Analytical Data- Monitoring Wells AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g EPA Meth	Benzene ods 8020, 8		Ethylbenzene 8260B	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA EPA Met	DIPE hod 8260	Ethanol B	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(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	а	-	-	52,000	13,000	8,400	1,700	5,300	-	-	-	-	-	-	-	-	-	-	-
	7/8/1993	а	-	-	6,400	2,500	470	280	530	-	-	-	-	-	-	-	-	-	-	-
	10/15/1993	а	-	-	17,000	3,900	870	500	940	-	-	-	-	-	-	-	-	-	-	-
	1/25/1994	а	-	-	16,000	5,400	1,140	640	1,500	-	-	-	-	-	-	-	-	-	-	-
	4/28/1994	а	-	-	15,000	4,00	910	480	1,200	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	а	-	-	18,000	6,000	760	630	1,600	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	а	-	-	9,500	2,700	230	320	640	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	а	-	-	5,900	1,900	290	230	500	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	а	-	-	10,000	3,300	620	360	930	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	а	-	-	9,900	3,300	320	390	830	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	а	-	-	13,000	4,900	400	580	990	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	а	-	-	7,600	2,600	310	330	660	<20	-	-	-	-	-	-	-	-	-	-
	11/12/1998	а	-	-	31,000	11,000	750	1,500	2,300	<900	-	-	-	-	-	-	-	-	-	-
	1/16/2001	а	-	-	23,000	8,200	260	1,000	820	< 30	-	<30	<150	< 30	< 30	< 30	-	<30	-	-
	6/27/2002	а	-	-	39,000	7,000	1,800	690	4,000	-	<5	<5.0	<5.0	<5.0	6.1	<5.0	-	<5.0	-	-
	11/18/2002	а	-	-	15,000	5,700	76	1,000	150	-	<12	-	-	<12	<12	-	-	-	-	-
	2/20/2003	а	-	-	26,000	6,300	1,100	1,300	1,900	-	<5.0	-	-	<5.0	<5.0	-	-	-	-	-
	6/11/2003	а	-	-	37,000	7,100	2,300	2,000	3,600	-	<25	-	-	<25	<25	-	-	-	-	-
	4/3/2008	а	-	-	4,100	760	96	250	130	<50	<2.5	<2.5	<10	<2.5	<2.5	<2.5	<250	<2.5	<2,500	<0.5
	6/23/2011	а	-	-	6,500	2,100	210.0	560	310	-	<50	<50	<200	-	_	<50	_	<50	-	_
	12/6/2011	а	-	-	4,800	1,600	<50	260	<50	-	<50	<50	<200	-	-	<50	-	<50	-	-
	1/24/2012	а	-	-	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	-									

Groundwater Analytical Data- Monitoring Wells AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g FPA Moth	Benzene ods 8020, 8		Ethylbenzene	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA FPA Met	DIPE hod 8260	Ethanol	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(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	а	-	-	6,500	2,600	280	260	190	-	-	-	-	-	-	-	-	-	-	-
	7/8/1993	а	-	-	5,200	2,100	260	250	180	-	-	-	-	-	-	-	-	-	-	-
	10/15/1993	а	-	-	11,000	3,500	580	430	370	-	-	-	-	-	-	-	-	-	-	-
	1/25/1994	а	-	-	6,200	2,500	270	160	28	-	-	-	-	-	-	-	-	-	-	-
	4/28/1994	а	-	-	5,300	1,700	190	210	180	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	а	-	-	5,900	2,000	360	260	330	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	а	-	-	8,000	2,200	580	260	170	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	а	-	-	3,700	1,200	150	150	190	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	а	-	-	4,000	1,400	200	180	210	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	а	-	-	5,700	2,000	280	270	280	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	а	-	-	11,000	3,500	1,100	460	680	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	а	-	-	2,200	860	63	71	80	<5	-	-	-	-	-	-	-	-	-	-
	11/12/1998	d	-	-	180	44	0.51	<0.5	0.92	<20	-	-	-	-	-	-	-	-	-	-
	1/16/2001	а	-	-	64	11	0.77	< 0.5	< 0.5	-	<5	<1.0	<5.0	<1.0	1.4	<1.0	-	<1.0	-	-
	6/27/2002		-	-	<50	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	< 0.5	<5.0	<0.5	< 0.5	<0.5	-	< 0.5	-	-
	11/18/2002	а	-	-	110	21	1	< 0.5	< 0.5	-	< 0.5	-	-	<0.5	< 0.5	-	-	-	-	-
	2/20/2003		-	-	<50	2.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	-	<0.5	< 0.5	-	-	-	-	-
	6/11/2003		-	-	<50	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	-	<0.5	< 0.5	-	-	-	-	-
	4/3/2008	а	-	-	7,600	2,400	58	250	170	<100	<5.0	< 5.0	<20	< 5.0	< 5.0	<5.0	<500	<5.0	<5,000	< 0.5
	6/23/2011	а	-	-	1,300	560	21	86	150	-	<12	<12	<50	-	_	<12	-	<12	-	_
	12/6/2011	а	-	-	1,800	620	28	22	46	-	<17	<17	<67	-	-	<17	-	<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	ŭ	<50	<250	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	-	-	-	-	-	-
	2/27/2013	g	<50 <50	<250	<50	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	-	-	-	-	-	-	-	-	-	-
	5/1/2013	Э	<50	<250	<50	<0.5	<0.5	<0.5	< 0.5	< 0.5										

Groundwater Analytical Data- Monitoring Wells AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g EPA Meth	Benzene ods 8020,	Toluene 8021B, or	Ethylbenzene 8260B	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA EPA Met	DIPE hod 8260	Ethanol B	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(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	а	-	-	180	15	9.2	7.6	28	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	а	-	-	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	< 5.0	<0.5	< 0.5	<2.0	< 0.5	< 0.5	<0.5	<50	<0.5	<500	<0.5
	6/23/2011	а	-	-	53	2.7	<0.5	1.0	1.7	-	<0.5	< 0.5	<2.0	-	-	<0.5	-	<0.5	-	-
	5/23/2012	f	<50	<250	<50	< 0.5	<0.5	< 0.5	<0.5	< 0.5	-	-	-	-	-	-	-	-	-	-
	7/11/2012	q	<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										
MW-5	4/28/1994	а	-	-	30,000	4,000	3,000	810	3,500	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	а	-	-	9,300	2,000	800	290	940	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	а	-	-	15,000	2,700	1,300	420	1,100	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	а	-	-	7,900	2,100	680	240	860	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	а	-	-	7,900	2,400	580	340	630	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	а	-	-	11,000	3,400	760	610	1,200	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	а	-	-	13,000	2,900	830	570	1,100	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	а	-	-	2,600	750	65	1,860	280	<5	-	-	-	-	-	-	-	-	-	-
	11/12/1998		-	-	<50	< 0.5	< 0.5	< 0.5	< 0.5	<5	-	-	-	-	-	-	-	-	-	-
	1/16/2001		-	-	<50	11	<0.5	< 0.5	0.82	-	<5	<1.0	<5.0	<1.0	<1.0	<1.0	-	<1.0	-	-
	6/27/2002		-	-	<50	< 0.5	<0.5	< 0.5	<0.5	-	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	-	<0.5	-	-
	11/18/2002	а	-	-	130	17	3.8	2.1	16	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	2/20/2003		-	-	<50	5.6	0.51	< 0.5	0.68	-	< 0.5	-	-	< 0.5	< 0.5	-	-	-	-	-
	6/11/2003	а	-	-	170	48	< 0.5	< 0.5	1.4	-	< 0.5	-	-	< 0.5	< 0.5	-	-	-	-	-
	4/3/2008	а	-	-	31,000	490	3,400	1,600	5,300	<250	<10	<10	<40	<10	<10	<10	<1,000	<10	<10,000	<0.5
	6/23/2011	a	-	-	82	5.1	< 0.5	12.0	8.4	-	< 0.5	< 0.5	<2.0	_	-	< 0.5	-	< 0.5	-	-
	5/18/2012	f	<50	<250	120	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	-	-	-	-	-	-
	7/11/2012	q	< 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	а	<50	<250	64	3.4	< 0.5	<0.5	< 0.5	< 0.5										

Groundwater Analytical Data- Monitoring Wells AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g EPA Meth		Toluene 8021B, or 8	Ethylbenzene 260B	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA EPA Met	DIPE hod 8260	Ethanol B	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DPE-1	12/6/2011	а	-	-	9,200	1,800	570	460	1,100	-	<50	<50	<200	-	-	<50	-	<50	-	-
	1/24/2012	а	-	-	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	а	860	<250	2,300	240	15	98	88	<5.0	-	-	-	-	-	-	-	-	-	-
	11/16/2012	С	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										
DPE-2	12/6/2011	а		-	22,000	2,100	3,300	650	3,300	-	<100	<100	<400	-	-	<100	-	<100	-	-
	1/24/2012	а	-	-	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	а	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	-									
DPE-3	12/6/2011	а	-	-	6,400	550	560	180	1,000	-	<17	<17	<67	-	-	<17	-	<17	-	-
	1/24/2012	а	-	-	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	а	720	<250	2,400	330	19	10	130	<10	-	-	-	-	-	-	-	-	-	-
DPE-4	1/24/2012	а	-	-	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										
DPE-5	11/16/2012	h	560	1,400	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
1	2/27/2013	a,c,h	1,200	2,600	3,900	440	370	120	570	<10	-	-	-	-	-	-	-	-	-	-
DPE-6	1/24/2012	а	-	-	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	U	<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										
DPE-8	11/16/2012	с	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										
DPE-9	1/24/2012	а	<50	<250	4,400	160	390	93	1,100	<5.0	-	-	-	-	_	-	-	-	-	-
5.67	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										

Groundwater Analytical Data- Monitoring Wells

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

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g EPA Meth	Benzene ods 8020, 8		Ethylbenzene 8260B	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA EPA Met	DIPE hod 8260	Ethanol B	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DPE-10	5/18/2012	f	420	<250	1,700	150	<5.0	<5.0	<5.0	160	-	-	-	-	-	-	-	-	-	-
	7/11/2012	а	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	а	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										
DPE-11	5/18/2012	f	260	<250	930	6.4	4.6	4.6	160	<1.2	-	-	-	-	-	-	-	-	-	-
	7/11/2012	а	1,600	<250	2,400	16	<1.0	14	57	<1.0	-	-	-	-	-	-	-	-	-	-
	11/16/2012	С	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										
ESL			100	100	100	1.0	40	30	20	5.0	5.0	NA	12	0.05	0.5	NA	NA	NA	NA	2.5

TPH-g= total petroleum hydrocarbons as gasoline

TPH-d= total petroleum hydrocarbons as diesel

TPH-mo= total petroleum hydrocarbons as motor oil

MTBE = Methyl tertiary butyl ether

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

"-" = Not analyzed or data not available

 μ g/L = micrograms per liter (ppb)

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

NA = Not applicable

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 coounds (the most mobile fraction) are significant.

e = Laboratory note indicates that one to a few isloated non-targed 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

Soil Vapor Analytical Data

AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample	Date	Isopropyl Alcohol*	TPH-g & TVH	Benzene	Toluene	Ethyl- benzene	Xylenes	ТВА	MTBE	TAME	DIPE	ETBE	Naphthalene	PCE	Other VOCs	CO2	Methane	Nitrogen	Oxygen
ID		(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)
VP-1	5/17/2012	<50	<1,800	<6.5	<7.7	<8.8	<27	<62	-	-	-	-	-	-	-	-	-	-	-
	7/12/2012	<50	<1,800	<6.5	<7.7	<8.8	<27	<62	<7.3	<8.5	<8.5	<8.5	<11	-	-	17,000	<1.0	-	270,000
	11/16/2012	<50	<2,700	<9.7	<11	<13	<40	<93	<11	<13	<13	<13	<16	63	500 ^a	25,000	<1.5	750,000	180,000
	2/27/2013	<50	<1,800	<6.5	<7.7	<8.8	<27	<62	<7.3	<8.5	<8.5	<8.5	<11	30	<mdl< td=""><td>15,000</td><td><1.0</td><td>710,000</td><td>180,000</td></mdl<>	15,000	<1.0	710,000	180,000
VP-2	5/17/2012	<50	<1,800	<6.5	<7.7	<8.8	<27	<62	-	-	-	-	-	-	-	-	-	-	-
	7/12/2012	<50	<1,800	<6.5	<7.7	<8.8	<27	230	<7.3	<8.5	<8.5	<8.5	<11	-	-	13,000	<1.0	-	280,000
	11/16/2012	<50	<1,800	<6.5	<7.7	<8.8	<27	95	<7.3	<8.5	<8.5	<8.5	<11	72	230 ^ª , 110 ^b	23,000	<1.0	610,000	180,000
	2/27/2013	<50	<2,700	<9.7	<11	<13	<40	<93	<11	<13	<13	<13	<16	28	<mdl< td=""><td>13,000</td><td><1.5</td><td>710,000</td><td>190,000</td></mdl<>	13,000	<1.5	710,000	190,000
VP-3	5/17/2012	<50	<1,800	<6.5	<7.7	<8.8	<27	<62	-	-	-	-	-	-	-	-	-	-	-
	7/12/2012	290	<1,800	<6.5	<7.7	<8.8	<27	<62	<7.3	<8.5	<8.5	<8.5	<11	-	-	24,000	1.1	-	280,000
	11/16/2012	<50	<1,900	<6.9	<8.2	<9.3	<29	<66	<7.7	<9.0	<9.0	<9.0	<12	ND<15	260 ^ª	8,500	1.5	630,000	210,000
	2/27/2013	<50	<2,700	<9.7	<11	<13	<40	<93	<11	<13	<13	<13	<16	ND<14	<mdl< td=""><td>3,700</td><td>1.1</td><td>710,000</td><td>190,000</td></mdl<>	3,700	1.1	710,000	190,000
SV-1	4/16/2013	-	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<mdl< td=""><td>3,400</td><td><2.0</td><td>-</td><td>170,000</td></mdl<>	3,400	<2.0	-	170,000
SV-2	4/16/2013	-	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<mdl< td=""><td>4,600</td><td>1.8</td><td>-</td><td>170,000</td></mdl<>	4,600	1.8	-	170,000
SV-3	4/16/2013	-	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<mdl< td=""><td>160</td><td><2.0</td><td>-</td><td>170,000</td></mdl<>	160	<2.0	-	170,000
SV-4	4/16/2013	-	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<mdl< td=""><td>4,200</td><td><2.0</td><td>-</td><td>170,000</td></mdl<>	4,200	<2.0	-	170,000
SV-5	5/3/2013	-	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	100	<mdl< td=""><td>12,000</td><td><2.0</td><td>-</td><td>170,000</td></mdl<>	12,000	<2.0	-	170,000
SV-6	4/16/2013	-	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<mdl< td=""><td>260</td><td>1.2</td><td>-</td><td>18,000</td></mdl<>	260	1.2	-	18,000
SV-7	4/16/2013	-	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<mdl< td=""><td>10,000</td><td><2.0</td><td>-</td><td>160,000</td></mdl<>	10,000	<2.0	-	160,000
ESL		NA	50,000	420	1,300,000	4,900	220,000	NA	47,000	NA	NA	NA	360	2,100	NA	NA	NA	NA	NA

TPH-g = total petroleum hydrocarbons as gasoline

TVH = Total volatile hydrocarbons -aliphatics

TBA = tert-Butyl-alchohol

µg/m3 = micrograms per cubic meter (ppbv)

* = Isoproyl alchohol used as leak check compound.

ND = Not detected above the reporting limit.

NA = Not applicable

ESL = Environmental Screening Levels, Table E-2, San Francisco Regional Water Quality Control Board (Commercial/Industrial, Shallow Soil, Drinking Water Aquifer), Revised May 2013 MTBE = Methyl-tert-butyl ether TAME = Tert-amyl methyl ether DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

PCE = Tetrachloroethene

a = Hexane (no ESL established)

b = Ethanol (no ESL established)

MDL = method detection limit

"-" = Not analyzed

APPENDIX A

FIELD SAMPLING FORMS



				Moni	itoring Wel	I Number:	MVV-1
					And a state of the second s	10	5-1-13
Project Name:		Bues				of Sampling:	TE
Job Number:		2989			Name	e of Sampler:	1.2199-
Project Address:	163	0 Park Stree	t, Alameda, (CA			
		W	ONITORING	WELL DA	Г <mark>А</mark>		
Well Casing Diame	eter (2"/4"/6")					2	
Well & Wellhead C						good	V
Elevation of Top of	Casing (feet	above msl)					
Depth of Well						20.00	-
Depth to Water (fro	om top of casi	ng)		Before:	7.03		7.05
Water Elevation (fe				Before:		After:	
Purging and Samp				Low-Flo		awdown) Purg	
Well Volumes Purg						opurge	
Pump Speed (Defa	and the second se	is)			2	er Min	<u>^</u>
Estimated Purge F	Rate-ml/min(Pr	ump Speed *	1.67 ml/rev)		,51,+	er / Min	<u> </u>
Actual Volume Pu						5	
Appearance of Pu	rge Water/Tur	bidity/Color			and a second sec	rean	
		Free Proc	duct Present?	no		Thickness (ft):	
Purging Equipmer	ht/Pump:(Per	istalic/ bladde	er/ centrifugal/	submersible	PH /0		
		G	ROUNDWA	ER SAMPL	E9	1.)	
Number of Samp	les / Containe	r Size		Three (3) 401	nL VOAs (HC		
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pН	ORP (meV)	Comments
ACOL	(ganono)	19.27	804	2.08	7.73	-102.3	Clear
0305 _	7	19.30	795	1.82	7.73	-101.1	51
	3	19.32	790	177	771	-987	11
	4.	19.33	188	1.15	7.70	-97.3	11
OCIC .	F	19.34	187	LOL	7.70	-95.2	(1
0515		19.51	103	1.01			
	and the second sec						
					1		
	Rtabilization	criteria: nH +	-/- 0 1' conduc	tivity +/- 3%:) 00 +/- 10%; C	DRP +/- 10 me	V
Odor	No		/ 0.1,0011440	CC	OMMENTS		
Recharge time %	290010				_		
Duplicate sample	NO						
Pump intake depth							
Sample method	0						
bailer/from pump/s	vstem						
Insulention hample	yotom						

