March 30, 2012

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Alameda County Environmental Health

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#000008

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 at (510) 523-1925 or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely, 10 /st

John Buestad President

JB/pm

Attachment

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



March 30, 2012

SUBSURFACE INVESTIGATION & WELL INSTALLATION REPORT

Property Identification: 1630 Park Street Alameda, California

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

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

Prepared by: AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 (925) 746-6000 San Francisco HQ

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2500 Camino Diablo, Walnut Creek, CA 94597

Environmental & Engineering Services

Tel: 925.746.6000 Fax: 925.746.6099

March 30, 2012

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

Subject: Subsurface Investigation & Well Installation Report 1630 Park Street Alameda, California AEI Project No. 298931 ACEHD Fuel Leak Case No. RO0000008

Dear Ms. Detterman:

AEI Consultants (AEI) has prepared this *Additional Subsurface Investigation and Well Installation Report* on behalf of Foley Street Investments, developer of the subject site (See Figure 1 and Figure 2). The subject of this report is the leaking underground storage tank (LUST) case located at the property 1630 Park Street, known as the Good Chevrolet site. The Alameda County Environmental Health Department (ACEHD) is the agency with regulatory oversight of the LUST case. This report has been prepared to document the recent (November 2011 through March 2012) activities that have been performed at the site.

The completed activities which are discussed in this report include:

- Permitting and installing dual phase extraction (DPE) wells DPE-1 through DPE-6 and DPE-8 through DPE-11;
- Permitting and installation air sparge (AS) well AS-1;
- Permitting and advancing borings DPE-7 and AEI-20 to AEI-28;
- Permitting and installing vapor monitoring probes VP-1 to VP-3;
- Performing a conduit study for the site;
- Developing, surveying, and sampling the newly installed remediation wells;
- Performing groundwater monitoring and sampling activities; and
- Update of the ongoing high vacuum dual phase extraction (HVDPE) activities.

1.0 Property Overview

1.1 **Property Description**

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

The site is currently improved with a two-story showroom and office building totaling approximately 11,264 square feet and parking lot which was until approximately 2008 occupied by Good Chevrolet. Good Chevrolet also occupied the 1600 to 1618 property to the south, which is also vacant. Refer to Figure 2 for the property layout and major site features.

1.2 Planned Development Project

Foley Street Investments plans to demolish the existing buildings and construct two commercial buildings. The northern building is planned for the area of the existing Good Chevrolet building along Park Street. The remainder of the development site will be improved with paved parking areas and landscaping. Construction of the new building is scheduled to begin in June 2012.

2.0 Site History

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

2.1 Prior Environmental Work

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

- In 1987, Groundwater Technologies installed three groundwater monitoring wells (MW-1 to MW-3) and drilled two soil borings (SB-4 and SB-5) to investigate soil and groundwater conditions around the former UST hold.
- In October 1993, Geoplexus collected and analyzed soil and groundwater samples from seven soil borings (EB1 to SB7) drilled around the UST hold along with up-gradient and downgradient of the release. It should be noted that documents indicate that two other borings (HP-1 and HP-2) were drilled up-gradient of the release area in April 1993, however details are not available. Geoplexus installed monitoring wells MW-4 and MW-5 in April 1994 in Park Street to investigate the down-gradient extent of the hydrocarbon plume.

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- In January 1997, Geoplexus drilled an additional eight soil borings (EB8 to EB12 and P1 to P3) onsite around and down-gradient of the former UST hold. Soil samples were analyzed from EB8 to EB12 and groundwater samples were analyzed for all eight borings.
- In November 1998, Geoplexus collected three soil gas samples from three borings (AGP-1 to AGP-3) in the release are and within the adjacent building. Geoplexus presented an argument for "low risk" closure however case closure was not granted.
- 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 pollution. It should be noted that AEI was not able to locate a formal report of these activities, only tables of soil and groundwater data 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 HVDPE event at the site. A review of multiple remedial options for the site was discussed in these documents and a HVDPE event was considered the most feasible option for the site given the site conditions.
- In November 2011, wells DPE-1 to DPE-3 and AS well AS-1 were installed. In early December, three vacuum monitoring points VP-1 to VP-3 were installed and pilot testing began. Results of the HVDPE event were preliminarily provided in the *Investigation and Remedial Action Workplan* dated January 12, 2012 (AEI 2012e). The work plan also proposed the advancement of additional borings and the installation of extraction 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. In addition, DPE-7 was advanced as a boring instead of being completed as a well. The data was used to help define the extent of impacted soil and groundwater and identify target areas for ongoing remedial action. Details of these investigation activities are documented in this report.
- A *Corrective Action Plan* (CAP) dated February 3, 2012 (AEI 2012f) was submitted to the ACEHD. 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.
- Groundwater monitoring and sampling was conducted approximately quarterly from 1992 through 1995, then sporadically through 2003, once in 2008, twice in 2011 and once in 2012. Information from groundwater monitoring and sampling events in December 6, 2011 and January 24, 2012 is included in this report.

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Site features are presented on Figure 3, and results of the historical activities are included in Tables 1 through 9.

3.0 Geology and Hydrogeology

The site is located on Alameda Island. The near surface sediments of the area are mapped as Holocene and Pleistocene Merritt Sands (Qms) deposits (Helley, et al 1997). Depth to bedrock is estimated at 300 to 800 feet below ground surface [(bgs) Norfleet Consultants 1998]. According to information obtained from the U.S Geological Survey (USGS), the site is located at between 20 and 25 feet above mean sea level (amsl) with the local topography sloping gently to the northeast. The nearest surface water is a tidal canal connected to the San Francisco Bay located approximately 1,800 feet to the northeast of the site.

Based on previous investigations at the site, groundwater is first observed in the temporary direct push borings at depths of approximately 9 to 11 feet bgs and stabilizes at between approximately 7.5 to 8.5 feet bgs. The depth to water in the groundwater monitoring wells has generally ranged from approximately 7.5 to 9.5 feet bgs. Based on the groundwater monitoring conducted at the site, groundwater flows fairly consistently in a northwesterly direction at an approximate hydraulic gradient of 1×10^{-2} to 2×10^{-2} ft/ft and exists as an unconfined aquifer.

During the December 6, 2011 and January 24, 2012 sampling events which includes data from several of the new DPE wells, but not wells MW-4 and MW-5, groundwater was measured at a depth ranging from 7.92 feet bgs to 9.29 feet bgs in December and 7.97 feet bgs and 9.11 feet bgs in January. Based on this data, the groundwater flow direction was towards the west/northwest in December and northwest in January both with a hydraulic gradient of approximately 0.01 ft/ft, which is relatively consistent with historical data. Refer to Figures 4 and 5 and Table 8 for groundwater elevation maps and data for the December 2011 and January 2012 monitoring events.

Based on the previous and recent drilling logs, sediments across the site are fairly consistent; consisting primarily of poorly graded fine to medium sand with varying clay and silt content. The November 2011 and January 2012 drilling activities confirmed these results. Grain size distribution analyses for two aquifer material samples identified the sediments and silty sand. Refer to the boring logs in Appendix A for specific details regarding the soil encountered during these recent investigations.

4.0 Remediation Well Installation

As discussed in AEI's ICAP dated September 28, 2011, HVDPE was chosen for pilot testing and as an appropriate interim remedial measure. To implement these activities, a 30 day pilot test was to be performed which would utilize three DPE wells and one AS well.

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4.1 Installation of Remediation Wells: November 2011

On November 14, 2011 and November 15, 2011, AEI mobilized to the site in order to complete the well installation activities for AS-1 and DPE-1 through DPE-3. The borings were installed in the locations proposed in the ICAP and shown on Figure 3. Prior to initiating drilling activities, a drilling permit was obtained for the wells (permit number W2011-0645) from the Alameda County Public Works Agency (ACPWA). A copy of the well permit is included in Appendix B. Following permit approval, drilling activities were scheduled and Underground Service Alert (USA) North was notified to locate possible underground utilities in the area. In addition, a private utility locate was performed to identify onsite utilities and clear boring locations.

The boreholes were initially drilled with a combo drilling rig, capable of running 10-inch diameter hollow stem augers operated by Resonant Sonic International (RSI Drilling) (CA C57 License # 802334). Soil samples were continuously collected with 1" diameter acrylic liners using a dual walled, direct push Geoprobe technique. Soil samples were examined and logged using the USCS and screened in the field using a PID. At a minimum, every 5 feet, AEI personnel cut a soil sample from the liner, sealed it with Teflon tape and plastic caps, and placed it in a cooler filled with water ice. The samples were transported under appropriate chain-of-custody documentation for potential analysis to McCampbell Analytical Inc., (McCampbell) DOHS Certification Number 1644] of Pittsburg, California. Field observations and screening data is presented on the borings logs in Appendix A.

Following soil sampling activities, the boreholes were overdrilled by advancing 10-inch diameter hollow stem augers to a depth of 14 feet bgs (DPE-3), 15 feet bgs (DPE-1 and DPE-2), and 8-inch diameter augers to a depth of 25 feet bgs (AS-1) in order to install the DPE and AS wells. The remediation wells were constructed by placing a 4" diameter (DPE wells) or 2" diameter (AS-1) schedule 40 PVC casing with 7 feet to 8 feet of factory slotted 0.010-inch well screen (DPE wells) or 5 feet of factory slotted 0.020-inch well screen (AS-1) through the augers. An annular sand pack, consisting of clean either #2/12 Monterey Sand (DPE wells) or #3 Monterey Sand (AS-1) was installed through the augers to approximately ½ foot above the screened interval. A 1 foot bentonite seal was placed above the sand and hydrated with water and the remainder of each boring was sealed with neat cement grout. A flush mounted traffic rated well box was installed over the casing, and an expanding, locking inner cap was placed on the casing top. The drilling and well installation work was performed under the ACPWA permit guidelines. DWR well registration forms have been completed for each of the wells and have been forwarded to the DWR and ACPWA.

4.2 Installation of Soil Vapor Probes: December 2011

On December 6, 2011, AEI installed three (3) permanent soil vapor probes (VP-1 to VP-3) at the subject site as outlined in the November 14, 2011 *ICAP Comment Letter Response and Pilot Test Workplan Details*. The vapor probes were installed primarily to collect vacuum data during the HVDPE event to assist in determining the effective radius of influence (ROI). The borings were advanced with an electric rotary hammer drill equipped with 1.25-inch diameter chromoly steel probe rods and constructed using the open-borehole method. First, a 4-inch diameter

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hole was cored through the asphalt. Next, the probe rods were assembled with solid drive point at the end and driven to a depth of approximately 6 feet bgs. Upon reaching the target depth, the probe rods were removed and the open borehole was checked for collapse. Then a soil gas probe was constructed inside the open borehole. The soil gas probe was constructed out of a 6-inch long stainless steel implant with 0.0057-inch pore diameter threaded onto an expendable 1.5-inch anchor point, a precut section of 0.25-inch outside diameter kynar tubing, and a 0.25inch Swagelok® plug valve. First, a layer of clean #30 mesh Monterey sand was poured into the bottom of the boring to a depth of 5.6 feet bgs. Next, the soil gas probe was lowered into the borehole to the top of the sand layer. Then #30 mesh Monterey sand was poured around the soil gas probe to approximately 4 to 6-inches above the top of the screen, which was at approximately 5.1 feet bqs. Hydrated granular bentonite was then place in 0.5 foot lifts approximately 2 feet above the sand filter pack to a depth of approximately 2.7-feet bqs. The remainder of the borehole was filled with neat cement grout. A 0.25-inch Swagelok® plug valve was installed on the top of each soil gas probe to prevent the infiltration of water and/or ambient air, diffusion and advection of hydrocarbon vapor from the vadose zone, and to facilitate vacuum measurements and/or soil gas sampling. The wellheads were completed flush to grade with 4-inch diameter nylon traffic-rated well boxes. A typical soil gas probe construction detail is shown on Figure 6. The locations of the soil gas probes are shown on Figure 3.

4.3 Installation of Remediation Wells: January 2012

As described in AEI's *Investigation and Remedial Action Work Plan* dated January 12, 2012, based on the early success of initial removal action, AEI was retained to install additional extraction wells. The installation and subsequent HVDPE on the additional wells was performed to remove hydrocarbons from areas outside the original DPE wells ROI.

On January 19, 2012 and January 20, 2012, AEI mobilized to the site in order to complete the well installation activities for DPE-4 through DPE-11. The borings were installed in the approximate locations proposed in AEI's work plan and shown on Figure 3. Prior to initiating drilling activities, a drilling permit was obtained for the wells (permit number W2012-0055) from the ACPWA. A copy of the well permit is included in Appendix B. Following permit approval, drilling activities were scheduled and USA North was notified to locate possible underground utilities in the area. In addition, a private utility locate was performed to identify onsite utilities and clear boring locations.

The boreholes were initially drilled with a combo drilling rig, capable of running 10-inch diameter hollow stem augers operated by Gregg Drilling (CA C57 License #485165). Prior to installing the wells, in DPE-4 through DPE-7, soil samples were continuously collected as described in Section 4.1. Soil samples were not collected from wells DPE-8 through DPE-11 due to their proximity to recently logged soil borings. Field observations and screening data is presented on the borings logs in Appendix A.

Following soil sampling activities, the boreholes were overdrilled by advancing 10-inch diameter hollow stem augers to a depth of 17 feet bgs (DPE-4 and DPE-10) or 18 feet bgs (DPE-5, DPE-6, DPE-8, DPE-9, and DPE-11) in order to install the DPE wells. Boring DPE-7 was not completed as a DPE well due to the fact that at the time of well casing installation into the

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borehole, a void was found. At the time, it was unknown if an utility, vault, or natural cavity had been encountered; therefore, the well casing was removed and the borehole was left open. A subsequent camera investigation by a private utility locator identified that a void was present in the subsurface rather than a broken utility. Therefore, on March 9, 2012, AEI mobilized to the site with Gregg Drilling to fill in the borehole/void with neat cement grout as instructed by the ACPWA.

The remediation wells were installed by placing a 4" diameter, schedule 40 PVC casing with 9' to 10 ' of factory slotted 0.010-inch well screen through the augers. An annular sand pack (consisting of clean #2/12 Monterey Sand) was installed through the augers to approximately 1/2 foot above the screened interval. A 1 foot bentonite seal was placed above the sand and hydrated with water and the remainder of each boring was sealed with neat cement grout. A flush mounted traffic rated well box was installed over the casing, and an expanding, locking inner cap was placed on the casing top. The drilling and well installation work was performed under the ACPWA permit guidelines. DWR well registration forms have been completed for each of the wells and have been forwarded to the DWR and ACPWA.

4.4 Soil Analytical Results

One soil sample was analyzed from wells DPE-1 through DPE-3, and two soils samples were analyzed from wells DPE-5 through DPE-7. The soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) using EPA Method 8015B and benzene, toluene, ethylbenzene, and xylenes (commonly referred to as BTEX) and methyl tert-butyl ether (MTBE) using EPA Method SW8021. In addition, samples from DPE-1 through DPE-3 were additionally analyzed for TPH as motor oil (TPHmo) and TPH as diesel (TPHd) using EPA Method 8015B with silica gel cleanup. The soil samples were reported to contain the following:

- TPHmo was detected in each of the samples from DPE-1 through DPE-3 at a concentration of 46 milligrams per kilogram [(mg/kg) DPE-1], 58 (DPE-3), and 140 mg/kg (DPE-2).
- TPHd was detected in each of the samples from DPE-1 through DPE-3 at a concentration of 280 mg/kg (DPE-2), 330 (DPE-1), and 1,000 mg/kg (DPE-3).
- TPHg was reported in each of the samples, with the exception of DPE-6 at 14 feet bgs, at concentrations ranging from 1.1 mg/kg (DPE-5 at 14 feet bgs) to 2,300 mg/kg (DPE-5 at 11 feet bgs).
- BTEX were present in several of the soil samples with maximum concentrations of benzene detected at 15 mg/kg, toluene detected at 99 mg/kg, ethylbenzene detected at 47 mg/kg, and xylenes at 240 mg/kg.
- MTBE was not detected at or above the laboratory detection limits in any of the soil samples analyzed.

Soil analytical data is displayed on Table 1. A copy of the laboratory analytical reports is included in Appendix C.

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4.5 Waste Disposal

Soil cuttings and other investigation derived waste generated during the well installation activities, were stored on-site in sealed, labeled, Department of Transportation approved, 55-gallon drums. The soil drums were removed on December 16, 2011 by A&S Environmental Services and properly disposed of (Appendix D). Decontamination and purge water was pumped from the drums and treated onsite utilizing the Cal Clean remediation system prior to being discharged to the sewer under permit.

5.0 Soil Boring Investigation (January 2012)

As described in AEI's *Investigation and Remedial Action Work Plan* dated January 12, 2012, prior soil and groundwater investigations have defined the extent of the release to the west, north, east, and southeast of the release area adequately. However, in the southeasterly to southwesterly directions, the extent has not been defined. Therefore, AEI proposed to advance several soil borings in order to further delineate the extent of the hydrocarbons in soil and groundwater. The goal of this work was to quickly and cost effectively identify additional extraction well locations. In addition, one boring (AEI-27) was advanced in the area of the former paint booth as requested by the ACEHD.

Prior to initiating drilling activities, a drilling permit was obtained for the soil borings (permit number W2012-0024) from the ACPWA. A copy of the permit is included in Appendix B. Following permit approval, drilling activities were scheduled and USA North was notified to locate possible underground utilities in the area. In addition, a private utility locate was performed to identify onsite utilities and clear boring locations.

5.1 Soil Sampling

On January 17, 2012, nine soil borings (AEI-20 through AEI-28) were advanced with a limited access, direct-push drilling rig operated by Environmental Control Associates (CA C57 License # 695970). The soil borings were advanced to a depth ranging from approximately 14 feet bgs to 16 feet bgs. Soil samples were continuously collected as described in Section 4.1. Field observations and screening data is presented on the borings logs in Appendix A.

5.2 Groundwater Sampling

Upon encountering saturated sediments and reaching the desired maximum depth (14 to 16 feet bgs), a temporary ³/₄" diameter factory-slotted poly-vinyl chloride (PVC) casing was inserted into each of the borings to facilitate the collection of groundwater samples. New materials were used in each boring to avoid possible cross-contamination. The groundwater samples were collected using a peristaltic pump with dedicated, disposable tubing into 40-ml volatile organic analysis (VOA) vials and 1 Liter ambers. The samples were capped so that there was no head space or visible air bubbles within the vials and labeled with a unique identifier and immediately placed in a cooler with wet ice and delivered to the designated laboratory.

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5.3 Laboratory Analysis

The samples were transported under appropriate chain-of-custody documentation for potential analysis to McCampbell. Select soil and groundwater samples were analyzed for TPHg using EPA method 8015 Modified and BTEX/MTBE using EPA Method 8021B. In addition select soil and groundwater samples from AEI-23 through AEI-28 were additionally sampled for TPHmo and TPHd using EPA Method 8015 with silica gel cleanup. The soil and groundwater sample from AEI-27 was also analyzed for volatile organic compounds (VOCs) by EPA method 8260B, and the soil sample only from AEI-27 was analyzed for CAM 17 metals using EPA method 3050B.

5.4 Soil Analytical Results

Three soil samples were analyzed from each boring with the exception of AEI-27 in which only one soil sample was analyzed. Soil samples were reported to contain the following constituents:

- TPHg was detected in five of the nine borings at concentrations ranging from 3.3 mg/kg in AEI-20-15 to 12,000 mg/kg in AEI-28-11. TPHg was not detected at or above the laboratory detection limit in the soil samples analyzed from AEI-24 through AEI-27.
- TPHd was detected in three of the six borings at concentrations ranging from 2.0 mg/kg in AEI-28-13 to 2,100 mg/kg in AEI-28-11. TPHd was not detected at or above the laboratory detection limit in the soil samples analyzed from AEI-24 through AEI-26.
- TPHmo was detected in three of the six borings at concentrations ranging from 7.9 mg/kg in AEI-27-3 to 270 mg/kg in AEI-23-12.5. TPHmo was not detected at or above the laboratory detection limit in the soil samples analyzed from AEI-24 through AEI-26.
- Benzene was detected in four of the nine borings at concentrations ranging from 0.0071 mg/kg in AEI-20-7.5 to 21 mg/kg in AEI-28-11. Benzene was not detected at or above the laboratory detection limit in the soil samples analyzed from AEI-23 through AEI-27.
- MTBE was not detected at or above the laboratory detection limit in any of the samples analyzed.
- VOCs were not detected at or above the laboratory detection limit in the soil sample analyzed from AEI-27-3.
- Several metals were detected in the soil sample analyzed from AEI-27-3. Each of the metal concentrations was below the respective environmental screening level (ESL) with the exception of arsenic. Arsenic was detected at a concentration of 4.0 mg/kg, above the ESL of 1.6 mg/kg; however, a concentration of 4.0 mg/kg is considered typical of background concentrations for the area.

Soil analytical data is displayed on Table 1, 2, and 5 and a copy of the laboratory analytical reports is included in Appendix C.

5.5 Groundwater Analytical Results

Groundwater from borings AEI-20 to AEI-28 were reported to contain the following constituents:

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- TPHg was reported in five of the nine borings at concentrations ranging from 9,000 micrograms per liter (μ g/L) in AEI-23 to 130,000 μ g/L in AEI-20. TPHg was not detected at or above the laboratory detection limit in borings AEI-24 to AEI-27.
- TPHd was reported in two of the six borings at a concentration of 8,400 μ g/L in AEI-23 to 4,500 μ g/L in AEI-28. TPHd was not detected at or above the laboratory detection limit in borings AEI-24 to AEI-27.
- TPHmo was reported in one of the six borings at a concentration of 1,500 μ g/L in AEI-23. TPHmo was not detected at or above the laboratory detection limit in borings AEI-24 to AEI-28.
- Benzene was reported in four of the nine borings at concentrations ranging from 160 μg/L in AEI-21 and AEI-28 to 1,200 μg/L in AEI-20. Benzene was not detected at or above the laboratory detection limit in borings AEI-23 to AEI-27.
- MTBE was not detected at or above the laboratory detection limit in any of the groundwater samples analyzed.
- VOCs were not detected at or above the laboratory detection limit in the groundwater sample analyzed from AEI-27.

A complete list of detected analytical results is displayed on Tables 3 and 4, with select analytes on Figure 7, and a copy of the complete laboratory analytical report is included in Appendix C.

5.6 Boring Destruction

Upon completion of sampling activities, all sampling equipment was removed from the boreholes. Each boring was backfilled with neat cement grout to the existing grade as required by the ACPWA permit.

5.7 Waste Disposal

Soil cuttings and other investigation derived waste generated during the drilling and well installation activities, were stored on-site in sealed, labeled, Department of Transportation approved, 55-gallon drums. The soil drums were removed on February 24, 2012 by A&S Environmental Services and properly disposed of (Appendix D). Decontamination and purge water was pumped from the drums and treated onsite utilizing the Cal Clean remediation system prior to being discharged to the sewer under permit.

6.0 Well Development and Sampling

Wells DPE-1 to DPE-3 and AS well AS-1 were developed on December 6, 2011 and wells DPE-4 to DPE-6 and DPE-8 to DPE-11 were developed on January 23, 2012. The wells were developed by surging, bailing, and purging the wells to remove accumulated fines from the casing and stabilize the sand pack. The wells were developed in an attempt to purge each well until water had cleared and measurements of pH, conductivity, and temperature had stabilized. Wells DPE-1 to DPE-3 went dry during development after approximately 10 gallons of purging and well AS-1 went dry after approximately 5 gallons of purging. Wells DPE-4 to DPE-6 and

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DPE-8 to DPE-11 went dry after 21 to 31 gallons of purging. Copies of the well development logs are included in Appendix E.

AEI measured the depth to groundwater and performed groundwater sampling activities in wells MW-1 to MW-3 and DPE-1 to DPE-3 on December 6, 2011. The groundwater monitoring event was performed in order to assess groundwater conditions in the onsite monitoring wells and newly installed DPE wells prior to commencing the interim HVDPE remedial action at the site. Additionally, AEI measured the depth to groundwater and performed groundwater sampling activities on wells MW-1 to MW-3, DPE-1 to DPE-4, DPE-6, and DPE-9 on January 24, 2012.

During each sampling event, prior to sampling, the well cap was removed from each well and the well was allowed to equilibrate with the atmosphere. The depth to water from the top of the well casing was then measured with an electric water level indicator. The wells were then purged of three well volumes, provided sufficient water was present, using standard purging techniques. The following parameters were measured during purging: temperature, pH, specific conductivity, dissolved oxygen (DO), and oxygen reduction potential (ORP). A visual estimate of turbidity was noted during the purging of each well. Groundwater samples were then collected using a new, disposable plastic bailer. Field forms of the groundwater sampling event are included in Appendix E.

The groundwater samples were collected into 40 ml VOA vials which were capped so that neither headspace nor air bubbles were visible within the sample containers. Samples were transported on ice under proper chain of custody protocol to McCampbell and were analyzed for TPHg by EPA method 8015 Modified and BTEX/MTBE using EPA Method 8260B. Groundwater samples collected on December 6, 2011 were additionally analyzed for tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), diisopropyl ether (DIPE), and ethyl tertiary butyl ether (ETBE) using EPA Method 8260B.

6.1 Monitoring Well Sample Results

During the December 2011 sampling event (prior to the initial HVDPE event) and January 2012 sampling event (following the initial HVDPE event), groundwater samples from the wells were reported to contain the following constituents:

- In December 2011, well MW-1 was reported to contain TPHg and benzene at a concentration of 900 μ g/L and 160 μ g/L, respectively. In January 2012, TPHg and benzene were reported at a concentration of 190 μ g/L and 25 μ g/L, respectively.
- In December 2011, well MW-2 was reported to contain TPHg and benzene at a concentration of 4,800 µg/L and 1,600 µg/L, respectively. In January 2012, TPHg and benzene were reported at a concentration of 2,500 µg/L and 100 µg/L, respectively.
- In December 2011, well MW-3 was reported to contain TPHg and benzene at a concentration of 1,800 µg/L and 620 µg/L, respectively. In January 2012, TPHg and benzene were reported at a concentration of 3,700 µg/L and 1,200 µg/L, respectively.
- In December 2011, well DPE-1 was reported to contain TPHg and benzene at a concentration of 9,200 µg/L and 1,800 µg/L, respectively. In January 2012, TPHg and benzene were reported at a concentration of 3,200 µg/L and 170 µg/L, respectively.

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- In December 2011, well DPE-2 was reported to contain TPHg and benzene at a concentration of 22,000 μ g/L and 2,100 μ g/L, respectively. In January 2012, TPHg and benzene were reported at a concentration of 1,100 μ g/L and 44 μ g/L, respectively.
- In December 2011, well DPE-3 was reported to contain TPHg and benzene at a concentration of 6,400 µg/L and 550 µg/L, respectively. In January 2012, TPHg and benzene were reported at a concentration of 5,500 µg/L and 290 µg/L, respectively.
- In January 2012, the initial sampling event for the well, DPE-4 was reported to contain TPHg and benzene at a concentration of 730 μ g/L and 66 μ g/L, respectively.
- In January 2012, the initial sampling event for the well, DPE-6 was reported to contain TPHg at a concentration of 64 µg/L. TPHd and benzene were not reported at or above the laboratory detection limit.
- In January 2012, the initial sampling event for the well, DPE-9 was reported to contain TPHg and benzene at a concentration of 4,400 μ g/L and 160 μ g/L, respectively.

A complete list of detected analytical results is displayed on Table 9, with select analytes on Figure 7. A copy of the complete laboratory analytical report is included in Appendix C.

7.0 Site Survey

On February 21, 2012, the well box and well casing elevations were surveyed by Morrow Surveying, West Sacramento, California; a California Registered Land Surveyor (LS No. LS 4650). Data from the survey was uploaded to the state Geotracker database as required by Assembly Bill 592 and Senate Bill 1189. A copy of the well survey is included in Appendix F.

8.0 Conduit Study

A conduit study was conducted for the major underground utilities near the site. A previous study of the underground utilities near the site is provided in a correspondence dated June 6, 2008 from Blymar Engineers, Inc. (Blymar). Information regarding the utilities was obtained from multiple sources. The underground utility lines are shown in Figure 8. The following is a summary of the information obtained for the utilities in the vicinity of the site:

- Storm Water Lines: Information about the storm water lines was provided by the City of Alameda Public Works Department (APWD). The maps provided by the APWD indicate that there are no storm water lines within the vicinity of the site. Storm water runoff flows along Park Street towards the northeast. Shallow culverts allow the storm water to run across the street such as at the intersection of Park Street and Buena Vista Avenue.
- Sanitary Sewer Lines: Information about the sanitary sewer lines was provided by the APWD. The maps provided by the APWD indicate that a 10-inch sanitary sewer line runs along the middle of Park Street and that the line is between 10.3 and 11.3 feet deep.

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- Water Lines: Information about the water lines was provided by the East Bay Municipal Utility District (EBMUD). The maps provided by the EBMUD indicate that a 12-inch steel water line runs along the northwest side of Park Street. A specific depth of the line was not provided on the maps from the EBMUD, however, according to the EBMUD, these lines are typically located at a depth of 3 feet.
- Gas Lines: Information about the gas lines was requested from the Pacific Gas and Electric Company (PG&E). PG&E indicated that they would not provide maps of the gas lines in the vicinity of the site. Information regarding the locations of the gas lines was provided in the correspondence by Blymar. According to the PG&E Electric Gas Service Requirements dated April 2011, the depths of these lines are between approximately 3 and 4 feet.
- Electric Lines: Information about the electric lines was provided by Alameda Municipal Power (AMP). The maps provided by AMP indicate that an underground electric line runs to the southwest and then runs to the southeast along the building to the north of the property building. A specific depth of the line was not provided on the maps from AMP; however, according to AMP, these lines are typically located at a depth of 3 feet.

Based on previous investigations at the site, groundwater is first observed in the temporary direct push borings at depths of approximately 9 to 11 feet bgs and stabilizes at between approximately 7.5 to 8.5 feet bgs. The depth to water in the groundwater monitoring wells has generally ranged from approximately 7.5 to 9.5 feet bgs.

As such, it appears that only the 10-inch sanitary sewer line which runs along the middle of Park Street may intersect groundwater at the site. Wells MW-4 and MW-5 are located between the site release area and the sanitary sewer line. The most recent groundwater monitoring in June 2011 indicated 53 μ g/L TPH-g and 2.7 μ g/L benzene in well MW-4 and 82 μ g/L TPH-g and 5.1 μ g/L benzene in well MW-5. This suggests that significant petroleum mass (i.e. free phase product) has not intersected the sewer line. Although low dissolved phase concentrations may have intersected the line, with minor plume deflection resulting, the low concentrations detected in MW-4 and MW-5 suggests that any such deflection would not be materially significant. Concentrations in these wells are expected to decrease as the result of source removal activities; monitoring of MW-4 and MW-5 would confirm these conclusions.

9.0 DWR Well Search Update

On January 30, 2012, the results of a 2,000-foot radius well search were received from the Department of Water Resources (DWR). The information received includes well logs for wells within the township, range, and sections within the search radius. The results of the well search were reviewed and wells which appeared to be associated with monitoring or remediation at other sites or soil borings were excluded from the review. Wells which were unidentifiable were also excluded from this review. Due to the confidentiality of DWR well logs, additional information regarding the wells including their locations is not provided in this report.