-				Mor	nitoring We	II Number:	MW-2					
Project Name:		Bue	stad		Date	e of Sampling:	5-1-13					
Job Number:		298	931		Nam	ne of Sampler:	J. Sigg					
Project Address:	163	80 Park Stree	et, Alameda,	CA			17					
		I	VONITORIN	G WELL DA	TA							
Well Casing Diam	eter (2"/4"/6")			2								
Wellhead Condition	on			Gord								
Elevation of Top c	of Casing (feet	above msl)										
Depth of Well				20.00								
Depth to Water (fr	om top of cas	ing)		Before:	7.67	After:	7.69					
Water Elevation (f	eet above ms	1)		Before: After:								
Purging and Sam	oling Method			Low-Flow (Minimal Drawdown) Purging / Sampling								
Well Volumes Pur	ged											
Pump Speed (Def	ault = 300 rpn	ıs)		300 Rpm								
Estimated Purge F	Rate-ml/min(P	ump Speed *	1.67 ml/rev)	.5 Liter Min								
Actual Volume Pu	rged (liters)					5	Contract and the second					
Appearance of Pu	rge Water/Tur		(m)	5 h 15 -		lear						
	115 6		duct Present?			Thickness (ft):						
Purging Equipmer	Pumpt Per			TER SAMPL								
Number of Sampl	es / Container		ROONDWA	TER SAMPL	the second s	1)						
Number of Samp	Volume											
Time	Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	(mg/L)	рН	(meV)	Comments					
0545	1	19.34	1082	6.82	7.82	-153.2	Clear-					
	2	19.36	1080	4.73	7.80	-151.7	r 1					
	3	19.36	1078	2.86	7.80	-150.1	1 1					
	4	19.37	1076	2.07	7.79	-148.9	13					
19555	6	19.37	1075	1.88	7.79	-148.1	11					
	Stabilization	criteria: pH +/	- 0 1: conduct	ivitv +/- 3%: D	O +/- 10%: O	 RP +/- 10 meV						
Odor	VE5	ontona. pri v	0.11,0011440		MMENTS		_					
Recharge time %	×90%			Colored - Law Sold Street								
Duplicate sample	NO											
Pump intake depth	ITET											
Sample method	PUMP											
bailer/from pump/sys	stem				an se an that an							

				Won	itoring We	II Number:	MW-3				
Project Name:		Bue	stad			of Sampling:	5-1-13				
Job Number:		298		Name of Sampler: 5 99							
Project Address:	163	0 Park Stree	et, Alameda,	ĊA			• 1				
		n	AONITORIN	G WELL DA	ТА						
Well Casing Diam	eter (2"/4"/6")	- Clinical of the				2					
Wellhead Conditio	n			9000							
Elevation of Top o	f Casing (feet	above msl)		0							
Depth of Well				20.00							
Depth to Water (fre	om top of casi	ng)		Before: 8,07 After: 809							
Water Elevation (fe	eet above msl)		Before: After:							
Purging and Samp	ling Method			Low-Flow (Minimal Drawdown) Purging / Sampling							
Well Volumes Pur	ged			Micropurged							
Pump Speed (Defa	ault = 300 rpm	s)				Do Rpm					
Estimated Purge F	Rate-ml/min(P	ump Speed *	1.67 ml/rev)		.51	ster/n	1.11				
Actual Volume Pu	rged (liters)					5					
Appearance of Pu	rge Water/Tur	bidity/Color				ciece					
			duct Present?		and the second sec	Thickness (ft):					
Purging Equipmen	t/Pump: Peri	stalic/ bladde	er/ centrifugal	TER SAMPL	EC						
Number of Sampl	an I Containa		ROUNDWA			1)					
Number of Sampl	Volume	SIZE		Three (3) 40mL VOAs (HCL)							
Time	Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pН	ORP (meV)	Comments				
0645	1	19.28	7-02	4.25	7.82	-121.3	Clean				
	2	19.30	697	371	7.80	-118.7	1.				
	3	19.32	695	2.29	7.80	-1162	(II)				
	the	19.22	693	1.97	7.80	-115.7	11				
0655	6	19.24	690	1.62	7.80	-115.1	4				
	/		9								
	Stabilization	criteria: pH +,	- 0.1; conduc			RP +/- 10 meV	/				
Odor	NO			CC	MMENTS						
Recharge time %	19000										
Duplicate sample	NO										
Pump intake depth	FFT										
Sample method	PUMP					4.0					
bailer/from pump/sy	stem										

				Mo	nitoring We	ell Number:	WIW-4					
Project Name:	1	Bue	estad		Dat	e of Sampling:	5-1-13					
Job Number:			3931			ne of Sampler:	J.Sigg					
Project Address:			et, Alameda,	CA		no or oampion						
Project Address.	100		ci, Alameda,	ON								
(Annual Annual Annua			MONITORIN	G WELL D/	ATA							
Well Casing Diam	eter (2"/4"/6")					2						
Wellhead Condition	on			good 🗸								
Elevation of Top of	of Casing (feet	above msl)		0								
Depth of Well				23.00								
Depth to Water (fr	om top of cas	ing)		Before	9.2	After:	9.39					
Water Elevation (f	eet above ms	l)		Before	:	After:						
Purging and Sam	oling Method			Low-Flow (Minimal Drawdown) Purging / Sampling								
Well Volumes Pur	ged				musi	2 pussed	L					
Pump Speed (Def	ault = 300 rpn	ns)			2	500 Rpm						
Estimated Purge I	Rate-ml/min(P	ump Speed *	1.67 ml/rev)	.5 Liter min								
Actual Volume Pu	rged (liters)					5						
Appearance of Pu	rge Water/Tu	bidity/Color			C	leac.						
			duct Present?			Thickness (ft):						
Purging Equipmer	nt/Pump. Per	And and a second se	the second se				******					
		and the second se	GROUNDWA		And and a second se							
Number of Samp	the second se	r Size	1	Three (3) 40mL VOAs (HCL)								
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pН	ORP (meV)	Comments					
0425	1	19.34	382 -	5.04	7.57	-132.8	Clean					
- 10	2	19.36	380	4.82	7.55	-130.1	k					
	3	19.38	380	4.67	7.55	-128-6	k					
	3 4	19.38	383	4.42	7.54	-126.3						
0425	ħ	19.29	385	4.31	7.54	-1251	UX.					
		1										
	5											
					19-19-19-19-19-19-19-19-19-19-19-19-19-1	+-						
	Stabilization	criteria: pH +	/- 0.1; conduct	ivity +/- 3%; [DO +/- 10%; C	RP +/- 10 meV						
Odor	NO			CC	DMMENTS							
Recharge time %	>90%											
Duplicate sample	NO											
Pump intake depth	IFFT											
Sample method	PUMP											
bailer/from pump/sy												

				Mor	nitoring We	ell Number:	MW-5					
	1	~			1 .		E 1.17					
Project Name:			estad			e of Sampling.	5-1-13					
Job Number:			3931		Nan	ne of Sampler:	J: 5199_					
Project Address	: 163	30 Park Stre	et, Alameda,	CA								
			MONITORIN	G WELL DA	TA							
Well Casing Diam	neter (2"/4"/6")					2						
Wellhead Condition	on			good								
Elevation of Top of	of Casing (feet	above msl)			Q.							
Depth of Well				22.00								
Depth to Water (fi	rom top of cas	ing)		Before:	7.87	After:	7.85					
Water Elevation (feet above ms)		Before: After:								
Purging and Sam	pling Method			Low-Flow (Minimal Drawdown) Purging / Sampling								
Well Volumes Pul		*/**			mon	princed						
Pump Speed (Def	fault = 300 rpm	ıs)				200 Rpm	l					
Estimated Purge I			1.67 ml/rev)		1SL	ppinged 300 Rpm iter / M	127					
Actual Volume Pu	irged (liters)					5						
Appearance of Pu	irge Water/Tur	bidity/Color			C	rear						
•••	T	Free Pro	duct Present?			Thickness (ft):						
Purging Equipmer	nt/Pump Peri											
			ROUNDWA		The second secon							
Number of Samp		Size	1	Three (3) 40r	nL VOAs (HC	;L)						
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pН	ORP (meV)	Comments					
0445		19.30	7.34	3.82	7.53	-72.7	Clean					
	2	19.32	730	3.17	7.53	-71.3	l					
	3	19.32	730	2.87	7.51	-70.1	11					
	4	19.34	728	2.54	7.50	-68.7	11					
0455	5	19.34	728	2.01	7.50	-66.2	11					
120-			1.0	· · · · ·			and a second					
Freedom and the second s	Stabilization	criteria: pH +,	/- 0.1; conduct	the second se		RP +/- 10 meV						
Odor	NO			CO	MMENTS							
Recharge time %	290%											
Duplicate sample	No				_							
Pump intake depth	TAFT											
Sample method	PUMP											
bailer/from pump/sy	stem					_						

Monitoring Well Number:

DPE-1

					· · · · · · · · · · · · · · · · · · ·		~
Project Name			estad			e of Sampling	5-1-13
Job Number			3931		Nar	ne of Sampler:	J. Sigg
Project Address	: 16	30 Park Stre	et, Alameda,	CA			11
			MONITORIN	IG WELL DA	ATA		
Well Casing Dian	neter (2"/4"/6")					4	
Wellhead Conditi	on					DAMAG	T) 7
Elevation of Top	of Casing (fee	t above msl)					
Depth of Well						15.00	
Depth to Water (f	rom top of cas	sing)		Before	7.88	After:	7,80
Water Elevation (feet above ms	sl)		Before		After:	
Purging and Sam	pling Method			Low-Flo	ow (Minimal D	rawdown) Purg	ing / Sampling
Well Volumes Pu	rged			1	mici	opungi	4
Pump Speed (De	fault = 300 rpr	ns)				300 R.p.	
Estimated Purge	Rate-ml/min(P	ump Speed *	1.67 ml/rev)		,51	iter Im	lin
Actual Volume Pu	irged (liters)					5	
Appearance of Pu	irge Water/Tu	rbidity/Color			(clean	
	12		duct Present?			Thickness (ft):	
Purging Equipment	nt/Pump: Per	and the second distribution of the second seco		and the second se	and the second se		
Number of Original	les / Ocalela	Name in a state of the state of	ROUNDWA			1.	
Number of Samp	Volume	rSize	-		mL VOAs (HC	;L)	
Time	Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	рН	ORP (meV)	Comments
0745		19.35	858	3.67	7.62	-133.2	Clean
	2	19.36	850	2.83	7.60	-130.7	10
	3	19.37	843	2.06	7.60	-129.6	11
	4	19.37	8:40	1.90	7.60	-128.3	10
0755	5	19.37	838	1.79	7.60	-127.2	11
						-	
		criteria: pH +/	- 0.1; conduct			RP +/- 10 meV	
Odor	155			CO	MMENTS		
Recharge time %	>900/0						
Duplicate sample	NO						
Pump intake depth	13FT			-			
Sample method							
pailer/from pump/sys	PUMP						

				Mo	nitoring W	ell Number:	DPE-2				
Project Name	9:	Bu	estad		Dal	te of Sampling	5-1-31				
Job Number	r:	29	8931		Nar	ne of Sampler	and the second s				
Project Address	s: 16	30 Park Stre	eet, Alameda	, CA							
			MONITORIA	IG WELL DA	TA						
Well Casing Diar	neter (2"/4"/6"))				4					
Wellhead Conditi	ion			Damaged							
Elevation of Top	of Casing (fee	t above msl)				()					
Depth of Well				15.00							
Depth to Water (from top of cas	sing)		Before: 7.97 After: 7.99							
Water Elevation ((feet above ms	sl)		Before: After:							
Purging and Sam	pling Method			Low-Flow (Minimal Drawdown) Purging / Sampling							
Well Volumes Pu	rged										
Pump Speed (De	fault = 300 rpr	ns)		Micropunged 300 p.p.m.							
Estimated Purge	Rate-ml/min(F	ump Speed *	' 1.67 ml/rev)		. 5	5 Liter /	Na · m				
Actual Volume Pu	urged (liters)					5					
Appearance of Pu	urge Water/Tu	rbidity/Color				clean	2				
			duct Present?			Thickness (ft):					
Purging Equipme	nt/Pump: Per				a contract of the contract of						
Number of Samp	los / Containa		GROUNDWA		LES nL VOAs (HC						
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (meV)	Comments				
0805		19.35	1133	3.07	7.54	-177.6	Clean				
	2	19.31	1130	2.65	7.50	-125.3	Lenn				
	3	19.37	1130	2.10	7.50	-122.4	1				
	4	19.37	128	1.90	7.49	-120.1	11				
0815	15	9.37-	1126	1.66	7.49	-119.3	1)				
				1							
				-							
D.J.		criteria: pH +	/- 0.1; conduct		and the second s	RP +/- 10 me\	/				
Odor	NO	and the second second second		cO	MMENTS						
Recharge time %	290										
Duplicate sample	NO										
ump intake depth	13 FT										

Sample method

bailer/from pump/system

PUNIP

Monitoring Well Number: DPE-4

Project Name:	Buestad	Date of Sampling:	5-1-13
Job Number:	298931	Name of Sampler:	JSiga
Project Address:	1630 Park Street, Alameda, CA		11

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")		4	ł			
Wellhead Condition	Damaged					
Elevation of Top of Casing (feet above msl)			0			
Depth of Well		17.	00			
Depth to Water (from top of casing)	Before:	8.90	After: 8.92			
Water Elevation (feet above msl)	Before:		After:			
Purging and Sampling Method	Low-Flow (Minimal Drawdown) Purging / Sampling					
Well Volumes Purged		moro	purged	_		
Pump Speed (Default = 300 rpms)	300 P PM					
Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev)	.5 Liter min					
Actual Volume Purged (liters)		5	1			
Appearance of Purge Water/Turbidity/Color	CIERE					
Free Product Present?	Thickness (ft):					

Purging Equipment/Pump:	Peristalic/	bladder/	centrifugal/	submersible

Number of Samp	les / Container	Size		Three (3) 40mL VOAs (HCL)			
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	рН	ORP (meV)	Comments
0795	1	19:310	882	3.81	7.59	-85.4	Clean
	2	19.36	880	3.05	7.59	-83.2	LV.
	3	19.36	880	2.68	J.Sb	-81-4	1
	4	19.37	878	2.07	7.55	-80.2	11
0715	5	19.37	878	1.83	7.55	- 19 +	11
		Ultra and and a second s					

 Otabilization adtariat	ILII A	4.	aanduativitu	11	201.	00.11	100/.	ODD J	10 mol/	
Stabilization criteria:	DLI 11- 0	· I,	conductivity	1/-	5 10,	00 11-	10 /0,	UNP 11-	10 mev	

Odor	100	COMMENTS
Recharge time %	190%	
Duplicate sample	NO	
Pump intake depth	15 FT	
Sample method	PUMP	
bailer/from pump/sys	stem	

to the second				Mor	nitoring We	ell Number:	DPE-5		
Project Name	·· [Bue	estad		l Dat	e of Sampling.	5-1-13		
Job Number			8931			ne of Sampler:			
Project Address	and the second s	and the second se	et, Alameda,	CA					
	1								
		110-00-00	MONITORIN	G WELL DA	TA	when the second			
Well Casing Diam	and the second s	<u> </u>				4			
Wellhead Condition					Di	amage	4		
Elevation of Top of	of Casing (feet	above msl)		0					
Depth of Well						18.00			
Depth to Water (f				Before:	8.1	After:	8.20		
Water Elevation (feet above ms	1)		Before:		After:			
Purging and Sam	pling Method			Low-Flow (Minimal Drawdown) Purging / Sampling					
Well Volumes Pu	rged				ill it	cropunge	2		
Pump Speed (Det	fault = 300 rpm	ns)		300 Rpm					
Estimated Purge I	Rate-ml/min(P	ump Speed *	1.67 ml/rev)	is to min					
Actual Volume Pu	urged (liters)					5			
Appearance of Pu	urge Water/Tur				(lean			
		and shall be a set of the set of	duct Present?	yes		Thickness (ft):	.17		
Purging Equipmer	nt/Pump: Per	and the second se	And the second se		the second s		and the statement of the		
Number of Samp	les / Containe		SROUNDWA			11	<u></u>		
	Volume			Three (3) 40mL VOAs (HCL)					
Time	Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	рН	ORP (meV)	Comments		
0905		19.36	758	4.50	7.82	-103.8	Clear		
=1	2	19.36	758	7.87	7.80	- 97.2	11		
	3	19.37	756	2.06	778	- 95.8	II.		
	4	19.37	755	1.88	7.78	-93.1	11		
0915	5	19.36	755	1.62	7.76	-90.7	- 11		
	Participant and the second								
		criteria: pH +/	/- 0.1; conducti	and the second sec		RP +/- 10 meV	,		
Odor	100			CO	MMENTS				
Recharge lime % 🗦	$\leq qv$	So	Do	1.0	21 0 1 2	-	17 -		
Duplicate sample	NO	FIC.	ee Pro	ouer	prese	M	11 T IAK		
Pump intake depth	14.51								
Sample method	PUMP_								
bailer/from pump/sys	stem								