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According to the results of the well search, two (2) wells are located within 2,000 feet of the property. Based on the dissolved-phase and groundwater sampling from the soil borings, it appears that the length of the plume at the site is no more than approximately 200 feet in length. None of the wells noted in this well search are located within the expected plume length for this site. As such, none of the listed wells are expected to be impacted by the hydrocarbons at the site.

It should be noted that a previous well search with information provided by the Alameda County Department of Public Works was provided in the Corrective Action Plan which did not identify any possibly active production wells at a distance of approximately 1000 feet of the site.

10.0 DPE Remediation Update

A HVDPE interim remedial event was conducted on between December 5, 2011 and January 9, 2012. The HVDPE event was performed to remove source hydrocarbons from beneath the site and to evaluate the feasibility of DPE as a remedial alternative at the site. Details of the HVDPE are reported in AEI's CAP dated February 3, 2012. As proposed in AEI's Investigation and Remedial Action Workplan dated January 12, 2012, HVDPE equipment was remobilized on January 24, 2012 and continues as of the date of this report. The extraction efforts commencing in late January have been managed to maximize hydrocarbon removal rates throughout the impacted area, with focused extraction from wells MW-2, DPE-1 to DPE-6, and DPE-8 to DPE-11. Typically, sets of three to five wells have been online for periods of several days to a week or more. As recovery rates have declined on well(s), one or more wells have been cycled off-line and others added to maximum hydrocarbon recovery rates. As of March 30, 2012, approximately 14,177.48 pounds (9,919.55 pounds since January 24, 2012) of hydrocarbons are estimated to have been removed according to CalClean field measurements and calculations since commencement of the initial HVDPE event. HVDPE is planned to continue for at least several more weeks. During extraction activities, AEI regularly reviews data from CalClean to evaluate well performance and optimize removal rates.

11.0 Summary

On November 14, 2011 and November 15, 2011, AEI installed DPE-1 to DPE-3 and AS-1, and on December 6, 2011 three soil vapor probes (VP-1 to VP-3) were installed. The remediation wells and vapor probes were installed to complete interim HVDPE activities. On December 6, 2011, AEI developed the newly installed remediation wells and completed a groundwater sampling event to determine baseline groundwater conditions prior to the HVDPE event.

On January 17, 2012, AEI advanced soil borings AEI-20 to AEI-28 to further delineate the extent of impacted soil and groundwater and to select additional extraction well locations. Based on the results of this investigation, the dissolved phase plume has been defined towards the south (AEI-24 to AEI-26), however less well defined towards the southwest (AEI-21 and AEI-23). Monitoring results from well DPE-4 however showed significantly lower dissolved phase concentrations than borings AEI-21 and AEI-22 and, due to the common occurrence of matrix interference in soil boring "grab" groundwater samples, the data from DPE-4 is more likely representative of dissolved phase conditions. This indicates that the dissolved phase

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plume is limited in extent to the west. This conclusion is consistent with the GP-9 groundwater sample data from 2008.

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

On January 19, 2012 and January 20, 2012, AEI installed seven additional DPE wells (DPE-4 to DPE-6 and DPE-8 to DPE-11). DPE-7 could not be completed due to a void in the subsurface discovered during well installation; therefore this well was not completed. The void was later confirmed not to be a utility or other structure and was filled with neat cement grout on March 9, 2012.

On January 23, 2012 AEI developed each of the newly installed DPE wells and on January 24, 2012 completed a groundwater monitoring event on wells MW-1 to MW-3, DPE-1 to DPE-4, DPE-6, and DPE-9. The sampling event was performed to assess groundwater conditions following the initial HVDPE event and prior to commencing a second HVDPE event. The second HVDPE event commenced operation on January 24, 2012 and is continuing as of the date of this report. HVDPE is planned to continue for at least several more weeks. During extraction activities, AEI regularly reviews data from CalClean and uses it to evaluate which well performance and optimize removal rates.

12.0 References

Alameda County Environmental Health Department (ACEHD), November 4, 2011. Request for Pilot Test Workplan

ACEHD, November 23, 2011. Conditional Approval of Pilot Test Workplan

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 2011.

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

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

GeoPlexus Incorporated, October 28, 1993. Supplemental Site Characterization, Good Chevrolet 1630 Park Street, Alameda, CA

GeoPlexus Incorporated, April 30, 1997. Phase II Remedial Investigation Report, Good Chevrolet 1630 Park Street, Alameda, CA

GeoPlexus Incorporated, December 18, 1998. Preliminary Remedial Risk Assessment for Good Chevrolet 1630 Park Street, Alameda, CA

Groundwater Technology, Inc. April 29, 1987. Report Subsurface investigation Good Chevrolet 1630 Park Street, Alameda, CA

Helley, E.J. and R.W. Graymer, 1997. Quaternary Geology of Alameda County and Surrounding Areas, California: Derived from the Digital Database Open-File 97-97, 1997

Norfleet Consultants, 1998. Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, California. Prepared for the Friends of the San Francisco Estuary, P.O. Box 791, Oakland, California, and dated June 15, 1998.

13.0 Report Limitations and Signatures

This report has been prepared by AEI Consultants relating to the environmental release at the property located at 1630 Park Street, in the City of Alameda, Alameda County, California. Material samples have been collected and analyzed, and where appropriate conclusions drawn and recommendations made based on these analyses and other observations. This report may not reflect subsurface variations that may exist between sampling points. These variations cannot be fully anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This document should not be regarded as a guarantee that no further contamination, beyond that which could have been detected within the scope of past investigations is present beneath the property or that all contamination present at the site will be identified, treated, or removed. Undocumented, unauthorized releases of hazardous material(s) and petroleum products, the remains of which are not readily identifiable by visual inspection and/or are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation and may or may not become apparent at a later time. All specified work has been performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology and performed under the direction of appropriate California registered professionals.

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Please contact the undersigned at (925) 746-6000 if you have any questions or need any additional information.

Sincerely,

AEI Consultants

Jeremy Smith, REA II Senior Project Manager

Bryan Campbell, PG Senior Project Geologist

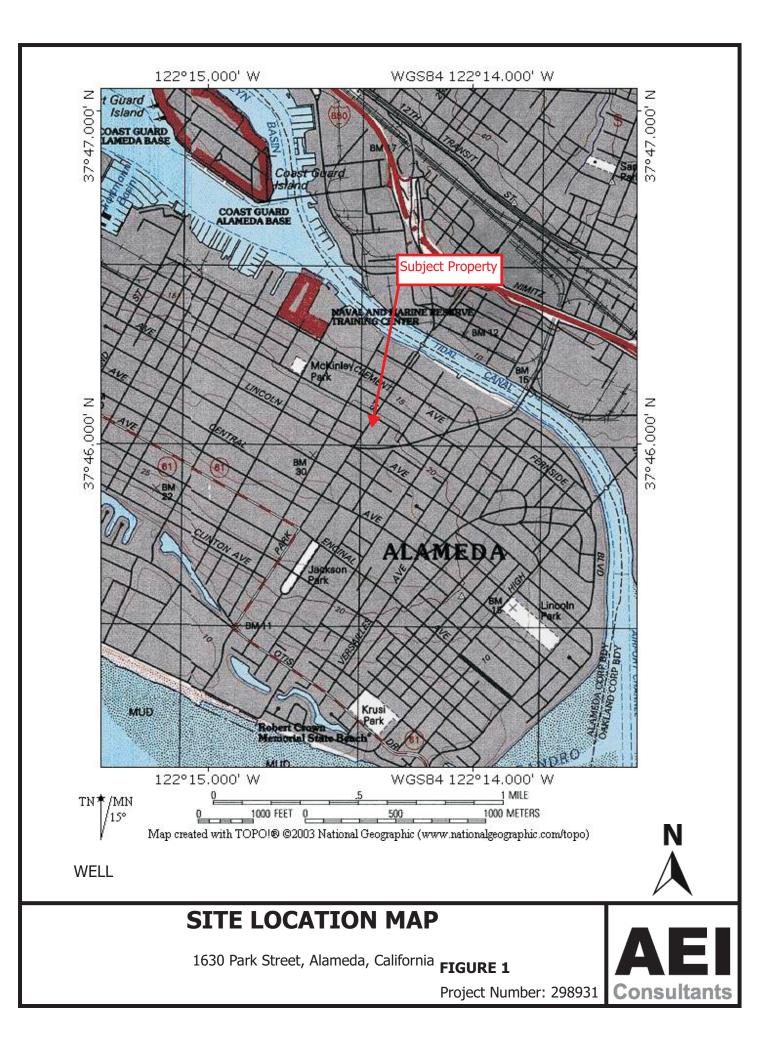
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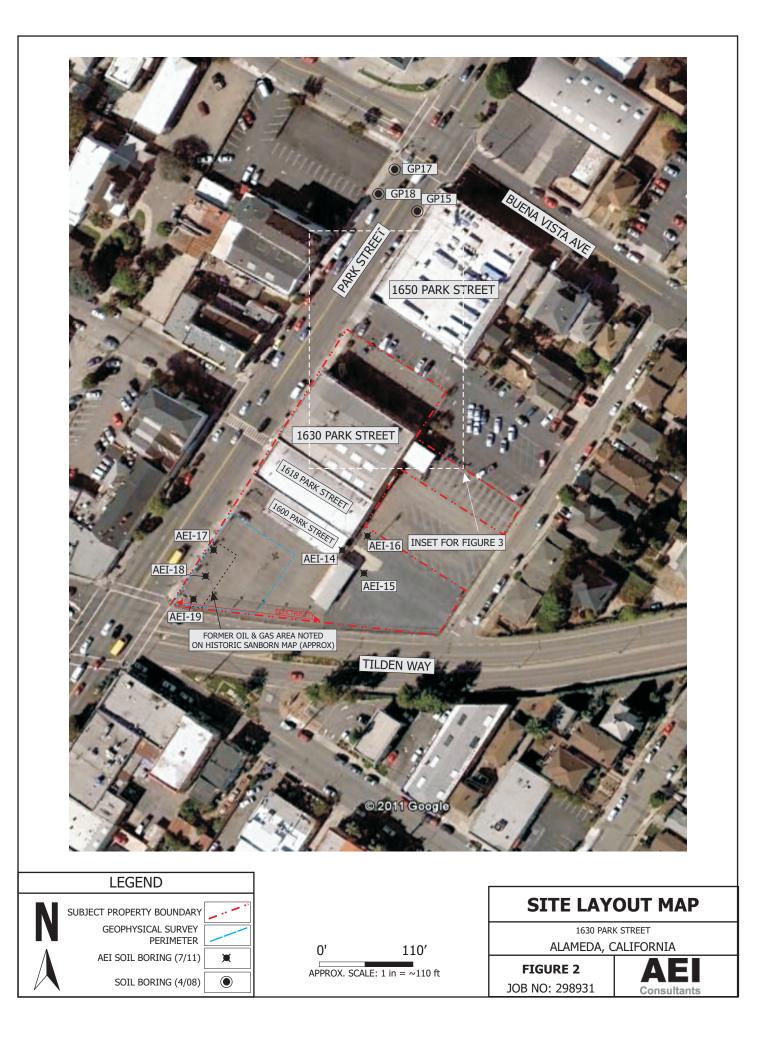
John Buestad, Foley Street Investments Karel Detterman, Alameda County Environmental Health Department (FTP Upload) GeoTracker (Upload)

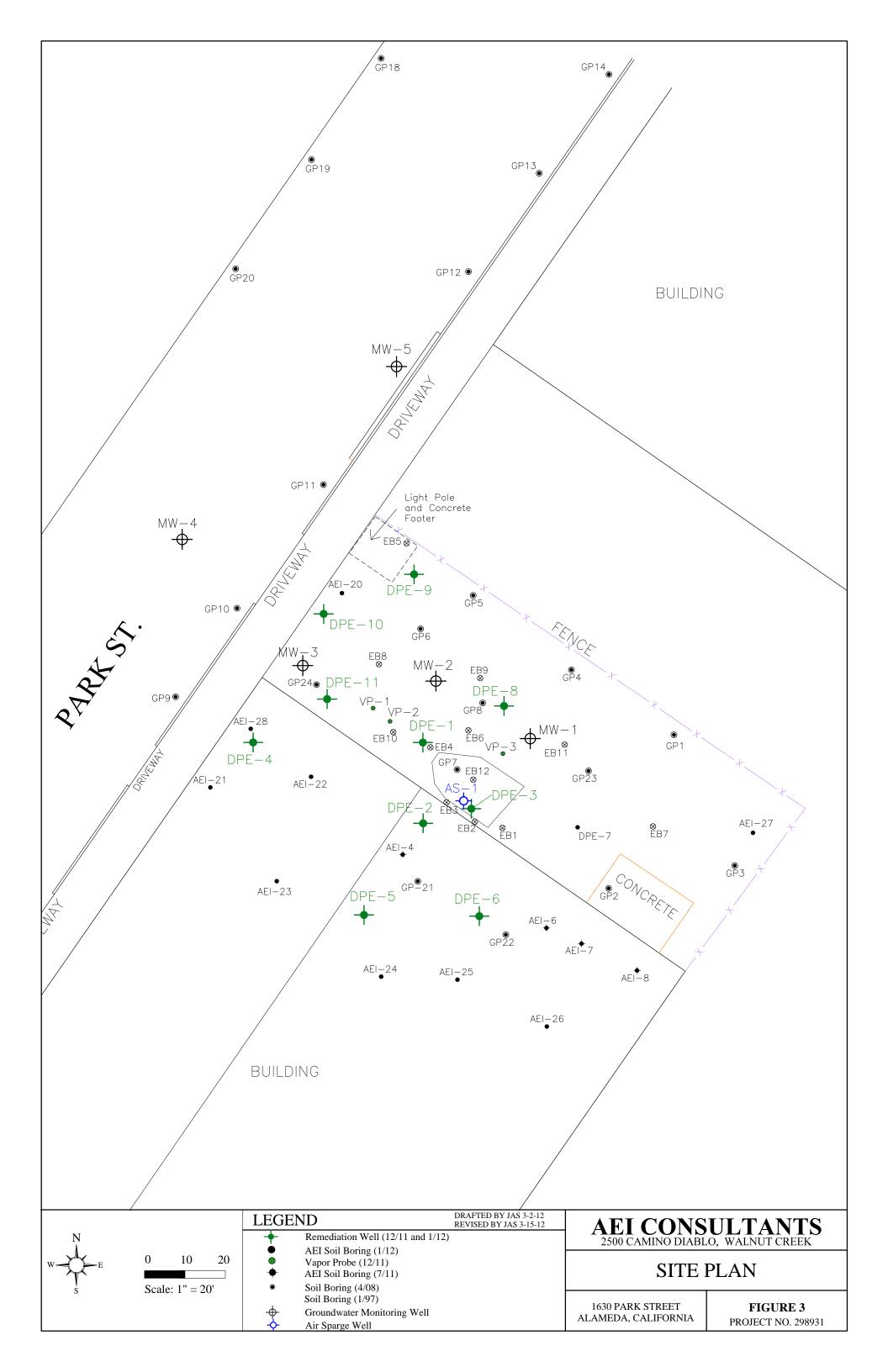
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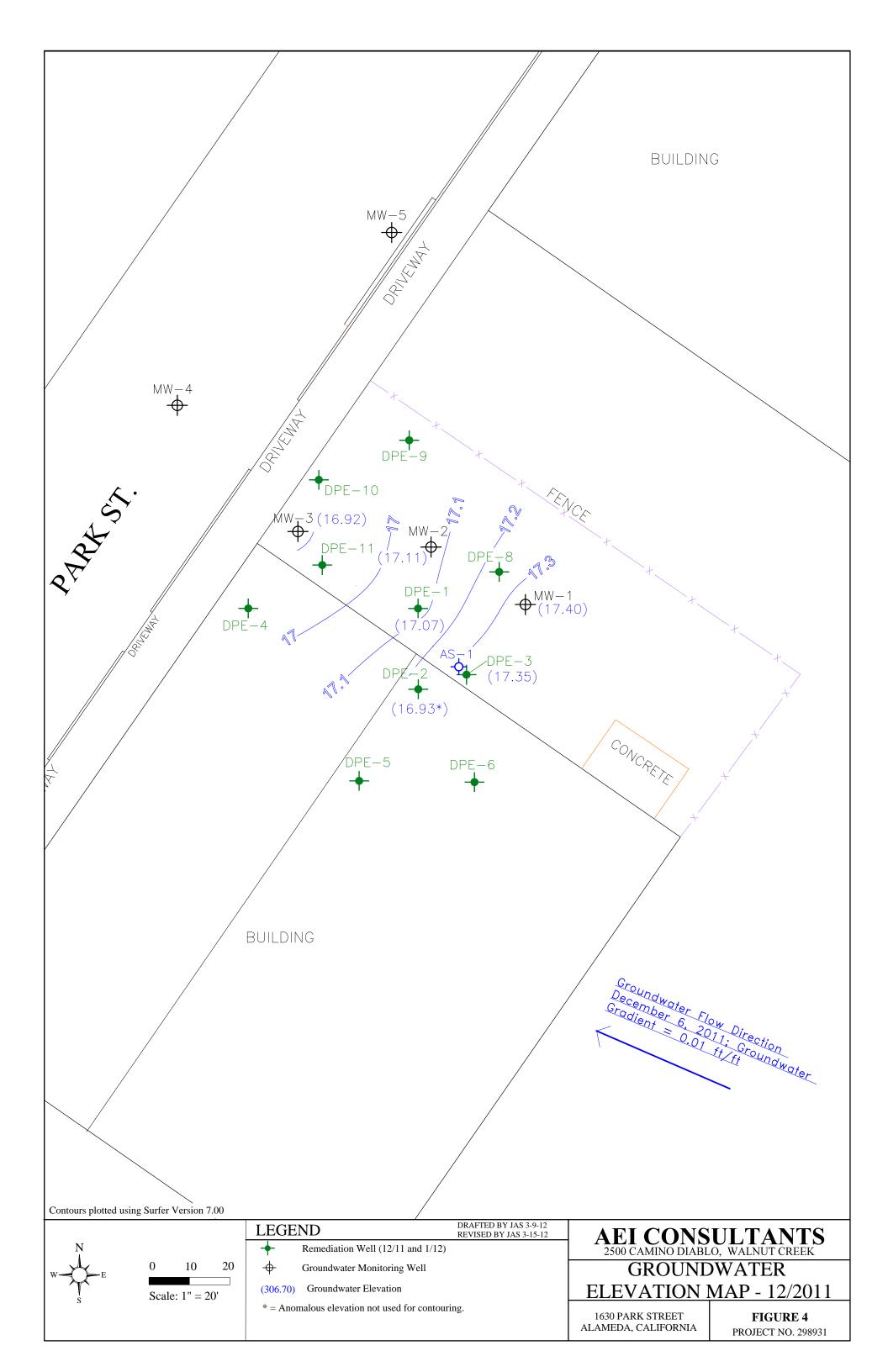
Peter McIntyre, PG, REA Vice President, Principal Geologist