Depth to Water (from top of casing) Before: 4.49 After: 4.50 Water Elevation (feet above msl) Before: After: 4.50 Purging and Sampling Method Before: After: 4.50 Well Volumes Purged Dow-Flow (Minimal Drawdown) Purging / Sampling Pump Speed (Default = 300 rpms) 3.00 P.PM Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev) 3.00 P.PM Actual Volume Purged (liters) 7.00 P.PM Appearance of Purge Water/Turbidity/Color Thickness (ft): Purging Equipment/Pump Peristalic/ bladder/ centrifugal/ submersible GROUNDWATER SAMPLES Number of Samples / Container Size Three (3) 40mL VOAs (HCL) Time Volume (gailons) There (3) 40mL VOAs (HCL) 0 825 1 19.34 8.08 3.84 1.82 4.64 1.44 0 835 1 19.34 7.49 3.64 7.49 4.64 1.44 0 835 1 19.38 7.91 4.64 1.44 1.44 0 835 1 1.38 7.91 4.64 1.44 1.44 1.45 1.44 <td< th=""><th></th><th></th><th></th><th></th><th>Mon</th><th>itoring Wel</th><th>I Number:</th><th>DPE-6</th></td<>					Mon	itoring Wel	I Number:	DPE-6		
Project Name: 298931 Name of Sampler: Support Job Number: 1630 Park Street, Alameda, CA Marme of Sampler: Support Project Addres: 1630 Park Street, Alameda, CA A Well Casing Diameter (2'/4'/6') 4 Vertex Vertex Well Casing Diameter (2'/4'/6') 4 Vertex Vertex <td></td> <td></td> <td></td> <td></td> <td></td> <td>Dete</td> <td>of Sampling</td> <td>5-1-13</td>						Dete	of Sampling	5-1-13		
Job Number. MONITORING WELL DATA MONITORING WELL DATA Well Casing Diameter (2'/4"/6") 4 Depth of Vell 18.00 Depth of Well 18.00 Before: 4.49 After: Exceed data Purging and Sampling Method Low-Flow (Minimal Drawdown) Purging / Sampling Well Volumes Purged Intervention Purging Equipment/Purger (Iters) 200 Purger Appearance of Purge Water/Turbidity/Color 1 Three (3) 40mL VOAs (HCL) Purging Equipment/Pump' Peristalic/ bladder/ centrifugal/ submersible Conductivity DO pH ORP O 8725 1 1 2 1 1 2 1 1 O 8335 1 1 3 3 3 3 4 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>210</td>								210		
MIONITORING WELL DATA Well Casing Diameter (2"/4"/6") 4 Wellhead Condition Down a god Elevation of Top of Casing (feet above msl) 18.00 Depth of Well 18.00 Depth of Well 18.00 Well Casing (feet above msl) Before: After: Purging and Sampling Method Low-Flow (Minimal Drawdown) Purging / Sampling Well Volumes Purged McArr ptr. gc d. Pump Speed (Default = 300 rpms) 200 p-pM Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev) Actual Volume Purged (lifers) Actual Volume Purged (lifers) 5 Appearance of Purge Water/Turbiditly/Color Thickness (ft): Purging Equipment/Pump/ Peristalic/ bladder/ centrifugal/ submersible GROUNDWATER SAMPLES Number of Samples / Container Size Three (3) 40mL VOAS (HCL) Time Yolume Yolume Removed Time Conductivity (us/com) 0 835 14.38 74.9 4.3.4 4 14.38 74.9 4.4.4 0 835 14.38 74.9 4.4.4 4.4.4 0 835 14.38 74.9 4.	Job Number:					Nam	e of Sampler.	7.2141		
Well Casing Diameter (2'/4'/6') 4 Wellhead Condition Datumation Elevation of Top of Casing (feet above mst) 18.00 Depth to Water (from top of casing) Before: 4,49 Well Casing (feet above mst) 18.00 Depth to Water (from top of casing) Before: Atter: Weil Volumes Purged Deverying and Sampling Method Low-Flow (Minimal Drawdown) Purging / Sampling Weil Volumes Purged (Default = 300 rpms) 2000 Perform 2000 Perform Stabilizetion of Purge Water/Turbidity/Color Thickness (ft): Purging and color (ft): Purging Equipment/Pump? Peristalic / biadder / centrifugal/ submersible Thickness (ft): Purging Equipment/Pump? Peristalic / biadder / centrifugal/ submersible Number of Samples / Container Size Three (3) 40mL VOAs (HCL) Comments 0825 1 19.34 20.5 4.8.2 4.9.4 Comments 0835 1 19.34 4.9.3 1.4.4 1.4.35 1.4.4 1.4.35 1.4.4 1.4.4 1.4.35 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 <td< td=""><td>Project Address:</td><td>163</td><td>0 Park Stree</td><td>t, Alameda,</td><td>CA</td><td></td><td></td><td></td></td<>	Project Address:	163	0 Park Stree	t, Alameda,	CA					
Wellhead Condition Data god ▼ Elevation of Top of Casing (feet above msl) 18.00 Depth of Well 18.00 Before: A 49 After: Purging and Sampling Method Before: After: Well Volumes Purged Inter-purging / Sampling Pump Speed (Default = 300 rpms) 200 P.p.M. Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev) State of the form of th			R	ONITORIN	G WELL DA	ТА				
Wellhead Condition Data aged Imaged Imaged <t< td=""><td>Well Casing Diamo</td><td>eter (2"/4"/6")</td><td></td><td></td><td></td><td></td><td>4</td><td></td></t<>	Well Casing Diamo	eter (2"/4"/6")					4			
Elevation of Top of Casing (feet above msl) Depth of Well Depth of Well Depth to Water (from top of casing) Water Elevation (feet above msl) Purging and Sampling Method Well Volumes Purged Pump Speed (Default = 300 rpms) Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev) Actual Volume Purged (liters) Appearance of Purge Water/Turbidity/Color Free Product Present? Purging Equipment/Pump? Peristalic/ bladder/ centrifugal/ submersible GROUNDWATER SAMIPLES Number of Samples / Container Size Three (3) 40mL VOAs (HCL) Volume Removed (gallons) Conductivity Do Science Conductivity Do Stabilization criteria: pH +/- 0.1; conductivity 4/- 3%; DO +/- 10%; ORP +/- 10 meV Odor Mater Elevation of Top of Casing I M Comments I M Comments I M	Wellhead Conditio	n				Da	maged	♥		
Depth of Well 18.00 Depth to Water (from top of casing) Before: 14.00 Water Elevation (feet above msl) Before: 14.00 Purging and Sampling Method Low-Flow (Minimal Drawdown) Purging / Sampling Well Volumes Purged MARCH Planet Purged March Planet Purged Pump Speed (Default = 300 rpms) Soo Perged Soo Perged Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev) Actual Volume Purged (liters) Appearance of Purge Water/Turbidity/Color Appearance of Purge Water/Turbidity/Color Free Product Present? Thickness (ft): Purging Equipment/Pump/ Peristalic/ bladder/ centrifugal/ submersible Three (3) 40mL VOAs (HCL) Mumber of Samples / Container Size Three (3) 40mL VOAs (HCL) Time Volume Removed (gallons) Conductivity (us/cm) pH ORP (meV) Comments 0 835 14.38 741 2.45 7.46 11 0 835 14.38 741 2.45 7.46 11 0 835 14.38 741 2.45 7.46 11 0 835 14.38 741 2.45 7.46 11 0 835 14.38	Elevation of Top of	Casing (feet	above msl)		_		U			
Depin to Water (norm top of ceshing) Depin of the above misl) Before: After: Water Elevation (feet above misl) Before: After: Purging and Sampling Method I.ov-Flow (Minimal Drawdown) Purging / Sampling Well Volumes Purged I.ov-Flow (Minimal Drawdown) Purging / Sampling Pump Speed (Default = 300 rpms) 2.00 P.pm Estimated Purge Rate-mi/min(Pump Speed * 1.67 ml/rev) Status Actual Volume Purged (liters) Status Appearance of Purge Water/Turbidity/Color Free Product Present? Time Free Product Present? Volume Purged (liters) Status Number of Samples / Container Size Three (3) 40mL VOAs (HCL) Time Volume Temp (C°) Conductivity DO (mg/L) pH 0 8235 1 19.34 2.14 4.05 3 19.37 19.3 2.14 4.06 3 19.37 19.3 2.14 4.06 3 19.37 19.3 2.14 4.06 4 19.38 19.7 2.14 4.06 0 835 1 19.38 19.7 2.14 4.06 4 19.38 19.7 2.14 4.06 44 1 19.38 19.7 2.15 1.06	Depth of Well				18.00					
Water Elevation (refer above mist) Low-Flow (Minimal Drawdown) Purging / Sampling Purging and Sampling Method Low-Flow (Minimal Drawdown) Purging / Sampling Well Volumes Purged Low-Flow (Minimal Drawdown) Purging / Sampling Pump Speed (Default = 300 rpms) 3,00 P-GM Estimated Purge Rate-mi/min(Pump Speed * 1.67 ml/rev) Actual Volume Purged (liters) Actual Volume Purged (liters) 5 Appearance of Purge Water/Turbidity/Color Inickness (ft): Purging Equipment/Pump Peristalic/ bladder/ centrifugal/ submersible GROUNDWATER SAMPLES GROUNDWATER SAMPLES Number of Samples / Container Size Three (3) 40mL VOAs (HCL) Volume (gallons) (C*) (us/cm) pH ORP (gallons) (C*) So.07 7.10 40.5 11 0 \$835 1 19.34 3.63 7.45 40.5 11 0 \$835 1 19.35 7.44 14 14 14.35 7.49 40.5 11 0 \$835 1 19.35 7.44 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4	Depth to Water (fr	om top of casi	ng)		Before:	7.4		7.50_		
Well Volumes Purged M. Org pung L. Pump Speed (Default = 300 rpms) 300 rpms) Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev) 5 0 4 co. / M Actual Volume Purged (liters) 5 0 4 co. / M Appearance of Purge Water/Turbidity/Color 1 Free Product Present? 0 Purging Equipment/Pump: Peristatic/ bladder/ centrifugal/ submersible 6 GROUNDWATER SAMPLES 0 Number of Samples / Container Size Three (3) 40mL VOAs (HCL) Volume Conductivity DO (gallons) (C*) (µS/cm) (gallons) 1 19.3 f 4 19.3 f 19.3 f 3 19.3 f 19.3 f 4 19.3 f 19.1 f 0 \$35 1 19.3 f 4 19.3 f 19.1 f 4 19.3 f 19.1 f 5 19.3 f 19.1 f 0 \$35 1 19.3 f 3 19.3 f 19.1 f 4 19.3 f 19.1 f 5 14.1 f 14.1 f 6 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>								-		
Pump Speed (Default = 300 rpms) 300 F-pA Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev) 5 CH cr / h1 · m Actual Volume Purged (liters) 5 CH cr / h1 · m Appearance of Purge Water/Turbidity/Color I Free Product Present? Thickness (ft): Purging Equipment/Pump Peristalic/ bladder/ centrifugal/ submersible GROUNDWATER SAMPLES Number of Samples / Container Size Three (3) 40mL VOAs (HCL) Time Volume Temp (gallons) (C°) Conductivity DO (gallons) 1 19.34 7.92 4.82 43.4 C1ear 3 19.34 7.92 7.64 7.0 -40.8 1 0 83.5 5 19.38 7.92 4.66 44.4 1 0 83.5 5 19.38 7.92 4.66 44.4 1 0 83.5 5 19.38 7.92 4.66 44.4 1 0 83.5 5 19.38 7.92 4.66 44.4 1 0 83.5 5	Purging and Samp	ling Method			Low-Flow (Minimal Drawdown) Purging / Sampling					
Pump Speed (Default = 300 rpms) 300 F-pA Estimated Purge Rate-ml/min(Pump Speed * 1.67 ml/rev) 5 CH cr / h1 · m Actual Volume Purged (liters) 5 CH cr / h1 · m Appearance of Purge Water/Turbidity/Color I Free Product Present? Thickness (ft): Purging Equipment/Pump Peristalic/ bladder/ centrifugal/ submersible GROUNDWATER SAMPLES Number of Samples / Container Size Three (3) 40mL VOAs (HCL) Time Volume Temp (gallons) (C°) Conductivity DO (gallons) 1 19.34 7.92 4.82 43.4 C1ear 3 19.34 7.92 7.64 7.0 -40.8 1 0 83.5 5 19.38 7.92 4.66 44.4 1 0 83.5 5 19.38 7.92 4.66 44.4 1 0 83.5 5 19.38 7.92 4.66 44.4 1 0 83.5 5 19.38 7.92 4.66 44.4 1 0 83.5 5	Well Volumes Pur	ged				mich	PPINGEd	,		
Actual Volume Purged (liters) 5 Appearance of Purge Water/Turbidity/Color Intekness (ft): Purging Equipment/Pump/ Peristalic/ bladder/ centrifugal/ submersible GROUNDWATER SAMIPLES Number of Samples / Container Size Time Volume (gallons) Temp (C°) Conductivity (µS/cm) DO (mg/L) pH ORP (meV) Comments 0825 1 19.34 36.8 3.67 7.40 40.5 1 3 19.37 7.43 2.45 7.45 43.7 C.4ear 3 19.37 7.43 7.46 44.1 1 0 835 5 19.36 7.90 40.5 1 4 19.35 7.49 7.46 44.1 1 0 835 5 19.36 7.90 40.5 1 4 19.35 7.49 7.46 44.1 1 0 835 5 19.36 7.90 40.5 1 5 19.36 7.90 1.66 44.1 1 1 <td< td=""><td>Pump Speed (Defa</td><td>ault = 300 rpm</td><td>s)</td><td></td><td colspan="5">300 P.PM</td></td<>	Pump Speed (Defa	ault = 300 rpm	s)		300 P.PM					
Appearance of Purge Water/Turbidity/Color The Product Present? Thickness (ft): Purging Equipment/Pump Peristalic/ bladder/ centrifugal/ submersible GROUNDWATER SAMIPLES Mumber of Samples / Container Size Time Volume (gallons) Temp (C°) Conductivity (µS/cm) DO (mg/L) pH ORP (meV) Comments 0825 1 19.34 74.91 3.67 7.10 -40.8 II 3 19.34 74.91 2.15 7.16 -47.1 II 0835 5 19.38 79.1 2.15 7.16 -47.1 II 0835 5 19.38 79.1 2.15 7.16 -47.1 II 0835 5 19.38 79.1 7.16 -40.8 II II 0835 5 19.38 79.1 7.16 -40.4 II II 0835 5 19.38 79.1 7.16 -40.4 II II 0 6 5 19.38 79.1 7.16 -40.4 II II 0	Estimated Purge F	Rate-ml/min(Pu	ump Speed *	1.67 ml/rev)		,51	ster /na	1.1.7		
Volume Temp Conductivity DO pH ORP Comments 1 19.34 3.67 7.10 40.8 11	Actual Volume Pu	rged (liters)					5			
Variable Value Value GROUNDWATER SAM/PLES Number of Samples / Container Size Three (3) 40mL VOAs (HCL) Time Volume (gallons) Temp (C°) Conductivity DO (mg/L) pH ORP (meV) Comments 0825 1 19.34 3.67 7.10 40.5 1 3 19.37 19.36 7.10 40.5 1 1 4 19.38 7.91 2.15 7.16 40.5 1 0835 5 19.38 7.91 4.16 4.17 1 0835 5 19.38 7.91 4.16	Appearance of Pu	rge Water/Tur	bidity/Color		the					
GROUNDWATER SAMPLES Number of Samples / Container Size Three (3) 40mL VOAs (HCL) Time Volume (gallons) Temp (C°) Conductivity (µS/cm) DO (mg/L) pH ORP (meV) Comments 08725 1 19.34 3.67 7.10 40.5 U 3 19.34 797 3.67 7.10 40.8 U 3 19.37 19.35 7.10 40.8 U U 4 19.38 797 2.14 1.66 44.1 U 0 835 5 19.38 797 2.14 1.66 44.1 U 0 835 5 19.38 797 2.14 1.66 44.2 U 0 835 5 19.38 797 2.14 1.66 44.2 U 0 835 5 19.38 797 2.14 1.66 44.2 U 0 835 5 19.38 797 2			Free Proc	luct Present?		A CONTRACTOR OF	hickness (ft):			
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 0825 1 1935 808 3.67 7.70 40.5 Ulear 3 1937 795 2.15 7.48 -47.1 11 4 19.38 791 2.17 1-66 -47.1 11 0835 5 19.38 791 2.17 1-66 -47.1 11 0835 5 19.38 791 2.17 1-66 -47.1 11 0835 5 19.38 791 2.17 1-66 -47.1 11 0835 5 19.38 791 2.17 1-66 -47.1 11 0 19.38 790 1.18 7.10 -40.2 11 0 8.9 19.2 19.3 19.3 10.4 10.4 10.2 10.4 <tr< td=""><td>Purging Equipmer</td><td>t/Pump Peri</td><td>stalic/ bladde</td><td>er/ centritugal/</td><td></td><td>EC</td><td></td><td></td></tr<>	Purging Equipmer	t/Pump Peri	stalic/ bladde	er/ centritugal/		EC				
Time Volume Removed (gallons) Temp (C°) Conductivity (µS/cm) DO (mg/L) pH ORP (meV) Comments 0825 1 19.34 3.67 7.70 -40.8 11 3 19.34 749 3.67 7.70 -40.8 11 4 19.35 7.99 2.45 7.48 -42.1 11 4 19.35 7.99 1.18 7.49 10.8 11 11 0835 5 19.38 7.90 -40.8 11		an I Containar		ROUNDWA			L)			
Time Removed (gallons) Term (C°) Conductivity (µS/cm) D pH (meV) Comments 0825 1 1934 808 3.67 7.70 -40.8 11 3 19.31 793 2.15 7.16 -40.8 11 4 19.38 791 2.17 -1.66 -47.1 11 0835 5 19.38 791 2.17 -1.66 -47.1 11 0835 5 19.38 791 2.17 -1.66 -47.2 11 0835 5 19.38 790 1.18 7.16 -40.8 11 0835 5 19.38 7.90 -40.8 11 11 0835 19.38 7.90 1.18 7.16 -41.2 11 0835 19.38 7.90 1.18 7.16 -41.2 11 0 19.38 7.90 1.38 7.16 -41.2 11 1	Number of Samp									
0825 1 1934 808 3.67 7.70 43.4 Clean 3 19.36 797 3.67 7.70 40.8 11 3 19.37 793 2.15 7.16 42.1 11 4 19.38 791 2.15 7.16 42.1 11 0 835 5 19.38 791 2.17 7.66 49.2 11 0 835 5 19.38 791 2.17 7.66 49.2 11 0 835 5 19.38 790 1.38 7.00 40.2 11 0 835 5 19.38 7.90 1.48 7.16 41.2 11 0 835 5 19.38 7.90 1.38 7.00 40.2 11 Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV COMMENTS	Time	Removed				pl-l		Comments		
2 19.36 797 3.67 7.70 40.8 11 3 19.37 795 2.65 7.68 -42.1 11 4 19.38 791 2.14 1-66 -44.7 11 0 835 5 19.38 791 2.14 1-66 -44.7 11 0 835 5 19.38 791 2.14 1-66 -44.7 11 0 835 5 19.38 791 2.14 1-66 -44.7 11 0 835 5 19.38 790 1.18 7.00 -40.2 11 Stabilization criteria: pH +/- 0.1; conductivity +/- 3%; DO +/- 10%; ORP +/- 10 meV Odor N0 COMMENTS	0825	(34.14.14)	19.34	808	3.82	7.82	-43.7	Clean_		
Odor NO COMMENTS	- 00-9	2	19.36	597	3.07	7.70	-40.8	11		
Odor NO COMMENTS		3	19.27	795	7.65	7.68	-42.1	11		
Odor NO COMMENTS		4.	19.38	791	5.17	7.66	-44.7	1		
Odor NO COMMENTS	0 835	5	19.38	790	1.78	7.60	-46.2.	4		
Odor NO COMMENTS					_					
Odor NO COMMENTS										
Odor NO COMMENTS										
Odor NO COMMENTS				1 0 di sonduo	tivity 1/ 206 - 1) +/- 10%· C	BP +/- 10 meV			
			criteria: pH +	/- 0.1; conduc	LIVILY +7= 3 70, L	MMENTS	in the former			
Recharge time %		the second se			00					
	Recharge time %									
Duplicate sample	•	1								
Pump intake depth										
Sample method PVMP										

bailer/from pump/system

Monitoring Well Number: DPE-8

Project Name:		Bue	stad		Date	e of Sampling.	5-1-13	
Job Number:		298				e of Sampler:	J. Gorag	
Project Address:	163		et, Alameda,	CA				
Project Address.	100		5., 7 namoda,					
		Γ	NONITORING	G WELL DA	TA			
Well Casing Diam	eter (2"/4"/6")					4		
Wellhead Conditio	ทา					Good	\bigtriangledown	
Elevation of Top o	f Casing (feet	above msl)						
Depth of Well	_					18.00		
Depth to Water (fr	om top of cas	ing)		Before:	7.2	After:	7.27	
Water Elevation (f	eet above ms	l)		Before:		After:		
Purging and Samp			Low-Flo		rawdown) Purgi	ng / Sampliny		
Well Volumes Pur	ged				Mier	opinged		
Pump Speed (Def	าร)				300 Rpm			
Estimated Purge F	Rate-ml/min(P	ump Speed *	1.67 ml/rev)		,51	ster/m	in	
Actual Volume Purged (liters)								
Appearance of Pu	Appearance of Purge Water/Turbidity/Color					lear		
			duct Present?	no	the second se	Thickness (ft):		
Purging Equipmer	t/Pump: Per							
	10.11		ROUNDWA	and some of the local division of the local	nL VOAs (HC	-1 \		
Number of Sampl	Volume					1		
		Toppo	Conductivity	DO	2010	ORP	Comments	
Time	Removed	Temp (C°)	(μS/cm)	(mg/L)	pl-l	(meV)	Comments	
Time	an execution of the second	NACESSA 941-1		(mg/L)	1.50	Second Second	Clean	
	Removed	NACESSA 941-1	(µS/cm)			Second Second		
	Removed	NACESSA 941-1	(µS/cm) 923	3.32		(meV)		
	Removed	NACESSA 941-1	(µS/cm) 923	3.32		(meV)		
	Removed	NACESSA 941-1	(µS/cm) 923	3.32		(meV)		
	Removed	NACESSA 941-1	(µS/cm) 923 920 918 916	3.32		(meV)		
	Removed	NACESSA 941-1	(µS/cm) 923 920 918 916	3.32		(meV)		
	Removed	NACESSA 941-1	(µS/cm) 923 920 918 916	3.32		(meV)		
	Removed (gallons) 1 2 3 4 4 5	(C°) 19.38 19.38 19.38 19.38 19.38	(µS/cm) 923 920 918 916	3.32 2.61 2.07 1.89 1.62	7,50 7,47 7,47 7,47 7,47 7,47 7,47	(meV) -130.8 -127.1 -125.3 -124.1	<u>Clean</u> <u>11</u> 11 11 11	
	Removed (gallons) 1 2 3 4 4 5	(C°) 19.38 19.38 19.38 19.38 19.38	(µS/cm) 923 920 918 916	3,32- 2.61 2.07 1.89 1.62	7.47 7.47 7.45 7.45 7.45	(meV)	<u>Clean</u> <u>11</u> 11 11 11	
	Removed (gallons)	(C°) 19.38 19.38 19.38 19.38 19.38	(µS/cm) 923 920 918 916	3,32- 2.61 2.07 1.89 1.62	7,50 7,47 7,47 7,47 7,47 7,47 7,47	(meV) -130.8 -127.1 -125.3 -124.1	<u>Clean</u> <u>11</u> 11 11 11	
0535	Removed (gallons) 1 2 3 4 5 Stabilization	(C°) 19.38 19.38 19.38 19.38 19.38	(µS/cm) 923 920 918 916	3,32- 2.61 2.07 1.89 1.62	7.47 7.47 7.45 7.45 7.45	(meV) -130.8 -127.1 -125.3 -124.1	<u>Clean</u> <u>11</u> 11 11 11	
0525 0535 Odor	Removed (gallons)	(C°) 19.38 19.38 19.38 19.38 19.38	(µS/cm) 923 920 918 916	3,32- 2.61 2.07 1.89 1.62	7.47 7.47 7.45 7.45 7.45	(meV) -130.8 -127.1 -125.3 -124.1	<u>Clean</u> <u>11</u> 11 11 11	
0535 0535 Odor Recharge time %	Removed (gallons)	(C°) 19.38 19.38 19.38 19.38 19.38	(µS/cm) 923 920 918 916	3,32- 2.61 2.07 1.89 1.62	7.47 7.47 7.45 7.45 7.45	(meV) -130.8 -127.1 -125.3 -124.1	<u>Clean</u> <u>11</u> 11 11 11	
0525 0535 Odor Recharge time % Duplicate sample	Removed (gallons)	(C°) 19.38 19.38 19.38 19.38 19.38	(µS/cm) 923 920 918 916	3,32- 2.61 2.07 1.89 1.62	7.47 7.47 7.45 7.45 7.45	(meV) -130.8 -127.1 -125.3 -124.1	<u>Clean</u> <u>11</u> 11 11 11	

				Mon	itoring We	II Number:	DPE-9		
		Bue	etad		Date	e of Sampling:	5-1-13		
Project Name:		298				e of Sampler:	0112		
Job Number:	400			CA	INCITI	e of oampier.	D. org		
Project Address:	163	0 Park Stree	et, Alameda,	UA					
		n	MONITORIN	G WELL DA	ТА				
Well Casing Diam	eter (2"/4"/6")					4			
Wellhead Conditio	n			9000					
Elevation of Top o	f Casing (feet	above msl)		Q					
Depth of Well				18.00					
Depth to Water (fr	om top of casi	ng)		Before:	77	S After:	7.76		
Water Elevation (f	eet above msl)		Before: After:					
Purging and Samp	ling Method			Low-Flow (Minimal Drawdown) Purging / Sampling					
Well Volumes Pur	ged				Mu	mornige	d.		
Pump Speed (Def	ault = 300 rpm	is)		300 R.BM					
Estimated Purge F	Rate-ml/min(P	ump Speed *	1.67 ml/rev)	SLiter Min					
Actual Volume Pu	rged (liters)					5			
Appearance of Pu	rge Water/Tur	bidity/Color				lean-			
			duct Present?			Thickness (ft):			
Purging Equipmer	nt/Pump: Peri								
			ROUNDWA			11			
Number of Samp	1	Size		Three (3) 40mL VOAs (HCL)					
Time	Volume Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	DO (mg/L)	pН	ORP (meV)	Comments		
0605	<u>, , , , , , , , , , , , , , , , , , , </u>	19 37	157	297	7.82	103.4	Clear		
	i	19.28	755	2.02	7.80	-101.8	4		
	2	19.29	7.55	1.83	7.80	-104.2	11		
	4	19.20	753	1.67	7.80	-106.3	NI		
0615	6	19.39	752	1.53	7.80	-108.1	18		
0 (\$15	10			/					
12 million (12 million)									
	Stabilization	criteria: pH +/	/- 0.1; conduc			RP +/- 10 meV			
Odor	NO			ĊĊ	MMENTS				
Recharge time %	-190%								
Duplicate sample	NO								
Pump intake depth	16FT								
Sample method	prmp					-			
bailer/from pump/sy	rstem								

				Mon	itoring We	ll Number:	DPE-10		
······					Dete	e of Sampling:	5-1-13		
Project Name:		Bue		-			70.00		
Job Number:		298	and the second se	<u> </u>	Nam	e of Sampler:	J'Sigg		
Project Address:	163	0 Park Stree	et, Alameda,	CA					
		N	IONITORIN	G WELL DA	TA				
Well Casing Diame	eter (2"/4"/6")					4			
Wellhead Condition	n				90	50	\$		
Elevation of Top of	f Casing (feet	above msl)			0				
Depth of Well				17.00					
Depth to Water (fro	om top of casi	ng)		Before:	8:21	After:	8 23		
Water Elevation (fe	eet above msl)	- to be a second s	Before: After:					
Purging and Samp	ling Method			Low-Flo		rawdown) Purgi	ing / Sampling		
Well Volumes Purg	ged				Micro	purged			
Pump Speed (Defa	ault = 300 rpm	s)				300 kpm			
Estimated Purge F	Rate-ml/min(P	ump Speed *	1.67 ml/rev)	SLiter /min					
Actual Volume Pur	ged (liters)					5			
Appearance of Pur	rge Water/Tur	bidity/Color		(<	lege-			
			duct Present?			Thickness (ft):			
Purging Equipmen	VPump: Peri	stalic/ bladde	ROUNDWA		EQ				
Number of Sampl	on / Container		ROONDAAM		nL VOAs (HC	CL)			
	Volume		0 1 11 11						
Time	Removed (gallons)	Temp (C°)	Conductivity (µS/cm)	(mg/L)	рН	(meV)	Comments		
0625	(3	19.35	743	4.07	7.53	-144.5	Clean		
445	2	10.23	443	3.13	7,50	-140.7.	(1		
	2	19.36	740	2.86	7.48	-44-0.1	1 (
	if	19.36	14	2.10	7.46	-138.3	U.		
Dhac	- 2	1926	740	1.87	7.45	-136.1	1		
04-15	- Jan	find in / and							
	Stabilization	criteria: pH +	/- 0.1; conduct)RP +/- 10 meV	1		
Odor	NO			CC	OMMENTS				
Recharge lime %	290%					•			
Duplicate sample	NO								
Pump intake depth	15 M								
Sample method	PUMP			da inclusione and a second					
bailer/from pump/sy	stem								

				Moni	itoring Wel	Number:	DPE-11		
				1			5-1-12 1		
Project Name:		Bues	stad			of Sampling:	TE		
Job Number:		2989	931		Name	e of Sampler:	2 2191		
Project Address:	1630) Park Stree	l, Alameda, (CA					
	1	B	IONITORING		ΓA				
	ator (0"14"/6")	IN		D VULLE DI		4			
Well Casing Diam				Good					
Wellhead Conditio	and the second se	abovo mell			(3			
Elevation of Top o	Casing (leet a	above many				18.00			
Depth of Well				Before: 7.24 After: 7.26					
Depth to Water (fr				Before: After:					
Water Elevation (f				Low-Flow (Minimal Drawdown) Purging / Sampling					
Purging and Samp	and the second se			LOW TIO		puged			
Well Volumes Pur	and the second se				2	po ppm			
Pump Speed (Def			4.07 mil/row		CIN	ter Inzi	61		
Estimated Purge F		imp Speed	1.67 mi/lev)		10 -1	5			
Actual Volume Pu			- 0	lean					
Appearance of Pu	rge Water/Tur	bidity/Color	duct Present?	no		Thickness (ft):			
Purging Equipmer	at/Pump: Peri	stalic/ bladde	er/ centrifugal/	submersible					
Purging Equipmen	ior unp. i en	G	ROUNDWA	TER SAMPL	ES				
Number of Samp	les / Container	and the local data and t		Three (3) 40r	nL VOAs (HC	L)			
Training of a starting	Volume	Temp	Conductivity	DO	pН	ORP	Comments		
Time	Removed (gallons)	(C°)	(µS/cm)	(mg/L)	рп	(meV)	C C I I I I I I I I I I I I I I I I I I		
0125	(galions)	19.35	913	3.28	7.62	188-3	Cleux		
	2	19 27	945	252	7.61	-186.1	t t		
	- 2	1927	auu	2.10	7.60	-185.4	1(
	2	1027	012	193	7.60	-183.	11		
	5	19.50	dub	1.60	7.60	181.5	11		
_0403	5	1-1-20	1.0	-					
				1					
	Stabilization	criteria: pH +	/- 0.1; conduc	tivity +/- 3%; [)O +/- 10%; C)RP +/- 10 me\	/		
Odor	ND			CC	DMMENTS				
Recharge time %	2900/0								
Duplicate sample	NO								
Pump intake depth	HOFT								
Sample method	Fring			40.00					
bailer/from pump/s	yslem								
the second se									

	McCA	MPBELI	L ANA	LY	FICAI	_ INC									(CHA	AI]	ŇC)F (CU	ST	OD	ΥF	E(COF	۲D		
	1538 W	illow Pass	Road, Pi	ittsb	urg, CA	94565	5					Τľ	UR	N A]	ROI	JND) T]	[MI	C		ļ.							
Telephone: (92	25) 252-9262				-		Fay	:: (92	5) 25%	2-926	;9	тъ	תיית.	equir		100	7.00	.	Nĭ.		JSH DDE		HR		8 HR		72 HR	5 DA
Report To: Ro			T	Rain	[o: AE]				.,			вD	FR	equi		Analy					FDF	Kee	uire		\mathbf{M} Ye Other			ments
Company: AE								****	597							- Anar	<u>y 313</u>								Other	<u>.</u>		ments
PO# WCD8			Global II				, -																-				91700	
					ail: rrol		Daei	consu	ltatns	.com		č	ចុ	1														[
Telephone: (92	5) 746-6000,	ext. 148			(925) 7								lica C															
AEI Project N					ect Nan	ne: FS	1					. 97	M 21	Ê														
Project Locati				. 945	01								2 W	(EPA 8260B)													.	
Sampler Signa	ture: XAN			r	1				M	THO	m	8015 M)	A 801	PA {														
		SAMPI	LING				TR			SERV		801) (EP	Щ Ш														
SAMPLE ID	FIEŁD POINT NAME	Date	Time	# of Containers	Type Containers	Water Soil	Air	Sludge Other	Ice	HCL HNO,	Other	TPH-G (EPA	TPH-D / TPH-MO (EPA 801 5 M w/ Sulica Gel Clean- up)	BTEX, MTBE														
MW-1		51-13	0455	4	VOA, ajgber-E	X			X			x	X	X									-					
MW-2		1	0515	4	VOA,	x			x	x	-	X	X	x						-				-				
MW-3			0535	4	VOA, ambor-È	x		1	X	X		x	X	X										1			-	
MW-4			3415	4	VOA, amber I-	X			X	x		x	X	x										1				
MW-5			0435	4	VOA, amber L	X			X	X	Τ	x	X	X														
DEP-1			0615	4	VOA.	x			x	x		x	X	X														
DEP-2			0635	4	VOA, amber L	X			X	X		x	x	X												-		
-DEP-3			ر. ر	-4-	VOA, amber L	X			- X -	-X-		x	X	X										-				
DEP-4			0655	4	VOA, amber E	x			x	X		x	X	X										1				
DEP-5			0855	4	VOA, amber I	x	1		x	X	-	x	X	i										1			40	1-17
DEP-6		1	0715	4	VOA, ambasi	x	1		x	x		x	X	x										1		-		
DEP-8			6735	4	VOA,	X	1		x	x		x		-{						-				1		+		
DEP-9			C755	4	VOA, ember-k	x	-		x			x		+										1	<u> </u>		1	
DEP-10	†		0815	4	VOA,	X	\uparrow			x		x		·····						-				1			-	
DEP-11		1	0835	4	VOA, amber L		1		X		1		x	+										1				
Relinquished By:	1995	Date: 5-1-13	Time:	Re	ocived B	6		20) ICE	<u></u> t	1- <u></u>	<u>1</u>	1			PR	ESEF	VAT	TION	VOAS	- 0&	.c	METAL	s oti
Relinquished By:	V V	Date:	Time:		ceived By								GO(HEA	OD CO D SP CHLO	ACE	ABSI	ENT			API CO	PROI NTA	PRIA INEF	TE		B	** <u> </u>		uni
Relinquished By:		Date:	Time:	Ke	ceived B	y:						1	UBC	JULUU	MIN	**10D	114	UND		ſ	101/033	017 Y]	an II.	1 114	<u>ل</u>	·····		

APPENDIX B

LABORATORY ANALYTICAL REPORTS W/ CHAIN OF CUSTODY DOCUMENTATION





McCampbell Analytical, Inc. "When Quality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

AEI Consultants	Client Project ID: #298931; FSI	Date Sampled:	05/01/13
2500 Camino Diablo, Ste.#200		Date Received:	05/01/13
2000 Cullino Diabio, 50.11200	Client Contact: Robert Robitaille	Date Reported:	05/07/13
Walnut Creek, CA 94597	Client P.O.: #WC084094	Date Completed:	05/07/13

WorkOrder: 1305020

May 08, 2013

Dear Robert:

Enclosed within are:

- 1) The results of the 13 analyzed samples from your project: #298931; FSI,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

_	2			1	30	5	02	D							_																			
		McCA	MPB	ELL	ANA	LY	TICA	LI	NC.	0									(CH	[A]	IN	0	FC	CU	ST	OD	Y	RF	ECO	DR	D		21.52
		1538 V	Villow 1	Pass R	Road, P	ittsb	ourg, C.	A 94	565						1	rui	RN	AR	101	UN	DT	IN	1E		[Ģ	1			
	Telephone: (9									Tax:	(92	5) 2:	52-9	269	E	DF	Req	uire	ed?		Yes	5	N	0		SH		4 HR quire		48 H			2 HR No	5 DAY
	Report To: Ro	bert Robitai	ille			Bill	To: AE	I Co	nsu	ltan	ts									Ana	lysi	s R	equ	est					Т		her	T	Com	ments
	Company: AE		ts, 2500	0 Cam	nino Dia	ablo	, Waln	ut C	reek	, CA	4 94	597																	Т			Т	1	1
1	PO# WCD8	14094		G	lobal II	D: T	060010	065	5							w/ Silica Gel Clean-																		
							ail: rro				onsu	ltatn	s.co	m		Gel C																		
	Telephone: (92		, ext. 14	18			(925)								-	lica (
	AEI Project N			-			ect Nar	ne:	FSI						-	w/Si	(B)	1																
	Project Locatio			1	- /	945	501		_					_	-	8015 M	8260B)																	
P	Sampler Signa	ture:		219				-				L M	(FTT	IOD	- 2	A 801	(EPA 8																	
	1	FIELD	SA	MPL	DIG		s	1	MAT	FRE	x			RVED	~~	fO (EPA	3E (E																	
	SAMPLE ID	POINT	Dat	e		# of Container	Type Containers	Water	Soil	Sludge	Other	Ice	HCL	HNO ₃	TPH-G (EPA	OM-H4T / G-H4T	BTEX, MTBE																	
	MW-1		5-1-1	30	\$455	5	VOA, ambar b	X				X	X		x	X	X											-	t			+		
N	MW-2		1		515	4	VOA, sahert	X				X	X		X	X	X		•															
N	MW-3				535	4	VOA,	X				X	x		x	X	X																	
IN	MW-4			~	415	4	VOA, ambacL	X				x	X		-	x									-				+					
N	MW-5			_	435	4	VOA, ambar L	x				x			-	X	x				-	-							\vdash			+		
T	DEP-1				615	4	VOA, amber L	x	-	-		x	-	-	X	-	X		-										\vdash			+		
	DEP-2				635	4	VOA,	X		+	-	X	-	-	X		X				+	-	-	-	+				+	+		+		
-	DEP-3			1	1	4	VOA,	X		-	-	X		-	X		X			-	-	-		-	-	-		-	⊢	-		+		
	DEP-4			-	655	4	voa,	X		-	-	X	_	-	X		X				-	-	-	-	-	-		-	\vdash	-		+		
1	DEP-5				855	-	VOA,	X	-	-		X	-		-	-					-	-	-	-	-			-	⊢			-	1101	-
-	DEP-6				715		VOA,	X	-	-	-			-	-	X X	X X				-	-	-	-	-	-	-	+	+	-		+	HOL	هل-
				_			VOA,		-	-	-	X		-	-				_		+	-	-	-	-		-	-	-			+		
-	DEP-8				735	1	VOA,	X	-	+	-	X		-	-	X		-			-	-	_	-	-	+	-	-	⊢			+		
	DEP-9				755	1	ambar-b	X	_	-		X	_	-	-		X				_	_		_	_	-			1			_		
-	DEP-10				815	4	VOA, ambor b VOA,	X	-	-		X		-	-		X	-		_	_	_		_	_	_	-		1			-		
	DEP-11		¥		835	4	amber 1	Х				X	X		X	Х	X																	
	Relinquished By: /	igg	Date: 5-1-1- Date:	31	Cime:	/	eived By:	0	U	U	0	v	0	2			t°	0	9			/	/				ATI	ION_	VOAS	\$ 0.	&G	ME	TALS	OTHE
	Relinquished By:	vv	Date:		fime:		eived By:								1	IEA	DD C D SI HLC	PAC	EA	BSE	INT		4	C	ONT	AIN	RIAT VERS RVE		LA	.в		-		

Page 2 of 14

McCampbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262					W	/orkO	rder: 1	130502)	Cli	entCoo	le: Al	EL				
		WaterTrax	WriteOn	✓ EDF	E	xcel		EQuIS	✓	Email		Hard	Сору	ThirdPa	rty	_ J-fla	g
Report to:						В	ill to:						Requ	ested TAT:		5 d	ays
Robert Robitaille AEI Consultants 2500 Camino Diab Walnut Creek, CA (925) 283-6000	,	cc: PO: #	obitaille@aeic WC084094 298931; FSI	onsultants.com			AEI 0 2500 Waln	Guerin Consulta Camine ut Cree untsPay	o Diabl k, CA 9	94597		ts.c		Received: Printed:		05/01/20 05/01/20	
									Re	quested	Tests	(See le	gend b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1305020-001	MW-1		Water	5/1/2013 4:55		А	В	A									
1305020-002	MW-2		Water	5/1/2013 5:15		А	В									-	
1305020-003	MW-3		Water	5/1/2013 5:35		А	В										
1305020-004	MW-4		Water	5/1/2013 4:15		А	В										
1305020-005	MW-5		Water	5/1/2013 4:35		А	В										
1305020-006	DEP-1		Water	5/1/2013 6:15		А	В										
1305020-007	DEP-2		Water	5/1/2013 6:35		А	В										
1305020-008	DEP-4		Water	5/1/2013 6:55		А	В									-	
1305020-010	DEP-6		Water	5/1/2013 7:15		А	В									-	
1305020-011	DEP-8		Water	5/1/2013 7:35		А	В										
1305020-012	DEP-9		Water	5/1/2013 7:55		А	В									1	
1305020-013	DEP-10		Water	5/1/2013 8:15		А	В									1	
1305020-014	DEP-11		Water	5/1/2013 8:35		А	В								-		

Test Legend:

1	G-MBTEX_W
6	
11	

2	MBTEX-8260B_W
7	
12	

3	PREDF REPORT	
8		

4 9 5

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 010A, 011A, 012A, 013A, 014A contain testgroup.