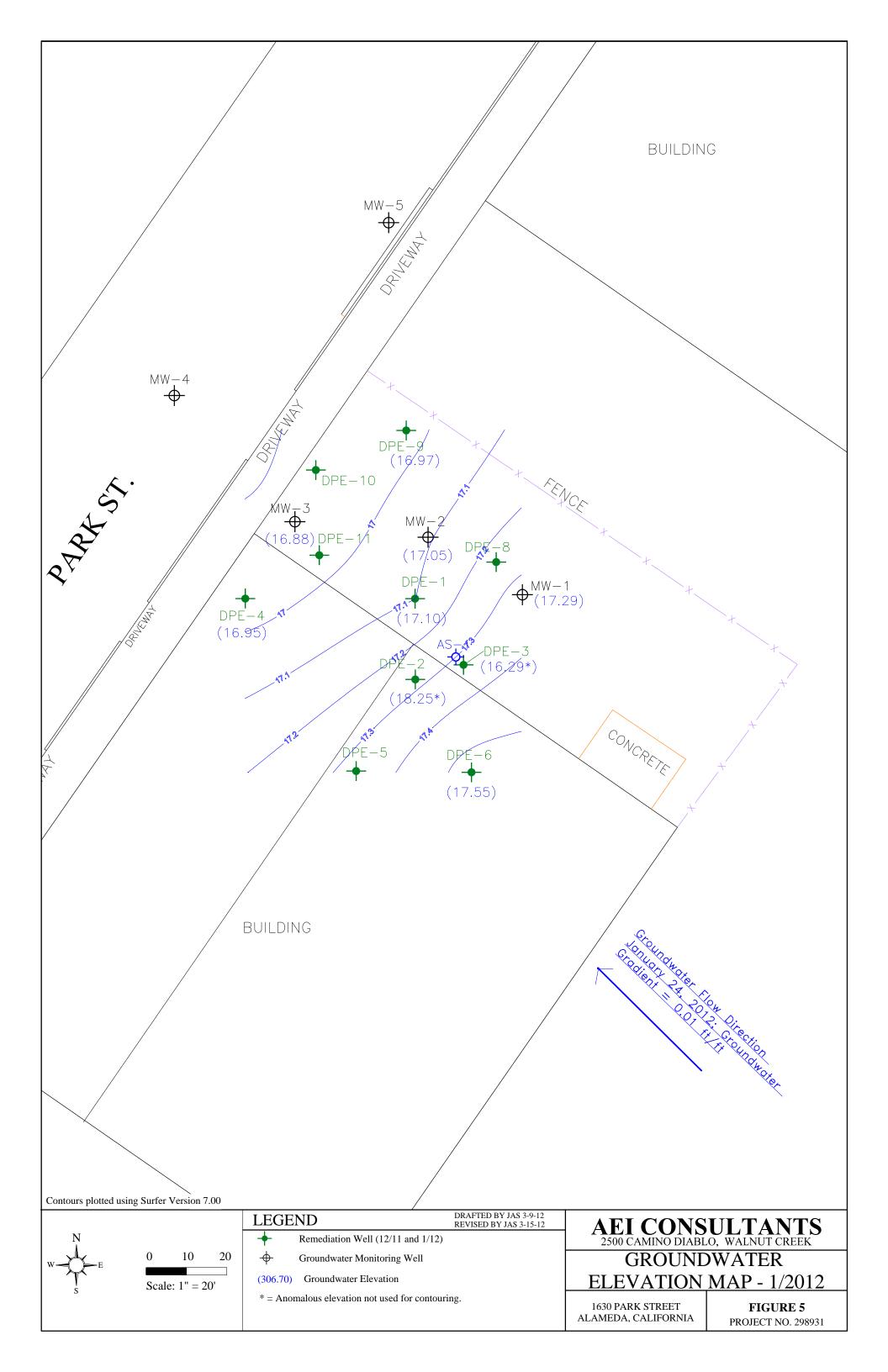
FIGURES

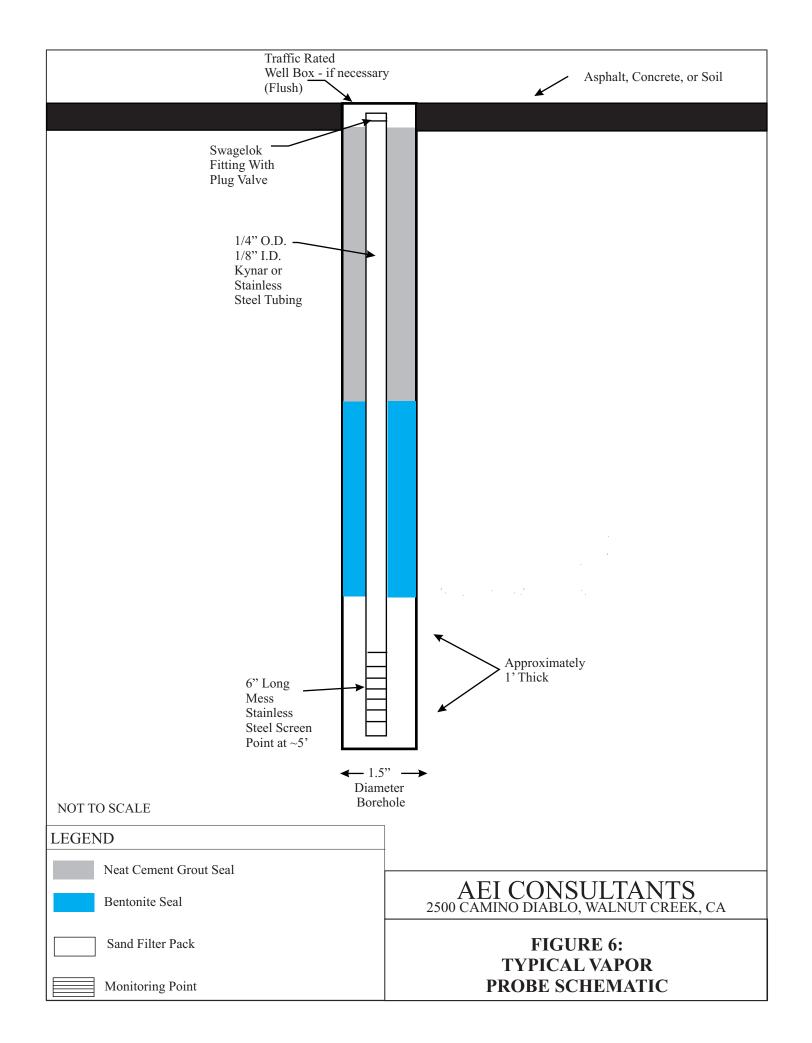


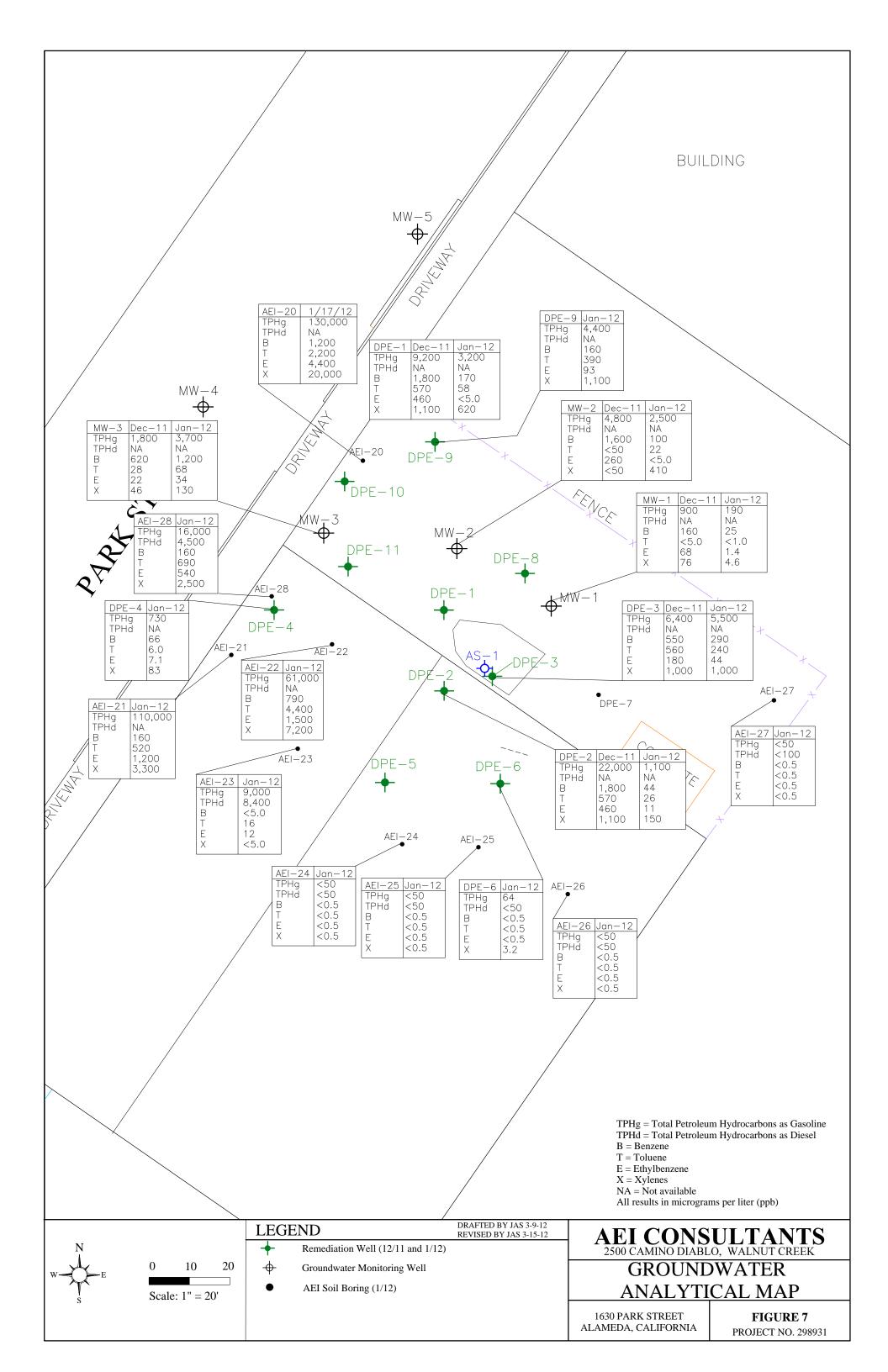


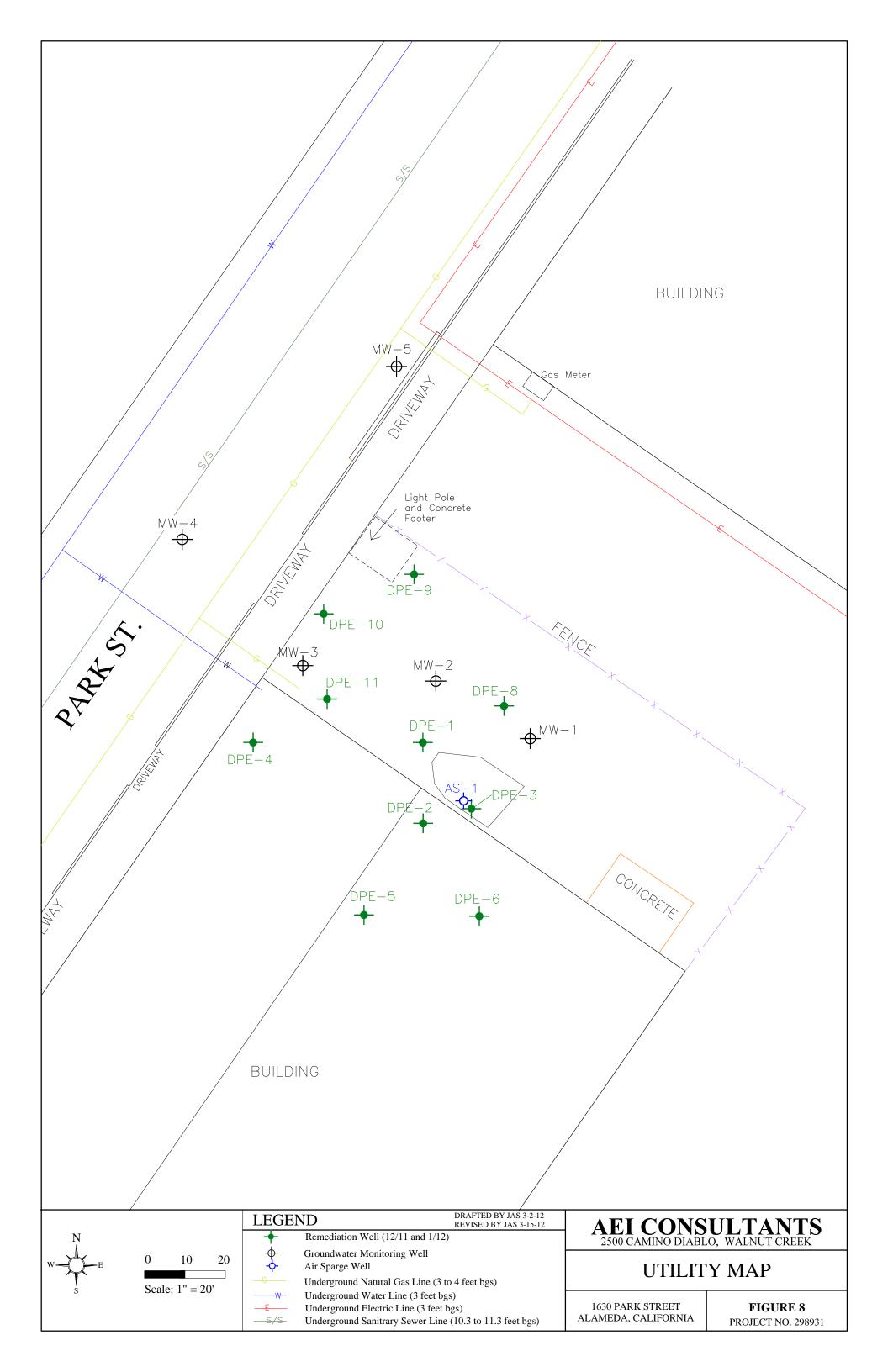












TABLES

Sample	Date	Approx. Depth	TPH-g	TPH-d*	TPH-mo*	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	POG
ID	Collected	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	EPA Method SW8021B/8015B/m										EPA Method SM5520E/F
MW-1-10	1/15/1987	10	24	-	-	-	2.9	3.6	-	1.8	-
MW-1-15	1/15/1987	15	<1.0	-	-	-	< 0.1	< 0.1	-	< 0.1	-
MW-2-5	1/15/1987	5	<1.0	_	_	_	<0.1	< 0.1	-	<0.1	_
MW-2-10	1/15/1987	10	350	-	-	-	14	22	-	23	-
MW-3-10	1/15/1987	10	200	-	-	-	9.8	16	-	16	-
MW-3-15	1/15/1987	15	<1.0	-	-	-	< 0.1	< 0.1	-	<0.1	-
SB-5-10	1/15/1987	10	6.5	-	-	-	< 0.1	0.22	-	< 0.1	-
EB1-S2	10/15/1993	8.5	510	-	-	-	0.89	10	5.8	41	-
EB1-S3	10/15/1993	11	2,300	-	-	-	22	190	57	280	-
EB2-2S	10/15/1993	10	15,000	-	-	-	84	710	260	1,400	_
EB2-S3	10/15/1993	11.5	200	-	-	-	4.3	15	3.9	20	-
EB3-S2	10/15/1993	10	2,200				9.4	71	42	200	
EB3-S2 EB3-S3	10/15/1993	12.5	610	-	-	-	1.2	3.2	4.5	2.9	-
/											
EB4-S2 EB4-S3	10/15/1993	8	4,900	-	-	-	32 60	230	84	440	-
EB4-53	10/15/1993	10.5	7,600	-	-	-	60	390	130	630	-
EB5-S2	10/15/1993	9	1,800	-	-	-	<2.5	22	27	140	-
EB5-S3	10/15/1993	11.5	14	-	-	-	0.021	1.5	0.49	2.5	-
EB6-S2	10/15/1993	8.5	6,800	-	-	-	20	230	100	590	-
EB7-S2	10/15/1993	6.5	<50	-	-	-	<0.5	<0.5	<0.5	<0.5	_
EB7-S3	10/15/1993	8.5	1,000	-	-	-	3.8	45	21	110	-
MW4-S1	4/20/1994	4.5	<50				<0.5	<0.5	<0.5	0.013	
MW4-S1 MW4-S2	4/20/1994	9	9.7	-	_	-	1.1	0.82	0.42	1.3	_
MW4-S2 MW4-S3	4/20/1994	14	<50	-	-	-	<0.5	0.008	<0.5	0.022	-
MW5-S1	4/20/1994	A 5	<50				<0.5	<0.5	<0.5	<0.5	
MW5-S1 MW5-S2	4/20/1994	4.5 9	<50	-	-	-	<0.5	<0.5 43	<0.5 20	<0.5 93	-
MW5-S3	4/20/1994	14	1,100	-	-	-	0.033	0.17	0.044	0.22	-
550.00	1/21/1002	0.5	• • • • •				<u> </u>			210	
EB8-S2	1/21/1997	9.5 12.5	2,000	-	-	<4	8.4	83	44	210	-
EB8-S3	1/21/1997	13.5	18	-	-	0.10	3.2	1.2	0.47	1.7	-
EB9-S1	1/21/1997	6.5	1.8	-	-	<5	0.071	0.052	0.026	0.074	-
EB9-S2	1/21/1997	9.5	1,300	-	-	<4	7.1	54	29	130	-
EB10-S1	1/21/1997	8.5	2,300	-	-	9.3	9.1	100	50	190	-
			,								

Sample	Date	Approx. Depth	TPH-g	TPH-d*	TPH-mo*	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	POG
ID	Collected	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) EPA Method SV	(mg/kg) V8021B/8015B/m	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) EPA Method SM5520E/F
EB11-S1	1/21/1997	9.5	3,800	-	-	<9	8.8	190	97	510	-
EB11-S2	1/21/1997	12	13	-	-	< 0.1	1.1	1.6	0.47	1.4	-
EB12-S1	1/21/1997	9.5	300	-	-	<0.6	0.95	0.59	3.5	18	-
EB12-S2	1/21/1997	12	1,300	-	-	6.2	9.4	23	35	130	-
GP1-11.5	4/29/2008	11.5	130	-	-	< 0.005	< 0.10	0.29	< 0.10	0.42	-
GP1-15	4/29/2008	15	<1.0	-	-	< 0.005	< 0.005	0.0081	0.0065	0.028	-
GP2-11	4/29/2008	11	120	-	-	< 0.010	< 0.050	0.87	0.43	1.2	-
GP2-13.5	4/29/2008	13.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP3-6.75	4/29/2008	6.75	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP3-11.5	4/29/2008	11.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP4-11.5	4/29/2008	11.5	2.7	-	-	< 0.005	0.14	0.052	0.072	0.17	-
GP4-14.5	4/29/2008	14.5	99	-	-	< 0.020	0.48	1.4	1.0	4.5	-
GP5-11.5	4/29/2008	11.5	4.6	-	-	< 0.005	0.12	0.078	0.14	0.48	-
GP5-19	4/29/2008	19	1.5	-	-	< 0.005	< 0.005	0.022	0.0069	0.032	-
GP6-11	4/29/2008	11	130	-	-	< 0.10	0.11	1.0	1.1	5.4	-
GP7-8	4/30/2008	8	390	-	-	< 0.050	0.84	2.2	4.3	18	-
GP7-19.5	4/30/2008	19.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP8-8.5	5/1/2008	8.5	1,100	-	-	< 0.050	< 0.10	3.2	7.3	45	-
GP8-19.5	5/1/2008	19.5	5.8	-	-	< 0.005	0.0091	0.067	0.048	0.21	-
GP9-7.5	5/1/2008	7.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP9-11.25	5/1/2008	11.25	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP10-7.5	4/30/2008	7.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP10-19.5	4/30/2008	19.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP11-6	4/30/2008	6	<1.0	-	-	< 0.005	< 0.005	0.011	0.0053	0.026	-
GP11-15.5	4/30/2008	15.5	2,100	-	-	< 0.10	5.7	71	38	180	-
GP11-18	4/30/2008	18	87	-	-	< 0.020	0.059	0.93	0.67	4.2	-
GP12-7.5	4/30/2008	7.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP12-11	4/30/2008	11	4.7	-	-	< 0.005	0.015	0.21	0.067	0.32	-
GP12-15.5	4/30/2008	15.5	<1.0	-	-	< 0.005	< 0.005	0.0071	0.0051	0.025	-
GP13-7.25	4/30/2008	7.25	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP13-11	4/30/2008	11	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP13-14	4/30/2008	14	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP14-7.5	4/30/2008	7.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-

Sample	Date	Approx. Depth	TPH-g	TPH-d*	TPH-mo*	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	POG
ID	Collected	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) EPA Method SV	(mg/kg) V8021B/8015B/m	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) EPA Method SM5520E/F
GP14-11	4/30/2008	11	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP15-7.5	4/30/2008	7.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP16-7.5	5/1/2008	7.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP16-10.5	5/1/2008	10.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP17-7.5	5/1/2008	7.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP17-11.5	5/1/2008	11.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP18-7.5	5/1/2008	7.5	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP18-10	5/1/2008	10	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP19-7	5/1/2008	7	<1.0	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
GP20-8	5/1/2008	8	<1.0	_	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
01200	5/1/2000	0	(1.0			<0.005	<0.005	<0.005	(0.005	<0.005	
GP21-7.5	5/2/2008	7.5	2.1	-	-	< 0.005	0.006	0.028	0.012	0.065	-
GP21-15.5	5/2/2008	15.5	<1.0	-	-	< 0.005	0.0064	0.022	0.0057	0.027	-
GP21-19.5	5/2/2008	19.5	<1.0	-	-	< 0.005	< 0.005	0.0092	< 0.005	0.023	-
GP22-10.5	5/2/2008	10.5	1,100	_	_	< 0.20	0.67	13	15	70	-
GP22-15.5	5/2/2008	15.5	<1.0	-	-	<0.005	< 0.005	<0.005	<0.005	< 0.005	-
GP23-7.5	5/2/2008	7.5	53	-	-	< 0.005	< 0.050	0.13	< 0.050	0.37	-
GP23-11.5	5/2/2008	11.5	1.9	-	-	< 0.005	0.062	0.041	0.043	0.18	-
GP23-16	5/2/2008	16	2	-	-	< 0.005	< 0.005	0.027	0.018	0.099	-
GP24-8.5	5/2/2008	8.5	3,600	-	-	<1.0	1.2	32	62	410	-
GP24-19.5	5/2/2008	19.5	<1.0	-	_	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	-
AEI-3-7'	7/25/2011	7	1,200	1,700	4,000	<10	2.6	25	10	48	-
AEI-3-15'	7/25/2011	15	<1.0	1.6	<5.0	<10	< 0.005	< 0.005	< 0.005	< 0.005	-
AEI-4-7'	7/25/2011	7	5,100	2,100	710	<50	6.2	83.0	54.0	280.0	_
AEI-4-15'	7/25/2011	15	1.2	1.3	<5.0	<0.05	0.029	0.071	0.031	0.17	-
AEI-6-7'	7/25/2011	7	470	10,000	24,000	<5.0	< 0.50	< 0.50	< 0.50	< 0.50	-
AEI-6-14'	7/25/2011	14	<1.0	1.4	<5.0	<5.0	< 0.50	< 0.50	< 0.50	< 0.50	-
AEI-7-7'	7/25/2011	7	100	6,300	14,000	-	-	-	-	-	-
AEI-7-13'	7/25/2011	13	<1.0	3.7	7.4	<5.0	< 0.50	< 0.50	< 0.50	< 0.50	-
AEI-8-7'	7/25/2011	7	<1.0	720	2,900	-	-	-	-	-	-
AEI-8-14'	7/25/2011	14	<1.0	<1.0	<5.0	<5.0	< 0.50	< 0.50	< 0.50	< 0.50	-
AEI-10-8'	7/26/2011	8	<1.0	1.2	<5.0	<5.0	< 0.50	< 0.50	<0.50	< 0.50	_
ALI-10-0	1/20/2011	0	<1.0	1.2	\	\J.U	\0.50	<0.50 ⁻	<0.50	\0.50	-

Sample	Date	Approx. Depth	TPH-g	TPH-d*	TPH-mo*	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	POG
ID	Collected	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) EPA Method SV	(mg/kg) W8021B/8015B/m	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) EPA Method SM5520E/F
AEI-11-3'	7/26/2011	3	<1.0	2.2	8.5	-	-	-	-	-	-
AEI-12-3'	7/26/2011	3	<1.0	2.6	<5.0	-	-	-	-	-	-
AEI-13-3'	7/26/2011	3	<1.0	4.2	<5.0	-	-	-	-	-	-
AEI-14-7'	7/26/2011	7	<1.0	-	-	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	-
AEI-15-7'	7/26/2011	7	<1.0	-	-	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	-
AEI-16-7'	7/26/2011	7	<1.0	1.4	<5.0	-				-	<50
AEI-17-8'	7/26/2011	8	<1.0	1.1	<5.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	-
AEI-18-8'	7/26/2011	8	<1.0	<1.0	<5.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	-
AEI-19-8'	7/26/2011	8	<1.0	<1.0	<5.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	-
AEI-20-7.5'	1/17/2012	7.5	8.4	-	-	<0.05	0.0071	0.084	0.069	0.38	-
AEI-20-11'	1/17/2012	11	600	-	-	<0.50	0.89	2.9	10	39	-
AEI-20-15'	1/17/2012	15	3.3	-	-	<0.05	<0.005	0.028	<0.005	0.017	-
AEI-21-7'	1/17/2012	7	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005	
AEI-21-11'	1/17/2012	11	46	-	-	< 0.05	0.020	0.42	0.27	0.60	-
AEI-21-14'	1/17/2012	14	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-22-9'	1/17/2012	9	3,100	-	-	<0.05	3.2	46	62	400	
AEI-22-11'	1/17/2012	11	8.6	-	-	<0.10	0.71	0.77	0.31	1.3	-
AEI-22-14'	1/17/2012	14	3,300	-	-	<0.05	8.3	84	61	370	-
AEI-23-6'	1/17/2012	6	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	
AEI-23-9.5'	1/17/2012	9.5	7.5	100	180	< 0.05	< 0.005	0.027	<0.005	0.0055	-
AEI-23-12.5'	1/17/2012	12.5	460	360	270	<5.0	<0.50	1.4	<0.50	0.80	-
AEI-24-7'	1/17/2012	7	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-24-10.5'	1/17/2012	10.5	<1.0	<1.0	<5.0	< 0.05	< 0.005	< 0.005	<0.005	<0.005	-
AEI-24-13'	1/17/2012	13	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-25-7.5'	1/17/2012	7.5	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-25-10'	1/17/2012	10	<1.0	<1.0	<5.0	<0.05	< 0.005	< 0.005	< 0.005	< 0.005	-
AEI-25-14'	1/17/2012	14	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-26-7.5'	1/17/2012	7.5	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-26-10.5'	1/17/2012	10.5	<1.0	<1.0	<5.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	-
AEI-26-14'	1/17/2012	14	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-27-3'	1/17/2012	3	<1.0	3.2	7.9	<0.05	<0.005	<0.005	<0.005	0.013	-

Sample	Date	Approx. Depth	TPH-g	TPH-d*	TPH-mo*	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	POG
ID	Collected	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
						EPA Method SV	V8021B/8015B/m				EPA Method SM5520E/F
AEI-28-7'	1/17/2012	7	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	< 0.005	< 0.005	-
AEI-28-11'	1/17/2012	11	12,000	2,100	44	<10	21	210	210	1,000	-
AEI-28-13'	1/17/2012	13	7.8	2.0	<5.0	<0.05	0.050	0.29	0.31	1.4	
DPE-1, 7-7.5'	11/15/2011	7	1,800	330	46	<50	9.7	64	29	150	-
DPE-2, 8-8.5'	11/15/2011	8	2,200	280	140	<15	7.6	57	34	170	-
DPE-3, 8-8.5'	11/14/2011	8	2,000	1,000	58	<50	6.7	48	47	240	-
DPE-5, 11'	1/20/2012	11	2,300	-	-	<10	15	99	33	140	
DPE-5, 14'	1/20/2012	14	1.1	-	-	<0.05	<0.005	0.17	<0.005	0.016	-
DPE-6, 10'	1/20/2012	10	510	-	-	<1.0	<0.10	0.14	0.47	0.96	
DPE-6, 14'	1/20/2012	14	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005	
DPE-7, 10'	1/19/2012	10	2,200	-	-	<5.0	<5.0	16	47	240	
DPE-7, 14.5'	1/19/2012	14.5	610	-	-	<5.0	<5.0	3.9	9.5	55	-

mg/kg = milligrams per kilogram (equivalent to parts per million) MDL = method detection limit POG = petroleum oil and POG = petroleum oil and grease TPH = total petroleum hydrocarbons MTBE = methyl butyl tertiary ethyl TPH-g = TPH as gasoline "<" = less than "*" = with silica gel cleanup "-" = not available TPH-d = TPH as diesel TPH-mo = TPH as motor oil

Table 2 Soil Sample Analytical Data VOCs, Fuel Oxygenates, SVOCs, and PCBs AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample	Date	Approx. Depth	1,4-Dioxane	All target VOCs	Fuel Oxygenates^	All target SVOCs	All other target PCBs
ID	Collected	(feet)	(mg/kg) EPA Method SW8260	(mg/kg) EPA Method SW8260	(mg/kg) EPA Method SW8260B	(mg/kg) EPA Method 8270	(mg/kg) EPA Method SW8082
GP1-11.5	4/29/2008	11.5			<mdl< td=""><td></td><td></td></mdl<>		
GP1-15	4/29/2008	15	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP2-11	4/29/2008	11	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP2-13.5	4/29/2008	13.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP3-6.75	4/29/2008	6.75	_	_	<mdl< td=""><td>_</td><td></td></mdl<>	_	
GP3-11.5	4/29/2008	11.5	-	_	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP4-11.5	4/29/2008	11.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP4-14.5	4/29/2008	14.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP5-11.5	4/29/2008	11.5			<mdl< td=""><td></td><td></td></mdl<>		
GP5-19	4/29/2008	11.5	-	_	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP6-11	4/29/2008	11	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
CP7 0	4/20/2000	0					
GP7-8 GP7-19.5	4/30/2008 4/30/2008	8 19.5	-	-	<mdl <mdl< td=""><td>-</td><td>-</td></mdl<></mdl 	-	-
017-19.5	4/30/2008	19.5	-	-	(MDE	-	-
GP8-8.5	5/1/2008	8.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP8-19.5	5/1/2008	19.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
	- 11 12 00 00						
GP9-7.5 GP9-11.25	5/1/2008 5/1/2008	7.5 11.25	-	-	<mdl <mdl< td=""><td>-</td><td>-</td></mdl<></mdl 	-	-
019-11.25	5/1/2008	11.23	-	-	< MDL	-	-
GP10-7.5	4/30/2008	7.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP10-19.5	4/30/2008	19.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
-							
GP11-6 GP11-15.5	4/30/2008 4/30/2008	6 15.5	-	-	<mdl <mdl< td=""><td>-</td><td>-</td></mdl<></mdl 	-	-
GP11-15.5 GP11-18	4/30/2008	18	-	-	<mdl <mdl< td=""><td>-</td><td>-</td></mdl<></mdl 	-	-
011110	1.50/2000	10					
GP12-7.5	4/30/2008	7.5	-	-	<mdl< td=""><td>=</td><td>-</td></mdl<>	=	-
GP12-11	4/30/2008	11	-	-	<mdl< td=""><td>=</td><td>-</td></mdl<>	=	-
GP12-15.5	4/30/2008	15.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP13-7.25	4/30/2008	7.25	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP13-11	4/30/2008	11	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP13-14	4/30/2008	14	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP14-7.5 GP14-11	4/30/2008 4/30/2008	7.5 11	-	-	<mdl <mdl< td=""><td>-</td><td>-</td></mdl<></mdl 	-	-
GF14-11	4/30/2008	11	-	-	< MDL	-	-
GP15-7.5	4/30/2008	7.5	-	-	<mdl< td=""><td>=</td><td>-</td></mdl<>	=	-
GP16-7.5	5/1/2008	7.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP16-10.5	5/1/2008	10.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP17-7.5	5/1/2008	7.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP17-11.5	5/1/2008	11.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-

Table 2 Soil Sample Analytical Data VOCs, Fuel Oxygenates, SVOCs, and PCBs AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	1,4-Dioxane (mg/kg) EPA Method SW8260	All target VOCs (mg/kg) EPA Method SW8260	Fuel Oxygenates^ (mg/kg) EPA Method SW8260B	All target SVOCs (mg/kg) EPA Method 8270	All other target PCBs (mg/kg) EPA Method SW8082
GP18-7.5	5/1/2008	7.5			<mdl< td=""><td></td><td></td></mdl<>		
GP18-10	5/1/2008	10	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP19-7	5/1/2008	7	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP20-8	5/1/2008	8	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP21-7.5	5/2/2008	7.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP21-15.5	5/2/2008	15.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP21-19.5	5/2/2008	19.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP22-10.5	5/2/2008	10.5	-	-	<mdl< td=""><td>=</td><td>-</td></mdl<>	=	-
GP22-15.5	5/2/2008	15.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP23-7.5	5/2/2008	7.5	-	-	<mdl< td=""><td>_</td><td>_</td></mdl<>	_	_
GP23-11.5	5/2/2008	11.5	_	_	<mdl< td=""><td>_</td><td>_</td></mdl<>	_	_
GP23-16	5/2/2008	16	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP24-8.5	5/2/2008	8.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
GP24-19.5	5/2/2008	19.5	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
AEI-3-10'	7/25/2011	10	-	-	-	-	<1.0
AEI-4-10'	7/25/2011	10	-	-	-	-	<0.25
AEI-6-10'	7/25/2011	10	-	-	-	-	<0.05
AEI-7-11'	7/25/2011	11	-	-	-	-	< 0.50
AEI-8-11'	7/25/2011	11	-	-	-	-	< 0.05
AEI-11-3'	7/26/2011	3	-	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
AEI-12-3'	7/26/2011	3	-	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
AEI-13-3'	7/26/2011	3	-	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
AEI-14-7'	7/26/2011	7	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
AEI-15-7'	7/26/2011	7	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-
AEI-16-7'	7/26/2011	7	<0.02	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><0.05</td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><0.05</td></mdl<></td></mdl<>	<mdl< td=""><td><0.05</td></mdl<>	<0.05
AEI-27-3'	1/17/2012	3		<mdl< td=""><td>-</td><td>-</td><td></td></mdl<>	-	-	

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

MDL = method detection limit

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

PCBs = polychlorinated biphenyls

"<" = less than

"-" = not available

"^" = fuel oxygenates tert-amyl methyl ether (TAME), t-butyl alcohol (TBA),

1.2-dibromomethane (EDB), 1.2-dichloroethane (1.2-DCA), diisopropyl ether (DIPE), methanol, ethanol, ethyl tert-butyl ether (ETBE), methyl tert-butyl ether (MTBE), and 1.2-Dichloroethane (EDC)

Table 3 Groundwater Sample Analytical Data TPH, MBTEX and TRPH AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	TPH-g (μg/L)	TPH-d* (μg/L)	TPH-mo* (µg/L)	MTBE (μg/L) EPA Method SW	Benzene (μg/L) /8021B/8015Bm	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TRPH (µg/L) EPA Method E418.1
HP-1	4/23/1993	<50			EI A MELIOU SW	<0.5	<0.5	<0.5	<0.5	EFA Method E418.1
			-	-	-					-
HP-2	4/23/1993	<50	-	-	-	<0.5	<0.5	<0.5	<0.5	-
EB3-WSIA	10/15/1993	120,000	-	-	-	9,600	20,000	3,400	14,000	-
EB5-WSIA	10/15/1993	83,000	-	-	-	3,900	15,000	3,100	13,000	-
EB8-WS1	1/21/1997	25,000	-	-	<80	2,600	3,200	780	3,600	-
EB10-WS1	1/21/1997	81,000	-	-	<370	13,000	12,000	3,300	8,000	-
EB11-WS1	1/21/1997	49,000	-	-	<180	6,900	6,000	2,100	4,600	-
EB12-WS1	1/21/1997	38,000	-	-	110	1,400	1,400	1,800	7,400	-
P1-WS1	1/21/1997	74,000	-	-	<78	1,100	5,800	3,800	18,000	-
P2-WS1	1/21/1997	6,800	-	-	<10	2,200	290	310	560	-
P3-WS1	1/21/1997	220	-	-	<5.0	1.9	17	10	49	-
GP1W	4/29/2008	70,000	-	-	<500	6,800	6,600	2,300	12,000	-
GP2W	4/29/2008	910	-	-	<5.0	0.69	2.9	30	64	-
GP3W	4/29/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
GP4W	4/29/2008	46,000	-	-	<500	570	3,200	1,500	7,500	-
GP5W	4/29/2008	12,000	-	-	<60	140	480	270	1,100	-
GP6W	4/29/2008	22,000	-	-	<170	920	1,600	900	3,500	-
GP7W	4/30/2008	22,000	-	-	<180	2,600	320	810	2,600	-
GP8W	5/1/2008	140,000	-	-	<650	9,000	20,000	4,300	21,000	-
GP9W	5/1/2008	550	-	-	<5.0	53	0.52	2.1	25	-
GP10W	4/30/2008	11,000	-	-	<100	1,900	490	480	770	-
GP11W	4/30/2008	42,000	-	-	<452	1,900	4,200	1,700	7,600	-

Table 3 Groundwater Sample Analytical Data TPH, MBTEX and TRPH AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	TPH-g (μg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (μg/L) EPA Method SW	Benzene (μg/L) V8021B/8015Bm	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TRPH (μg/L) EPA Method E418.1
GP12W	4/30/2008	61,000	-	-	<500	4,500	11,000	1,700	7,700	-
GP13W	4/30/2008	6,200	-	-	<10	220	53	150	440	-
GP14W	4/30/2008	300	-	-	<5.0	46	1.9	19	11	-
GP15W	4/30/2008	<50	-	-	<5.0	<0.5	0.69	<0.5	1.1	-
GP16W	5/1/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
GP17W	5/1/2008	<50	-	-	<5.0	<0.5	1.7	<0.5	2	-
GP18W	5/1/2008	<50	-	-	<5.0	<0.5	2.1	0.79	4	-
GP19W	5/1/2008	85	-	-	<5.0	<0.5	0.80	<0.5	<0.5	-
GP20W	5/1/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
GP21W	5/2/2008	9,400	-	-	<50	560	1,400	260	1,300	-
GP22W	5/2/2008	3,900	-	-	<25	36	160	120	610	-
GP23W	5/2/2008	16,000	-	-	<90	830	1,900	540	2,600	-
GP24W	5/2/2008	110,000	-	-	<450	6,500	4,200	3,100	13,000	-
AEI-1-W	7/25/2011	<50	<50	<250	-				-	-
AEI-2-W	7/25/2011	<50	<50	<250	-				-	-
AEI-3-W	7/25/2011	11,000	12,000	29,000	<50	1,100	1,900	210	860	-
AEI-4-W	7/25/2011	200,000	25,000	19,000	<500	21,000	30,000	3,600	16,000	-
AEI-5-W	7/25/2011	<50	<50	<250	-	-	-	-	-	-
AEI-6-W	7/25/2011	18,000	120,000	300,000	<50	<5.0	7.7	<5.0	28	-
AEI-7-W	7/25/2011	280	11,000	28,000	-	-	-	-	-	-
AEI-8-W	7/25/2011	<50	1,600	3,800	-	-	-	-	-	-
AEI-9-W	7/25/2011	<50	<50	<250	-	-	-	-	-	-

Table 3 Groundwater Sample Analytical Data TPH, MBTEX and TRPH AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	TPH-g (μg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L) EPA Method SW	Benzene (μg/L) 8021B/8015Bm	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TRPH (µg/L) EPA Method E418.1
AEI-10-W	7/26/2011	<50	<50	400	-	-	-	-	-	-
AEI-14-W	7/26/2011	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
AEI-15-W	7/26/2011	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
AEI-16-W	7/26/2011	<50	<50	<250	<0.5	<0.5	< 0.5	<0.5	<0.5	<1.0
AEI-17-W	7/26/2011	<50	89	590	<5.0	<0.5	< 0.5	<0.5	<0.5	-
AEI-18-W	7/26/2011	<50	<100	<500	<5.0	<0.5	< 0.5	<0.5	<0.5	-
AEI-19-W	7/26/2011	<50	<100	<500	<5.0	<0.5	< 0.5	<0.5	<0.5	-
AEI-20	1/17/2012	130,000	-	-	<500	1,200	2,200	4,400	20,000	
AEI-21	1/17/2012	110,000	-	-	<500	160	520	1,200	3,300	
AEI-22	1/17/2012	61,000	-	-	<500	790	4,400	1,500	7,200	
AEI-23	1/17/2012	9,000	8,400	1,500	<50	<5.0	16	12	<5.0	
AEI-24	1/17/2012	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
AEI-25	1/17/2012	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
AEI-26	1/17/2012	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
AEI-27	1/17/2012	<50	<100	<500	<5.0	<0.5	<0.5	<0.5	<0.5	
AEI-28	1/17/2012	16,000	4,500	<250	<100	160	690	540	2,500	

µg/L = micrograms per liter

TPH = total petroleum hydrocarbons TPH-g = TPH as gasoline "<" = less than

MDL = method detection limit TRPH = total recoverable petroleum hydrocarbons

MTBE and BTEX analysis for AEI-16-W performed by EPA Method SW8260B

TPH-d = TPH as diesel TPH-mo = TPH as motor oil

MTBE = methyl tertiary butyl ether

"*" = with silica gel cleanup

"-" = not available

Table 4Groundwater Sample Analytical DataVOCs, Fuel Oxygenates, SVOCs, and PCBsAEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	1,4-Dioxane (μg/L)	TBA (μg/L)	EDB (µg/L)	EDC (µg/L) EPA Method S	MTBE (μg/L) SW8260B	Fuel Oxygenates^ (µg/L)	All Target VOCs (µg/L)	All Target SVOCs (µg/L) EPA Method 8270	All Target PCBs (µg/L) EPA Method SW8082
GP1W	4/29/2008	-	<20	<5.0	<5.0	<5.0	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP2W	4/29/2008	-	<2.0	< 0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP3W	4/29/2008	-	<2.0	< 0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP4W	4/29/2008	-	<20	<5.0	<5.0	<5.0	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP5W	4/29/2008	-	<2.0	< 0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP6W	4/29/2008	-	24	<5.0	<5.0	<5.0	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP7W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP8W	5/1/2008	-	<20	<5.0	<5.0	<5.0	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP9W	5/1/2008	-	7.7	< 0.5	1.1	1.2	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP10W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP11W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP12W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP13W	4/30/2008	-	8.9	<0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP14W	4/30/2008	-	<2.0	<0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP15W	4/30/2008	-	<2.0	<0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP16W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP17W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP18W	5/1/2008	-	<2.0	< 0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP19W	5/1/2008	-	<2.0	< 0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP20W	5/1/2008	-	<2.0	< 0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP21W	5/2/2008	-	<2.0	0.65	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-