Prepared by: Maria Venegas

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				Da	te and	Time Received:	5/1/2013 2:	35:44 PM
Project Name:	#298931; FSI				Lo	gIn Rev	viewed by:		Maria Venegas
WorkOrder N°:	1305020	Matrix: Water			Ca	arrier:	Client Drop-In		
		<u>Cha</u>	<u>in of Cւ</u>	<u>ustody (C</u>	OC) Infor	mation	1		
Chain of custody	present?		Yes	✓	No				
Chain of custody	signed when relinqu	ished and received?	Yes	✓	No				
Chain of custody	agrees with sample	labels?	Yes	✓	No				
Sample IDs note	d by Client on COC?		Yes	✓	No				
Date and Time o	f collection noted by	Client on COC?	Yes	✓	No				
Sampler's name	noted on COC?		Yes	✓	No				
			<u>Sample</u>	Receipt	Informati	on			
Custody seals in	tact on shipping cont		Yes		No	_		NA 🗹	
Shipping contain	er/cooler in good con	ndition?	Yes	✓	No				
Samples in prope	er containers/bottles?	?	Yes	✓	No				
Sample containe	ers intact?		Yes	✓	No				
Sufficient sample	e volume for indicated	d test?	Yes	✓	No				
		Sample Pres	ervatio	<u>n and Ho</u>	<u>ld Time (</u> l	<u>HT) Inf</u>	ormation		
All samples rece	ived within holding tir	ne?	Yes	✓	No				
Container/Temp	Blank temperature		Coole	er Temp:	1.9°C			NA	
Water - VOA vial	ls have zero headspa	ace / no bubbles?	Yes	✓	No	No	VOA vials submi	itted	
Sample labels ch	necked for correct pre	eservation?	Yes	✓	No				
Metal - pH accep	otable upon receipt (p	H<2)?	Yes		No			NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No				
		(Ісе Тур	e: WE	TICE)	1				
* NOTE: If the "N	lo" box is checked, s	ee comments below.							

Comments:

Mc <u>Mc</u>	Campbell Anal ''When Quality Cou		Toll Free Telepho	Pass Road, Pittsburg ne: (877) 252-9262 pbell.com / E-mail:	/ Fax: (92	5) 252-9269	
AEI Consultants	3	Client Project ID:	#298931; FSI	Date Sample	ed: 05	/01/13	
2500 Camino Di	iablo. Ste #200			Date Receiv	ed: 05	/01/13	
2500 Canino Di	14010, 510.#200	Client Contact: R	obert Robitaille	Date Extract	ted 05	/02/13-0	05/06/13
Walnut Creek, C	CA 94597	Client P.O.: #WC	084094	Date Analyz	ed 05	/02/13-0	05/06/13
Extraction method: SW			ntile Hydrocarbons as (nethods: SW8015Bm	Gasoline*	W	ork Order:	1305020
Lab ID	Client ID	Matrix	TPH(g)		DF	% SS	Comments
001A	MW-1	W	ND		1	96	
002A	MW-2	W	280		1	109	d1
003A	MW-3	W	ND		1	94	
004A	MW-4	W	ND		1	119	
005A	MW-5	W	64		1	#	d1
006A	DEP-1	W	330		1	129	d1
007A	DEP-2	W	180		1	102	d1
008A	DEP-4	W	210		1	#	d1
010A	DEP-6	W	ND		1	108	
011A	DEP-8	W	140		1	110	d1
012A	DEP-9	W	1700		1	#	d1
013A	DEP-10	W	3700		2	#	d1
014A	DEP-11	W	ND		1	103	
	rting Limit for DF =1;	W	50			μg/L	<u> </u>

50 µg/L ND means not detected at or S NA NA above the reporting limit

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: d1) weakly modified or unmodified gasoline is significant

DHS ELAP Certification 1644

Analyst's Initial IA



Angela Rydelius, Lab Manager

McCampbell A		al <u>, Inc.</u>	Toll Free Teleph	Pass Road, Pittsburg, CA one: (877) 252-9262 / Fax npbell.com / E-mail: main(: (925) 252-9269	
AEI Consultants	Client	Project ID: #	298931; FSI	Date Sampled:	05/01/13	
2500 Camino Diablo, Ste.#200				Date Received:	05/01/13	
2000 Cullino Diabio, 5tel: 200	Client	Contact: Robe	ert Robitaille	Date Extracted:	05/03/13-0	05/04/13
Walnut Creek, CA 94597	Client	P.O.: #WC084	4094	Date Analyzed:	05/03/13-0	05/04/13
Extraction Method: SW5030B		BE and BTEX	•	-	Work Order:	1305020
Lab ID	1305020-001H	3 1305020-00	02B 1305020-003B	1305020-004B		
Client ID	MW-1	MW-2	MW-3	MW-4		Limit for $F=1$
Matrix	W	W	W	W	_	
DF	1	1	1	1	S	W
Compound		C	Concentration		ug/kg	µg/L
Benzene	3.1	2.2	ND	1.8	NA	0.5
Ethylbenzene	ND	5.6	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5
Toluene	ND	ND	ND	ND	NA	0.5
Xylenes, Total	ND	5.6	ND	ND	NA	0.5
	Su	rogate Recov	eries (%)		•	
%SS1:	104	108	111	108		
%SS2:	95	95	97	97		
Comments						
* water and vapor samples are reported in μg extracts are reported in mg/L, wipe samples i		id samples in mg/	kg, product/oil/non-aqueo	bus liquid samples and	all TCLP & S	PLP
ND means not detected above the reporting h	imit/method detec	tion limit; N/A me	eans analyte not applicabl	e to this analysis.		
# surrogate diluted out of range or coelutes w	vith another peak;	&) low surrogate of	due to matrix interference			
%SS = Percent Recovery of Surrogate Standa DF = Dilution Factor	ard					



McCampbell A "When Qual		l <u>, Inc.</u>	Toll Free Telepho	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@	(925) 252-9269	
AEI Consultants	Client I	Project ID: #2989	931; FSI	Date Sampled:	05/01/13	
2500 Camino Diablo, Ste.#200				Date Received:	05/01/13	
2300 Callino Diablo, Stell/200	Client 0	Contact: Robert R	obitaille	Date Extracted:	05/03/13-0	05/04/13
Walnut Creek, CA 94597	Client I	P.O.: #WC084094		Date Analyzed:	05/03/13-0	05/04/13
Extraction Method: SW5030B		BE and BTEX by nalytical Method: SW826			Work Order:	1305020
Lab ID	1305020-005B	1305020-006B	1305020-007B	1305020-008B		
Client ID	MW-5	DEP-1	DEP-2	DEP-4	Reporting	Limit for $r = 1$
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound		Conc	entration		ug/kg	µg/L
Benzene	3.4	0.90	37	19	NA	0.5
Ethylbenzene	ND	1.9	3.1	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5
Toluene	ND	ND	1.3	ND	NA	0.5
Xylenes, Total	ND	10	3.2	ND	NA	0.5
	Sur	rogate Recoveries	s (%)			
%SS1:	108	104	106	108		
%SS2:	96	95	97	96		
Comments						
* water and vapor samples are reported in µg extracts are reported in mg/L, wipe samples i		d samples in mg/kg, pr	oduct/oil/non-aqueo	us liquid samples and	all TCLP & S	PLP
ND means not detected above the reporting li	mit/method detect	ion limit; N/A means a	nalyte not applicable	to this analysis.		
# surrogate diluted out of range or coelutes w	ith another peak; &	t) low surrogate due to	matrix interference.			
%SS = Percent Recovery of Surrogate Standa DF = Dilution Factor	urd					



			<u>, Inc.</u>	Toll Free Telepho	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@	(925) 252-9269	
AEI Consultants		Client Pr	oject ID: #2989	31; FSI	Date Sampled:	05/01/13	
2500 Camino Diablo, Ste.#200					Date Received:	05/01/13	
2500 Cumilo Diaolo, Ste.: 200		Client Co	ontact: Robert R	obitaille	Date Extracted:	05/03/13-0	05/04/13
Walnut Creek, CA 94597		Client P.	O.: #WC084094		Date Analyzed:	05/03/13-0	05/04/13
Extraction Method: SW5030B			E and BTEX by alytical Method: SW826			Work Order:	1305020
Lab ID	13050	20-010B	1305020-011B	1305020-012B	1305020-013B		
Client ID	D	EP-6	DEP-8	DEP-9	DEP-10	Reporting DF	Limit for =1
Matrix		W	W	W	W	-	
DF		1	1	1	3.3	S	W
Compound			Conce	entration		ug/kg	μg/L
Benzene	().58	8.0	5.4	56	NA	0.5
Ethylbenzene		ND	ND	5.6	95	NA	0.5
Methyl-t-butyl ether (MTBE)		ND	ND	ND	ND<1.7	NA	0.5
Toluene		ND	ND	ND	ND<1.7	NA	0.5
Xylenes, Total		ND	ND	11	82	NA	0.5
		Surro	ogate Recoveries	(%)			
%SS1:		107	107	107	109		
%SS2:		98	95	95	95		
Comments							
* water and vapor samples are reported in μg extracts are reported in mg/L, wipe samples			samples in mg/kg, pr	oduct/oil/non-aqueou	us liquid samples and	all TCLP & SI	PLP
ND means not detected above the reporting l	imit/met	hod detectio	n limit; N/A means a	nalyte not applicable	to this analysis.		
# surrogate diluted out of range or coelutes v	vith anot	ner peak; &)	low surrogate due to	matrix interference.			
%SS = Percent Recovery of Surrogate Stand DF = Dilution Factor	ard						



		<u>, Inc.</u>		Toll Free Tele	ow Pass Road, Pittsburg, CA phone: (877) 252-9262 / Fax campbell.com / E-mail: main	: (925) 252-9269			
AEI Consultants									
2500 Camino Diablo, Ste.#200		Date Received:					05/01/13		
2500 Camilio Diaolo, 5(C.#200	Client C	ontact: Ro	obert Ro	bitaille	Date Extracted:	05/03/13-0	05/04/13		
Walnut Creek, CA 94597	Client P	.O.: #WC0)84094		Date Analyzed:	05/03/13-0	05/04/13		
Extraction Method: SW5030B		E and BT	•		•	Work Order:	1305020		
Lab ID	1305020-014B								
Client ID	DEP-11					Reporting DF			
Matrix	W								
DF	1					S	W		
Compound			Concer	ntration		ug/kg	μg/L		
Benzene	ND					NA	0.5		
Ethylbenzene	ND					NA	0.5		
Methyl-t-butyl ether (MTBE)	ND					NA	0.5		
Toluene	ND					NA	0.5		
Xylenes, Total	ND					NA	0.5		
	Surr	ogate Rec	overies	(%)					
%SS1:	111								
%SS2:	96								
Comments									
* water and vapor samples are reported in μg extracts are reported in mg/L, wipe samples i		samples in n	ng/kg, pro	duct/oil/non-aqu	ieous liquid samples and	all TCLP & SI	PLP		
ND means not detected above the reporting l	imit/method detection	on limit; N/A	means and	alyte not applica	able to this analysis.				
# surrogate diluted out of range or coelutes w %SS = Percent Recovery of Surrogate Stand DF = Dilution Factor	-) low surroga	te due to n	natrix interferen	ce.				



₩CC	ampbell And "When Quality Co	lytical, Inc ^{unts} "	Toll Free	Willow Pass Road, Pittsburg, CA Felephone: (877) 252-9262 / Fax: .mccampbell.com / E-mail: main@	(925) 252-9	269	
AEI Consultants		Client Project	ID: #298931; FSI	Date Sampled:	05/01	/13	
2500 Camino Diab	lo. Sto #200			Date Received:	05/01	/13	
2500 Callino Diao	10, Ste.#200	Client Contact:	05/01	/13			
Walnut Creek, CA	94597	Client P.O.: #	WC084094	Date Analyzed:	05/02	/13-05/0	6/13
Extraction method: SW35			um Hydrocarbons with methods: SW8015B	Silica Gel Clean-Up*	W	/ork Order:	1305020
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1305020-001A	MW-1	W	ND	ND	1	95	
1305020-002A	MW-2	W	190	ND	1	85	e4
1305020-003A	MW-3	W	ND	ND	1	88	
1305020-004A	MW-4	W	ND	ND	1	91	
1305020-005A	MW-5	W	ND	ND	1	96	
1305020-006A	DEP-1	W	74	ND	1	93	e4
1305020-007A	DEP-2	W	57	ND	1	92	e4
1305020-008A	DEP-4	W	53	ND	1	88	e2
1305020-010A	DEP-6	W	1200	1100	1	93	e3
1305020-011A	DEP-8	W	92	ND	1	92	e4
1305020-012A	DEP-9	W	1300	ND	1	97	e4
1305020-013A	DEP-10	W	2600	ND	1	95	e4
1305020-014A	DEP-11	W	ND	ND	1	93	
1	ng Limit for DF $=1$; ns not detected at or	W	50	250		μg/.	Ĺ

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / SPLP / TCLP extracts are reported in µg/L.

NA

#) cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; &) low or no surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

ND means not detected at or

above the reporting limit

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

S

e2) diesel range compounds are significant; no recognizable pattern

e3) aged diesel is significant

e4) gasoline range compounds are significant.

DHS ELAP Certification 1644

MAM Analyst's Initial

NA

Angela Rydelius, Lab Manager

mg/Kg



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water	QC Matrix:	ix: Water			BatchID: 76911		WorkOrder: 1305020		
EPA Method: SW8021B/8015Bm Extraction: S	W5030B						Spiked Sam	ple ID:	1304880-003A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) [£]	ND	60	94	90.6	3.68	92.1	70 - 130	20	70 - 130
MTBE	ND	10	90.8	91.3	0.514	93.7	70 - 130	20	70 - 130
Benzene	ND	10	86.4	88.8	2.82	85.7	70 - 130	20	70 - 130
Toluene	ND	10	87.4	89.7	2.52	87	70 - 130	20	70 - 130
Ethylbenzene	ND	10	87.7	91.1	3.80	86.7	70 - 130	20	70 - 130
Xylenes	ND	30	88.9	92.5	3.91	87.1	70 - 130	20	70 - 130
%SS:	107	10	88	96	8.68	95	70 - 130	20	70 - 130
All target compounds in the Method Blank of this extraction ba NONE	tch were ND	less than th	e method	RL with th	he following	g exceptio	ns:		

			<u>BATCH 76911 SI</u>	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1305020-001A	05/01/13 4:55 AM	05/03/13	05/03/13 5:13 AM	1305020-002A	05/01/13 5:15 AM	05/03/13	05/03/13 5:43 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

 \pounds TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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, or inconsistency in sample containers.

_QA/QC Officer



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water	QC Matrix:	Water			BatchID	: 76940	WorkOrder: 1305020			
EPA Method: SW8021B/8015Bm Extraction: S	W5030B						Spiked Sam	ple ID:	1305040-002C	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) [£]	ND	60	92.8	95.5	2.86	91.6	70 - 130	20	70 - 130	
MTBE	ND	10	98	97.2	0.734	96.5	70 - 130	20	70 - 130	
Benzene	ND	10	88.2	86.7	1.70	89.6	70 - 130	20	70 - 130	
Toluene	ND	10	89.7	88.9	0.851	90.4	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	92.5	91	1.56	92.5	70 - 130	20	70 - 130	
Xylenes	ND	30	93.2	91.9	1.43	93.1	70 - 130	20	70 - 130	
%SS:	96	10	95	95	0	98	70 - 130	20	70 - 130	
All target compounds in the Method Blank of this extraction ba NONE	tch were ND	less than th	e method	RL with tl	he following	g exceptio	ns:			

	BATCH 76940 SUMMARY										
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed				
1305020-003A	05/01/13 5:35 AM	05/03/13	05/03/13 5:47 PM	1305020-004A	05/01/13 4:15 AM	05/02/13	05/02/13 9:26 PM				
1305020-005A	05/01/13 4:35 AM	05/03/13	05/03/13 11:47 PM	1305020-006A	05/01/13 6:15 AM	05/02/13	05/02/13 11:31 PM				
1305020-007A	05/01/13 6:35 AM	05/03/13	05/03/13 12:03 AM	1305020-008A	05/01/13 6:55 AM	05/03/13	05/03/13 12:34 AM				
1305020-010A	05/01/13 7:15 AM	05/06/13	05/06/13 11:52 PM	1305020-011A	05/01/13 7:35 AM	05/03/13	05/03/13 1:37 AM				
1305020-012A	05/01/13 7:55 AM	05/03/13	05/03/13 9:38 PM	1305020-013A	05/01/13 8:15 AM	05/03/13	05/03/13 11:15 PM				
1305020-014A	05/01/13 8:35 AM	05/04/13	05/04/13 12:52 AM								

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

 \pounds TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8260B

QC Matrix: Water BatchID: 77012 WorkOrder: 1305020 W.O. Sample Matrix: Water EPA Method: SW8260B Extraction: SW5030B Spiked Sample ID: 1305072-001A Sample Spiked MS MSD MS-MSD LCS Acceptance Criteria (%) Analyte µg/L µg/L % Rec. % Rec. % RPD % Rec. MS / MSD RPD LCS ND 20 104 104 0 93.9 70 - 130 20 70 - 130 Benzene Methyl-t-butyl ether (MTBE) ND 20 114 114 0 108 70 - 130 20 70 - 130 ND 20 85.5 86.2 0.808 80.9 70 - 130 20 70 - 130 Toluene 0 %SS1: 108 25 106 106 111 70 - 130 20 70 - 130 %SS2: 97 25 94 95 0.540 94 70 - 130 20 70 - 130 All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 77012 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1305020-001B	05/01/13 4:55 AM	05/03/13	05/03/13 11:43 PM	1305020-002B	05/01/13 5:15 AM	05/04/13	05/04/13 12:26 AM
1305020-003B	05/01/13 5:35 AM	05/04/13	05/04/13 1:09 AM	1305020-004B	05/01/13 4:15 AM	05/04/13	05/04/13 1:52 AM
1305020-005B	05/01/13 4:35 AM	05/04/13	05/04/13 2:34 AM	1305020-006B	05/01/13 6:15 AM	05/04/13	05/04/13 3:17 AM
1305020-007B	05/01/13 6:35 AM	05/04/13	05/04/13 3:59 AM	1305020-008B	05/01/13 6:55 AM	05/04/13	05/04/13 4:42 AM
1305020-010B	05/01/13 7:15 AM	05/04/13	05/04/13 5:24 AM	1305020-011B	05/01/13 7:35 AM	05/04/13	05/04/13 6:07 AM
1305020-012B	05/01/13 7:55 AM	05/04/13	05/04/13 6:49 AM	1305020-013B	05/01/13 8:15 AM	05/04/13	05/04/13 7:32 AM
1305020-014B	05/01/13 8:35 AM	05/04/13	05/04/13 8:14 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

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.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water	QC Matrix: Water				BatchID	: 76880		WorkOrder: 1305020		
EPA Method: SW8015B Extraction: SW3510C/3630C Spiked Sample ID: N/A										N/A
Analyte		Sample Spiked M			MSD	MS-MSD	LCS	Acceptance Criteria (%)		
		µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)		N/A	1000	N/A	N/A	N/A	109	N/A	N/A	70 - 130
%SS:		N/A	625	N/A	N/A	N/A	95	N/A	N/A	70 - 130
All target compounds in the Method Blan	c of this extraction batch	n were ND	less than th	e method	RL with th	ne following	g exception	s:		

BATCH 76880 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1305020-001A	05/01/13 4:55 AM	05/01/13	05/03/13 10:28 PM	1305020-002A	05/01/13 5:15 AM	05/01/13	05/04/13 11:31 PM
1305020-003A	05/01/13 5:35 AM	05/01/13	05/04/13 10:19 PM	1305020-004A	05/01/13 4:15 AM	05/01/13	05/04/13 4:10 PM
1305020-005A	05/01/13 4:35 AM	05/01/13	05/04/13 2:53 PM	1305020-006A	05/01/13 6:15 AM	05/01/13	05/04/13 5:28 PM
1305020-007A	05/01/13 6:35 AM	05/01/13	05/02/13 8:26 PM	1305020-008A	05/01/13 6:55 AM	05/01/13	05/06/13 8:51 PM
1305020-010A	05/01/13 7:15 AM	05/01/13	05/02/13 8:59 AM	1305020-011A	05/01/13 7:35 AM	05/01/13	05/04/13 9:50 AM
1305020-012A	05/01/13 7:55 AM	05/01/13	05/02/13 5:32 AM	1305020-013A	05/01/13 8:15 AM	05/01/13	05/02/13 4:23 AM
1305020-014A	05/01/13 8:35 AM	05/01/13	05/02/13 7:49 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

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.

QA/QC Officer

DHS ELAP Certification 1644

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Kurt Johnson, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

May 22, 2013

Robert Robitaille AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597

Dear Mr. Robitaille:

Included are the results from the testing of material submitted on May 7, 2013 from the 298931 FSI, PO WC084104, 1630 Park St., Alameda, CA, F&BI 305109 project. The product sample submitted for forensic evaluation arrived in good condition. Upon arrival, the sample DPE-5 Prod was placed in a refrigerator maintained at 4°C until removed for sample processing.

The sample DPE-5 Prod was diluted, passed through a silica gel column, and analyzed using a gas chromatograph with a flame ionization detector (GC/FID). The data generated yielded information on the boiling range and general chemical composition of the material present. The GC/FID traces are enclosed. A GC/FID trace of a standard consisting of normal alkanes is also provided for reference purposes. In addition, a simulated distillation was performed on the sample DPE-5 Prod. The results of this testing are also enclosed.

Please contact us if additional consultation is needed by our firm in the interpretation of the analytical results provided. We appreciate this opportunity to be of service to you and hope you will call if you should have any questions. We will hold your samples for 30 days before disposal unless directed otherwise.

Sincerely,

FRIEDMAN & BRUYA, INC.

Minhle Postal Poquiz

Michele Costales Poquiz Chemist

Enclosures c: rrobitaille@aeiconsultants.com NAA0522R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/13 Date Received: 05/07/13 Project: 298931 FSI, PO WC084104, 1630 Park St., Alameda, CA, F&BI 305109 Date Extracted: 05/13/13 Date Analyzed: 05/13/13

RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE FOR FORENSIC EVALUATION BY CAPILLARY GAS CHROMATOGRAPHY USING A FLAME IONIZATION DETECTOR (FID) Sample Extract Passed Through a Silica Gel Column Prior to Analysis

Sample ID

<u>GC Characterization</u>

DPE-5 Prod The GC trace using the flame ionization detector (FID) showed the presence of low and high boiling compounds. The patterns displayed by these peaks are indicative of a mixture of a low boiling material such as degraded gasoline or similar materials and a high boiling material such as lube oil or similar materials.

The low boiling compounds appear as an irregular pattern of peaks on top of a small hump or unresolved complex mixture (UCM). This material elutes from n-C7 to n-C13 showing a maximum near n-C10. This correlates with a temperature range of approximately 100°C to 240°C with a maximum near 100°C. Within this range, the GC/FID trace showed a low level or absence of peaks which are indicative of toluene, ethylbenzene, and the xylenes. The low level or absence of these constituents indicates that if gasoline is present, it has undergone extensive degradation.

The high boiling compounds appear as an irregular pattern of peaks on top of a broad hump or UCM. This material elutes from n-C₁₃ to n-C₃₂ showing a maximum near n-C₂₅. This correlates with a temperature range of approximately 240°C to 470°C with a maximum near 400°C.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis.

FRIEDMAN & BRUYA, INC.

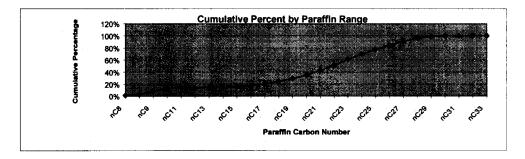
ENVIRONMENTAL CHEMISTS

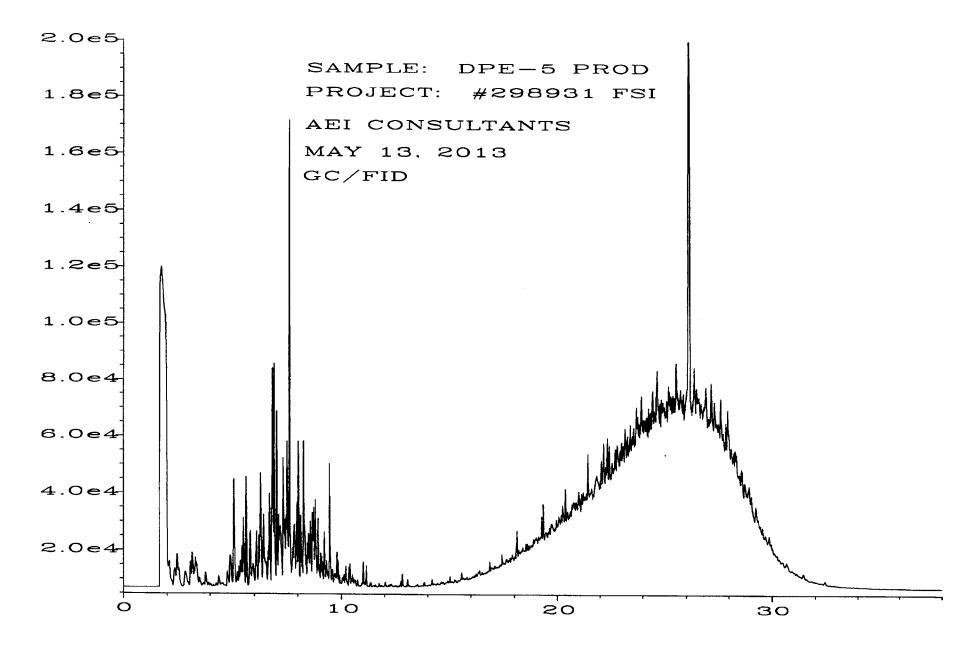
Date of Report: 05/22/13 Date Received: 05/07/13 Project: 298931 FSI, PO WC084104, 1630 Park St., Alameda, CA, F&BI 305109 Date Extracted: 05/13/13 Data Analyzed: 05/13/13

RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE FOR PETROLEUM HYDROCARBONS USING GC/FID (Modified 8015-Simulated Distillation) Sample Extract Passed Through a Silica Gel Column Prior to Analysis

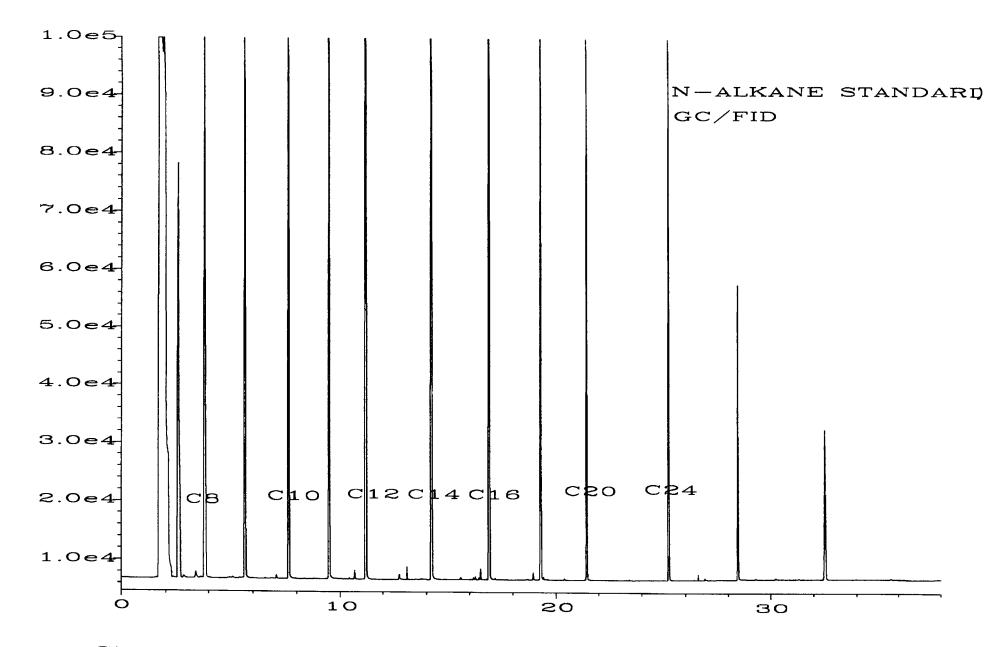
Laboratory ID: 305109-01 sg Client ID: DPE-5 Prod

Paraffin	Percent	Cumulative	
Range	of Total	Percent	Concentration Within Standard Fuel Carbon
<nc8< td=""><td>1%</td><td>1%</td><td>12% Ranges</td></nc8<>	1%	1%	12% Ranges
nC8 - <nc9< td=""><td>1%</td><td>3%</td><td></td></nc9<>	1%	3%	
nC9 • <nc10< td=""><td>6%</td><td>8%</td><td>A second s</td></nc10<>	6%	8%	A second s
nC10 - <nc11< td=""><td>5%</td><td>13%</td><td>10%</td></nc11<>	5%	13%	10%
nC11 - <nc12< td=""><td>1%</td><td>14%</td><td></td></nc12<>	1%	14%	
nC12 - <nc13< td=""><td><1%</td><td>14%</td><td></td></nc13<>	<1%	14%	
nC13 · <nc14< td=""><td><1%</td><td>14%</td><td></td></nc14<>	<1%	14%	
nC14 · <nc15< td=""><td><1%</td><td>15%</td><td></td></nc15<>	<1%	15%	
nC15 - <nc16< td=""><td>1%</td><td>16%</td><td></td></nc16<>	1%	16%	
nC16 - <nc17< td=""><td>2%</td><td>17%</td><td></td></nc17<>	2%	17%	
nC17 - <nc18< td=""><td>3%</td><td>20%</td><td>5 6% </td></nc18<>	3%	20%	5 6%
nC18 · <nc19< td=""><td>4%</td><td>24%</td><td>s and the second se</td></nc19<>	4%	24%	s and the second se
nC19 - <nc20< td=""><td>5%</td><td>29%</td><td></td></nc20<>	5%	29%	
nC20 - <nc21< td=""><td>6%</td><td>35%</td><td>ά² 4%</td></nc21<>	6%	35%	ά ² 4%
nC21 - <nc22< td=""><td>8%</td><td>43%</td><td></td></nc22<>	8%	43%	
nC22 - <nc23< td=""><td>8%</td><td>51%</td><td></td></nc23<>	8%	51%	
nC23 - <nc24< td=""><td>10%</td><td>61%</td><td>2%</td></nc24<>	10%	61%	2%
nC24 - <nc25< td=""><td>9%</td><td>70%</td><td></td></nc25<>	9%	70%	
nC25 - <nc26< td=""><td>7%</td><td>77%</td><td></td></nc26<>	7%	77%	
nC26 - <nc27< td=""><td>7%</td><td>84%</td><td></td></nc27<>	7%	84%	
nC27 - <nc28< td=""><td>7%</td><td>91%</td><td></td></nc28<>	7%	91%	
nC28 - <nc29< td=""><td>5%</td><td>96%</td><td> <- AnC8 <- AnC8 <- AnC8 <- AnC9 <- Anc9</td></nc29<>	5%	96%	 <- AnC8 <- AnC8 <- AnC8 <- AnC9 <- Anc9
nC29 - <nc30< td=""><td>2%</td><td>99%</td><td>Paraffin Range</td></nc30<>	2%	99%	Paraffin Range
nC30 - <nc31< td=""><td>1%</td><td>100%</td><td></td></nc31<>	1%	100%	
nC31 · <nc32< td=""><td><1%</td><td>100%</td><td></td></nc32<>	<1%	100%	
nC32 - <nc33< td=""><td><1%</td><td>100%</td><td></td></nc33<>	<1%	100%	
nC33 • <nc34< td=""><td><1%</td><td>100%</td><td></td></nc34<>	<1%	100%	

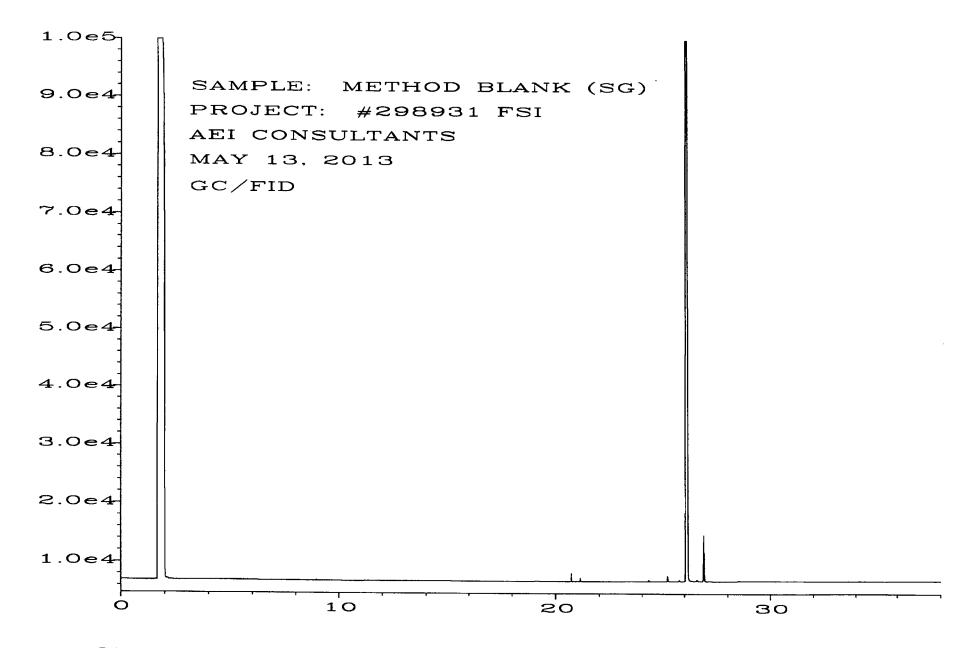




Sig. 1 in C:\HPCHEM\1\DATA\05-13-13\006F0401.D



Sig. 1 in C:\HPCHEM\1\DATA\05-13-13\003F0201.D



Sig. 1 in C:\HPCHEM\1\DATA\05-13-13\005F0401.D

MP 05-07-13 305109 SAMPLE CHAIN OF CUSTODY SAMPLERS (signature) Page # _____1___ of ____ Send Report To: Robert Robitaille TURNAROUND TIME PROJECT NAME/NO PO# Standard Turnaround Company: AEI Consultants . Stal #298931 FSI WC084104 Rush charges authorized by: Address: 2500 Camino Diablo PROJECT ADDRESS SAMPLE DISPOSAL City, State, ZIP: Walnut Creek, CA 94597 Dispose after 80 days 1630 Park St., Alameda, CA Return samples Phone # (925) 748-6000 Fax # (925) 746-6099 Will call with instructions ELECTRONIC DATA REQUESTED YES Samples Received at ____ •C Email Address: rrobitaille@aeiconsultants.com ÷ . ANALYSES REQUESTED 8270 BTEX by 8021B 8260 TPH-Gasoline TPH-Diese SVOCe by (VOCs by { # of HFS Sample ID Lab ID Date Sample Type Time Notes containers DRE-57rd 5/6/2013 01 Product 1600 0530 GasiOil Mixture fisilicated per Robert R mo 5/2413 amples received at 23 Friedman & Bruya, Inc. SIGNATURE PRINT NAME COMPANY DATE TIME 3012 16th Avenue West Relinquished by: Top Robits. Hr. AFT 516/13 10:30 Seattle, WA 98119-2029 Received the Mhar

thi

Relinguished by:

Received by:

Ph. (206) 285-8282

Fax (206) 283-5044 FORMS\COC\COC.DOC

he national solution ᠿ

FEBI

an

SA 113

°C

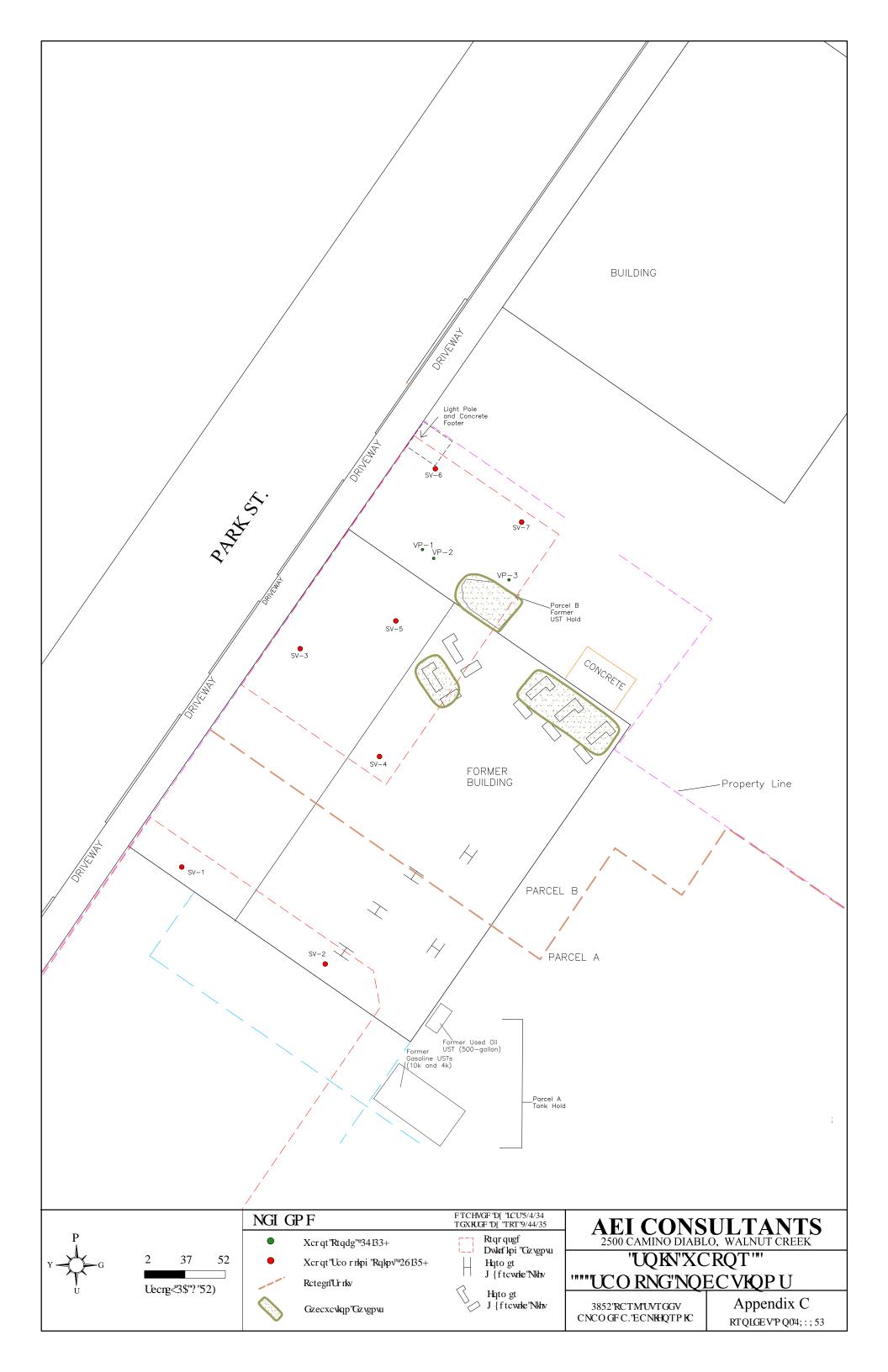
10:00

D02/

APPENDIX C

APRIL 16, 2013 SOIL VAPOR SURVEY RESULTS







McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

AEI Consultants	Client Project ID: #298931; Foley Street	Date Sampled: 04/16/13
2500 Camino Diablo, Ste.#200		Date Received: 04/17/13
2000 Califilio Diaolo, 50.11200	Client Contact: Jeremy Smith	Date Reported: 04/25/13
Walnut Creek, CA 94597	Client P.O.: WC084069	Date Completed: 04/25/13

WorkOrder: 1304552

July 19, 2013

Dear Jeremy:

Enclosed within are:

- 1) The results of the **9** analyzed samples from your project: **#298931; Foley Street,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

			13045	52			3 -	1				
1534 WILLOW Website: WWW.H	W PASS	ROAD / I	IALYTICAL INC PITTSBURG, CA 9456 Email: main@mccamp 2 / Fax: (925) 252-9269	5-1701 bell.com	CHAIN OF CUSTODY RECORD TURN AROUND TIME I I I I I I I I I I I I I I I I I I							
Report To: Seremy 5	mith		Bill To: AEI	2			Lab Us	Only			- 54	
Company: AET Con	and the second second second	and the second se	WC08	4069	No. of the second se			10.遗标		ressurizati	on Gas	
		Dallo			Pressurize	d By		Date			and the second	
Walnut Cre				Pariconsultarb						N2	He	
Tele: (925) 746-60	the second se		Fax: (975)	reacionsultarb	and the second sec	and the start	14 C					
Project #: 298931			Project Name:	Sta Strat	Helium Shroud SN#:							
Project Location: 1630	P. I	0			Other: R + W	0840	69					
Sampler Signature:	1		eet, Manco	y UT	Notes:							
	for			1	McCanbell	~1	*					
Field Comple ID	Colle	ection		Manifold / Sampler	Heltem	Shrow	10	Ded				
Field Sample ID (Location)			Canister SN#	Kit SN#	Analysis Requested	Indoor	Soil	Ca	nister Pr	essure/Vacu	um	
*	Date	Time				Air	Gas	Initial	Final	Receipt	Final (psi)	
SV-1	4-16-13	1230	6301	316F8 -498	TO 17 (TAL BTEN		×	-30	-5	S. Same	(pur)	
54-2		124	6419	3167-776	-TO-17 (TPHg; BTEX; - Naphthalene) -		1	-28.5	-5		186 (A. 1	
SV-3		1033	A7522	316-815				-78	-4			
51-4	1.	1131	1462-585	3167-779	D1946-90 (02, CO2,			-30	-5			
50-5		337	6306-78%		CH4)			-30	-5		1	
SV-6		207	6303	316-816				-27	-5		1.1	
SUF	-	418	6311-791	3/6-819				-27	-5			
Trip Blank	-				TO 17 only	-	1	NA	NA			
SV-5 DUP	+	337	1461	316-825	Tot? only			-30	-5	10		
	Detre	AL AS	Passing Pro							And Filling Street	1.1	
Relinguished By:	Date:	Time			Temp (°C) : V	Vork Order	#:					
Jens p	3/17/13		/		Equipment							
Relinquished By:	Date:	Time:	Received By:	, Aid	Condition:							
2	1/25	1575	-K	No	Shipped Via:							
Relinquished By:	Date:	Time:	Received By:		Shipped via.							

McCampbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

.

Page 1 of 1

(925) 252-9262	2			N	WorkOrder: 1304552			2	ClientCode:			e: AEL					
		WaterTrax	WriteOn	EDF	E	xcel		EQuIS	✓	Email		HardC	ору [ThirdP	arty	UJ-fla	ag
Report to:						Bi	ll to:						Reques	sted TAT	:	5 (days
Jeremy Smith AEI Consultants 2500 Camino Dia Walnut Creek, CA (925) 283-6000	cc: PO:	cc:				Sara Guerin AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 AccountsPayable@AEIConsul						Date Printed: 04			04/17/2 04/18/2		
						Requested Tests (See legend below)											
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1304552-001	SV-1		Soil Gas	4/16/2013 12:30		А	Α	Α	А								
1304552-002	SV-2		Soil Gas	4/16/2013 13:24		А	А		А								-
1304552-003	SV-3		Soil Gas	4/16/2013 10:33		А	А		А								
1304552-004	SV-4		Soil Gas	4/16/2013 11:31		А	А		А								
1304552-005	SV-5		Soil Gas	4/16/2013 15:37		А	Α		А								
1304552-006	SV-6		Soil Gas	4/16/2013 14:07		А	Α	1	А								
1304552-007	SV-7		Soil Gas	4/16/2013 16:18		А	А		А								
1304552-008	Trip Blank		Soil Gas	4/16/2013			А		Α							-	-

Test Legend:

1304552-009

1	TMOSPHERICGAS_SG(UL/I
6	
11	

2	PRHELIUM SHROUD	
7		
12		

Soil Gas

3	PRUNUSEDSUMMA
8	

А

4/16/2013 15:37

TO17_ST(UGM3)

А

4

9

5	
10	

Prepared by: Maria Venegas

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

SV-5 Dup

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 a	and Time Received:	4/17/2013 3	:45:00 PM		
Project Name: #298931; Foley Street				LogIn	Reviewed by:		Maria Venegas			
WorkOrder N°:	1304552	Matrix: Soil Gas			Carrie	r: <u>Rob Pringle (M</u>	AI Courier)			
		<u>Cha</u>	<u>iin of Cu</u>	istody (COC) Informat	tion				
Chain of custody present?				✓	No					
Chain of custody signed when relinquished and received?			Yes	✓	No					
Chain of custody agrees with sample labels?			Yes	✓	No					
Sample IDs note	d by Client on COC?		Yes	✓	No					
Date and Time of	f collection noted by C	lient 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 recei	ived within holding tim	e?	Yes	✓	No					
Container/Temp Blank temperature			Coole	er Temp:			NA 🗹			
Water - VOA vials have zero headspace / no bubbles?			Yes		No	No VOA vials submi	itted 🗹			
Sample labels checked for correct preservation?			Yes	\checkmark	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:

		Inc.	Toll Free Telepho	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@	(925) 252-9269		
AEI Consultants		oject ID: #29	8931; Foley	Date Sampled:	04/16/13		
2500 Camino Diablo, Ste.#200	Street			Date Received: 04/17/13			
2300 Callino Diabio, Ste.#200	Client Co	ontact: Jeremy	Smith	Date Extracted:	04/19/13-0	04/22/13	
Walnut Creek, CA 94597	Client P.	O.: WC084069)	Date Analyzed:)4/22/13		
Extraction Method: ASTM D 1946-90	U	t Gases, Atmo	-		Work Order:	1304552	
Lab ID	1304552-001A	1304552-002A	A 1304552-003A	1304552-004A			
Client ID	SV-1	SV-2	SV-3	SV-4	_		
Matrix	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Reporting Limit for DF =1 and Pressure Ratio		
Initial Pressure (psia)	13.04	12.50	12.83	12.98	(Final/In		
Final Pressure (psia)	25.98	24.91	25.56	25.88			
DF	1	1	1	1	Soil Gas	W	
Compound		Cor	ncentration		μL/L	ug/L	
Carbon Dioxide	3400	4600	160	4200	20	NA	
Methane	ND	1.8	ND	ND	2.0	NA	
Oxygen	170,000	170,000	170,000	170,000	500	NA	
	Surro	ogate Recoveri	ies (%)				
%SS:	N/A	N/A	N/A	N/A			
Comments							
 * vapor samples are reported in μL/L. %SS = Percent Recovery of Surrogate Standa DF = Dilution Factor 	ırd						

McCampbell A "When Qual		Inc.		Toll Free Telepho	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: bbell.com / E-mail: main@	(925) 252-9269			
AEI Consultants		oject ID:	#2989	31; Foley	Date Sampled:	04/16/13			
2500 Camino Diablo, Ste.#200	Street				Date Received: 04/17/13				
2500 Camino Diabio, Ste.#200	Client Co	ontact: Jer	emy S	mith	Date Extracted: 04/19/13-04/22/				
Walnut Creek, CA 94597	Client P.	O.: WC08	4069		Date Analyzed:	04/19/13-0	04/22/13		
Extraction Method: ASTM D 1946-90	•	It Gases, A	-			Work Order:	1304552		
Lab ID	1304552-005A	1304552-	006A	1304552-007A					
Client ID	SV-5	SV-6	5	SV-7		-			
Matrix	Soil Gas	Soil G	as	Soil Gas		Reporting	=1		
Initial Pressure (psia)	12.89	14.30	5	11.86		(Final/Initial) = 2			
Final Pressure (psia)	25.68	28.63	3	23.62		-			
DF	1	1		1		Soil Gas	W		
Compound			Conce	entration		μL/L	ug/L		
Carbon Dioxide	10,000	260		10,000		20	NA		
Methane	3.5	1.2		ND		2.0	NA		
Oxygen	160,000	180,00	00	160,000		500	NA		
	Surro	gate Reco	overies	(%)					
%SS:	N/A	N/A		N/A					
Comments									
^k vapor samples are reported in µL/L.					<u>.</u>				
%SS = Percent Recovery of Surrogate Standa DF = Dilution Factor	rd								

-¥	McCampbell A ''When Quali		<u>al, Inc.</u>	Toll F	34 Willow Pass Road, Pittsburg, CA 94565-170 ree Telephone: (877) 252-9262 / Fax: (925) 252-9 ww.mccampbell.com / E-mail: main@mccampbe	9269					
AEI Con	isultants			#298931; Fole	ey Date Sampled: 04/16/	13					
2500 Ca	mino Diablo, Ste.#200	Street			Date Received: 04/17/	13					
2500 Ca	nino Diabio, Stc.#200	Client	Contact: Jere	emy Smith	Date Extracted: 04/18/	Date Extracted: 04/18/13-04/23/13					
Walnut C	Creek, CA 94597	Client	P.O.: WC084	069	Date Analyzed: 04/18/	13-04/23	3/13				
Extraction m	nethod: ASTM D 1946-90			Helium* ical methods: AS'	TM D 1946-90	Work	Order: 11	304552			
Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	Helium	DF	% SS	Comments			
001A	SV-1	Soil Gas	13.04	25.98	0.017	1	N/A				
002A	SV-2	Soil Gas	12.50	24.91	0.018	1	N/A				
003A	SV-3	Soil Gas	12.83	25.56	ND	1	N/A				
004A	SV-4	Soil Gas	12.98	25.88	ND	1	N/A				
005A	SV-5	Soil Gas	12.89	25.68	1.8	1	N/A				
006A	SV-6	Soil Gas	14.36	28.63	0.081	1	N/A				
007A	SV-7	Soil Gas	11.86	23.62	0.013	1	N/A				
008A	Trip Blank	Soil Gas	14.99	29.88	ND	1	N/A				
009A	SV-5 Dup	Soil Gas	12.89	25.68	ND	1	N/A				
	Reporting Limit for DF =1; ID means not detected at or	W	psia	psia	NA			NA			
	above the reporting limit	SoilGas	psia	psia	0.005			%			

McCampbell / ''When Qua	Analytical lity Counts''	<u>, Inc.</u>	Toll Free Telephor	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@	(925) 252-9269		
AEI Consultants		oject ID: #29	8931; Foley	Date Sampled:	04/16/13		
2500 Camino Diablo, Ste.#200	Street			Date Received:	04/17/13		
2500 Camino Diabio, 50.#200	Client Co	ontact: Jeremy	y Smith	Date Extracted:	04/24/13-04/2	25/13	
Walnut Creek, CA 94597	Client P.	O.: WC08406	9	Date Analyzed:	04/24/13-04/2	25/13	
Extraction Method: TO17		e Organic Co alytical Method: TO	mpounds in μg/m³	*	Work Order: 1304	552	
Lab ID	1304552-001A	1304552-002	A 1304552-003A	1304552-004A			
Client ID	SV-1	SV-2	SV-3	SV-4	Reporting		
Matrix	Soil Gas	Soil Gas	Soil Gas	Soil Gas	DF	=1	
DF	1	1	1	1			
Volume (L)	1.00	1.00	1.00	1.00	Soil Gas	W	
Compound		Co	ncentration	·	$\mu g/m^3$	ug/L	
TPH-Gas (C6-C12)	ND	ND	ND	ND	2500	NA	
Benzene	ND	ND	ND	ND	25	NA	
cis-1,2-Dichloroethene	ND, c10	ND, c10	ND, c10	ND, c10	25	NA	
trans-1,2-Dichloroethene	ND, c10	ND, c10	ND, c10	ND, c10	25	NA	
Ethylbenzene	ND	ND	ND	ND	25	NA	
Naphthalene	ND	ND	ND	ND	25	NA	
Tetrachloroethene	ND	ND	ND	ND	25	NA	
Toluene	ND	ND	ND	ND	25	NA	
Trichloroethene	ND	ND	ND	ND	25	NA	
Xylenes, Total	ND	ND	ND	ND	25	NA	
		Surrogate Re	coveries (%)				
%SS2	106	106	106	107			
%SS3	92	93	93	92			
Comments							

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

c10) estimated value

CDPH ELAP 1644 ♦ NELAP 12283CA



McCampbell A		<u>, INC.</u>		ne: (877) 252-9262 / Fax: bbell.com / E-mail: main@		
AEI Consultants		oject ID: #2989	31; Foley	Date Sampled:	04/16/13	
2500 Camino Diablo, Ste.#200	Street			Date Received:	04/17/13	
2500 Cullino Diacio, Sci., 200	Client Co	ontact: Jeremy S	mith	Date Extracted:	04/24/13-04/2	25/13
Walnut Creek, CA 94597	Client P.	O.: WC084069		Date Analyzed:	04/24/13-04/2	25/13
Extraction Method: TO17		e Organic Comp alytical Method: TO17	oounds in µg/m³	*	Work Order: 1304	552
Lab ID	1304552-006A	1304552-007A	1304552-008A			
Client ID	SV-6	SV-7	Trip Blank		Reporting	
Matrix	Soil Gas	Soil Gas	Soil Gas		DF	=1
DF	1	1	1			
Volume (L)	1.00	1.00	1.00		Soil Gas	W
Compound		Conce	entration		$\mu g/m^3$	ug/L
TPH-Gas (C6-C12)	ND	ND	ND		2500	NA
Benzene	ND	ND	ND		25	NA
cis-1,2-Dichloroethene	ND, c10	ND, c10	ND, c10		25	NA
trans-1,2-Dichloroethene	ND, c10	ND, c10	ND, c10		25	NA
Ethylbenzene	ND	ND	ND		25	NA
Naphthalene	ND	ND	ND		25	NA
Tetrachloroethene	ND	ND	ND		25	NA
Toluene	ND	ND	ND		25	NA
Trichloroethene	ND	ND	ND		25	NA
W 1 m 1	ND	ND	ND		25	NA
Xylenes, Total		a))	(0/)			
Xylenes, Total		Surrogate Recov	veries (%)			
%SS2	107	106	82			
		-				

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

c10) estimated value





QC Matrix: SoilGas BatchID: 76535 WorkOrder: 1304552 W.O. Sample Matrix: SoilGas EPA Method: ASTM D 1946-90 Extraction: ASTM D 1946-90 Spiked Sample ID: N/A Sample Spiked MS MSD MS-MSD LCS Acceptance Criteria (%) Analyte µL/L µL/L % Rec. % Rec. % RPD % Rec. MS / MSD RPD LCS Carbon Dioxide N/A 100 N/A N/A N/A 105 N/A 70 - 130 N/A Methane N/A 100 N/A N/A N/A 112 N/A N/A 70 - 130 Oxygen N/A 7000 N/A N/A N/A 82.4 N/A N/A 70 - 130 All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 76535 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1304552-001A	04/16/13 12:30 PM	04/19/13	04/19/13 2:07 PM	1304552-001A	04/16/13 12:30 PM	04/22/13	04/22/13 11:06 AM
1304552-001A	04/16/13 12:30 PM	04/22/13	04/22/13 2:03 PM	1304552-002A	04/16/13 1:24 PM	04/19/13	04/19/13 2:28 PM
1304552-002A	04/16/13 1:24 PM	04/22/13	04/22/13 11:18 AM	1304552-002A	04/16/13 1:24 PM	04/22/13	04/22/13 2:27 PM
1304552-003A	04/16/13 10:33 AM	04/19/13	04/19/13 2:50 PM	1304552-003A	04/16/13 10:33 AM	04/22/13	04/22/13 11:55 AM
1304552-004A	04/16/13 11:31 AM	04/19/13	04/19/13 3:11 PM	1304552-004A	04/16/13 11:31 AM	04/22/13	04/22/13 12:20 PM
1304552-004A	04/16/13 11:31 AM	04/22/13	04/22/13 2:52 PM	1304552-005A	04/16/13 3:37 PM	04/19/13	04/19/13 4:04 PM
1304552-005A	04/16/13 3:37 PM	04/22/13	04/22/13 12:44 PM	1304552-005A	04/16/13 3:37 PM	04/22/13	04/22/13 3:22 PM
1304552-006A	04/16/13 2:07 PM	04/19/13	04/19/13 4:26 PM	1304552-006A	04/16/13 2:07 PM	04/22/13	04/22/13 1:09 PM
1304552-007A	04/16/13 4:18 PM	04/19/13	04/19/13 4:47 PM	1304552-007A	04/16/13 4:18 PM	04/22/13	04/22/13 1:33 PM
1304552-007A	04/16/13 4:18 PM	04/22/13	04/22/13 3:47 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

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.