Table 4Groundwater Sample Analytical DataVOCs, Fuel Oxygenates, SVOCs, and PCBsAEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	1,4-Dioxane (μg/L)	TBA (μg/L)	EDB (µg/L)	EDC (µg/L) EPA Method S	MTBE (μg/L) 5W8260B	Fuel Oxygenates^ (µg/L)	All Target VOCs (µg/L)	All Target SVOCs (µg/L) EPA Method 8270	All Target PCBs (µg/L) EPA Method SW8082
GP22W	5/2/2008	-	<2.0	< 0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP23W	5/2/2008	-	<20	<5.0	<5.0	<5.0	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
GP24W	5/2/2008	-	75	<5.0	<5.0	<5.0	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
AEI-14-W	7/26/2011	-	<2.0	<0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
AEI-15-W	7/26/2011	-	<2.0	<0.5	<0.5	<0.5	<mdl< td=""><td>-</td><td>-</td><td>-</td></mdl<>	-	-	-
AEI-16-W	7/26/2011	<2.0	<2.0	<0.5	<0.5	<0.5	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><0.5</td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><0.5</td></mdl<></td></mdl<>	<mdl< td=""><td><0.5</td></mdl<>	<0.5
AEI-27	1/17/2012	-	-	-	-	-	-	<mdl< td=""><td>-</td><td>-</td></mdl<>	-	-

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

MDL = method detection limit

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

PCBs = polychlorinated biphenyls

TBA = t-butyl alcohol

EDB = 1,2-dibromomethane

EDC = 1,2-dichloroethane

MTBE = methyl tert-butyl ether

"-" = not available

"<" = less than

"^" = fuel oxygenates tert-amyl methyl ether (TAME),

1,2-dichloroethane (1,2-DCA), diisopropyl ether (DIPE), methanol, ethanol, and ethyl tert-butyl ether (ETBE)

Table 5Soil Sample Analytical DataMetalsAEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	Cd mg/kg	Cr (total)* mg/kg EPA	Pb mg/kg A Method SW6010	Ni mg/kg B	Zn mg/kg
AEI-11-3'	7/26/2011	3	<1.5	60	<5.0	24	16
AEI-12-3'	7/26/2011	3	<1.5	31	<5.0	15	10
AEI-13-3'	7/26/2011	3	<1.5	29	<5.0	14	9.7
AEI-14-7'	7/26/2011	7	-	-	<5.0	-	-
AEI-15-7'	7/26/2011	7	-	-	<5.0	-	-
AEI-16-7'	7/26/2011	7	<1.5	54	<5.0	48	27
AEI-17-8'	7/26/2011	8	-	-	<5.0	-	-
AEI-18-8'	7/26/2011	8	-	-	<5.0	-	-
AEI-19-8'	7/26/2011	8	-	-	<5.0	-	-
*AEI-27-3'	1/17/2012	3	<0.25	38	140	17	140

Notes:

mg/kg = milligrams per kilogram

"-" = not available

Cd = Cadmium

Cr = Chromium

Pb = Lead

Ni = Nickel

Zn = Zinc

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

Table 6Groundwater Sample Analytical DataMetalsAEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	Cd µg/L	Cr (total) µg/L EF	Ρb μg/L PA Method E200.8	Ni µg/L	Zn μg/L
AEI-14-W*	7/26/2011	-	-	21	-	-
AEI-15-W*	7/26/2011	-	-	66	-	-
AEI-16-W**	7/26/2011	<0.25	<0.5	<0.5	8.7	<5.0

Notes:

µg/L = micrograms per liter "*" = total "**" = dissolved Cd = Cadmium Cr = Chromium

Pb =Lead

Ni = Nickel

Zn = Zinc

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	-	PVC	16	15	10	4	7 - 15	0.010	6.5 - 16	#2/12 Sand
DPE-2	11/15/2011	-	PVC	16	15	10	4	7 - 15	0.010	6.5 - 16	#2/12 Sand
DPE-3	11/14/2011	-	PVC	16	14	10	4	7 - 14	0.010	6.5 - 16	#2/12 Sand
DPE-4	1/19/2012	-	PVC	17	17	10	4	8 - 17	0.010	7.5 - 17	#2/12 Sand
DPE-5	1/20/2012	-	PVC	18	18	10	4	8 - 18	0.010	7.5 - 18	#2/12 Sand
DPE-6	1/20/2012	-	PVC	18	18	10	4	8 - 18	0.010	7.5 - 18	#2/12 Sand
DPE-8	1/20/2012	-	PVC	18	18	10	4	8 - 18	0.010	7.5 - 18	#2/12 Sand
DPE-9	1/20/2012	-	PVC	18	18	10	4	8 - 18	0.010	7.5 - 18	#2/12 Sand
DPE-10	1/20/2012	-	PVC	17	17	10	4	8 - 17	0.010	7.5 - 17	#2/12 Sand
DPE-11	1/20/2012	-	PVC	18	18	10	4	8 - 18	0.010	7.5 - 18	#2/12 Sand
MW-1	1/15/1987	-	PVC	-	20	8	2	5 - 20	-	-	-
MW-2	1/15/1987	-	PVC	-	20	8	2	5 - 20	-	-	-
MW-3	1/15/1987	-	PVC	-	20	8	2	5 - 20	-	-	-
MW-4	4/20/1994	-	PVC	-	23	8	2	8 - 23	-	-	-
MW-5	4/20/1994	-	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

Table 7 Well Construction Details AEI Project No. 298931, 1630 Park Street, Alameda, California

PVC = polyvinyl chloride TOC = top of casing "-" = not available

Table 8
Groundwater Elevation Data
AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID	Date	Well	Depth to	Groundwater
(Screen Interval)	Collected	Elevation	Water	Elevation
		(ft amsl)	(<i>ft</i>)	(ft amsl)
	X 1.00	104.54	0.02	05.00
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
MW-2	Jul-89	104.86	9.24	95.62
(5 - 20 feet bgs)	Apr-91	104.00	8.01	96.85
(5 - 20 reet 053)	Jul-92		9.03	95.83
	Aug-92		9.34	95.52
	Sep-92		9.46	95.40
	Oct-92		9.52	95.34
	Nov-92		9.42	95.44
	Dec-92		9.47	95.39
	Jan-93		8.25	96.61
	Feb-93		7.85	97.01
	Mar-93		7.77	97.09
	Apr-93		7.86	97.00
	May-93		8.20	96.66
	Jul-93		8.72	96.14
	Oct-93		9.64	95.22
	Jan-94		9.04	95.74
	Apr-94		8.56	96.30
	Jul-94		9.02	95.84
	Oct-94		9.59	
	Jan-94		9.59 7.71	95.27 97.15
				97.15
	Apr-95		7.40	97.46

Table 8
Groundwater Elevation Data
AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID	Date	Well	Depth to	Groundwater
(Screen Interval)	Collected	Elevation	Water	Elevation
, , , , , , , , , , , , , , , , , , ,		(ft amsl)	(ft)	(ft amsl)
MW-2 (continued)	Jan-97		7.55	97.31
	Nov-98		8.49	96.37
	Jan-01		8.08	96.78
	Jun-02		7.77	97.09
	Nov-02		8.50	96.36
	Feb-03		7.38	97.48
	Jun-03		7.57	97.29
	Apr-08	25.52	7.67	17.85
	Jun-11	25.52	7.35	18.17
	Dec-11	25.48	8.41	17.07
	Jan-12	25.48	8.43	17.05
	1.1.00	104.50	0.00	05.50
MW-3	Jul-89	104.52	9.00	95.52
(5 - 20 feet bgs)	Apr-91		8.06	96.46
	Jul-92		8.82	95.70
	Aug-92		9.05	95.47
	Sep-92		9.09	95.43
	Oct-92		9.15	95.37
	Nov-92		9.05	95.47
	Dec-92		9.12	95.40
	Jan-93		8.18	96.34
	Feb-93		7.98	96.54
	Mar-93		7.94	96.58
	Apr-93		8.02	96.50
	May-93		7.69	96.83
	Jul-93		8.65	95.87
	Oct-93		9.32	NC
	Jan-94		8.93	NC
	Apr-94		8.52	96.00
	Jul-94		8.86	95.66
	Oct-94		9.25	95.27
	Jan-94		7.85	96.67
	Apr-95		7.64	96.88
	Jan-97		7.75	96.77
	Nov-98		8.38	96.14
	Jan-01		8.00	96.52
	Jun-02		7.81	96.71
	Nov-02		8.37	96.15
	Feb-03		7.48	97.04
	Jun-03		7.48	96.85
		25.17	7.74	96.85 17.43
	Apr-08			
	Jun-11 Dec-11	25.17	7.50 8.25	17.67 16 88
		25.13		16.88
	Jan-12	25.13	8.25	16.88
MW-4	Apr-94	104.86	9.29	95.57
(8 - 23 feet bgs)	Jul-94		9.55	95.31
	Oct-94		9.83	95.03
	Jan-94		8.88	95.98
	Apr-95		8.80	96.06
	Jan-97		-	
	Nov-98		-	-
	Jan-01		-	-
	Jun-02		-	-
	Nov-02		_	_
	INOV-U2		-	-

Table 8
Groundwater Elevation Data
AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID	Date	Well	Depth to	Groundwater
(Screen Interval)	Collected	Elevation	Water	Elevation
		(ft amsl)	(<i>ft</i>)	(ft amsl)
MW-4 (continued)	Feb-03		-	-
	Jun-03		-	-
	Apr-08	25.53	8.73	16.80
	Jun-11	25.53	8.52	17.01
	Dec-11	25.58	-	-
	Jan-12	25.58	-	-
MW-5	Apr-94	103.62	8.27	95.35
(7 - 22 feet bgs)	Jul-94		8.50	95.12
	Oct-94		8.92	94.70
	Jan-94		7.61	96.01
	Apr-95		8.48	95.14
	Jan-97		6.79	96.83
	Nov-98		8.12	95.50
	Jan-01		7.67	95.95
	Jun-02		7.61	96.01
	Nov-02		8.01	95.61
	Feb-03		7.22	96.40
	Jun-03		7.43	96.19
	Apr-08	24.31	7.36	16.95
	Jun-11	24.31	7.43	16.88
	Dec-11	24.32	-	-
	Jan-12	24.32	-	-
DDE 1	D 11	25.89	0.01	17.07
DPE-1	Dec-11 Jan-12	25.88 25.88	8.81 8.78	17.07
(7 - 15 feet bgs)	Jan-12	25.88	0./0	17.10
DPE-2	Dec-11	26.22	9.29	16.93
(7 - 15 feet bgs)	Jan-12	26.22	7.97	18.25
	D 11	25.25	5 .02	15.25
DPE-3	Dec-11	25.27	7.92	17.35
(7 - 15 feet bgs)	Jan-12	25.27	8.98	16.29
DPE-4	Jan-12	26.06	9.11	16.95
(8-17 feet bgs)	oun 12	20100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10000
(0 17 1000 055)				
DPE-5	Jan-12	26.25	-	-
(8-18 feet bgs)				
DPE-6	Jan-12	26.13	8.58	17.55
(8-18 feet bgs)				
DPE-8	Jan-12	25.36	-	-
(8-18 feet bgs)				
	.		0.15	4 < 0=
DPE-9	Jan-12	25.09	8.12	16.97
(8-18 feet bgs)				
DDE 10	Ion 12	25.14		
DPE-10	Jan-12	25.14	-	-
(8-17 feet bgs)				
DDE 11	T 10	0 <i>5 5</i> 7		
DPE-11	Jan-12	25.57	-	-
(8-18 feet bgs)				

ft amsl = feet above mean sea level

All water level depths are measured from the top of casing "-" = not measured $% \mathcal{C}_{\mathcal{C}}$

bgs = below ground surface

Table 9
Groundwater Monitoring Analytical Data
AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	TPH-g				Ethylbenzene , 8021B, or 8260I	Xylenes B	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA EPA Me	DIPE thod 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)
MW-1	1/21/1987	21,020		1,148	8,627	1,792	6,012	-	-	-	-	-	-	-	-	-	-	-
	1/11/1989	1,400		74	10	13	5	-	-	-	-	-	-	-	-	-	-	-
	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	2,200	а	720	180	82	150	-	-	-	-	-	-	-	-	-	-	-
	7/8/1993	3,200	а	1,200	110	97	100	-	-	-	-	-	-	-	-	-	-	-
	10/15/1993	3,700	а	1,400	43	94	36	-	-	-	-	-	-	-	-	-	-	-
	1/25/1994	1,600	а	680	16	41	35	-	-	-	-	-	-	-	-	-	-	-
	4/28/1994	6,100	а	1,900	380	250	340	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	6,000	а	1,800	510	220	450	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	3,000	a	1,100	79	82	87	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	1,600	a	660	100	82	87	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	3,800	a	1,200	270	120	260	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	5,200	a	1,500	450	190	400	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	5,900	a	1,800	450	210	400	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	3,100	a	1,100	87	160	180	<7.3	-	-	-	-	-	-	-	-	-	-
	11/12/1998	1,000	a	280	3	3.3	7.9	<30	-	-	-	-	-	-	-	-	-	-
	1/16/2001	4,700	а	1,20	18	150	49	-	<5	<5.0	<25	< 5.0	<5.0	<5.0	-	<5.0	-	-
	6/27/2002	5,900	a	230	7.7	<5	1,500	-	<5	<5.0	<50	< 5.0	<5.0	<5.0	-	<5.0	-	-
	11/18/2002	3,100	a	890	12	310	28	-	<2.5	-	-	<2.5	<2.5	-	-	-	-	-
	2/20/2003	260	d	100	0.72	<0.5	< 0.5	-	<0.5	-	-	< 0.5	< 0.5	-	-	-	-	-
	6/11/2003	3,100	a	480	6.7	220	420	-	<2.5	-	-	<2.5	<2.5	-	-	-	-	-
	4/3/2008	2,700	a	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	610	a	100	6.2	46	77	-	<2.5	<2.5	<10	-	-	<2.5	-	<2.5	-	-
	12/6/2011	900	a	160	<5.0	68	76	-	<5.0	<5.0	<20	-	-	<5.0	-	<5.0	-	-
	1/24/2012	190	a	25	<1.0	1.4	4.6	<1.0	-	-	-	-	-	-	-	-	-	-
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	52,000	а	13,000	8,400	1,700	5,300	-	-	-	-	-	-	-	-	-	-	-
	7/8/1993	6,400	а	2,500	470	280	530	-	-	-	-	-	-	-	-	-	-	-
	10/15/1993	17,000	а	3,900	870	500	940	-	-	-	-	-	-	-	-	-	-	-
	1/25/1994	16,000	а	5,400	1,140	640	1,500	-	-	-	-	-	-	-	-	-	-	-
	4/28/1994	15,000	а	4,00	910	480	1,200	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	18,000	а	6,000	760	630	1,600	-	-	-	-	-	-	-	-	-	-	-

Table 9
Groundwater Monitoring Analytical Data
AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	TPH-g			Toluene thods 8020	Ethylbenzene , 8021B, or 8260	Xylenes B	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA EPA Me	DIPE thod 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)
	10/27/1994	9,500	а	2,700	230	320	640	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	5,900	а	1,900	290	230	500	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	10,000	а	3,300	620	360	930	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	9,900	а	3,300	320	390	830	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	13,000	а	4,900	400	580	990	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	7,600	а	2,600	310	330	660	<20	-	-	-	-	-	-	-	-	-	-
	11/12/1998	31,000	а	11,000	750	1,500	2,300	<900	-	-	-	-	-	-	-	-	-	-
	1/16/2001	23,000	а	8,200	260	1,000	820	<30	-	<30	<150	<30	<30	<30	-	<30	-	-
	6/27/2002	39,000	а	7,000	1,800	690	4,000	-	<5	<5.0	<5.0	< 5.0	6.1	<5.0	-	<5.0	-	-
	11/18/2002	15,000	а	5,700	76	1,000	150	-	<12	-	-	<12	<12	-	-	-	-	-
	2/20/2003	26,000	а	6,300	1,100	1,300	1,900	-	<5.0	-	-	< 5.0	<5.0	-	-	-	-	-
	6/11/2003	37,000	a	7,100	2,300	2,000	3,600	-	<25	-	-	<25	<25	-	-	-	-	-
	4/3/2008	4,100	a	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	6,500	a	2,100	210.0	560	310	-	<50	<50	<200	-	-	<50		<50	_,	-
	12/6/2011	4,800	a	1,600	<50	260	<50	-	<50	<50	<200	_	-	<50	-	<50	-	-
	1/24/2012	2,500	a	100	22.0	<5.0	410	<5.0	-	-	-	-	-	-	-	-	-	-
	1/21/1007	10 207		1 420	2 201	(10	0.7(1											
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	6,500	а	2,600	280	260	190	-	-	-	-	-	-	-	-	-	-	-
	7/8/1993	5,200	а	2,100	260	250	180	-	-	-	-	-	-	-	-	-	-	-
	10/15/1993	11,000	а	3,500	580	430	370	-	-	-	-	-	-	-	-	-	-	-
	1/25/1994	6,200	а	2,500	270	160	28	-	-	-	-	-	-	-	-	-	-	-
	4/28/1994	5,300	а	1,700	190	210	180	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	5,900	а	2,000	360	260	330	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	8,000	а	2,200	580	260	170	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	3,700	а	1,200	150	150	190	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	4,000	а	1,400	200	180	210	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	5,700	а	2,000	280	270	280	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	11,000	а	3,500	1,100	460	680	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	2,200	а	860	63	71	80	<5	-	-	-	-	-	-	-	-	-	-
	11/12/1998	180	d	44	0.51	<0.5	0.92	<20	-	-	-	-	-	-	-	-	-	-
	1/16/2001	64	а	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	110	а	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	7,600	а	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	1,300	a	560	21	86	150	-100	<12	<12	<50	-5.0	-	<12	-	<12	-	-
	12/6/2011	1,800	a	620	28	22	46	-	<12	<17	<67	_	-	<17	_	<12	_	-
	1/24/2012	3,700	a	1,200	68	34	130	<25	-17	-	-	-	-	-	-	-	-	-

Table 9
Groundwater Monitoring Analytical Data
AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	TPH-g				Ethylbenzene , 8021B, or 8260	Xylenes B	MTBE	MTBE	TAME	ТВА	EDB	1,2-DCA EPA Me	DIPE thod 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)
MW-4	4/28/1994	190	b,c	3.8	2.9	2.1	3.1	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	180	a	15	9.2	7.6	28	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	130	а	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	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/1998	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/16/2001	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/27/2002	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2002	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/20/2003	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/11/2003	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	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	53	а	2.7	< 0.5	1.0	1.7	-	< 0.5	< 0.5	<2.0	-	-	< 0.5	-	< 0.5	_	-
	12/6/2011	_		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/24/2012	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	4/28/1994	30,000	а	4,000	3,000	810	3,500	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	9,300	а	2,000	800	290	940	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	15,000	а	2,700	1,300	420	1,100	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	7,900	а	2,100	680	240	860	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	7,900	а	2,400	580	340	630	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	11,000	а	3,400	760	610	1,200	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	13,000	а	2,900	830	570	1,100	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	2,600	а	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	130	а	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	170	а	48	< 0.5	< 0.5	1.4	-	< 0.5	-	-	<0.5	< 0.5	-	-	-	-	-
	4/3/2008	31,000	а	490	3,400	1,600	5,300	<250	<10	<10	<40	<10	<10	<10	<1,000	<10	<10,000	< 0.5
	6/23/2011	82	а	5.1	< 0.5	12.0	8.4	-	<0.5	< 0.5	<2.0	-	-	< 0.5	-	< 0.5	-	-
	12/6/2011	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/24/2012	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 9
Groundwater Monitoring Analytical Data
AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	TPH-g		Benzene FPA Mo		Ethylbenzene , 8021B, or 8260l	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA	DIPE thod 8260	Ethanol	ETBE	Methanol	Lead
10		(µg/L)		LI A We (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 1/24/2012	9,200 3,200	a a	1,800 170	570 58	460 <5.0	1,100 620	- <5.0	<50 -	<50 -	<200	-	-	<50	-	<50 -	-	-
DPE-2	12/6/2011 1/24/2012	22,000 1,100	a a	2,100 44	3,300 26	650 11	3,300 150	<2.5	<100 -	<100 -	<400 -	-	-	<100 -	-	<100 -	-	-
DPE-3	12/6/2011 1/24/2012	6,400 5,500	a a	550 290	560 240	180 44	1,000 1,000	-<5.0	<17 -	<17 -	<67 -	-	-	<17 -	-	<17 -	-	-
DPE-4	1/24/2012	730	a	66	6.0	7.1	83	2.5	-	-	-	-	-	-	-	-	-	-
DPE-5	1/24/2012	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DPE-6	1/24/2012	64*	a	<0.5	<0.5	<0.5	3.2	<0.5	-	-	-	-	-	-	-	-	-	-
DPE-8	1/24/2012	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DPE-9	1/24/2012	4,400	a	160	390	93	1,100	<5.0	-	-	-	-	-	-	-	-	-	-
DPE-10	1/24/2012	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DPE-11	1/24/2012	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TPH-g= total petroleum hydrocarbons as gasoline

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

 $\mu g/L = micrograms per liter (ppb)$

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.

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

APPENDIX A

BORING LOGS

Log of Boring AS-1

Project: Alamed Project Location Project Number	n: 1630	Park Street, Alameda, California		Log of Boring AS-1 Sheet 1 of 1					
Date(s) Drilled 11/14/11		Logged By Bryan Campbell	Che	Checked By Bryan Campbell					
Drilling Method Hollow Stem Drill Rig Type Geoprobe 66 Groundwater Level and Date Measured Borehole Mall Common	20D	Drill Bit Size/Type 10 inch Drilling Contractor RSI Drilling Sampling Method(s) Direct-Push Sampl	er Dat	al Depth Borehole 25 fe face Elevation mmer ta	et bgs				
Depth, feet Sample PID Reading (ppm)	USCS Symbol Graphic Log	Location 1630 Park Street, Al		Well Log	Remarks				
0 - - -	Asphalt _GW _ 	Asphalt Gravel with Sand: Gravel up to 3 cm, olive, weak, an dry.	gular, nonplastic fines,		- Well Box - Neat Cement Grout - Blank, Schedule 40 PVC, 2-in				
5 - - - 10 - - - - - - - - - - - -	_SM	Silty Sand: Fine sand, weak, brown, low plastic fines,	, moist.						
20- 20- 25 1		▼ Saturated.			Bentonite Chips #3 Sand Screen with 0.020 Slot, Schedule 40 PVC, 2-inch 8-inch Borehole				
30-		Bottom of Boring at 25 feet bgs		-					

[Well Log on Left.tp Project: Alameda, California s.bgs Project Location: 1630 Park Street, Alameda, California Project Number: 298931

Logs

Log of Boring DPE-1

Project Number: 298931		Sheet I OF I			
Date(s) Drilled 11/15/11	Logged By Bryan Campbell	Checked By Bryan Campbell			
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 16 feet bgs			
Project Number: 298931 Date(s) 11/15/11 Drilling Method Hollow Stem Auger Drill Rig Type Geoprobe 6620D	Drilling Contractor RSI Drilling	Surface Elevation			
and Date Measured	Sampling Method(s) Direct-Push Sampler	. Hammer Data			
	Location 1630 Park Street, Alar	meda, California			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	MATERIAL DESCRIPTION It Fine sand, minor gravel up to 1 cm, weak, angula moist. and: Fine sand, brown, weak, low plasticity fines, or change to olive. or change to brown. n of Boring at 16 feet bgs	ar gravel, nonplastic			
		Plate			

Depth, feet Sample PID Reading (ppm)	USCS Symbol Graphic Log	MATERIAL DESCRIPTION	Well Log	Remarks
	Asphalt _ SP _ 	Asphalt Sand: Fine sand, minor gravel up to 1 cm, weak, angular gravel, nonplastic fines, moist.		- Well Box - Neat Cement Grout - Blank, Schedule 40 PVC, 4-inch
5 32 - 2600 -				-Bentonite Chips
2500 - - 73		✓ Color change to olive. −		#2/12 Sand Screen with 0.010 Slot, Schedule 40 PVC, 4-inch
5 62		Color change to brown. — Bottom of Boring at 16 feet bgs		·10-inch borehole
5				
,] []	
				Plate

Log of Boring DPE-2

Project Number: 298931		Sheet	1 of 1
Date(s) Drilled 11/15/11	Logged By Bryan Campbell	Checked By Brya	an Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 16 fe	et bgs
Drill Rig Type Geoprobe 6620D	Drilling Contractor RSI Drilling	Surface Elevation	
Groundwater Level and Date Measured	Sampling Method(s) Direct-Push Sampler	Hammer Data	
Borehole Backfill Well Completion	Location 1630 Park Street, Alam	eda, California	
Depth, feet Sample PID Reading (ppm) USCS Symbol Graphic Log	MATERIAL DESCRIPTION	Well Log	Remarks
Concrete Silty Sar	e d: Fine sand, weak, brown, nonplastic fines, mo	ist	- Well Box - Neat Cement Grout - Blank, Schedule 40 PVC, 4-inch - Bentonite Chips
1800	change to olive.		#2/12 Sand Screen with 0.010 Slot, Schedule 40 PVC, 4-inch

Printed with a trial version of BorinGS - visit www.gookinsoftware.com for purchase information: X:PROJECTS/CHARACTERIZATION & REMEDIATION/DUE DIL/298931 PH II (Buestad Foley St) Alameda - AA/(D) - Rem Well InstallBoring Logs/298931 Logs.bgs [Well Log on Left.t

7

7

15

20

25

30

V

Color change to brown.

Bottom of Boring at 16 feet bgs

10-inch Borehole

Log of Boring DPE-3

Project Number: 2	298931			Sneet	
Date(s) Drilled 11/14/11		Logged By Bryan Campbell	Check	ed By Brya	n Campbell
Drilling Method Hollow Stem A	uger	Drill Bit Size/Type 10 inch	Total I of Bore	Depth ehole 16 fee	et bgs
Drill Rig Type Geoprobe 662	0D	Drilling Contractor RSI Drilling		e Elevation	
Groundwater Level and Date Measured		Sampling Method(s) Direct-Push Sampl	er Hamm Data	er	
Borehole Backfill Well Complet	ion	Location 1630 Park Street, A	ameda, California		
	USCS Symbol Graphic Log	MATERIAL DESCRIPTIC)N	Well Log	Remarks
	SM	sphalt Gravel with Sand: Gravel up to 3 cm, olive, weak, an ry. Visqueen plastic sheeting noted. Ity Sand: Fine sand, weak, brown, low plastic fines Color change to olive. Color change to brown. Fortom of Boring at 16 feet bgs			- Well Box - Neat Cement Grout - Blank, Schedule 40 PVC, 4-in - Bentonite Chips - #2/12 Sand - Screen with 0.010 Slot, Schedule 40 PVC, 4-inch - 10-inch Borehole
30				-	
					Plate

Depth, feet	Sample	PID Reading (ppm)	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Well Log	Remarks
-			Asphalt _GW_ 		Asphalt Gravel with Sand: Gravel up to 3 cm, olive, weak, angular, nonplastic fines, dry.		- Well Box - Neat Cement Grout
- - 5			 		 Visqueen plastic sheeting noted. Silty Sand: Fine sand, weak, brown, low plastic fines, moist. 		-Blank, Schedule 40 PVC, 4-inch
_		154			$\sqrt[V]{}$ Color change to olive.		Bentonite Chips
 10—_	\leq	1415					#2/12 Sand
	X	336 13					Screen with 0.010 Slot, Schedule 40 PVC, 4-inch
 15	\times	15			✓ Color change to brown.		10-inch Borehole
_				-	Bottom of Boring at 16 feet bgs	-	
20				-		-	
_				-		-	
25— _				-		-	
-				-		_	
30			L	1		_1	1
							Plate

Log of Boring DPE-4

Date(s) Drilled January 19, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling	Drill Bit	Total Depth
Method Hollow Stem Auger	Size/Type 10 inch	of Borehole 17 feet bgs
Drill Rig	Drilling	Approximate
Type MARL 5T	Contractor Gregg Drilling	Surface Elevation
Groundwater Level 9.12 feet measured on	Sampling	Hammer
and Date Measured 1/23/12	Method(s) Direct-Push Sampler	Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, C	alifornia

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					Concre	ti v	Concrete and Fill	-
-	-							No recovery.	-
-	-	1							-
-	-								
-	-	1							-
-	5	1				SP	<u>.</u>	Light yellowish brown sand, medium density.	-
-	-	1							
1	-	X	PE-4-	7					
	_								
	10	×	PE-4-	9		SM		Green, loosse silty sand, wet, (20-30% silt), hydrocarbon odor, fine grained sand.	
_	-								
_	-								-
_	-		PE-4-'	13					-
_	15	1							-
_	-	Þø	PE-4-'	16				Dettern of Daving at 10 feet has	-
-	-	-						Bottom of Boring at 16 feet bgs	-
-	-	-							
-	-	-							-
-	20	-							-
-	-	-							
-	-	1							
-	-	1							
-	-	1							
-	25	1							-
-	-	1							
-	-	1							-
-	-	1							
-	20	1							
	30								Figure
									Figure

Log of Boring DPE-5

Date(s) Drilled January 20, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type MARL 5T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 8.85 feet measured on and Date Measured 1/23/12	Sampling Method(s) Direct-Push Sampler	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, C	alifornia

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log		REMARKS AN
Ē,	ے —0	ŝ	őź	Sand Sand				MATERIAL DESCRIPTION	OTHER TEST
_	_				(Concret SM		Concrete and Fill Sandy silt, black/pale brown	-
_	_								-
_	-								-
_	-								-
_	5					SM			-
_	-					SIVI		Silty sand, brown (7.5YR 4/4), moderately loose, 40% silt.	-
_	-								-
_	-)PE-5-	8		SM		Cond with all (2001) years dark growich brown (50 2/0) moderately loops years	-
-	-		1 2 0	Ĭ				Sand with silt (30%), very dark greyish brown (5G 3/2), moderately loose, very – moist to wet, hydrocarbon odor. 1/23/12 ≝	
_	10								
-	-	Þ	PE-5-1	1		SM		→ Sheen observed	-
-	-								-
-	-								
-	-	×	PE-5-1	4		SM		silty, clayeye sand, yellowish brown, wet, no plasticity.	
	15—								
-	-								-
-	-		PE-5-1	8					
-	-						511795175	Bottom of Boring at 18 feet bgs	-
-	-								
	20								
	-								
	_								
	-								
_	25								
_									
_	-								-
_	-								1
-	-								-
	30								
									Figure

Log of Boring DPE-6

Date(s) Drilled January 19, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type MARL 5T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 8.59 feet measured on and Date Measured 1/23/12	Sampling Method(s) Direct-Push Sampler	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, Ca	alifornia

Elevation, reet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log		REMARKS A OTHER TES
– –	0 	S	σz	or o		⊃ Concret		MATERIAL DESCRIPTION Concrete and Fill No recovery.	UTHER TES
-	_ 5 _		PE-6-	7		SP SM		Fine grained sand, borwn (7.5YR 4/4) Silty sand with (20-30% clay), dark yellowish brown (10YR 3/6), moderate plasticity, firable.	
_	- - 10		PE-6-1			SM		Sand with 30% silt, greyish green (5G 4/2), moderately loose, moist, hydrocatboo 2	
-	- - 15	R	PE-6-1	1 4		SM		V Yellowish brown 10YR 5/6	
_						SM		Silty sand, yellowish brown, no plasticity, saturated, loose.	
	20 — –								
-	_ 25— _								
_	- - 30								
									Figure

Log of Boring DPE-7

Date(s) Drilled January 19, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type MARL 5T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level and Date Measured 14 feet ATD	Sampling Method(s) Direct-Push Sampler	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda,	California