QA/QC Officer



W.O. Sample Matrix: Soilgas	(QC Matrix:	Soilgas			BatchID	BatchID: 76517			rder: 1304552	
EPA Method: ASTM D 1946-90	Extraction: AST	TM D 1946	-90				Ş	Spiked Sam	ple ID:	N/A	
Analyte		Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
		%	%	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Helium		N/A	0.010	N/A	N/A	N/A	105	N/A	N/A	60 - 140	
All target compounds in the Method Blank NONE	of this extraction bate	h were ND l	ess than th	e method	RL with tl	ne following	g exception	IS:			

BATCH 76517 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1304552-008A	04/16/1	3 04/18/13	04/18/13 4:39 PM	1304552-009A	04/16/13 3:37 PM	I 04/18/13	04/18/13 4:52 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

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.

QA/QC Officer



McCampbell Analytical, Inc. "When Quality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

AEI Consultants	Client Project ID: #298931; FSI	Date Sampled:	05/01/13
2500 Camino Diablo, Ste.#200		Date Received:	05/01/13
2000 Cullino Diaoto, 50.11200	Client Contact: Jeremy Smith	Date Reported:	05/08/13
Walnut Creek, CA 94597	Client P.O.: #WC084092	Date Completed:	05/08/13

WorkOrder: 1305019

July 19, 2013

Dear Jeremy:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#298931; FSI,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

McC Telephone: (925	1534 Pittsb	Willow I urg, CA	ALYTICAL INC Pass Road 94565-1701 ampbell.com Fax: (92	25) 252-9269	CHA TURN AROUND T EDF Required? D No	IME		CODY F		2D 72 HR 5	DAY
Report To: Jeremy Smit	Statistical and a local statistical statement		Bill To: PO# W	the second s	1	1. 35.44	Lab Use	Only		1.100	
Company: AEI Consulta	nts					NO EXT		1. 34.6	P	ressurizat	ion Gas
2500 Camino Diablo, Wa	alnut Cree	k, Califo	rnia 94597		Pressurized	By		Date			-
E-Mail: jasmith@aeicon	sultants.co	m								N2	He
Tele: (925) 746-6000, ext	t. 128		Fax: (925) 746-	6099							1000
Project #: 298931	14 ¹		Project Name: I	7SI		1111		and the second			
Project Location: 1630 P	ark St. Ala	ameda, C	California		and the second			Para la			
Sampler Signature:	low	_	h		Notes: Helium is leak o	check usin	g McCar	npbell Pro	ovided He	lium Shrou	ud
Field Sample ID	Colle	ection	Canister SN#	Samplay Vit SN#		-				01	
(Location)		-	Callister Sin#	Sampler Kit SN#	Analysis Requested	Indoor	Soil			essure/Vacu	-
	Date	Time		port.		Air	Gas	Initial	Final	Receipt	Final (psi)
SV-5	5-1-13	913	6167	3167-776	TO-17 - TPH(g), BTEX, naphthalene D1946-90 (O ₂ , CO ₂ , CH ₄)		х	-30	-5	·	(10)
SV-5 DUP	5-1-13	913			TO-17 - TPH(g), BTEX; naphthalene		Х	2	0		
57-5 001	5		6164	3/67-776	D1946-90 (O ₂ , CO ₂ , CH ₄)			(30	-)		
	-		1								
	-										
Relinquished By:	Date: 5-1-13	Time:	Received By	ia 26	Temp (°C) : V	Work Order	#:				
Relinquished By:	Date:	Time:	Received By:		Condition: Custody Seals Intact?: Yes	s No		lone			

McCampbell Analytical, Inc.

SV-5 Dup

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Report to: Jeremy Smi AEI Consult		cc:	jasmith@aeicon #WC084092	sultants.com		Bil	AEI C	Guerin Consulta Camino	ants	Sto #	1200		quested TAT		5 c 05/01/2	days 2013
	k, CA 94597		#00084092 #298931; FSI				Waln	ut Cree	k, CA 9	4597	sultants	Dat	te Printed:		05/01/2	
					Γ				Rec	uested	Tests (S	ee legend	below)			
														-		

5/1/2013 9:13

Α

А

А

Test Legend:

1305019-002

1	TMOSPHERICGAS_SG(UL/I
6	
11	

2	PRHELIUM SHROUD
7	
12	

Soil Gas

3 TO17_ST(UGM3) 8

4	
9	

5	
10	

The following SampIDs: 001A, 002A contain testgroup.

Prepared by: Maria Venegas

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 a	nd Time Received:	5/1/2013 2:1	8:54 PM
Project Name:	#298931; FSI				LogIn F	Reviewed by:		Maria Venegas
WorkOrder N°:	1305019	Matrix: Soil Gas			Carrier	: <u>Client Drop-In</u>		
		<u>Cha</u>	in of Ըւ	<u>istody (C</u>	OC) Informat	ion		
Chain of custody	present?		Yes	✓	No			
Chain of custody	signed when relinquis	shed and received?	Yes	✓	No			
Chain of custody	agrees with sample la	abels?	Yes	✓	No			
Sample IDs note	d by Client on COC?		Yes	✓	No			
Date and Time o	f collection noted by C	lient on COC?	Yes	✓	No			
Sampler's name	noted on COC?		Yes	✓	No			
			Sample	Receipt	Information			
Custody seals in	tact on shipping conta	iner/cooler?	Yes		No		NA 🗹	
Shipping contain	er/cooler in good cond	lition?	Yes	✓	No			
Samples in prope	er containers/bottles?		Yes	✓	No			
Sample containe	ers intact?		Yes	✓	No			
Sufficient sample	e volume for indicated	test?	Yes	✓	No			
		Sample Pres	ervatio	n and Ho	old Time (HT)	Information		
All samples rece	ived within holding tim	e?	Yes	✓	No			
Container/Temp	Blank temperature		Coole	er Temp:	7.2°C		NA	
Water - VOA vial	ls have zero headspac	e / no bubbles?	Yes		No	No VOA vials subm	itted 🖌	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No			
Metal - pH accep	otable upon receipt (p⊦	l<2)?	Yes		No		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No			
		(Ісе Тур	e: WE	TICE))			
* NOTE: If the "N	lo" box is checked, se	e comments below.						

Comments: Sorbent Tube on ICE

_ __ __ __

		<u>, Inc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com						
AEI Consultants	Client Pr	roject ID:	#29893	31; FSI	Date Sampled:	05/01/13			
2500 Camino Diablo, Ste.#200					Date Received:	05/01/13			
2500 Camilio Diaolo, 50.#200	Client C	ontact: Jere	emy Sn	nith	Date Extracted:	05/02/13			
Walnut Creek, CA 94597	Client P.	O.: #WC08	05/02/13						
Extraction Method: ASTM D 1946-90		nt Gases, A	-			Work Order:	1305019		
Lab ID	1305019-001A	1305019-0	002A						
Client ID	SV-5	SV-5 D	up			Banastina	Limit for		
Matrix	Soil Gas	Soil Ga	is			DF and Press	=1		
Initial Pressure (psia)	13.31	13.43				(Final/In	itial) = 2		
Final Pressure (psia)	26.52	26.76							
DF	1	1				Soil Gas	W		
Compound			Conce	ntration		μL/L	ug/L		
Carbon Dioxide	12,000	12,000)			20	NA		
Methane	ND	ND				2.0	NA		
Oxygen	170,000	170,00	0			500	NA		
	Surro	ogate Reco	veries	(%)					
% SS:	N/A	N/A							
Comments									
 * vapor samples are reported in μL/L. %SS = Percent Recovery of Surrogate Standa DF = Dilution Factor 	ard								

	McCampbell Ar "When Quality		al <u>, Inc.</u>	Toll F	534 Willow Pass Road, Pittsburg, CA 94565-17 Free Telephone: (877) 252-9262 / Fax: (925) 252 www.mccampbell.com / E-mail: main@mccamp	2-9269				
AEI C	Consultants	Client	Project ID: #	#298931; FSI	Date Sampled: 05/01	1/13				
2500	Camino Diablo, Ste.#200				Date Received: 05/02	1/13				
2500	Callino Diablo, Stc.#200	Client	Contact: Jere	my Smith	Date Extracted: 05/02	2/13	3			
Walnu	ıt Creek, CA 94597	Client	P.O.: #WC08	4092	Date Analyzed: 05/02	2/13				
		•		Helium*		XX7 1	0.1 1	202010		
Lab ID	On method: ASTM D 1946-90 Client ID	Matrix	Initial Pressure		STM D 1946-90 Helium	DF	Order: 1 % SS	Comments		
001A	SV-5	Soil Gas	13.31	26.52	0.0076	1	N/A			
002A	SV-5 Dup	Soil Gas	13.43	26.76	ND	1	N/A			
	Reporting Limit for DF =1; ND means not detected at or	W	psia	psia	NA			NA		
	above the reporting limit	SoilGas	psia	psia	0.005			%		
	samples are reported in %.									
	Percent Recovery of Surrogate Standard									
DF = Di	lution Factor									

	Analytical lity Counts''	<u>, Inc.</u>	Toll	Free Telephor	ass Road, Pittsburg, CA ne: (877) 252-9262 / Fax obell.com / E-mail: main	: (925) 252-9269		
AEI Consultants	Client Pr	roject ID:	#298931; FS	Ι	Date Sampled:	05/01/13		
2500 Camino Diablo, Ste.#200					Date Received:	: 05/01/13		
2300 Camino Diaolo, 510.#200	Client C	ontact: Jer	emy Smith		Date Extracted: 05/03/13-05/06/13			
Walnut Creek, CA 94597	Client P.	.O.: #WC0	84092		Date Analyzed:	05/03/13-0	05/06/13	
Extraction Method: TO17		Prganic Co alytical Method	mpounds in	µg/m ^{3*}		Work Order:	1305019	
Lab ID	1305019-001A	1305019-	002A					
Client ID	SV-5	SV-5 D	up			Reporting		
Matrix	Soil Gas	Soil G	as			DF	=1	
DF	1	1						
Sample Volume (L)	1.00	1.00				Soil Gas	W	
Compound		Concentration					ug/L	
TPH-Gas (C6-C12)	ND	ND				2500	NA	
Benzene	ND	ND				25	NA	
cis-1,2-Dichloroethene	ND, c10	ND, c1	.0			25	NA	
trans-1,2-Dichloroethene	ND, c10	ND, c1	.0			25	NA	
Ethylbenzene	ND	ND				25	NA	
Naphthalene	ND	ND				25	NA	
Tetrachloroethene	100	100				25	NA	
Toluene	ND	ND				25	NA	
Trichloroethene	ND	ND				25	NA	
Xylenes, Total	ND	ND				25	NA	
	Surr	ogate Reco	overies (%)					
%SS3:	107	106						
Comments								
*Samples reported in µg/m3; reporting limit	may change due to v	ariable volum	e of air.			•		
ND means not detected above the reporting Surrogate Standard; DF = Dilution Factor	limit/method detection	on limit; N/A i	neans analyte no	ot applicable	to this analysis; %SS	s = Percent Rec	covery of	
# surrogate diluted out of range or coelutes v	with another peak; &) low surrogat	e due to matrix i	nterference.				
c10) estimated value								



QC Matrix: SoilGas BatchID: 76915 WorkOrder: 1305019 W.O. Sample Matrix: SoilGas EPA Method: ASTM D 1946-90 Extraction: ASTM D 1946-90 Spiked Sample ID: N/A Sample Spiked MS MSD MS-MSD LCS Acceptance Criteria (%) Analyte µL/L µL/L % Rec. % Rec. % RPD % Rec. MS / MSD RPD LCS Carbon Dioxide N/A 100 N/A N/A N/A 104 N/A N/A 70 - 130 Methane N/A 100 N/A N/A N/A 107 N/A N/A 70 - 130 Oxygen N/A 7000 N/A N/A N/A 83.1 N/A N/A 70 - 130 All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 76915 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1305019-001A	05/01/13 9:13 AM	05/02/13	05/02/13 1:56 PM	1305019-001A	05/01/13 9:13 AM	05/02/13	05/02/13 2:38 PM
1305019-001A	05/01/13 9:13 AM	05/02/13	05/02/13 5:27 PM	1305019-002A	05/01/13 9:13 AM	05/02/13	05/02/13 2:21 PM
1305019-002A	05/01/13 9:13 AM	05/02/13	05/02/13 3:03 PM	1305019-002A	05/01/13 9:13 AM	05/02/13	05/02/13 5:49 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

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.

DHS ELAP Certification 1644

QA/QC Officer



W.O. Sample Matrix: Soilgas	QC	C Matrix:	Soilgas			BatchID	: 76916	WorkOrder: 1305019		
EPA Method: ASTM D 1946-90	Extraction: ASTM	I D 1946-	·90				5	Spiked Sam	ple ID:	N/A
Analyte	S	ample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
· · · · · · · · · · · · · · · · · · ·		%	%	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Helium		N/A	0.010	N/A	N/A	N/A	97.8	N/A	N/A	60 - 140
All target compounds in the Method Blank NONE	of this extraction batch v	were ND l	ess than th	e method]	RL with th	ne following	g exception	IS:		

BATCH 76916 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1305019-001A	05/01/13 9:13 AN	1 05/02/13	05/02/13 10:43 AM	1305019-002A	05/01/13 9:13 AN	1 05/02/13	05/02/13 10:56 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

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.

DHS ELAP Certification 1644

QA/QC Officer



BatchID: 77120

QC SUMMARY REPORT FOR TO17

W.O. Sample Matrix: Sorbent Tube

QC Matrix: Sorbent Tube

WorkOrder: 1305019

EPA Method: T017 Extraction: T017 Spiked Sample ID: N/A									
Analyte	Sample	e Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
, and yes	µg/m³	µg/m³	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Benzene	N/A	100	N/A	N/A	N/A	118	N/A	N/A	60 - 140
Ethylbenzene	N/A	100	N/A	N/A	N/A	82.5	N/A	N/A	60 - 140
Naphthalene	N/A	100	N/A	N/A	N/A	88.4	N/A	N/A	60 - 140
Toluene	N/A	100	N/A	N/A	N/A	83.5	N/A	N/A	60 - 140
%SS2:	N/A	100	N/A	N/A	N/A	103	N/A	N/A	60 - 140
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE									

BATCH 77120 SUMMARY Lab ID Date Sampled Date Extracted Date Analyzed Lab ID Date Sampled Date Extracted Date Analyzed 1305019-001A 05/01/13 9:13 AM 05/06/13 05/06/13 3:05 PM 1305019-002A 05/01/13 9:13 AM 05/03/13 05/03/13 6:00 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

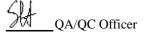
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

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.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.





W.O. Sample Matrix: Soilgas		QC Matrix:	Soilgas			BatchID: 76574				WorkOrder: 1304552	
EPA Method: ASTM D 1946-90	Extraction: A	STM D 1946	-90			Spiked Sample ID: N/A				N/A	
Analyte		Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
· · · · · · · · · · ·		%	%	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Helium		N/A	0.010	N/A	N/A	N/A	105	N/A	N/A	60 - 140	

BATCH 76574 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1304552-001A	04/16/13 12:30 PM	04/23/13	04/23/13 12:32 PM	1304552-002A	04/16/13 1:24 PM	04/23/13	04/23/13 12:45 PM
1304552-003A	04/16/13 10:33 AM	04/23/13	04/23/13 12:58 PM	1304552-004A	04/16/13 11:31 AM	04/23/13	04/23/13 1:11 PM
1304552-005A	04/16/13 3:37 PM	04/23/13	04/23/13 1:37 PM	1304552-006A	04/16/13 2:07 PM	04/23/13	04/23/13 1:24 PM
1304552-007A	04/16/13 4:18 PM	04/23/13	04/23/13 1:50 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

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.

QA/QC Officer



BatchID: 76697

QC SUMMARY REPORT FOR TO17

W.O. Sample Matrix: Sorbent Tube

QC Matrix: Sorbent Tube

WorkOrder: 1304552

EPA Method: TO17 Extraction: TO17 Spiked Sample ID: N/A							N/A		
Analyte	Sample	Sample Spiked MS MSE			MS-MSD	LCS	Acceptance Criteria (%)		
, inclusio	µg/m³	µg/m³	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Benzene	N/A	100	N/A	N/A	N/A	90.2	N/A	N/A	60 - 140
Ethylbenzene	N/A	100	N/A	N/A	N/A	116	N/A	N/A	60 - 140
Naphthalene	N/A	100	N/A	N/A	N/A	111	N/A	N/A	60 - 140
Toluene	N/A	100	N/A	N/A	N/A	111	N/A	N/A	60 - 140
Xylenes, Total	N/A	300	N/A	N/A	N/A	118	N/A	N/A	60 - 140
%SS2:	N/A	100	N/A	N/A	N/A	105	N/A	N/A	60 - 140
%SS3:	N/A	100	N/A	N/A	N/A	100	N/A	N/A	60 - 140

BATCH 76697 SUMMARY									
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed		
1304552-001A	04/16/13 12:30 PM	04/24/13	04/24/13 8:24 PM	1304552-002A	04/16/13 1:24 PM	04/24/13	04/24/13 9:19 PM		
1304552-003A	04/16/13 10:33 AM	04/25/13	04/25/13 12:59 AM	1304552-004A	04/16/13 11:31 AM	04/24/13	04/24/13 10:14 PM		
1304552-006A	04/16/13 2:07 PM	04/25/13	04/25/13 12:04 AM	1304552-007A	04/16/13 4:18 PM	04/24/13	04/24/13 11:09 PM		
1304552-008A	04/16/13	04/25/13	04/25/13 9:29 AM						

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

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.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.