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log		REMARKS AN
	0 - -	S	νz	SRJ	RO	⊃ Asphal		Asphalt and Fill No recovery.	OTHER TEST
-	5	×	PE-7-	6		SM		Silty sand (20% silt), strong brown, moderately loose, slightly moist.	-
_ _ 1 _	- - 10	ZQI	PE-7-1	0		SP SM		Becomes mottled brown (10YR 5/3) and greenish grey (5GY 5/1), hydrocarbon odor. Poorly graded sand, dark greenish grey (5G 4/1), medium density.	-
- - - 1	- - 15	æ	E-7-14	4.5		SM			
2	- - 20	∑QI	PE-7-1	8				Bottom of Boring at 18 feet bgs. Well not set.	-
_ _ _ _ 2	_ _ _ 25—							- · · · · · · · · · · · · · · · · · · ·	-
_ _ _ _	- - - 30							- · · · · · · · · · · · · · · · · · · ·	-
- 3									Figure

Log of Boring DPE-8

Date(s) Drilled January 20, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling	Drill Bit	Total Depth
Method Hollow Stem Auger	Size/Type 10 inch	of Borehole 18 feet bgs
Drill Rig	Drilling	Approximate
Type MARL 10T	Contractor Gregg Drilling	Surface Elevation
Groundwater Level 8.21 feet measured on	Sampling	Hammer
and Date Measured 1/23/12	Method(s)	Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, Califor	nia

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log		REMARKS ANI
Ele	Del Del	Sar	Sar Nui	Do e a				MATERIAL DESCRIPTION	OTHER TESTS
_	_					Asphal		Asphalt and Fill Well Not Logged.	
-	_								
	_								
_	5								
-	-								
	_							 	
-	_								
	10								
	_								
-	_								
-	-								
_	15								-
_	-								
_	-							Bottom of Boring at 18 feet bgs	
_	20—								
-	-								
	-								
_	_								
	25—								
	-								
_	_							-	
-	_								
	30—			<u> </u>		1	1		Figure

Log of Boring DPE-9

Date(s) Drilled January 20, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type MARL 10T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 8.16 feet measured on and Date Measured 1/23/12	Sampling Method(s)	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, Califor	nia

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log		REMARKS ANI
Ele	Del 0	Sar	Sar Nui	Do Rear Do Rear				MATERIAL DESCRIPTION	OTHER TESTS
	0					Asphal		Asphalt and Fill	
	_							Well Not Logged.	
-	-								
-	-								
-	5								
-	-								
	-								
	_							1/23/12 ≝	
_	10								
-	-								
-	-								
-	-								
1	-								
	15								
	_								
_	_							Bottom of Boring at 18 feet bgs	
-	-								
	20								
-	-								
1	_								
	_								-
_	25								
4	-								
+	-								
-	-								
1	-								
_	30								Figure

Log of Boring DPE-10

Date(s) Drilled January 20, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 17 feet bgs
Drill Rig Type MARL 10T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 8.32 feet measured on and Date Measured 1/23/12	Sampling Method(s)	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, Califor	nia

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log		REMARKS AND
□ - -	0 -	Š	ΰŻ	ũ X I		Asphal		Asphalt and Fill Well Not Logged.	OTHER TESTS
_	- 5—	-							-
-	- - 10								-
-	-								-
	15— - -							Bottom of Boring at 17 feet bgs	-
_	- 20— -							 	-
_	- - 25— -								
_	- - 30—								-
									Figure

Log of Boring DPE-11

Date(s) Drilled January 20, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type MARL 10T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 8.79 feet measured on and Date Measured 1/23/12	Sampling Method(s)	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, Califor	nia

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log		REMARKS AND
Ele	De 0	Sa	Sal Nu	Sal blo	Co			MATERIAL DESCRIPTION	OTHER TESTS
	0					Asphal		Asphalt and Fill	
_	_							Well Not Logged.	
_	_								
_	-								
	5								
_	_								
	_								-
_	_							1/23/12 ≝	
	10								
-	-								
_	_								
	_								
	15								
_	_								
_	-								
_	-							Bottom of Boring at 18 feet bgs	-
_									
_	20								
_	_								
-	-								
-	-								
	25								
_	_								
	_								
_	_								-
	30								
									Figure
	30								Figure

Log of Boring AEI-20

Date(s) Drilled January 17, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling	Drill Bit	Total Depth
Method Direct Push	Size/Type 2 inch	of Borehole 15 feet bgs
Drill Rig	Drilling	Approximate
Type Limited Access	Contractor ECA	Surface Elevation
Groundwater Level	Sampling	Well
and Date Measured 11.3 feet ATD	Method(s) Direct-Push Sampler	Permit. W2012-0024
Borehole Backfill Neat Cement	Location 1630 Park Street, Alameda, (California

Lievauori, ieer Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log		PID Reading, ppm	
	Sa	Nu Nu	SU	Ö	MATERIAL DESCRIPTION]Id	REMARKS AND OTHER TES
0			Asphalt		Conrete and Fill		-
	-		SM		Silty sand, mottled reddish brown, coarse grained, brittle.		
	XA	EI-20-3.5	SP		Poorly graded, fine grained sand, light brown, moderately loose.	<1	
- 5			SW	· · · · · · · · · · · · · · · · · · ·	Medium to coarse grained sand, yellowish red, moderately loose.		
	A	El-20-7.5	SM		Silty sand, (20% silt), mottled greenish grey and light grey, moderately soft and loose, hydrocarbon odors.	78.1	
- 10 	A	EI-20-11			(ATD) ≚	104.3	
			SP		Fine grained sand, yellowish brown, moist to wet, compact.		
- 15 		EI-20-15		-	Bottom of Boring at 15 feet bgs. Groundwater sample collected.	26.7	
	-			-			
							Figure

Log of Boring AEI-21

Date(s) Drilled January 17, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Direct Push	Drill Bit Size/Type 2 inch	Total Depth of Borehole 14 feet bgs
Drill Rig Type Limited Access	Drilling Contractor ECA	Approximate Surface Elevation
Groundwater Level and Date Measured 10.7 feet ATD	Sampling Method(s) Direct-Push Sampler	Well Permit. W2012-0024
Borehole Backfill Neat Cement	Location 1630 Park Street, Alameda, Califor	nia

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log		PID Reading, ppm	
Ξ	ے —0	ů	ΰź			MATERIAL DESCRIPTION	E B	REMARKS AND OTHER TEST
	U			Asphalt		Conrete and Fill		_
-	-			SM		_ Silty sand, dark brown and mottled red, hard.	_	
_	_			SM		Becomes yellowish brown, fine grained, cohesive, friable.	1	-
_	_		AEI-21-3	SM		Decomon fine to medium grained cond	<1	_
_	5			Civi		Becomes fine to medium grained sand. 	-	
_	-	X	AEI-21-7			-	<1	
_	10—	\times	AEI-21-9	SM		Silty sand (20% silt), greyish green, non-plastic. —	32.9	
_	_	\times	AEI-21-11			_ (/	ATD) <u>¥</u> 61.5	
-	-			SP		Sand, yellowish brown, wet, hard, friable, cohesive.	-	
-	-	X	AEI-21-14		lan (* 165) National	Bottom of Boring at 14 feet bgs. Groundwater Sample Collected.	17.9	-
-	15—				-	_	_	
_	_					-	_	
-	-				-	-	_	
	_ 20—					_	-	
	_							Figure

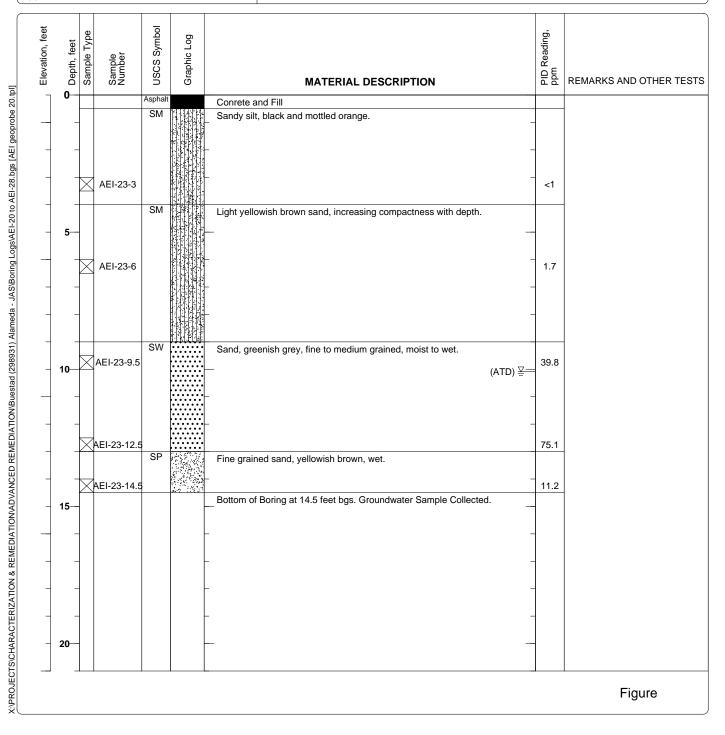
Log of Boring AEI-22

Date(s) Drilled January 17, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling	Drill Bit	Total Depth
Method Direct Push	Size/Type 2 inch	of Borehole 15 feet bgs
Drill Rig	Drilling	Approximate
Type Limited Access	Contractor ECA	Surface Elevation
Groundwater Level	Sampling	Well
and Date Measured 10.9 feet ATD	Method(s) Direct-Push Sampler	Permit. W2012-0024
Borehole Backfill Neat Cement	Location 1630 Park Street, Alameda, G	California

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log		PID Reading, ppm	
Ele		Sa	Nu	ns	Ű	MATERIAL DESCRIPTION	D dd	REMARKS AND OTHER TEST
	0			Asphalt		Conrete and Fill		
_	_			SM		_ Silty sand, dark brown and mottled reddish brown, hard, slightly friable		
	_	X	AEI-22-4	SM		Silty sand, dark yellowish brown, fine to medium grained, moist, loose, friable.	<1	
_	5—							
_	-	X	AEI-22-7	SM		Silty sand, yellowish red, fine grained sand, moderately loose.	<1	_
	_			SM				
_	_ 10—	\times	AEI-22-9	SIVI		_ Silty sand (20% silt), greenish grey, fine grained sand, non-plastic, wet	9.4	
_	_	\times	AEI-22-11			(ATD) ⊻	13.8	
_	_	\times	AEI-22-14	SM		Silty sand, light yellowish brown, non-plastic.	5.4	
	15—					Bottom of Boring at 15 feet bgs. Groundwater Sample Collected.		
_	-							
	_ 20—							
	_							Figure

Log of Boring AEI-23

Date(s) Drilled January 17, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling	Drill Bit	Total Depth
Method Direct Push	Size/Type 2 inch	of Borehole 14.5 feet bgs
Drill Rig	Drilling	Approximate
Type Limited Access	Contractor ECA	Surface Elevation
Groundwater Level	Sampling	Well
and Date Measured 10.09 feet ATD	Method(s) Direct-Push Sampler	Permit. W2012-0024
Borehole Backfill Neat Cement	Location 1630 Park Street, Alameda, G	California



Log of Boring AEI-24

Date(s) Drilled January 17, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling	Drill Bit	Total Depth
Method Direct Push	Size/Type 2 inch	of Borehole 16 feet bgs
Drill Rig	Drilling	Approximate
Type Limited Access	Contractor ECA	Surface Elevation
Groundwater Level	Sampling	Well
and Date Measured 11.4 feet ATD	Method(s) Direct-Push Sampler	Permit. W2012-0024
Borehole Backfill Neat Cement	Location 1630 Park Street, Alameda, G	California

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log		PID Reading, ppm	
ш		Sa	Nu			MATERIAL DESCRIPTION]]dd	REMARKS AND OTHER TEST
7	0			Asphalt		Conrete and Fill		-
-	-			SM		_ Sandy silt, black, friable, dry, trace subangular fine gravel. Non-plastic.		
	_	1						
-	-	$\left \right $					_	
			AEI-24-3.5				<1	
	-			SM		Silty sand, reddish yellowish brown, non-plastic, moist, slightly friable.		
_	5—	$\left \right $						
_	-	1						
_	-	\square	AEI-24-7					
		A	AEI-24-7				9.8	
-	-	1						
_	-			SM				-
				3171		Silty sand, light olive brown, moist, moderately loose.		
-	10—							
_	-	Þ	AEI-24-10.5				19.4	
						(ATD) 볼	-	
-	-			SW	0.01.1.4.0.1.0.0	Sand with trace gravel, reddish, yellowish brown, fine to medium grained,		
_	-					wet.		
		Å	AEI-24-13				<1	
-	-	1						
_	15—							
-	-					Bottom of Boring at 16 feet bgs. Groundwater Sample Collected.		
_	-						-	
-	-	1					1	
	_							
-	20—	1						
	-							
								Figure

Log of Boring AEI-25

Date(s) Drilled January 17, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling	Drill Bit	Total Depth
Method Direct Push	Size/Type 2 inch	of Borehole 15 feet bgs
Drill Rig	Drilling	Approximate
Type Limited Access	Contractor ECA	Surface Elevation
Groundwater Level	Sampling	Well
and Date Measured 10.8 feet ATD	Method(s) Direct-Push Sampler	Permit. W2012-0024
Borehole Backfill Neat Cement	Location 1630 Park Street, Alameda, (California

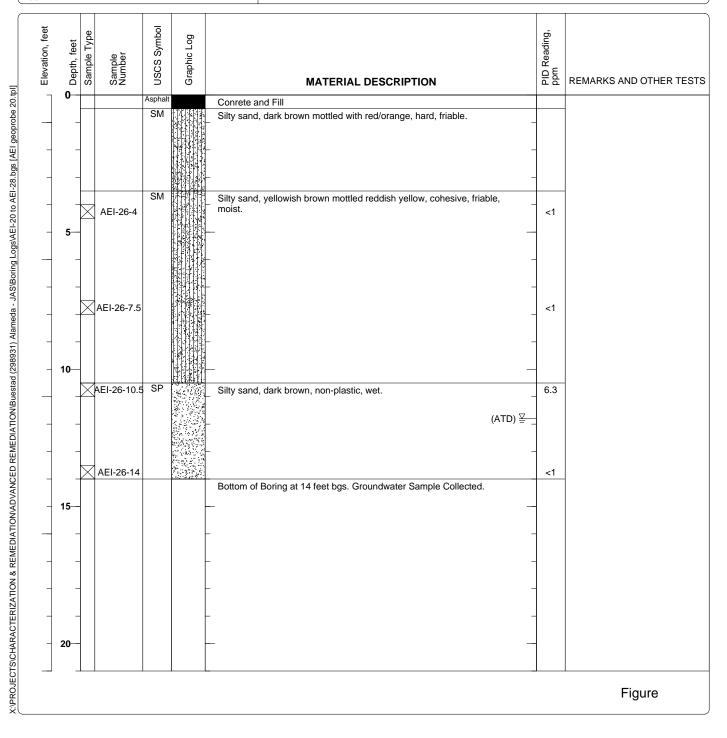
Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log		PID Reading, ppm	
Ξ	0	Ő	ΰZ			MATERIAL DESCRIPTION	a a	REMARKS AND OTHER TEST
	Ŭ	\vdash		Asphalt SM		Conrete and Fill Sandy silt, black mottled with red/orange, slightly friable, dry, cohesive.		-
-	-	-		Civi		- Sandy sin, black monied with red/brange, signify mable, dry, conesive	-	
				SM		Silty sand, reddish yellowish brown, moist		
_	5 -		AEI-25-4				<1	
	_		AEI-25-7.5	SP		Fine to medium grained sand, yellowish brown, moist, wet at 12 feet.	<1	
_	- 10— - -		AEI-25-10	SM		(ATD) ऱ 	23.2	
				0101		Sitty sand, reddish yellow, fine to medium grained, non-plastic, wet, expansive.		
-	_	\boxtimes	AEI-25-14				<1	
_	15—				因對私業	Bottom of Boring at 15 feet bgs. Groundwater Sample Collected.	-	
-	-						-	
-	-						-	
	20—	1					1	
	-			<u> </u>			<u>I</u>	Figure

Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931

Log of Boring AEI-26

Sheet 1 of 1

Date(s) Drilled January 17, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell	
Drilling Method Direct Push	Drill Bit Size/Type 2 inch	Total Depth of Borehole 14 feet bgs	
Drill Rig Type Limited Access	Drilling Contractor ECA	Approximate Surface Elevation	
Groundwater Level and Date Measured 11.8 feet ATD	Sampling Method(s) Direct-Push Sampler	Well Permit. W2012-0024	
Borehole Backfill Neat Cement	Location 1630 Park Street, Alameda, C	Location 1630 Park Street, Alameda, California	

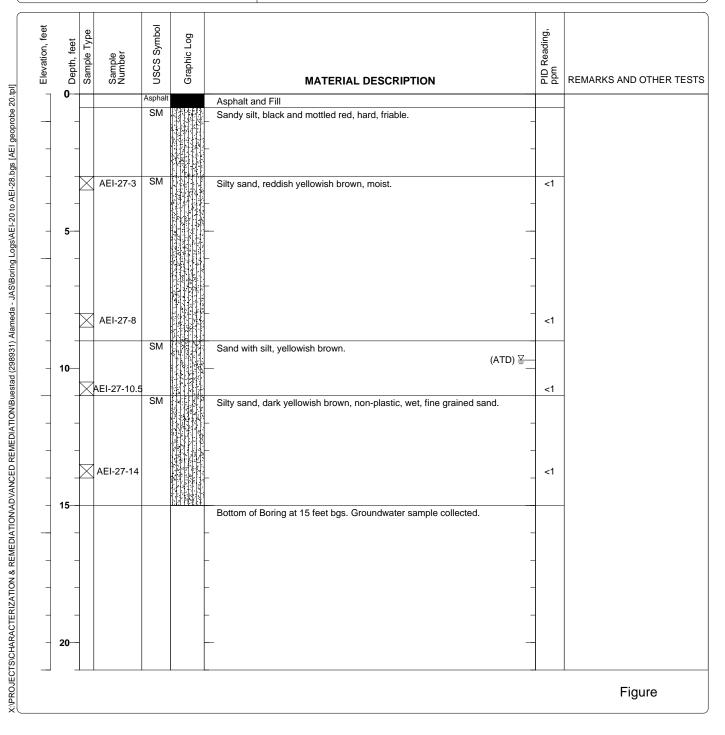


Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931

Log of Boring AEI-27

Sheet 1 of 1

Date(s) Drilled January 17, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell	
Drilling	Drill Bit	Total Depth	
Method Direct Push	Size/Type 2 inch	of Borehole 15 feet bgs	
Drill Rig	Drilling	Approximate	
Type Limited Access	Contractor ECA	Surface Elevation	
Groundwater Level	Sampling	Well	
and Date Measured 9.7 feet ATD	Method(s) Direct-Push Sampler	Permit. W2012-0024	
Borehole Backfill Neat Cement	Location 1630 Park Street, Alameda, California		

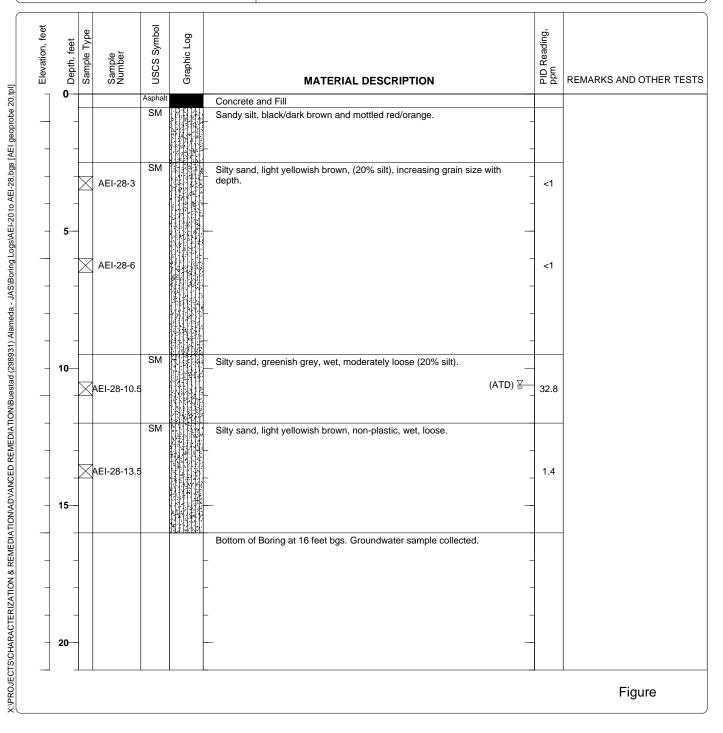


Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931

Log of Boring AEI-28

Sheet 1 of 1

Date(s) Drilled January 17, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Direct Push	Drill Bit Size/Type 2 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type Limited Access	Drilling Contractor ECA	Approximate Surface Elevation
Groundwater Level and Date Measured 10.61 feet ATD	Sampling Method(s) Direct-Push Sampler	Well Permit. W2012-0024
Borehole Backfill Neat Cement	Location 1630 Park Street, Alameda, California	



APPENDIX B

PERMITS

Public Works

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

Application Approved on: 10/14/2011 By jamesy

Permit Numbers: W2011-0645 Permits Valid from 10/25/2011 to 10/28/2011

Application Id: Site Location: Project Start Date: Assigned Inspector:	1318617380568 1630 Park Street 10/25/2011 Contact Vicky Hamlin at (510) 670-5443 or vickyh	City of Project Site:Alameda Completion Date:10/28/2011 @acpwa.org
Applicant:	AEI Consultants - Peter McIntyre	Phone: 925-746-6004
Property Owner:	2500 Camino Diablo, Walnut Čreek, CA 94597 John Buestad 2533 Clement Avenue, Alameda, CA 94501	Phone: 510-523-1925
Client:	** same as Property Owner **	
Contact:	Peter McIntyre	Phone: Cell:

	Total Due:	\$265.00
Receipt Number: WR2011-0303	Total Amount Paid:	\$265.00
Payer Name : Peter J McIntyre	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Remediation Well Construction-Extraction - 4 Wells Driller: Penecore Drilling - Lic #: 906899 - Method: hstem

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2011- 0645	10/14/2011	01/23/2012	AS-1	8.50 in.	2.00 in.	15.00 ft	25.00 ft
W2011- 0645	10/14/2011	01/23/2012	DPE-1	10.25 in.	4.00 in.	6.00 ft	15.00 ft
W2011- 0645	10/14/2011	01/23/2012	DPE-2	10.25 in.	4.00 in.	6.00 ft	15.00 ft
W2011- 0645	10/14/2011	01/23/2012	DPE-3	10.25 in.	4.00 in.	6.00 ft	15.00 ft

Specific Work Permit Conditions

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

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

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

Work Total: \$265.00

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

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

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

9. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

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

Permit Numbers: W2012-0055 Application Approved on: 01/17/2012 By jamesy Permits Valid from 01/19/2012 to 01/20/2012 City of Project Site: Alameda Application Id: 1326407523588 Site Location: 1600-1630 Park Street 01/19/2012 **Project Start Date:** Completion Date:01/20/2012 Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org **Applicant:** Harmony - Harmony Tomsun Phone: 925-746-6000 x141 2500 Camino Diablo, Walnut Creek, CA 94597 **Property Owner:** John Buono Phone: --1630 Park Street, Alameda, CA 94501 Client: ** same as Property Owner ** Total Due: \$265.00

Receipt Number: WR2012-0017	Total Amount Paid:	\$265.00
Payer Name : Harmony Tomsun	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Specifications

Remediation Well Construction-Extraction - 8 Wells Driller: Gregg Drilling and Testing, Inc. - Lic #: 485165 - Method: hstem

Work Total: \$265.00

Specification	115						
Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2012- 0055	01/17/2012	04/18/2012	VPE-10	10.00 in.	4.00 in.	6.00 ft	18.00 ft
W2012- 0055	01/17/2012	04/18/2012	VPE-11	10.00 in.	4.00 in.	6.00 ft	18.00 ft
W2012- 0055	01/17/2012	04/18/2012	VPE-4	10.00 in.	4.00 in.	6.00 ft	18.00 ft
W2012- 0055	01/17/2012	04/18/2012	VPE-5	10.00 in.	4.00 in.	6.00 ft	18.00 ft
W2012- 0055	01/17/2012	04/18/2012	VPE-6	10.00 in.	4.00 in.	6.00 ft	18.00 ft
W2012- 0055	01/17/2012	04/18/2012	VPE-7	10.00 in.	4.00 in.	6.00 ft	18.00 ft
W2012- 0055	01/17/2012	04/18/2012	VPE-8	10.00 in.	4.00 in.	6.00 ft	18.00 ft
W2012- 0055	01/17/2012	04/18/2012	VPE-9	10.00 in.	4.00 in.	6.00 ft	18.00 ft

Specific Work Permit Conditions

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

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

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

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

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).

7. Minimum surface seal thickness is two inches of cement grout placed by tremie.

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

9. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

PUBLIC	399 Elmhurst Street Hayward, CA 94544-139 Telephone: (510)670-6633 Fax:(5			
Application Approved	l on: 01/09/2012 By jamesy	Permit Numbers: W2012-0024 Permits Valid from 01/17/2012 to 01/17/2012		
Application Id: Site Location:	1326137781054 1600-1630 Park Street	City of Project Site: Alameda		
Project Start Date: Assigned Inspector:	01/17/2012 Contact Vicky Hamlin at (510) 670-5443 or vicky	Completion Date:01/17/2012 yh@acpwa.org		
Applicant:	AEI Consultants - Harmony TomSun 2500 Camino Diablo, Walnut Creek, CA 94597	Phone: 925-746-6000 x141		
Property Owner:	John Buono	Phone: 510-523-5260		
Client:	1630 Park Street, Alameda, CA 94501 ** same as Property Owner **			
	Receipt Number: WR2012-0011 Payer Name : Harmony Tomsun	Total Due:\$265.00Total Amount Paid:\$265.00Paid By: VISAPAID IN FULL		

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 10 Boreholes Driller: Environmental Control Associates - Lic #: 695970 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2012-	01/09/2012	04/16/2012		2.00 in.	20.00 ft
0024					

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

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

4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

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

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and

coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX C

LABORATORY ANALYTICAL DATA



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; Buestad	Date Sampled:	11/14/11-11/15/11
2500 Camino Diablo, Ste. #200		Date Received:	11/16/11
2000 Cullino Diaoto, 500. #200	Client Contact: Bryan Campbell	Date Reported:	11/22/11
Walnut Creek, CA 94597	Client P.O.: #WC083348	Date Completed:	11/22/11

WorkOrder: 1111541

November 22, 2011

Dear Bryan:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#298931; Buestad,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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.

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- 10	repriore. (87	1) 232-92	202		гах	. (92	5) 2	54-	920;								i inter 23		ū											is required
Report To: Bryan	and the second			Bill T			_								_	_		An	alysi	s Re	que	st	_					Other	r	Comments
Company: AEI (Consultants,	2500 Ca	mino Dia	ablo,	Waln	ut C	reel	, C.	A 94	459	7		_	EPA 8015MX																**Indicate
PO#: W083348													_	151																here if these
Global ID:			E	-Mai	l: bca	mpb	ell@	aei	con	sult	tant	s.co	m	1 80																samples are
Tele: (925) 746-	6044		1	Fax:	(925)	746-	609	9						EP																potentially
Project #: 298931					ct Na	me:	Bue	stad	1					mo by																dangerous to
Project Location:	1630 Park S	treet, Al	lameda,	Calif	ornia									ũ	8021															handle:
Sampler Signatur	re:	-	-										_	and	EPA															
		SAM	PLING		s		MA	TRI	IX		ME' RES			diesel	by E															
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	ICE	HCL	HNO3	Other	TPH as gasoline, o	MTBE and BTEX by	DIDH														
OPE-1,5-5.5		1/15/11	911	1	Tute		x			X						X											T			
DPE-1,7-7.5		1	912	1			x			2				X	X												T			
OPE-1, 9.5-10			915	1			x			X	Ì	-		-	-	N											T			
DPE-1, 12-1215			917				V	-	-	-r		-		-		2		-	-	-	-	-			-	-	+			
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OPE-1, 13.5-14				1	-		~	-	-	ĸ	8	-			-	5			+	-	-	-		-	-	-	+			
OPE-1, 15.5-16			921	1			X	-	-	1	1	-			-			-	-	-	-	-		_	-	-	+	_		
DPE-2,5-5.5			1321				X			V						X		_							-					
DPE-1, 8-8.5			1322				X			X				×	X															
DBE-2, 11.5-12			1323				X			X						X														
OPE-2,13.5-14			1324				x			X	1					X														
OFE-2,155-16			1325		V		Ŕ			X						X														
**MAI clients MUST gloved, open air, samp allowing us to work sa Relinquished By: Relinquished By:	ole handling by i	Date: <i>I</i> // <i>I</i> /// Date: <i>U</i> / <i>I</i> / <i>I</i> /// Date: <i>U</i> / <i>I</i> / <i>I</i> //	Non-discle Time: }00 Time:	Rec	eived E	n imi G	medi	ate S	250 \$	surc	harg	e an	d the	clie IC GC HE DE	E/t°_DOD	SPA LOR	that may ca ect to full le <u>U</u> NDITION_ CE ABSEN INATED IN ATE CONT	gal lia	ibility	for I	harm	or so	erious ered.	futur Than	ik you	alth ei u for y	your	unders	nt as stan	a result of brief, ding and for
Relinquished By:	~	Date:	<i>1535</i> Time:	Rec	eived B	ky:	V		X			-	-	PR	ESE	RVI	D IN LAB	s (-	MI		LS	отн	ER						

Well	osite: <u>www.mc</u> ephone: (877	1534 WII PITTSBU campbel	LOW PA RG, CA 94 Lcom En 62	SS RC 4565-1 nail: r	DAD 701 nain@ Fax:	meea	mpl	oell.o	com							N AI	ROI	JNI EDI	DT F C		E PD Che	F	RU:	SH E	24 xce			48 H Writ	e Or I "J"	72 F n (E flag	W) 🖵 is required
Report To: Bryan				Bill T									-		-	_	_	1	Anal	ysis	Rec	ues	st	_	_	_		\rightarrow	Oth	er	Comments
Company: AEI C	onsultants, 2	2500 Car	nino Dia	blo,	Walnu	ut Cr	eek	, CA	194	597	_		1	EFA 8015M7																	**Indicate
PO#: W083348													_	NCI I																	here if these
Global ID:			E-	Mail	: bear	npbe	ell@	aeic	ons	ulta	nts.	com		1 20																	samples are
Tele: (925) 746-0	5044		F	ax:	(925)	746-	6099)					_ 6																		potentially
Project #: 298931			P	roje	ct Nar	ne: I	Bues	tad						è.	_																dangerous to
Project Location:	1630 Park S	treet, Al	ameda, (Calif	ornia									ou	1709																handle:
Sampler Signatur	e:	/	1												ž																
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		SAM	LING		S	-	IAI	KI.	•	PR	ESE	RVE	D :	die	0 V																
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	ICE	HCL	HNO3	Other	TPH as gasoline, diesel	MIBE AND BLEA DY EFA	HOLD															
DPE-3.6.6.5		1/14/11	1042	1	Tuse		X			X						X															
OPE-3 8-8.5		1	1048	1		ľ	X	-		x				ZX	7ľ		+	-							1						
OPE-3, 11-11.5			1052		-		x	+	+	C		+	-			X	+	-	-				-			-					
DPE-7, 12-12-5			1053	i.	+	1	x	+	-	☆		-	+	+	-1	2	+	-					-	-		-			-	-	
DPE3 15.5-16			-	<u>'</u>	\vdash	ľ	V	+	+	12		+	+	+	1		+	-	-	-		-	-	-	-	-			-	-	
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AS-1 21.5-22			1432	'			4	_	-			_	+	_		\geq	-	-				-	-	-	-	-			_	_	
AS-1, 24.5-25		V	1456	1	V	6	X			X						X											-		_		
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**MAI clients MUST gloved, open air, samp allowing us to work sa	le handling by l		Non-disclo	osure i		ın imr	nedia	te S2	250 s	urch	arge	and	the c	lient	is s	ubject															
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																									HER						

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McCampbell Analytical, Inc. 1534 Willow Pass Rd Pittsburg, CA 94565-1701



Page 1 of 1

(925) 252-9262				WorkOr	der: 1111541	1 ClientC	ode: AEL		
	WaterTrax	WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	☐ J-flag
Report to:				Bill	to:		Req	uested TAT:	5 days
Bryan Campbell	Email:	bcampbell@aeic	onsultants.com		Sara Guerin				
AEI Consultants	cc:				AEI Consulta	ants			
2500 Camino Diablo, Ste. #200	PO:	#WC083348			2500 Camino	o Diablo, Ste. #200	Dat	e Received:	11/16/2011
Walnut Creek, CA 94597	ProjectNo:	#298931; Buesta	ld		Walnut Cree	ek, CA 94597	Dat	e Printed:	11/16/2011
(408) 559-7600 FAX: (408) 559-7601					sguerin@aei	iconsultants.com			

					Requested Tests (See legend below)												
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	1	5	6	7	8	9	10	11	12
1111541-002	DPE-1, 7-7.5	Soil	11/15/2011 9:12		А	А											
1111541-008	DPE-2, 8-8.5	Soil	11/15/2011 13:22		А	А											
1111541-013	DPE-3, 8-8.5	Soil	11/14/2011 10:48		А	А											

Test Legend:

1	G-MBTEX_S
6	
11	

2	TPH(DMO)WSG_S
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Melissa Valles

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 Ti	me Received:	11/16/2011	3:47:01 PM
Project Name:	#298931; Buestad				Check	klist co	ompleted and re	eviewed by:	Melissa Valles
WorkOrder N°:	1111541	Matrix: <u>Soil</u>			Carrie	er:	Derik Cartan (N	MAI Courier)	
		<u>Chain</u>	of Cu	ustody (COC) Informat	tion			
Chain of custody	present?		Yes	✓	No				
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No				
Chain of custody	agrees with sample la	bels?	Yes		No 🗌				
Sample IDs noted	d by Client on COC?		Yes	✓	No				
Date and Time of	collection noted by Cl	lient on COC?	Yes	✓	No				
Sampler's name	noted on COC?		Yes	✓	No				
		<u>S</u>	ample	e Receipt Info	ormation				
Custody seals int	act on shipping contai	ner/cooler?	Yes		No 🗌			NA 🔽	
Shipping containe	er/cooler in good condi	tion?	Yes	✓	No 🗌				
Samples in prope	er containers/bottles?		Yes		No				
Sample container	rs intact?		Yes		No				
Sufficient sample	volume for indicated t	est?	Yes		No				
		Sample Prese	rvatio	n and Hold 1	<u> Fime (HT)</u>	Infor	mation		
All samples recei	ved within holding time	e?	Yes	✓	No				
Container/Temp	Blank temperature		Coole	er Temp: 6°	С			NA	
Water - VOA vial	s have zero headspace	e / no bubbles?	Yes		No 🗌	No V	OA vials submi	itted 🗹	
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No				
Metal - pH accep	table upon receipt (pH	<2)?	Yes		No			NA 🗹	
Samples Receive	ed on Ice?		Yes		No				
		(Ісе Туре	: WE	TICE)					
* NOTE: If the "N	o" box is checked, see	e comments below.							
							=====		
Client contacted:		Date contacte	ed:				Contacted	by:	

Comments:

Ĵ	McCamp	bell . Then Qua			l <u>, Inc.</u>		oll Free Telepho	Pass Road, Pittsburg ne: (877) 252-9262 pbell.com / E-mail:	/ Fax: (925) 252	-9269		
AEI C	Consultants			Client F	Project ID:	#298931; B	Suestad	Date Sample	ed: 11/14	4/11-11	/15/11	
2500	Camino Diablo, Ste.	#200						Date Receiv	red: 11/10	6/11		
2000				Client C	Contact: Br	yan Campbe	211	Date Extract	ted: 11/1	6/11		
Walnu	ıt Creek, CA 94597			Client I	P.O.: #WC0	83348		Date Analyz	xed: 11/17	7/11-11	/18/11	
Extractio	Gas on method: SW5030B	oline Ra	ange (C	C6-C12)	-		as Gasoli 8W8021B/8015	ne with BTE	X and MTI		k Order:	1111541
Lab ID	Client ID	Matrix	TF	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
002A	DPE-1, 7-7.5	S	1	800	ND<50	9.7	64	29	150	1000	106	d1
008A	DPE-2, 8-8.5	S	2	200	ND<15	7.6	57	34	170	200	#	d1
013A	DPE-3, 8-8.5	S	2	000	ND<50	6.7	48	47	240	1000	#	d1
									1			

Reporting Limit for DF =1; ND means not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/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

See Mc	Campbell Anal ''When Quality Cou		C. Toll Free To	illow Pass Road, Pittsburg, CA elephone: (877) 252-9262 / Fax: nccampbell.com / E-mail: main@	(925) 252-9	9269	
AEI Consultant	S	Client Project	ID: #298931; Buestad	Date Sampled:	11/14	/11-11/1	5/11
2500 Comina D	Diablo, Ste. #200			Date Received:	11/16	/11	
2300 Camino D	Jiabio, Ste. #200	Client Contact	t: Bryan Campbell	Date Extracted:	11/16	/11	
Walnut Creek, G	CA 94597	Client P.O.: #	#WC083348	Date Analyzed:	11/19	/11-11/2	2/11
Extraction method: S			eum Hydrocarbons with S l methods: SW8015B	Silica Gel Clean-Up*	V	Vork Order:	1111541
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1111541-002A	DPE-1, 7-7.5	S	330	46	1	123	e4,e2
1111541-008A	DPE-2, 8-8.5	S	280	140	10	109	e4,e7,e2
1111541-013A	DPE-3, 8-8.5	S	1000	58	1	#	e4,e2,c2

Reporting Limit for DF =1; ND means not detected at or	W	NA	NA	ug/L
above the reporting limit	S	1.0	5.0	mg/Kg

* 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 / STLC / SPLP / TCLP extracts are reported in µg/L.

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.

%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:

c2) estimated value due to low surrogate recovery, caused by matrix interference.

e2) diesel range compounds are significant; no recognizable pattern

e4) gasoline range compounds are significant.

e7) oil range compounds are significant





QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil			QC Matrix	k: Soil			Batch	ID: 62742		WorkC	order: 11115	41
EPA Method: SW8021B/8015Bm	Extrac	tion: SW	5030B					S	Spiked Sam	ple ID:	1111449-0	02A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	1111449- Criteria (%	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	0.60	108	114	5.87	120	114	5.16	70 - 130	20	70 - 130	20
MTBE	ND	0.10	86.1	84.1	2.41	91.6	86.1	6.17	70 - 130	20	70 - 130	20
Benzene	ND	0.10	107	108	0.472	113	106	6.42	70 - 130	20	70 - 130	20
Toluene	ND	0.10	107	108	0.667	113	107	6.05	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	107	108	0.609	112	104	8.15	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	109	110	0.884	116	107	8.73	70 - 130	20	70 - 130	20
%SS:	112	0.10	97	91	6.18	93	86	7.89	70 - 130	20	70 - 130	20
All target compounds in the Method Blar NONE	nk of this extr	action bate	h were NE	less than	the method	RL with	the follow	ing exception	s:			

BATCH 62742 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111541-002A	11/15/11 9:12 AM	11/16/11	11/17/11 5:46 PM	1111541-008A	11/15/11 1:22 PM	11/16/11	11/18/11 11:57 PM
1111541-013A	11/14/11 10:48 AM	11/16/11	11/17/11 4:19 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.

£ 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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil			QC Matri	x: Soil			Batch	ID: 62820		WorkC	Order: 11115	41
EPA Method: SW8015B	Extrac	tion: SW	3550B/3	630C				S	piked Sam	ple ID:	1111541-0	13A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	1000	40	NR	NR	NR	102	99.5	2.20	70 - 130	30	70 - 130	30
%SS:	#	25	#	#	#	100	99	1.09	70 - 130	30	70 - 130	30
All target compounds in the Method NONE	Blank of this extr	action bate	h were NI	D less than	the method	RL with	the follow	ing exception	s:			

BATCH 62820 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111541-002A	11/15/11 9:12 AM	11/16/11	11/22/11 1:48 AM	1111541-008A	11/15/11 1:22 PM	11/16/11	11/19/11 12:12 AM
1111541-013A	11/14/11 10:48 AM	11/16/11	11/19/11 6:30 PM	1111541-013A	11/14/11 10:48 AM	11/16/11	11/21/11 10:31 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

K__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; Buestad	Date Sampled:	01/19/12-01/20/12
2500 Camino Diablo, Ste. #200		Date Received:	01/20/12
2000 Cumino Diacio, 500 #200	Client Contact: Bryan Campbell	Date Reported:	01/30/12
Walnut Creek, CA 94597	Client P.O.: #WC083432	Date Completed:	01/30/12

WorkOrder: 1201642

January 30, 2012

Dear Bryan:

Enclosed within are:

- 1) The results of the **9** analyzed samples from your project: **#298931; Buestad**,
- 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.

Wel Wel	osite: <u>www.mc</u>	1534 WII PITTSBU	LOW PAS RG, CA 94	S R0)AD 701 nain@	mcca	mpbe		m	.4	2							CH DUND r EDF) TI	MF	2	RU	SH	24	HR	4	8 HI	R	72 H	
	ephone: (877	*	62		Fax:	(925) 252	-920	09								CITC		C											is required
Report To: Harm			В	ill T	o: AE	I												A	naly	sis]	Requ	est						Ot	her	Comments
Company: AEI C			nino Dial	blo, '	Walnu	it Cr	eek, (CA	945	97				_				Sm												**Indicate
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Global ID:					l: hton			cons	sult	ant	s.co	m		A 80				801												samples are
Tele: (925) 746-	6000				(925)								_	EPA						3										potentially
Project #: 298931					ct Nar	ne: B	uesta	d						0 by	=			ept		5										dangerous to handle:
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	V	CSAMI	PLING		ya .	N	IATI	IX			IETH ESE		D ;	diesel	(ph	od 82		he		Q										
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	ICE	HCL	HNO ₃	Other	TPH as gasoline, d	MTBE and BTEX by	VOCs by EPA Method 8260	CAM 17 Metals	TPh - gavalin		grain Oze								Hold		
DPE-4-7'	DRE-4	1/19	2:15	1	liner		X			X																		X		
DRE- 4-9'	1	1	2:30		1	1	1			1										X										
DPE-4-13'			2:45										+							X										
DPE-4-16			3:00	H	++					+		-	+							Ŷ		-	-			-		+	-	
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DPE-5-18'			11:05						_				_	_			_					_						\square		
DPE-6-71	DPE-6	1/20	9:07																											
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Tele: (925) 746-	6000		I	Fax:	(925)	746	-609	9							EPA				Bul															potentially
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Project Location:				Calif	fornia										om	8021			ept															handle:
Sampler Signatur	Mana	u-		>	~										and	EPA 8			2															
		SAM	PLING				MA	TR	IX	Τ			IOD		sel	y El	826		0															
			1		ers			_		-	PRI	SEI	RVE	_	, die	XB	thod		2															
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other	TPH as gasoline,	MTBE and BTEX by	VOCs by EPA Method 8260	CAM 17 Metals	TPh-gaulin												Hold			
DPE - 7-6'	DPE-7	119	9:00	1	liner		Y				X		-	+							-	+	+	-	+	-	-	-	-	+	\checkmark	-	+	
NOG Z - IN	UPE-1	411			laner		r-	+	-	-	-	-	-	+		~		-	v			-	-	-	-	-	_			+	M	+	+	
DPE-7-10' DPE-7-14.5'			9:10	+			+	-		+	-	-	-	+	_	X	-		Х		_	-	-	_	-	_	_		_	-		_		
DPE-7-14.5'			9:25	11	\square		-	_		_		_	-	+	_	Х			Х		-						_		_					
DPE-7-18'		•			1																													
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				-			-	-	-	+	-	_	-	+	_		_			_			_		_	_		_		_	_			
**MAI clients MUST gloved, open air, samp allowing us to work sa	ie handling by r	gerous ch MAI staff.	emicals kn Non-disele	own t osure	to be pro incurs a	esent	in th medi	eir s ate	subm \$250	itte	d sa chai	mpl rge a	es in and	the o	ncen clier	itrati nt is s	ons t ubje	that i	may (full	cause legal l	imme liabilit	diat y fo	e har r har	m or m su	seri	ous i ed. 7	futur Chan	re he: k you	alth e u for	nda you	nger r un	ment	and	a result of brief, ing and for
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Relinquished By:	7	Date: Volie	Time:		ceived		_	0			1			1	DE/	CHL	ORI PRI/	NAT	ED I	N LA	B NERS													
Relinquished By:		Date:	Time:	Rec	cived B	y:												- AL																
V															PRI	ESEI	RVA	TIO		AS	0&G		AET. H<2	ALS	0	THE	R							

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						Work	Order:	12016	642	Cli	entCod	le: AEI					
		WaterTrax	writeOn	EDF]Excel	[Fax		Email		HardCo	ру	Thir	dParty	□ J-1	ilag
Report to:							Bill to:					F	Requ	ested T/	AT:	5	days
Bryan Campbell AEI Consultants 2500 Camino Diab Walnut Creek, CA (925) 746-6000	,	cc: PO: ProjectNo:	bcampbell@a #WC083432 #298931; Bue	eiconsultants.com stad	ו		AE 250 Wa	Inut Cr	ultants ino Dial eek, CA	olo, Ste. 94597 @AEICo		1		Receiv Printed		01/20/ 01/24/	
									Re	quested 1	ests (S	ee legend	d bel	ow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1201642-002	DPE-4-9'		Soil	1/19/2012 14:30			А										
1201642-003	DPE-4-13'		Soil	1/19/2012 14:45			Α										

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1/19/2012 15:00

1/20/2012 10:32

1/20/2012 10:45

1/20/2012 9:20

1/20/2012 9:30

1/19/2012 9:10

1/19/2012 9:25

Test Legend:

1201642-004

1201642-006

1201642-007

1201642-010

1201642-011

1201642-013

1201642-014

1	G-MBTEX_S
6	
11	

2	GRAINSIZE	
7		
12		

Soil

Soil

Soil

Soil

Soil

Soil

Soil

3	
8	

4	
9	

5	
10	

Prepared by: Melissa Valles

Comments: Entire sample subbed out for 002, 003, and 004

DPE-4-16'

DPE-5-11'

DPE-5-14'

DPE-6-10'

DPE-6-14'

DPE-7-10'

DPE-7-14.5'

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



Sample Receipt Checklist

Client Name:	AEI Consultants				Date	and Time Received:	1/20/2012 6	05:00 PM
Project Name:	#298931; Buestad				Chec	klist completed and re	eviewed by:	Melissa Valles
WorkOrder N°:	1201642	Matrix: <u>Soil</u>			Carrie	er: <u>Benjamin Ysla</u> s	s (MAI Courier)
		<u>Cha</u>	<u>in of Cւ</u>	<u>ustody (C</u>	OC) Informa	ation		
Chain of custody	present?		Yes	✓	No			
Chain of custody	signed when relinquis	hed 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 🗌			
			<u>Sample</u>	Receipt	Information	L		
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	<u>n and Ho</u>	<u>ld Time (HT)</u>	Information		
All samples rece	ived within holding tim	e?	Yes	✓	No 🗌			
Container/Temp	Blank temperature		Coole	er Temp:	7.8°C		NA	
Water - VOA vial	ls have zero headspac	e / no bubbles?	Yes		No 🗌	No VOA vials submi	itted 🗹	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No			
Metal - pH accep	otable upon receipt (p⊦	I<2)?	Yes		No 🗌		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No 🗌			
		(Ice Typ	e: WE	TICE)				
* NOTE: If the "N	lo" box is checked, se	e comments below.						

Comments:

	<u>McCamp</u>	obell A When Quali		al, Inc.		oll Free Telepho	Pass Road, Pittsburg ne: (877) 252-9262 pbell.com / E-mail: 1	/ Fax: (925) 252	2-9269		
AEI Co	onsultants		Client	Project ID:	#298931; B	uestad	Date Sample	ed: 01/1	9/12-01	/20/12	
2500 C	Camino Diablo, Ste	#200					Date Receiv	ed: 01/2	0/12		
2500 C		. 11200	Client	Contact: Br	yan Campbe	211	Date Extract	ed: 01/2	4/12		
Walnut	t Creek, CA 94597		Client	P.O.: #WC0	83432		Date Analyz	ed: 01/2	5/12-01	/27/12	
Extraction	Ga n method: SW5030B	soline Ran	nge (C6-C12)	-		as Gasoli 5W8021B/8015	ne with BTEX	X and MT		rk Order:	1201642
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
006A	DPE-5-11'	S	2300	ND<10	15	99	33	140	50	#	d7,d9
007A	DPE-5-14'	S	1.1	ND	ND	0.017	ND	0.016	1	108	d7
010A	DPE-6-10'	S	510	ND<1.0	ND<0.10	0.14	0.47	0.96	20	115	d7
011A	DPE-6-14'	S	ND	ND	ND	ND	ND	ND	1	111	
013A	DPE-7-10'	S	2200	ND<5.0	ND<0.50	16	47	240	100	#	d2,d9
014A	DPE-7-14.5'	S	610	ND<5.0	ND<0.50	3.9	9.5	55	100	#	d2
										1	
										1	
										1	
					1						
										ļ	

Reporting Limit for DF =1; ND means not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/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:

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

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

d9) no recognizable pattern



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil	QC Matrix:	Soil			BatchID	: 64185	WorkOrder: 1201642					
EPA Method: SW8021B/8015Bm Extraction: S	W5030B						Spiked Sam	ple ID:	1201470-010A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS			
TPH(btex) [£]	ND	0.60	82.5	81.1	1.77	81.9	70 - 130	20	70 - 130			
MTBE	ND	0.10	118	113	4.26	116	70 - 130	20	70 - 130			
Benzene	ND	0.10	104	102	1.62	102	70 - 130	20	70 - 130			
Toluene	ND	0.10	107	105	1.63	105	70 - 130	20	70 - 130			
Ethylbenzene	ND	0.10	112	110	2.01	109	70 - 130	20	70 - 130			
Xylenes	ND	0.30	111	110	1.26	110	70 - 130	20	70 - 130			
% SS:	112	0.10	109	111	1.76	112	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 t	he following	g exceptio	ns:					

BATCH 64185 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201642-006A	01/20/12 10:32 AM	01/24/12	01/25/12 3:21 PM	1201642-007A	01/20/12 10:45 AM	01/24/12	01/27/12 5:43 AM
1201642-010A	01/20/12 9:20 AM	01/24/12	01/25/12 4:21 PM	1201642-011A	01/20/12 9:30 AM	01/24/12	01/25/12 2:50 PM
1201642-013A	01/19/12 9:10 AM	01/24/12	01/25/12 6:52 PM	1201642-014A	01/19/12 9:25 AM	01/24/12	01/26/12 12:54 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).

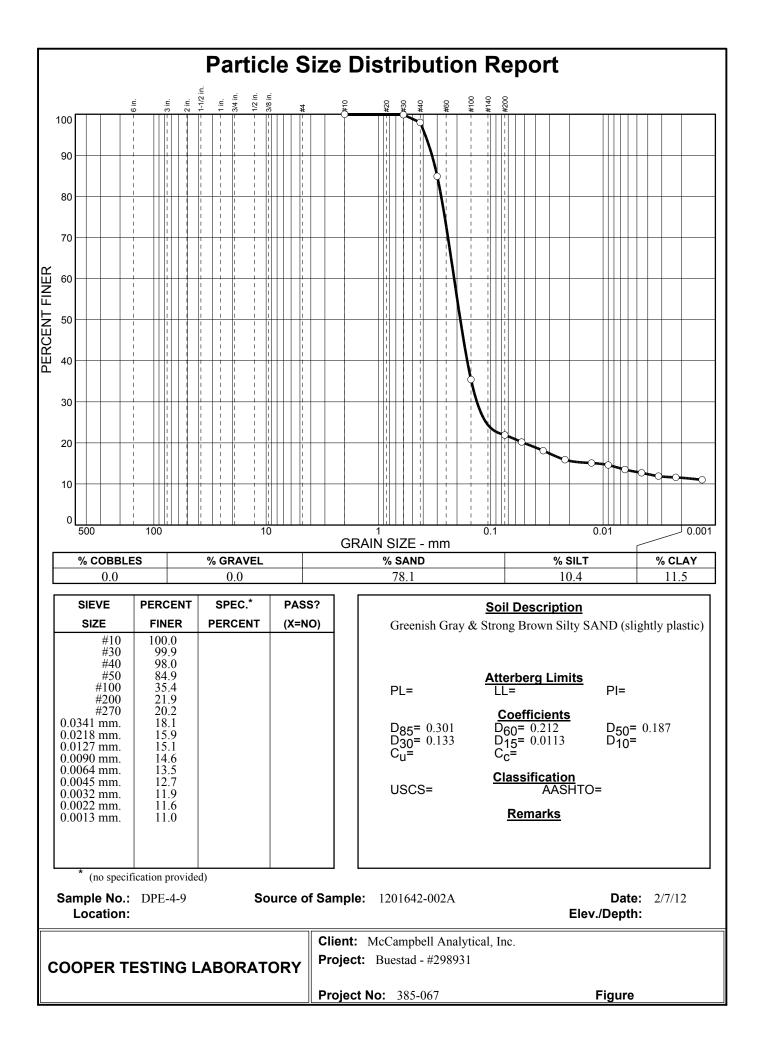
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

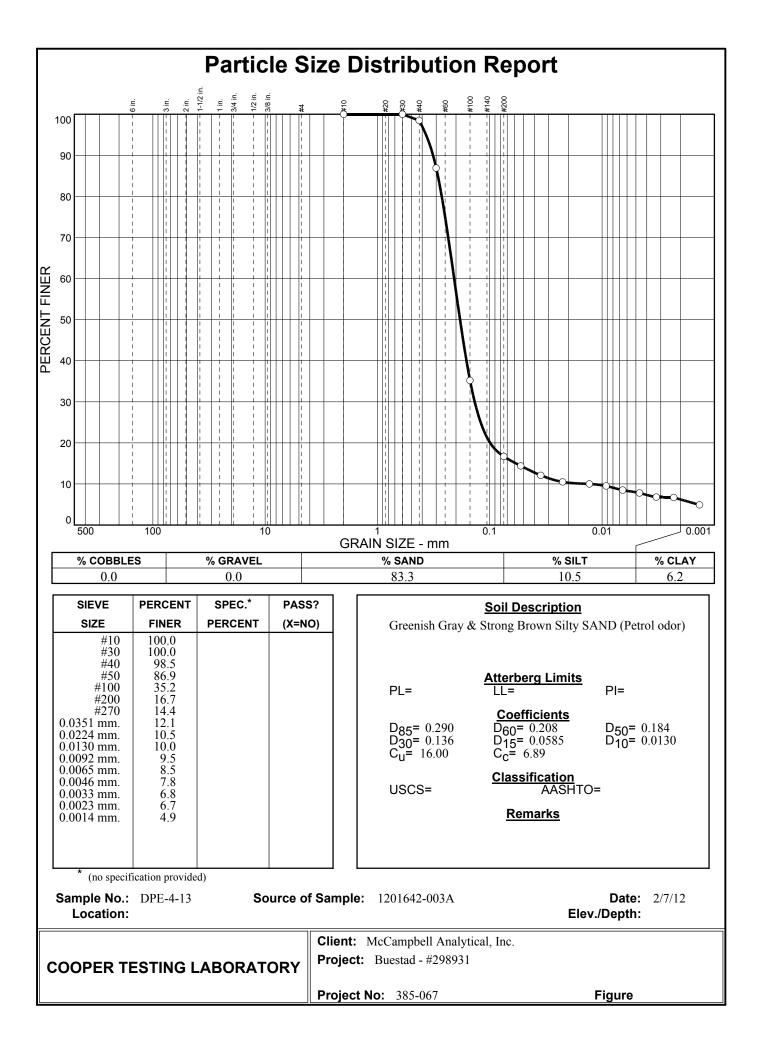
£ TPH(btex) = sum of BTEX areas from the FID.

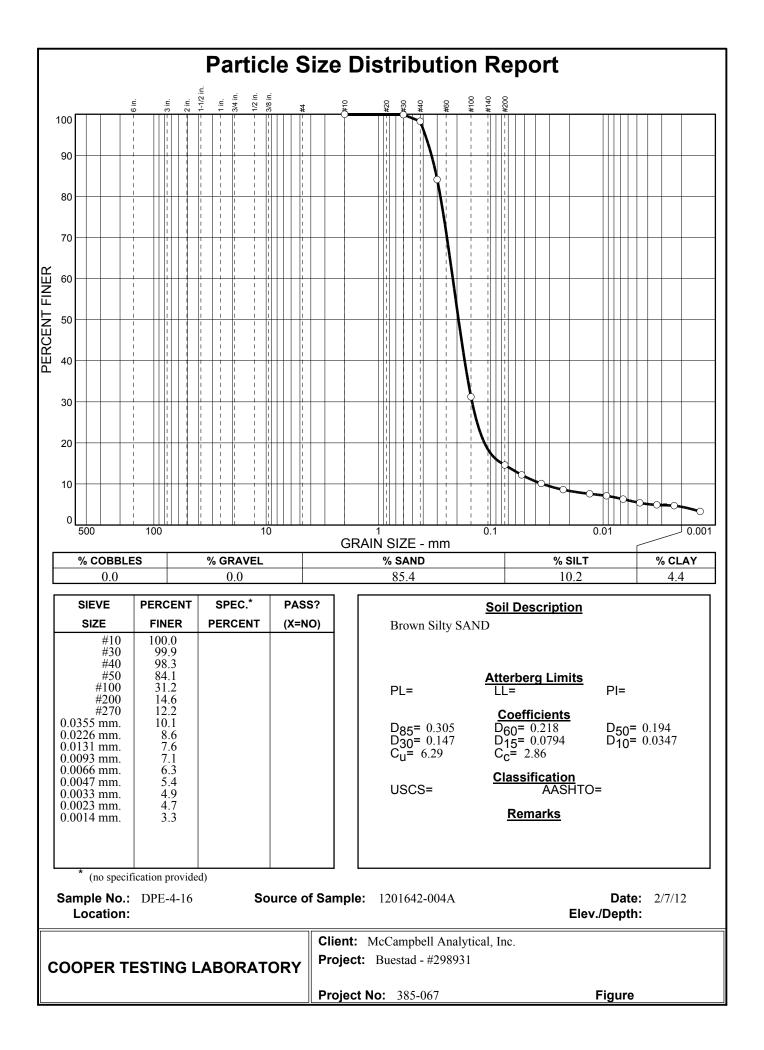
cluttered chromatogram; sample peak coelutes with surrogate peak.

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.









McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

AEI Consultants	Client Project ID: #298931; Buestad	Date Sampled:	01/17/12
2500 Camino Diablo, Ste. #200		Date Received:	01/17/12
2000 Cullino Diaoto, 500. #200	Client Contact: Harmony TomSun	Date Reported:	01/18/12
Walnut Creek, CA 94597	Client P.O.: #WC083424	Date Completed:	01/18/12

WorkOrder: 1201381

January 18, 2012

Dear Harmony:

Enclosed within are:

- 1) The results of the **16** analyzed samples from your project: **#298931; Buestad,**
- 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.

Г	ATTA M	cCAMPI	BELL	ANAI	LY'	TIC	AL.	, IN	C.									CE	AIN	O	FC	UST	[O]	DY	RE	CC	ORD	
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		ephone: (877				Fax:								0	deo'	Fr a	ick	er ED	F 🖸									DW) 🖵
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[Report To: Harm					o: AE						_	_		_		_		Analy	is Re	quest					0	Other	Comments
	Company: AEI C	consultants, 2	2500 Car	nino Dia	blo,	Walnu	t C	reek,	CA	945	97			-		4		2										**Indicate
	PO#: WC083424													8015M				MISIQS										here if these
	Global ID:					l: hton				sult	ants	.con	n	1 1				B										samples are
	Tele: (925) 746-0	5000				(925)								EP				0										potentially
	Project #: 298931					ct Nan	ne:	Buest	ad					o by	51			I										dangerous to handle:
	and a second sec	Project Location: 1630 Park Street, Alameda, California											_	d mo	8021			Method										nanoie:
ŀ	Sampler Signature											20	and	EPA	09													
	SAMPLING MATRIX ME PRES												diesel	K by	10d 82		EPA											
	SAMPLE ID FOCATION/ Field boint Name # Containers Air Air Other Soil										ICE	HUD.	Other	gasoline,	MTBE and BTEX by	VOCs by EPA Method 8260	CAM 17 Metals	5 6-HAL								Hold		8
ł	AFT-20-11	AET-20	UIT	12:30	1	Liner		X			X				X			X								\top		
SU	AET -20	AET-20	1/17	1:35	4	AMB	X				X				X			X										
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ŀ	AEF-21-14'	11	11-1	11:30	1	liner		V			Ý	-	1		8			V		*						\top		
	AEI-27-11	ATET-22	11	2'25	i	liver		Ŷ			X	+	-		Ŕ	1		X								\vdash		
UL	AET-22	AE7-22	11	2.05	ù	ANG	Y	1-			X	-		\vdash	X			X								1		
4	AET-23	AET-23	11	1:15	J	XAND	Ý				X		1	X	X			\wedge								1		
	AET-23-9.5'	11	11	2:00	1	liner	n	X			X			X	X											\top		
10	AET-24	AETAN	11	8:45	6	YONG	X	1			X			X	X													
	AET-24-7'	()	.1	8:15	1	liner	P	X			X			X	X													
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McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701 Website: www.mccampbell.com Email: main@mccampbell.com															гш	RN	AR						C	US	ST(DD	Y]	RE(CO	RD		1
		osite: <u>www.me</u> ephone: (877	campbel	Leam Em	1565-1 nail: 1	main@	mcca : (925															PDI	F			cel			ite (IR 5 D. DW) 🖵 g is requi	
Denos	rt To: Harm	ony TomSun		B	ill T	o: AE	I							+					A	100	_	Req		-	mp/	. 1.5 4	Clina	care as		ther	Comm	
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Globa				E-	Mai	l: htor	nsun	aaei	icon	sult	ants	s.co1	n	801																	sample	******
	Tele: (925) 746-6000 Fax: (925) 746-6099													EPA																	potent	
	Project #: 298931 Project Name: Buestad													Ag	•																	rous to
	Project Location: 1630 Park Street, Alameda, California													0 H	3021																handle	:
	Sampler Signature													and	A 8	-																
SAMPLING MATRIX M										ETH		sels	y EI	8260																		
SAMPLING MATKIA pp										PRI	SER	VED		Xb	hod																	
SA	Same Part of the containers Mater Mater Mater Mater Mater Mater Other Other Other										ICE	HCL	Other	TPH as gasoline.	MTBE and BTEX by EPA 8021	VOCs by EPA Method 8260	CAM 17 Metals												Hold			
DET	5-24-13	AEJ-24	117	8:30	1	Line		1			X			X	X	1	1															
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AFT	-210-10.5	AETZO	11	10:45	1	liver		(X			X	X																	
AE	=1-28-11	AET-28	11	3:00	1	liver		1						X	X	2																
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gloved	I clients MUST l, open air, samp ng us to work sa	le handling by l	ngerous ch MAI staff.	emicals kn Non-disele	own	to be pr	resent i an imn	n thei rediat	r sub te S25	omitt 50 su	ed sa rcha	implo rge a	es in nd th	conc he cli	entra ient is	tions subj	that ject t	may o ful	căus I lega	e imr I liabi	nedi: ility i	ate ha for ha	ırm c ırm s	or sei suffe	rious red.	futu Thai	re hes nk you	ilth en 1 for y	dange our u	rment ndersta	as a result nding and	of brief, for
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Relinquished By: Date: Time: Received By:											PRESERVED IN LAB VOAS O&G METALS OTHER PRESERVATION pH<2																					

McCampbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

(925) 25	62-9262					Work	Order	: 12013	81	0	Client	Code: A	EL				
		WaterTrax	WriteOn	EDF		Excel		Fax		🖌 Email		Hard	Сору	Thir	rdParty	J-	flag
Report to:							Bill to:						Req	uested T	AT:		1 day
	ants lo Diablo, Ste. #200 ek, CA 94597	cc: PO:	htomsun@aei #WC083424 #298931; Bue	iconsultants.com estad			AE 250 Wa	ra Gueri I Consu 00 Cami alnut Cre countsP	ltants ino Dia eek, C	A 94597	7	0 tants.co		e Receiv e Printe		01/17	7/2012 7/2012
									Re	equested	d Tests	s (See leg	end be	low)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1201381-001	AEI-20-11'		Soil	1/17/2012 12:30		Α											
1201381-002	AEI-20		Water	1/17/2012 13:35			Α										
1201381-003	AEI-21		Water	1/17/2012 13:00			Α										
1201381-004	AEI-21-11'		Soil	1/17/2012 11:25		Α											
1201381-005	AEI-21-14'		Soil	1/17/2012 11:30		Α									-		
1201381-006	AEI-22-11'		Soil	1/17/2012 14:25		Α									-		-
1201381-007	AEI-22		Water	1/17/2012 14:05			Α								-		-
1201381-008	AEI-23		Water	1/17/2012 13:15			Α	_	В						-		
1201381-009	AEI-23-9.5'		Soil	1/17/2012 14:00		Α		Α		_					-		-
1201381-010	AEI-24		Water	1/17/2012 8:45			Α		В						-		
1201381-011	AEI-24-7'		Soil	1/17/2012 8:15		Α		Α							-		-
1201381-012	AEI-24-13'		Soil	1/17/2012 8:30		Α		Α							-		-
1201381-013	AEI-25-10'		Soil	1/17/2012 9:00		Α		А							1		1
1201381-014	AEI-25		Water	1/17/2012 9:30			Α		В						1		

Test Legend:

1	G-MBTEX_S
6	
11	

2

7 12

G-MBTEX_W	3	TPH(DMO)_S
	8	

4	TPH(DMO)_W
9	

5	
10	

Prepared by: Zoraida Cortez

Comments:

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

McCampbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

(925) 252-9262				WorkOr	rder: 1201381	Clier	ntCode: AE	EL	
	WaterTrax	WriteOn	EDF	Excel	Fax	Email	HardC	Copy ThirdParty	J-flag
Report to:				Bil	I to:			Requested TAT:	1 day
Harmony TomSun	Email:	htomsun@aeicor	nsultants.com		Sara Guerin				
AEI Consultants	cc:				AEI Consulta	ints			
2500 Camino Diablo, Ste. #200	PO:	#WC083424			2500 Camino	Diablo, Ste. #2	200	Date Received:	01/17/2012
Walnut Creek, CA 94597	ProjectNo:	#298931; Buesta	d		Walnut Creel	k, CA 94597		Date Printed:	01/17/2012
(925) 944-2899 FAX: (925) 944-2895					AccountsPay	able@AEICons	ultants.co		

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date H	lold	1	2	3	4	5	6	7	8	9	10	11	12
T		1					l.		_	1			1			
1201381-015	AEI-26-10.5'	Soil	1/17/2012 10:45		А		A									
1201381-016	AEI-28-11'	Soil	1/17/2012 15:00		А		А									

Test Legend:

1	G-MBTEX_S
6	
11	

2	G-MBTEX_W
7	
12	

TPH(DMO)_S

3

8

4	TPH(DMO)_W
9	

5	
10	

Prepared by: Zoraida Cortez

Comments:

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



Sample Receipt Checklist

Client Name:	AEI Consultants				Date	and Time Received:	1/17/2012 6:	39:42 PM		
Project Name:	#298931; Buestad				Checl	klist completed and re	viewed by:	Zoraida Cortez		
WorkOrder N°:	1201381	Matrix: Soil/Water			Carrie	er: <u>Benjamin Ysla</u>	s (MAI Courier)		
		<u>Chai</u> i	n of Cu	istody (C	OC) Informa	ition				
Chain of custody	present?		Yes	✓	No 🗌					
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No 🗌					
Chain of custody	agrees with sample la	bels?	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 contai	ner/cooler?	Yes		No 🗌		NA 🗹			
Shipping contain	er/cooler in good cond	ition?	Yes	✓	No 🗌					
Samples in prope	er containers/bottles?		Yes	✓	No 🗌					
Sample containe	rs intact?		Yes	✓	No 🗌					
Sufficient sample	e volume for indicated	test?	Yes	✓	No 🗌					
		Sample Prese	ervatio	n and Ho	<u>ld Time (HT)</u>	Information				
All samples rece	ived within holding time	e?	Yes	✓	No 🗌					
Container/Temp	Blank temperature		Coole	r Temp:	2.4°C					
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes	✓	No 🗌	No VOA vials submi	itted			
Sample labels ch	necked for correct pres	ervation?	Yes	✓	No 🗌					
Metal - pH accep	table upon receipt (pH	l<2)?	Yes		No 🗌		NA 🗹			
Samples Receive	ed on Ice?		Yes	✓	No 🗌					
		(Ice Type	e: WE	TICE)						
* NOTE: If the "N	lo" box is checked, see	e comments below.								

Comments:

	McCamp		Analytico lity Counts''	al, Inc.		oll Free Telepho	Pass Road, Pittsburg ne: (877) 252-9262 pbell.com / E-mail:	/ Fax: (925) 252	-9269		
AEI Co	onsultants		Client	t Project ID:	#298931; E	Buestad	Date Sample	ed: 01/1'	7/12		
2500 C	Camina Diabla Sta	#200					Date Receiv	ed: 01/1'	7/12		
2300 C	Camino Diablo, Ste. 1	#200	Client	t Contact: Ha	rmony Tom	Sun	Date Extract	ted: 01/1	7/12-01	/18/12	
Walnut	t Creek, CA 94597		Clien	t P.O.: #WC0	83424		Date Analyz	ed: 01/1	8/12		
Extraction	Gase	oline Ra	nge (C6-C12	-		5 as Gasoli SW8021B/8015		X and MTI		rk Order:	1201381
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	AEI-20-11'	S	600	ND<0.50	0.89	2.9	10	39	10	#	d1
002A	AEI-20	W	130,000	ND<500	1200	2200	4400	20,000	100	107	d1,b6
003A	AEI-21	W	110,000	ND<500	160	520	1200	3300	100	105	d2,d9,b6,b1
004A	AEI-21-11'	S	46	ND	0.020	0.42	0.27	0.60	1	121	d1
005A	AEI-21-14'	S	ND	ND	ND	ND	ND	ND	1	112	
006A	AEI-22-11'	S	8.6	ND<0.10	0.71	0.77	0.31	1.3	1	117	d1
007A	AEI-22	w	61,000	ND<500	790	4400	1500	7200	100	112	d1,b6,b1
008A	AEI-23	w	9000	ND<50	ND<5.0	16	12	ND<5.0	10	105	d7,b6,b1
009A	AEI-23-9.5'	S	7.5	ND	ND	0.027	ND	0.0055	1	115	d7
010A	AEI-24	w	ND	ND	ND	ND	ND	ND	1	109	b1
011A	AEI-24-7'	S	ND	ND	ND	ND	ND	ND	1	120	
012A	AEI-24-13'	S	ND	ND	ND	ND	ND	ND	1	111	
013A	AEI-25-10'	S	ND	ND	ND	ND	ND	ND	1	107	
014A	AEI-25	W	ND	ND	ND	ND	ND	ND	1	112	b1
015A	AEI-26-10.5'	S	ND	ND	ND	ND	ND	ND	1	102	
016A	AEI-28-11'	S	12,000	ND<10	21	210	210	1000	200	#	d1
ND me	ting Limit for DF =1; eans not detected at or ve the reporting limit	W S	50 1.0	5.0 0.05	0.5	0.5	0.5	0.5		μg/l mg/k	

* water and vapor samples are reported in µg/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:

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present

d1) weakly modified or unmodified gasoline is significant

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

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

d9) no recognizable pattern

<u> </u>	Campbell Ana ''When Quality Co		C. Toll Free	Villow Pass Road, Pittsburg, CA Felephone: (877) 252-9262 / Fax: mccampbell.com / E-mail: main@	(925) 252-9	269		
AEI Consultan	ts	Client Project	ID: #298931; Buestad	d Date Sampled:	01/17	/12		
2500 Camina I	Diablo, Ste. #200			Date Received:	01/17	01/17/12		
2300 Camino I	Jiabio, Ste. #200	Client Contact: Harmony TomSun Date Extracted:						
Walnut Creek,	CA 94597	Client P.O.: F	#WC083424	Date Analyzed:	01/18	/12		
Extraction method:	SW3510C/SW3550B		ctable Petroleum Hydrod l methods: SW8015B	carbons*	W	/ork Order:	1201381	
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments	
1201381-008B	AEI-23	W	8400	1500	1	89	e4,e7,e2,b6,b1	
1201381-009A	AEI-23-9.5'	S	100	180	1	109	e7,e2	
1201381-010B	AEI-24	W	ND	ND	1	88	b1	
1201381-011A	AEI-24-7'	S	1.1	ND	1	98	e2	
1201381-012A	AEI-24-13'	S	ND	ND	1	98		
1201381-013A	AEI-25-10'	S	1.3	ND	1	98	e2	
1201381-014B	AEI-25	W	ND	ND	1	87	b1	
1201381-015A	AEI-26-10.5'	S	ND	ND	1	97		
1201381-016A	AEI-28-11'	S	2100	44	5	114	e4,e2	

Reporting Limit for DF =1; ND means not detected at or	W	50	250	µg/L
above the reporting limit	S	1.0	5.0	mg/Kg

* 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 / STLC / SPLP / TCLP extracts are reported in µg/L.

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; %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:

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present

e2) diesel range compounds are significant; no recognizable pattern

e4) gasoline range compounds are significant.

e7) oil range compounds are significant

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager



W.O. Sample Matrix: Water	QC Matrix	QC Matrix: Water				BatchID: 63960			WorkOrder: 1201381		
EPA Method: SW8015B		Spiked Sample ID: N/					N/A				
Analyte	Sample	mple Spiked		S 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	125	N/A	N/A	70 - 130		
%SS:	N/A	625	N/A	N/A	N/A	96	N/A	N/A	70 - 130		

BATCH 63960 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201381-008B	01/17/12 1:15 PM	01/17/12	01/18/12 12:07 AM	1201381-010B	01/17/12 8:45 AM	01/17/12	01/18/12 2:20 AM
1201381-014B	01/17/12 9:30 AM	01/17/12	01/18/12 1:13 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



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water	QC Matrix: Water				BatchID: 64085			WorkOrder: 1201381		
EPA Method: SW8021B/8015Bm Extraction: S	W5030B						Spiked Sam	ple ID:	1201381-014A	
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	119	121	1.23	94.6	70 - 130	20	70 - 130	
MTBE	ND	10	101	105	3.74	108	70 - 130	20	70 - 130	
Benzene	ND	10	104	104	0	102	70 - 130	20	70 - 130	
Toluene	ND	10	101	101	0	91.6	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	100	102	1.36	93.2	70 - 130	20	70 - 130	
Xylenes	ND	30	103	103	0	110	70 - 130	20	70 - 130	
% SS:	112	10	101	106	5.09	93	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 t	he following	g exceptio	ns:			

BATCH 64085 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201381-002A	01/17/12 1:35 PM	01/18/12	01/18/12 2:03 AM	1201381-003A	01/17/12 1:00 PM	01/18/12	01/18/12 2:32 AM
1201381-007A	01/17/12 2:05 PM	01/18/12	01/18/12 3:59 AM	1201381-008A	01/17/12 1:15 PM	01/18/12	01/18/12 12:36 PM
1201381-010A	01/17/12 8:45 AM	01/18/12	01/18/12 3:01 AM	1201381-014A	01/17/12 9:30 AM	01/18/12	01/18/12 3:30 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.

£ 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: Soil	QC Matrix: Soil				BatchID: 64086			WorkOrder: 1201381		
EPA Method: SW8021B/8015Bm Extraction: S	W5030B						Spiked Sarr	ple ID:	1201381-012A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) [£]	ND	0.60	129	121	6.22	123	70 - 130	20	70 - 130	
MTBE	ND	0.10	92.8	87.9	5.51	101	70 - 130	20	70 - 130	
Benzene	ND	0.10	108	108	0	113	70 - 130	20	70 - 130	
Toluene	ND	0.10	107	108	0.826	111	70 - 130	20	70 - 130	
Ethylbenzene	ND	0.10	108	104	4.40	112	70 - 130	20	70 - 130	
Xylenes	ND	0.30	112	107	4.29	115	70 - 130	20	70 - 130	
%SS:	111	0.10	113	109	3.57	120	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 t	he following	g exception	ns:			

BATCH 64086 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201381-001A	01/17/12 12:30 PM	01/17/12	01/18/12 4:30 AM	1201381-004A	01/17/12 11:25 AM	01/17/12	01/18/12 5:00 AM
1201381-005A	01/17/12 11:30 AM	01/17/12	01/18/12 12:06 PM	1201381-006A	01/17/12 2:25 PM	01/17/12	01/18/12 5:59 AM
1201381-009A	01/17/12 2:00 PM	01/17/12	01/18/12 6:28 AM	1201381-011A	01/17/12 8:15 AM	01/17/12	01/18/12 6:58 AM
1201381-012A	01/17/12 8:30 AM	01/17/12	01/18/12 11:36 AM	1201381-013A	01/17/12 9:00 AM	01/17/12	01/18/12 3:37 PM
1201381-015A	01/17/12 10:45 AM	01/17/12	01/18/12 12:57 PM	1201381-016A	01/17/12 3:00 PM	01/17/12	01/18/12 1:26 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.

£ 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.



W.O. Sample Matrix: Soil	QC Matrix	QC Matrix: Soil			BatchID	: 64049	WorkOrder: 1201381			
EPA Method: SW8015B	Extraction: SW3550B						Spiked Sam	ple ID:	1201340-038A	
Analyte	Sample	Sample Spiked MS MSD MS-MSD LCS				Acc	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	1.5	40	127	126	0.538	107	70 - 130	30	70 - 130	
%SS:	108	25	110	111	1.04	86	70 - 130	30	70 - 130	
All target compounds in the Method Blank NONE	of this extraction batch were ND	less than th	e method	RL with th	ne following	g exceptio	ns:			

BATCH 64049 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201381-009A	01/17/12 2:00 PM	01/17/12	01/18/12 12:07 AM	1201381-011A	01/17/12 8:15 AM	01/17/12	01/18/12 12:41 PM
1201381-012A	01/17/12 8:30 AM	01/17/12	01/18/12 7:50 AM	1201381-013A	01/17/12 9:00 AM	01/17/12	01/18/12 11:58 AM
1201381-015A	01/17/12 10:45 AM	01/17/12	01/18/12 6:38 AM	1201381-016A	01/17/12 3:00 PM	01/17/12	01/18/12 12:55 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

K__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; Buestad	Date Sampled:	01/17/12
2500 Camino Diablo, Ste. #200		Date Received:	01/17/12
2000 Cullino Diabio, 5te. #200	Client Contact: Harmony TomSun	Date Reported:	01/24/12
Walnut Creek, CA 94597	Client P.O.: #WC083425	Date Completed:	01/24/12

WorkOrder: 1201389

January 24, 2012

Dear Harmony:

Enclosed within are:

- 1) The results of the **16** analyzed samples from your project: **#298931; Buestad,**
- 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.

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	1	PITTSBUI	RG, CA 94	565-1	701			all	0.0 20															RI	JSH	88	24 H	R	48	HR	72 H	IR	5 DAY
Wet Tele	osite: <u>www.mc</u> phone: (877	252-92	.com Em	an: r	Fax:	: (92	5) 25	52-9	9269	,					Ge	oT	ra	cke	r EI	DF		P	DF		I	Exc	el		W	rite	e On (I	DW) 🖬
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	LOCATION/			LS	Type Containers					Г					ine,	MTBE and BTEX by EPA	VOCs by EPA Method 8260	10	3														
SAMPLE ID	Field Point			Containers	ntai										gasoline,	d B	Vd2	CAM 17 Metals	57														
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Page 4 of 22

McCampbell Analytical, Inc.



1534 Willow Pass Rd Pittsburg, CA 94565-1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

(925) 252	2-9262					Work	Order	: 12013	89	C	lient	Code: A	EL				
		WaterTrax	WriteOn	EDF		Excel	[Fax		Email		Hard	lCopy	Thir	dParty	□J-f	lag
Report to:							Bill to:						Req	uested T	AT:	5	days
	ants o Diablo, Ste. #200 .k, CA 94597	cc: PO: #	ntomsun@aei ≄WC083425 ≇298931; Bue	consultants.com stad			AE 250 Wa	ra Guer I Consu 00 Cam alnut Cro countsP	iltants ino Dial eek, CA	94597	•			e Receiv e Printe		01/17/ 01/18/	/2012
									Re	questec	l Tests	(See leg	end be	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1201389-002	AEI-20-7.5'		Soil	1/17/2012 12:20					А								
1201389-003	AEI-20-15'		Soil	1/17/2012 12:40					Α								
1201389-005	AEI-21-7'		Soil	1/17/2012 11:20					Α								
1201389-009	AEI-22-9'		Soil	1/17/2012 14:20					А								
1201389-010	AEI-22-14'		Soil	1/17/2012 14:40					Α								
1201389-012	AEI-23-6'		Soil	1/17/2012 13:50					А		Α						
1201389-013	AEI-23-12.5'		Soil	1/17/2012 14:05					Α		Α						
1201389-016	AEI-24-10.5'		Soil	1/17/2012 8:25					А		Α						
1201389-018	AEI-25-7.5'		Soil	1/17/2012 8:55					Α		Α						
1201389-019	AEI-25-14'		Soil	1/17/2012 9:15					Α		Α						
1201389-021	AEI-26-7.5'		Soil	1/17/2012 10:40					Α		Α						
1201389-022	AEI-26-14'		Soil	1/17/2012 10:50					Α		Α						
1201389-023	AEI-26		Water	1/17/2012 10:20						В		А					
1201389-024	AEI-27		Water	1/17/2012 11:10			В			Α	1		1				1

Test Legend:

1	8260B_S
6	TPH(DMO)_S
11	

2	8260B_W	3	
7	TPH(DMO)_W	8	
12			

CAM17MS_S]
]

G-MBTEX_S

4

9

5 G-MBTEX_W 10

The following SampIDs: 024A, 025A contain testgroup.

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.

Prepared by: Ana Venegas

McCampbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

1534 Willow Pass Rd Bittaburg, CA 04565 1701				UNAIN	-01-00	JIONI I	NEGUNU		
Pittsburg, CA 94565-1701 (925) 252-9262				WorkO	rder: 1201389	Clien	tCode: AEL		
	WaterTra	x UvriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				Bil	I to:		Req	uested TAT:	5 days
Harmony TomSun AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Email: cc: PO: ProiectNo:	htomsun@aeicor #WC083425 #298931: Buesta			Sara Guerin AEI Consultar 2500 Camino Walnut Creek	Diablo, Ste. #2	.00	e Received: e Printed:	01/17/2012 01/18/2012
(925) 283-6000 FAX: (925) 944-2895	-	#200001, Ducola				able@AEICons		e 1 rinea.	01/10/2012

								Re	quested	l Tests (See leg	end bel	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
						1				1	1	1	1	T		
1201389-025	AEI-27-3'	Soil	1/17/2012 11:33		Α		A	A								
1201389-032	AEI-28	Water	1/17/2012						В		Α					

Test Legend:

1	8260B_S	2	8260B_W	3	CAM17MS_S	4	G-MBTEX_S] [5	G-MBTEX_W
6	TPH(DMO)_S	7	TPH(DMO)_W	8		9] [10	
11		12								

The following SampIDs: 024A, 025A contain testgroup.

Prepared by: Ana Venegas

Page 2 of 2

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:	1/17/2012 8:	33:39 PM
Project Name:	#298931; Buestad				Check	list completed and re	viewed by:	Ana Venegas
WorkOrder N°:	1201389	Matrix: Soil/Water			Carrie	r: <u>Benjamin Ysla</u>	s (MAI Courier	1
		<u>Chai</u>	n of Cւ	ustody (COC	<u>) Informa</u>	tion		
Chain of custody	present?		Yes	✓	No			
Chain of custody	signed when relinquis	hed and received?	Yes		No			
Chain of custody	agrees with sample la	bels?	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			
		5	Sample	e Receipt Inf	ormation			
Custody seals in	tact on shipping contai	ner/cooler?	Yes		No 🗌		NA 🗹	
Shipping contain	er/cooler in good cond	ition?	Yes	✓	No 🗌			
Samples in prope	er containers/bottles?		Yes	✓	No 🗌			
Sample containe	rs intact?		Yes	✓	No 🗌			
Sufficient sample	e volume for indicated	test?	Yes		No			
		Sample Pres	ervatio	n and Hold [.]	<u>Time (HT)</u>	Information		
All samples rece	ived within holding tim	e?	Yes		No 🗌			
Container/Temp	Blank temperature		Coole	er Temp:			NA 🖌	
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes		No	No VOA vials submi	tted 🗌	
Sample labels ch	necked for correct pres	ervation?	Yes		No			
Metal - pH accep	otable upon receipt (p⊢	I<2)?	Yes		No 🗌		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No 🗌			
		(Ice Type	e: WE	TICE)				
* NOTE: If the "N	lo" box is checked, se	e comments below.						

Comments:

	Analytical ality Counts''	l <u>, Inc</u> .	:	Toll Free Teleph		g, CA 94565-1701 / Fax: (925) 252-9269 main@mccampbell.com		
AEI Consultants	Client P	Project II	D: #29	98931; Buestad	Date Sample	ed: 01/17/12		
2500 Coming Dist1. Sta #200					Date Receiv	red: 01/17/12		
2500 Camino Diablo, Ste. #200	Client C	Contact:	Harmo	ony TomSun	Date Extract	ted: 01/19/12		
Walnut Creek, CA 94597		P.O.: #W		<u></u>	Date Analyz	zed: 01/19/12		
	Volatile Organi	ics by P	&T an	d GC/MS (Basic '	Target List)*			
Extraction Method: SW5030B	0	-		od: SW8260B	0 /	Work Order: 12013	389	
Lab ID				120138	9-024B			
Client ID				AE	I-27			
Matrix				Wa	ater			
Compound	Concentration *	DF	Reporting Limit	Compou	ind	Concentration *	DF	Reporting Limit
Acetone	13	1.0	10	tert-Amyl methyl eth	er (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene		ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichlorometha	ine	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane		ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA	A)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene		ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide		ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene		ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform		ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene		ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochlorometha	ane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene		ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene		ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane		ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene		ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroeth	nene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane		ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene		ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropr	opene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene		ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113		ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane		ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene		ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether	· /	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanor	ne (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene		ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroet	hane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene		ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenze		ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethan	e	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene		ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropa		ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenze	ene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total		ND	1.0	0.5
	I		ogate R	ecoveries (%)		I		
%SS1:	10'			%SS2:		99)	
%SS3:	99)						

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

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.

b1) aqueous sample that contains greater than ~1 vol. % sediment

	Analytical ality Counts''	<u>, Inc.</u>		Toll Free Telepho	Pass Road, Pittsburg, CA one: (877) 252-9262 / Fa: npbell.com / E-mail: main	x: (925) 252-9269			
AEI Consultants	Client P	roject II	D: #29	98931; Buestad	Date Sampled:	01/17/12			
2500 G					Date Received:	01/17/12			
2500 Camino Diablo, Ste. #200	Client C	ontact:	Harmo	ony TomSun	Date Extracted:	01/17/12			
Walnut Creek, CA 94597	Client P			2	Date Analyzed:				
					-	01/10/12			
	Volatile Organi	-		d GC/MS (Basic]	l'arget List)*				
Extraction Method: SW5030B		Analyti	cal Metho	od: SW8260B		Work Order: 1201	389		
Lab ID				1201389					
Client ID				AEI-2					
Matrix			Reporting	So				Reporting	
Compound	Concentration *	DF	Limit	Compou	nd	Concentration *	DF	Limit	
Acetone	ND	1.0	0.05	tert-Amyl methyl ethe	er (TAME)	ND	1.0	0.005	
Benzene	ND	1.0	0.005	Bromobenzene		ND	1.0	0.005	
Bromochloromethane	ND	1.0	0.005	Bromodichlorometha	ne	ND	1.0	0.005	
Bromoform	ND	1.0	0.005	Bromomethane		ND	1.0	0.005	
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05	
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005		
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005		
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005		
Chloroethane	ND	1.0	0.005	Chloroform		ND	1.0	0.005	
Chloromethane	ND	1.0	0.005	2-Chlorotoluene		ND	1.0	0.005	
4-Chlorotoluene	ND	1.0	0.005	Dibromochlorometha		ND	1.0	0.005	
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (I	EDB)	ND	1.0	0.004	
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene		ND	1.0	0.005	
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene		ND	1.0	0.005	
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane		ND	1.0	0.005	
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene		ND	1.0	0.005	
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroeth	ene	ND	1.0	0.005	
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane		ND	1.0	0.005	
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene		ND	1.0	0.005	
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropro	opene	ND	1.0	0.005	
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene		ND	1.0	0.005	
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113		ND	1.0	0.1	
Hexachlorobutadiene	ND	1.0 1.0	0.005	Hexachloroethane		ND	1.0	0.005	
2-Hexanone 4-Isopropyl toluene	ND ND	1.0	0.005	Isopropylbenzene Methyl-t-butyl ether ((MTRF)	ND ND	1.0 1.0	0.005	
4-isopropyi toluene Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanon	· · · · · · · · · · · · · · · · · · ·	ND	1.0	0.005	
-		1.0		n-Propyl benzene		ND			
Naphthalene Styrene	ND ND	1.0	0.005	1,1,1,2-Tetrachloroet	hane	ND	1.0	0.005	
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	nane	ND	1.0	0.005	
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzer	ne	ND	1.0	0.005	
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane		ND	1.0	0.005	
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	/	ND	1.0	0.005	
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropa	ne	ND	1.0	0.005	
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenze		ND	1.0	0.005	
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total		ND	1.0	0.005	
·				· ·		1.12	1.0	0.005	
0/ 551.	10/		gate K	ecoveries (%)		10	2		
%SS1: %SS3:	106			%SS2:		10	3		
% SSS:	100)							

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

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.

b1) aqueous sample that contains greater than ~1 vol. % sediment

AEI Consultants	Client	Project ID:	#298931; Buesta	ad Date Sam	pled: 01/17/12			
					Date Received 01/17/12			
2500 Camino Diablo, Ste. #200	Client	Client Contact: Harmony TomSun			acted 01/17/12			
Walnut Creek, CA 94597		P.O.: #WC0	•	Date Anal	lyzed 01/18/12-0	1/24/12		
		CAM / CCI	R 17 Metals*					
Lab ID	1201389-025.	A			Reporting Lin	mit for DF =1		
Client ID	AEI-27-3'					not detected eporting limit		
Matrix	S				S	W		
Extraction Type	TOTAL				mg/Kg	mg/L		
]	· · ·	Concentration*		W 101	1201200		
Analytical Method: SW6020 Dilution Factor	1	Extraction Metho	d: SW3050B		Work Order:	1201389		
Antimony	1.2				0.5	NA		
Arsenic	4.0				0.5	NA		
Barium	130				5.0	NA		
Beryllium	ND				0.5	NA		
Cadmium	ND				0.25	NA		
Chromium	38				0.5	NA		
Cobalt	3.7				0.5	NA		
Copper	18				0.5	NA		
Lead	140				0.5	NA		
Mercury	0.32				0.05	NA		
Molybdenum	ND				0.5	NA		
Nickel	17				0.5	NA		
Selenium	ND				0.5	NA		
Silver	ND				0.5	NA		
Thallium	ND				0.5	NA		
Vanadium	28				0.5	NA		
Zinc	140				5.0	NA		
%SS:	116							

TOTAL = Hot acid digestion of a representative sample aliquot. TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container. DISS = Dissolved metals by direct analysis of 0.45 μm filtered and acidified sample.

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

	McCamp	bell . hen Qua	Analytic Lity Counts''	al, Inc.		oll Free Telepho	Pass Road, Pittsburg ne: (877) 252-9262 pbell.com / E-mail:	/ Fax: (925) 252	2-9269		
AEI C	onsultants		Clie	nt Project ID:	#298931; Buestad Date Sampled: 01/17/12						
2500 (Camino Diablo, Ste.	#200			Date Received: 01/17/12						
2500 (1200	Clie	nt Contact: Ha	armony Tom	Sun	Date Extrac	ted: 01/1	7/12-01	/23/12	
Walnu	tt Creek, CA 94597		Clie	nt P.O.: #WC0)83425		Date Analyz	zed: 01/1	8/12-01	/23/12	
Extractio	Gase n method: SW5030B	oline Ra	unge (C6-C1	2) Volatile Hy Analy		5 as Gasoli 5W8021B/8015		X and MT		rk Order:	1201389
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
002A	AEI-20-7.5'	S	8.4	ND	0.0071	0.084	0.069	0.38	1	117	d1
003A	AEI-20-15'	s	3.3	ND	ND	0.028	ND	0.017	1	104	d1
005A	AEI-21-7'	S	ND	ND	ND	ND	ND	ND	1	116	
009A	AEI-22-9'	S	3100	ND<5.0	3.2	46	62	400	100	#	d2,d9
010A	AEI-22-14'	s	3300	ND<5.0	8.3	84	61	370	100	#	d2,d9
012A	AEI-23-6'	S	ND	ND	ND	ND	ND	ND	1	115	
013A	AEI-23-12.5'	S	460	ND<5.0	ND<0.50	1.4	ND<0.50	0.80	100	115	d7
016A	AEI-24-10.5'	S	ND	ND	ND	ND	ND	ND	1	105	
018A	AEI-25-7.5'	S	ND	ND	ND	ND	ND	ND	1	115	
019A	AEI-25-14'	s	ND	ND	ND	ND	ND	ND	1	108	
021A	AEI-26-7.5'	S	ND	ND	ND	ND	ND	ND	1	111	
022A	AEI-26-14'	S	ND	ND	ND	ND	ND	ND	1	112	
023B	AEI-26	w	ND	ND	ND	ND	ND	ND	1	117	b1
024A	AEI-27	w	ND	ND	ND	ND	ND	ND	1	108	b1
025A	AEI-27-3'	S	ND	ND	ND	ND	ND	0.013	1	117	
032B	AEI-28	W	16,000	ND<100	160	690	540	2500	20	110	d1,b1
	rting Limit for DF $=1$;	W	50	5.0	0.5	0.5	0.5	0.5		μg/I	
	ve the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005		mg/K	g

* water and vapor samples are reported in µg/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:

b1) aqueous sample that contains greater than ~1 vol. % sediment

d1) weakly modified or unmodified gasoline is significant

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

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

d9) no recognizable pattern

	Campbell Ana ''When Quality Col		Toll Free	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 Project	ID: #298931; Buestad	1 Date Sampled:	01/17	/12					
2500 Camino Dial	bla Sta #200		01/17	01/17/12							
2500 Camino Dia	bio, Ste. #200	Client Contact	01/17	01/17/12-01/18/12							
Walnut Creek, CA	A 94597	Client P.O.: #	WC083425	Date Analyzed:	01/18	/12-01/1	.9/12				
Extraction method: SW3	3510C/SW3550B		table Petroleum Hydroc methods: SW8015B	arbons*	W	/ork Order:	1201389				
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments				
1201389-012A	AEI-23-6'	S	ND	ND	1	98					
1201389-013A	AEI-23-12.5'	S	360	270	20	101	e11,e7,e2				
1201389-016A	AEI-24-10.5'	S	ND	ND	1	99					
1201389-018A	AEI-25-7.5'	-7.5' S 1.6 I		ND	1	94	e2				
1201389-019A	AEI-25-14'	S	ND	ND	1	99					
1201389-021A	AEI-26-7.5'	S	ND	ND	1	98					
1201389-022A	AEI-26-14'	S	ND	ND	1	100					
1201389-023A	AEI-26	W	ND	ND	1	90	b1				
1201389-024A	AEI-27	w	ND<100	ND<500	2	#	a1,c2,b1				
1201389-025A	AEI-27-3'	S	3.2	7.9	1	104	e7,e2				
1201389-032A	AEI-28	w	4500	ND	1	99	e4,e2,b1				

Reporting Limit for DF = 1; W 50 250 μg/L ND means not detected at or S 1.0 5.0 mg/Kg above the reporting limit

* 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 / STLC / SPLP / TCLP extracts are reported in µg/L.

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; %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:

a1) sample diluted due to matrix interference

b1) aqueous sample that contains greater than ~1 vol. % sediment

c2) estimated value due to low surrogate recovery, caused by matrix interference.

e2) diesel range compounds are significant; no recognizable pattern

e4) gasoline range compounds are significant.

e7) oil range compounds are significant

e11) stoddard solvent/mineral spirit (?)



Angela Rydelius, Lab Manager



W.O. Sample Matrix: Water QC I			C Matrix: Water				: 63960	WorkOrder: 1201389			
EPA Method: SW8015B	Extraction: SW	/3510C					ę	Spiked Sam	ple ID:	N/A	
Analyte		Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	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	125	N/A	N/A	70 - 130	
%SS:		N/A	625	N/A	N/A	N/A	96	N/A	N/A	70 - 130	
All target compounds in the Method Blank NONE	of this extraction batc	ch were ND	less than th	e method	RL with th	ne following	g exception	IS:			

BATCH 63960 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-023A	01/17/12 10:20 AM	I 01/17/12	01/19/12 1:22 AM	1201389-024A	01/17/12 11:10 AM	I 01/17/12	01/19/12 2:31 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.

K__QA/QC Officer



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil	QC Matrix:	QC Matrix: Soil			BatchID	: 64013		WorkOrder: 1201389		
EPA Method: SW8260B	Extraction: SW5030B						Spiked Sam	ple ID:	1201267-003A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)	
, individ	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND	0.050	77.4	79	2.03	91.1	70 - 130	30	70 - 130	
Benzene	ND	0.050	88	87.2	0.975	105	70 - 130	30	70 - 130	
t-Butyl alcohol (TBA)	ND	0.20	83.9	88.2	5.04	107	70 - 130	30	70 - 130	
Chlorobenzene	ND	0.050	87.5	92.5	5.56	104	70 - 130	30	70 - 130	
1,2-Dibromoethane (EDB)	ND	0.050	79	87.1	9.80	105	70 - 130	30	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND	0.050	89.1	81.1	9.51	101	70 - 130	30	70 - 130	
1,1-Dichloroethene	ND	0.050	76.5	76.6	0.0650	106	70 - 130	30	70 - 130	
Diisopropyl ether (DIPE)	ND	0.050	83.7	79.5	5.22	97.8	70 - 130	30	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND	0.050	83	79.6	4.24	95.9	70 - 130	30	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	0.050	81.8	81	0.967	94.6	70 - 130	30	70 - 130	
Toluene	ND	0.050	89.9	93.4	3.81	112	70 - 130	30	70 - 130	
Trichloroethene	ND	0.050	88.1	92	4.35	109	70 - 130	30	70 - 130	
%SS1:	101	0.12	106	108	1.72	102	70 - 130	30	70 - 130	
%SS2:	110	0.12	102	103	0.918	111	70 - 130	30	70 - 130	
%SS3:	112	0.012	103	110	6.12	110	70 - 130	30	70 - 130	
All target compounds in the Method Blank of the NONE	All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE									

BATCH 64013 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-025A	01/17/12 11:33 AM	a 01/17/12	01/18/12 8:27 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).

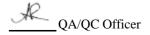
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

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

DHS ELAP Certification 1644





W.O. Sample Matrix: Soil	QC Matr	QC Matrix: Soil				: 64049	WorkOrder: 1201389			
EPA Method: SW8015B	Extraction: SW3550B						Spiked Sam	ple ID:	1201340-038A	
Analyte	Sample	Sample Spiked MS			MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	1.5	40	127	126	0.538	107	70 - 130	30	70 - 130	
%SS:	108	25	110	111	1.04	86	70 - 130	30	70 - 130	
All target compounds in the Method Blank NONE	of this extraction batch were N	D less than th	e method	RL with th	he following	g exception	ns:	•		

BATCH 64049 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-012A	01/17/12 1:50 PM	4 01/17/12	01/19/12 4:17 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.

K__QA/QC Officer



W.O. Sample Matrix: Water	QC Matri	QC Matrix: Water				: 64068	WorkOrder: 1201389				
EPA Method: SW8015B	EPA Method: SW8015B Extraction: SW3510C						Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)				
Analyte	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	120	N/A	N/A	70 - 130		
%SS:	N/A	625	N/A	N/A	N/A	89	N/A	N/A	70 - 130		
All target compounds in the Method Blank of NONE	of this extraction batch were NI) less than th	e method	RL with tl	ne following	g exceptior	IS:				

BATCH 64068 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-032A	01/17/1	2 01/18/12	01/18/12 9:53 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.

K__QA/QC Officer



W.O. Sample Matrix: Soil	QC Matrix	: Soil			BatchID	: 64089	WorkOrder: 1201389			
EPA Method: SW8015B	Extraction: SW3550B						Spiked Sam	ple ID:	1201389-025A	
Analyte	Sample	Spiked	MS	MSD	MSD MS-MSD LCS Acceptance			Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	3.2	40	126	126	0	116	70 - 130	30	70 - 130	
%SS:	104	25	105	104	0.818	97	70 - 130	30	70 - 130	
All target compounds in the Method Blank of NONE	-	1		-				50	70 - 150	

BATCH 64089 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-013A	01/17/12 2:05 PM	01/17/12	01/19/12 1:52 AM	1201389-016A	01/17/12 8:25 AM	01/18/12	01/19/12 3:04 AM
1201389-018A	01/17/12 8:55 AM	01/17/12	01/19/12 7:56 AM	1201389-019A	01/17/12 9:15 AM	01/17/12	01/19/12 6:43 AM
1201389-021A	01/17/12 10:40 AM	01/17/12	01/19/12 10:25 AM	1201389-022A	01/17/12 10:50 AM	01/17/12	01/19/12 9:11 AM
1201389-025A	01/17/12 11:33 AM	01/17/12	01/19/12 7:56 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

K__QA/QC Officer



W.O. Sample Matrix: Water	QC Matrix: Water BatchID: 64129				: 64129	WorkOrder: 1201389			
EPA Method: SW8260B Extraction: S	W5030B						Spiked Sam	ple ID:	1201368-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	95.2	99.8	4.74	98.9	70 - 130	20	70 - 130
Benzene	ND	10	83.7	93	10.5	100	70 - 130	20	70 - 130
t-Butyl alcohol (TBA)	ND	40	100	102	1.49	89.8	70 - 130	20	70 - 130
Chlorobenzene	ND	10	81.6	90.2	9.97	99.5	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	10	94.6	102	7.18	101	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	93.9	101	7.39	101	70 - 130	20	70 - 130
1,1-Dichloroethene	ND	10	89.9	104	15.0	110	70 - 130	20	70 - 130
Diisopropyl ether (DIPE)	ND	10	87.8	92.2	4.82	97.1	70 - 130	20	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	92.6	96.5	4.17	98.4	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	3.5	10	99.7	103	2.79	96.3	70 - 130	20	70 - 130
Toluene	ND	10	80.6	88.9	9.87	99.7	70 - 130	20	70 - 130
Trichloroethene	ND	10	89.1	98.7	10.2	107	70 - 130	20	70 - 130
%SS1:	103	25	108	107	1.19	102	70 - 130	20	70 - 130
%SS2:	100	25	98	99	0.690	101	70 - 130	20	70 - 130
%SS3:	99	2.5	98	100	1.86	101	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 exception	18:		

BATCH 64129 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-024B	01/17/12 11:10 AM	1 01/19/12	01/19/12 5:58 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.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water	QC Matrix:	Water			BatchID	: 64066	WorkOrder: 1201389		
EPA Method: SW8021B/8015Bm Extraction: S	W5030B						Spiked Sam	ple ID:	1201361-005A
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	83.5	82	1.88	83.6	70 - 130	20	70 - 130
MTBE	ND	10	106	108	1.82	107	70 - 130	20	70 - 130
Benzene	ND	10	98.9	102	3.01	100	70 - 130	20	70 - 130
Toluene	ND	10	102	104	2.57	102	70 - 130	20	70 - 130
Ethylbenzene	ND	10	107	111	2.98	108	70 - 130	20	70 - 130
Xylenes	ND	30	106	109	2.38	107	70 - 130	20	70 - 130
% SS:	103	10	91	91	0	93	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 t	he following	g exceptio	ns:		

BATCH 64066 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-023B	01/17/12 10:20 AM	01/20/12	01/20/12 6:06 AM	1201389-024A	01/17/12 11:10 AM	01/20/12	01/20/12 6:35 AM
1201389-032B	01/17/12	01/23/12	01/23/12 8:53 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.

£ 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



W.O. Sample Matrix: Soil QC Matrix: Soil				BatchID	: 64079		WorkO	rder: 1201389	
EPA Method: SW6020	Extraction: SW3050B					:	Spiked Sam	ple ID:	1201389-025A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
, indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Antimony	1.2	50	96.1	95.4	0.754	89.1	75 - 125	20	75 - 125
Arsenic	4.0	50	94.5	92.7	1.77	99.5	75 - 125	20	75 - 125
Barium	130	500	98.1	97.6	0.419	97.8	75 - 125	20	75 - 125
Beryllium	ND	50	103	102	0.813	97.6	75 - 125	20	75 - 125
Cadmium	ND	50	97.8	96.7	1.13	90.2	75 - 125	20	75 - 125
Chromium	38	50	82.3	82.7	0.254	95.3	75 - 125	20	75 - 125
Cobalt	3.7	50	94.5	93.5	1.03	101	75 - 125	20	75 - 125
Copper	18	50	89.3	90	0.571	99.4	75 - 125	20	75 - 125
Lead	140	50	118	115	0.717	97.5	75 - 125	20	75 - 125
Mercury	0.32	1.25	96.8	94.5	1.91	106	75 - 125	20	75 - 125
Molybdenum	ND	50	94.6	93.9	0.758	94.1	75 - 125	20	75 - 125
Nickel	17	50	88.4	89	0.506	98.1	75 - 125	20	75 - 125
Selenium	ND	50	104	99.3	4.44	91.5	75 - 125	20	75 - 125
Silver	ND	50	98.7	98.1	0.546	99.2	75 - 125	20	75 - 125
Thallium	ND	50	95.3	94	1.41	101	75 - 125	20	75 - 125
Vanadium	28	50	84.2	85.9	1.18	97.8	75 - 125	20	75 - 125
Zinc	140	500	87.9	88.1	0.155	92.8	75 - 125	20	75 - 125
%SS:	116	500	102	103	1.15	99	70 - 130	20	70 - 130

BATCH 64079 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-025A	01/17/12 11:33 AM	I 01/17/12	01/18/12 4:26 PM	1201389-025A	01/17/12 11:33 AM	I 01/17/12	01/24/12 2:21 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 applicable to this method.

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



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil	C	QC Matrix:	Soil			BatchID	: 64047	WorkOrder: 1201389		
EPA Method: SW8021B/8015Bm	Extraction: SW5	5030B						Spiked Sam	ple ID:	1201389-012A
Analyte	:	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
		mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) [£]		ND	0.60	80.2	79.7	0.718	127	70 - 130	20	70 - 130
MTBE		ND	0.10	110	108	2.16	92.5	70 - 130	20	70 - 130
Benzene		ND	0.10	104	105	1.19	111	70 - 130	20	70 - 130
Toluene		ND	0.10	106	108	1.08	111	70 - 130	20	70 - 130
Ethylbenzene		ND	0.10	112	112	0	111	70 - 130	20	70 - 130
Xylenes		ND	0.30	109	110	0.680	114	70 - 130	20	70 - 130
%SS:		115	0.10	110	109	0.635	109	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: NONE										

BATCH 64047 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-002A	01/17/12 12:20 PM	01/17/12	01/19/12 6:12 PM	1201389-003A	01/17/12 12:40 PM	01/17/12	01/21/12 2:47 AM
1201389-005A	01/17/12 11:20 AM	01/17/12	01/18/12 5:08 PM	1201389-009A	01/17/12 2:20 PM	01/17/12	01/18/12 2:06 PM
1201389-010A	01/17/12 2:40 PM	01/17/12	01/18/12 1:06 PM	1201389-012A	01/17/12 1:50 PM	01/17/12	01/21/12 3:47 AM
1201389-013A	01/17/12 2:05 PM	01/17/12	01/18/12 6:20 PM	1201389-018A	01/17/12 8:55 AM	01/17/12	01/18/12 8:38 PM
1201389-019A	01/17/12 9:15 AM	01/17/12	01/18/12 9:08 PM	1201389-021A	01/17/12 10:40 AM	01/17/12	01/18/12 10:08 PM
1201389-022A	01/17/12 10:50 AM	01/17/12	01/18/12 11:08 PM	1201389-025A	01/17/12 11:33 AM	01/17/12	01/18/12 11:38 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.

 \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.

K___QA/QC Officer



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil	QC Matrix:	Soil			BatchID	: 64086	WorkOrder: 1201389		
EPA Method: SW8021B/8015Bm Extraction: S	W5030B				MSD MS-MSD LCS Acceptance Cr Rec. % RPD % Rec. MS / MSD RPD 121 6.22 123 70 - 130 20 87.9 5.51 101 70 - 130 20 108 0 113 70 - 130 20 104 4.40 112 70 - 130 20		1201381-012A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) [£]	ND	0.60	129	121	6.22	123	70 - 130	20	70 - 130
MTBE	ND	0.10	92.8	87.9	5.51	101	70 - 130	20	70 - 130
Benzene	ND	0.10	108	108	0	113	70 - 130	20	70 - 130
Toluene	ND	0.10	107	108	0.826	111	70 - 130	20	70 - 130
Ethylbenzene	ND	0.10	108	104	4.40	112	70 - 130	20	70 - 130
Xylenes	ND	0.30	112	107	4.29	115	70 - 130	20	70 - 130
%SS:	111	0.10	113	109	3.57	120	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:		

BATCH 64086 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-016A	01/17/12 8:25 AM	I 01/18/12	01/18/12 8:08 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.

 \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.

K____QA/QC Officer



McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

AEI Consultants	Client Project ID: #298931; Buestad	Date Sampled: 01/17/12
2500 Camino Diablo, Ste. #200		Date Received: 01/17/12
2000 Cullino Diaoto, 500. #200	Client Contact: Harmony TomSun	Date Reported: 01/24/12
Walnut Creek, CA 94597	Client P.O.:	Date Completed: 01/30/12

WorkOrder: 1201389 A

January 30, 2012

Dear Harmony:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#298931; Buestad**,
- 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.

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Wal	bsite: <u>www.mc</u>		RG, CA 94			meet	ampl	ell	com						-									RU	SH	2	24 H	R	48	HR	. 8	72 H	R :	DAY
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Tele: (925) 746-	6000				(925)							-	_	y EPA				metho																entially
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() placed on Hold 1/18/12 per H.+ OFF Hold DER HT

McCampbell Analytical, Inc. 1534 Willow Pass Rd Pittsburg, CA 94565-1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOrd	er: 1201389	A Clier	ntCode: AEI	1	
	WaterTrax	WriteOn	EDF	Excel	Fax	✓ Email	HardCop	y ThirdParty	J-flag
Report to:				Bill	to:		F	Requested TAT:	5 days
Harmony TomSun AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 (408) 559-7600 FAX: (408) 559-7601	cc: PO:	msun@aeicons 98931; Buestad			Walnut Cree	ants o Diablo, Ste. #2	00 I	Date Received: Date Add-On: Date Printed:	01/17/2012 01/27/2012 01/27/2012

								Re	quested	Tests (See leg	end belo	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
						r	i -	r		r	r					
1201389-030	AEI-28-7'	Soil	1/17/2012 14:55		Α	Α										
1201389-031	AEI-28-13'	Soil	1/17/2012 15:05		А	А										

Test Legend:

1	G-MBTEX_S	2 TPH(DMO)_S	3	4	5
6		7	8	9	10
11		12			

Prepared by: Ana Venegas

Comments: <u>TPH DMO GMBTEX added on 1/27/12 rush tat</u>

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.

Ĵ	McCamp	bell When Qua			l <u>, Inc.</u>		oll Free Telepho	Pass Road, Pittsburg me: (877) 252-9262 pbell.com / E-mail:	/ Fax: (925) 252	-9269		
AEI C	Consultants			Client I	Project ID:	#298931; B	Suestad	Date Sample	ed: 01/1	7/12		
2500	Camino Diablo, Ste.	#200						Date Receiv	red: 01/1	7/12		
				Client 0	Contact: Ha	rmony Tom	Sun	Date Extract	ted: 01/2	7/12		
Walnu	ut Creek, CA 94597			Client l	P.O.:			Date Analyz	xed: 01/2	7/12		
Extractio	Gas	soline Ra	ange (C	C6-C12)	•		as Gasoli 5W8021B/8015	ne with BTE	X and MT		k Order:	1201389
Lab ID	Client ID	Matrix	Tł	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
030A	AEI-28-7'	S]	ND	ND	ND	ND	ND	ND	1	124	
031A	AEI-28-13'	S		7.8	ND	0.050	0.29	0.31	1.4	1	114	d1

Reporting Limit for DF =1; ND means not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/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

	ampbell And "When Quality Co		• Toll Free Te	llow Pass Road, Pittsburg, CA lephone: (877) 252-9262 / Fax: ccampbell.com / E-mail: main@	(925) 252-9	9269	
AEI Consultants		Client Project II	D: #298931; Buestad	Date Sampled:	01/17	//12	
2500 Camino Diabl	o Sta #200			Date Received:	01/17	/12	
2500 Camino Diaor	0, Ste. #200	Client Contact:	Harmony TomSun	Date Extracted:	01/27	/12	
Walnut Creek, CA 9	94597	Client P.O.:		Date Analyzed:	01/27	/12	
Extraction method: SW355	50B		able Petroleum Hydroca nethods: SW8015B	rbons*	V	Vork Order:	1201389
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1201389-030A	AEI-28-7'	S	ND	ND	1	108	
1201389-031A	AEI-28-13'	S	2.0	ND	1	109	e2

Reporting Limit for DF =1; ND means not detected at or	W	NA	NA	ug/L
above the reporting limit	S	1.0	5.0	mg/Kg

* 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 / STLC / STLP / TCLP extracts are reported in µg/L.

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; %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: e2) diesel range compounds are significant; no recognizable pattern

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager



«Order: 1201389	WorkOr		: 64309	BatchID			Soil	QC Matrix:	D. Sample Matrix: Soil
D: 1201701-002A	ple ID:	Spiked Sam						W3550B	A Method: SW8015B Extraction: S
ce Criteria (%)	eptance	Acce	LCS	MS-MSD	MSD	MS	Spiked	Sample	Analyte
LCS	RPD	MS / MSD	% Rec.	% RPD	% Rec.	% Rec.	mg/Kg	mg/Kg	
70 - 130	30	70 - 130	117	1.31	127	125	40	2.4	Diesel (C10-C23)
70 - 130	30	70 - 130	98	0.557	107	108	25	107	:
70	30								: rget compounds in the Method Blank of this extraction ba E

BATCH 64309 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-030A	01/17/12 2:55 PM	I 01/27/12	01/27/12 3:05 PM	1201389-031A	01/17/12 3:05 PM	01/27/12	01/27/12 6:47 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



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil	QC Matrix:	Soil			BatchID	: 64426	WorkOrder: 1201389			
EPA Method: SW8021B/8015Bm Extraction: S	W5030B						Spiked Sam	ple ID:	1201389-030A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) [£]	ND	0.60	120	121	0.676	123	70 - 130	20	70 - 130	
MTBE	ND	0.10	98.9	94.8	4.28	110	70 - 130	20	70 - 130	
Benzene	ND	0.10	112	110	2.05	119	70 - 130	20	70 - 130	
Toluene	ND	0.10	111	109	1.63	119	70 - 130	20	70 - 130	
Ethylbenzene	ND	0.10	111	110	0.145	120	70 - 130	20	70 - 130	
Xylenes	ND	0.30	112	113	1.07	121	70 - 130	20	70 - 130	
%SS:	124	0.10	101	105	4.06	115	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	ne following	g exceptio	ns:			

BATCH 64426 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201389-030A	01/17/12 2:55 PM	01/27/12	01/27/12 10:00 PM	1201389-031A	01/17/12 3:05 PM	01/27/12	01/27/12 10:30 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.

£ 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.



McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

AEI Consultants	Client Project ID: #298931; Buestad	Date Sampled:	12/06/11
2500 Camino Diablo, Ste. #200		Date Received:	12/06/11
2000 Cullino Diabio, Stel #200	Client Contact: Bryan Campbell	Date Reported:	12/12/11
Walnut Creek, CA 94597	Client P.O.: #WC083369	Date Completed:	12/12/11

WorkOrder: 1112136

December 12, 2011

Dear Bryan:

Enclosed within are:

- 1) The results of the **6** analyzed samples from your project: **#298931; Buestad,**
- 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.

we	bsite: <u>www.m</u> lephone: (877	1534 WII PITTSBU ccampbel	LLOW PA: RG, CA 94 Lcom En 62	SS R0 1565-1	DAD 1701 main@ Fax	mcc	amp	L	13 1.con	n							AF	ROL	UNI ED	D T	TIM	P C	DF	RU RU	J SH E	2 xce	4 HR		48 H Wri	ite O d "J'	72 I Dn (I	a 🖷 🛛
Company: AEI C		2500 Car				ut C	reel	6 C	'A 9	459	07			\vdash					1													
PO#: WC083369	and the second se			oreg																	1			+	1	+	-	-	+	-	-	**Indicate here if these
Global ID: T060			E-	Mail	: bcar	npb	ella	aei	icon	sul	tan	ts.co	om	1	1090																	samples are
	ele: (925) 746-6044 Fax: (925) 746-6099									1	010	-																potentially				
	Project #: 298931 Project Name: Buestad									1	nato																	dangerous to				
Project Location: 1630 Park Street, Alameda, California									1	0.000	0																handle:					
Sampler Signatur		msi													Č																	
	SAMPLING MATRIX MET								(8015)	and End Ovvanates (\$760)																						
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HNO	Other	TPH as Gasoline	MTRF RTFV an	-																
MW-1	MW-1	12-6-11	0845	6	VOA	X				T	X	X		X	2	(
MW-2	MW-2	1	0823	6	VOA	X				+	X	x	-	x	>	(-	-		-		-		-	-	-	-	-			+	
MW-3	MW-3		0755	6	VOA	X		-	-		X	-	-	X	_		-	-	-	-	1	-	-	+	-	-	-	+			+	
DPE-1	DPE-1		0930	6	VOA	X		-	-		X	-	-	X			-	-	-	-	-	-	-	+	+	+	-	-	\vdash		+	
DPE-2	DPE-2					X	_	-	-		X	_	+	_	>		+	+	-	-	-	+	-	-	+	-	-	-		\rightarrow	+	
			102.5	6	VOA		_	_	-	_	_	_	-		_		-	-	-	-	-	-	-	-	-	-	-	-			-	
DPE-3	DPE-3	4	0955	6	VOA	X		-	+	+	X	X	+	X	2		-	+	-	+	-	+	-	+	-	-	-	+	\square	-	-	
**MAI clients MUST gloved, open air, sam allowing us to work sa	ple handling by																															
Relinquished By:	hag	Date: 12.L-N Date:	Time: 1357 Time:		eived E	h	Q		V	U	20	2	COMMENTS: GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB APPROPRIATE CONTAINERS																			
Relinquished By:		Date:	Time:	Rec	eived B	ly:							PRESERVED IN LAB VOAS O&G METALS OTHER PRESERVATION pH<2																			

McCampbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Lab ID Client ID	Matrix Co	Ilection Date Hold	1 2	F 3 4	Requested Tests	s (See legend b	elow) 9 10	11	12
Bryan Campbell AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 (510) 420-3355 FAX: (408) 559-7601	Email: bcampbell@aeicor cc: PO: #WC083369 ProjectNo: #298931; Buestad		A 25 W	alnut Creek, 0	iablo, Ste. #200	Date Printed:			2011 2011
Report to:	WaterTrax WriteOn	∠ EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	U J-fl	lag days
(925) 252-9262			WorkOrder	r: 1112136	Client	Code: AEL			

								-		-	-	-	
				-									
1112136-001	MW-1	Water	12/6/2011 8:45		А	В	А						
1112136-002	MW-2	Water	12/6/2011 8:23		А	В							
1112136-003	MW-3	Water	12/6/2011 7:55		А	В							
1112136-004	DPE-1	Water	12/6/2011 9:30		А	В							
1112136-005	DPE-2	Water	12/6/2011 10:25		А	В							
1112136-006	DPE-3	Water	12/6/2011 9:55		А	В							

Test Legend:

1	G-MBTEX_W
6	
11	

2	MBTEXOXY-8260B_W
7	
12	

3	PREDF REPORT
8	

	4	
	9	

5		
1)	

Prepared by: Zoraida Cortez

Comments:

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



Sample Receipt Checklist

Client Name:	AEI Consultants				Date	and 1	Time Received:	12/6/2011 2	:32:54 PM			
Project Name:	#298931; Buestad				Chec	klist o	completed and re	viewed by:	Zoraida Cortez			
WorkOrder N°:	1112136	Matrix: Water			Carrie	er:	Client Drop-In					
		<u>Chair</u>	n of Cu	ustody (CO	<u>C) Informa</u>	ation						
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 noted	d by Client on COC?		Yes	✓	No							
Date and Time of	f collection noted by C	Client on COC?	Yes	✓	No 🗌							
Sampler's name	noted on COC?		Yes	✓	No 🗌							
		<u>S</u>	ample	e Receipt In	formation	<u>l</u>						
Custody seals int	act on shipping conta	iner/cooler?	Yes		No 🗌			NA 🗹				
Shipping containe	er/cooler in good cond	dition?	Yes	✓	No 🗌							
Samples in prope	er containers/bottles?		Yes	✓	No 🗌							
Sample container	rs intact?		Yes	✓	No 🗌							
Sufficient sample	volume for indicated	test?	Yes	✓	No 🗌							
		Sample Prese	rvatio	n and Hold	Time (HT)) Info	ormation					
All samples recei	ved within holding tim	-	Yes	✓	No 🗌							
Container/Temp I	Blank temperature		Coole	er Temp: 5	5.2°C			NA				
Water - VOA vials	s have zero headspac	ce / no bubbles?	Yes	✓	No 🗌	No	VOA vials submi	tted 🗌				
Sample labels ch	ecked for correct pres	servation?	Yes	✓	No 🗌							
Metal - pH accep	table upon receipt (pł	1 <2)?	Yes		No 🗌			NA 🗹				
Samples Receive	ed on Ice?		Yes	✓	No 🗌							
		(Ісе Туре	: WE	TICE)								
* NOTE: If the "N	NOTE: If the "No" box is checked, see comments below.											

Client contacted:

Date contacted:

Contacted by:

Comments:

	Campbell Ana "When Quality Con		1534 Willow I Toll Free Telepho http://www.mccam	5) 252-926			
AEI Consultants		Client Project ID:	#298931; Buestad	Date Sample	ed: 12	/06/11	
2500 Camino Dia	ablo Ste #200			Date Receiv	ved: 12	/06/11	
2500 Calilino Die	1010, Ste. #200	Client Contact: B	ryan Campbell	Date Extrac	ted 12	/07/11-	12/09/11
Walnut Creek, CA	A 94597	Client P.O.: #WC	083369	Date Analyz	zed 12	/07/11-	12/09/11
	Gasoline Ra	nge (C6-C12) Vola	tile Hydrocarbons as (Gasoline*			
Extraction method: SW50			ethods: SW8015Bm		W	ork Order:	1112136
Lab ID	Client ID	Matrix	TPH(g)		DF	% SS	Comments
001A	MW-1	W	900		1	94	d1
002A	MW-2	W	4800		10	115	d1
003A	MW-3	W	1800		1	102	d1
004A	DPE-1	W	9200		10	106	d1
005A	DPE-2	W	22,000		10	117	d1
006A	DPE-3	W	6400		10	115	d1

Reporting Limit for DF =1; ND means not detected at or	W	50	μg/L
above the reporting limit	S	NA	NA

* 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

Angela Rydelius, Lab Manager

When Qu	Analytical ality Counts''			ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@					
AEI Consultants	Client P	roject ID: #2989	31; Buestad	Date Sampled:	12/06/11				
2500 Camino Diablo, Ste. #200				Date Received:	12/06/11				
2300 Calinio Diabio, 5tc. #200	Client C	ontact: Bryan Ca	ampbell	Date Extracted:	: 12/09/11-12/10/1				
Walnut Creek, CA 94597	Client P	.O.: #WC083369		Date Analyzed:	12/09/11-1	2/10/11			
	Oxvgen	ates and BTEX b	ov GC/MS*	<u> </u>					
Extraction Method: SW5030B		alytical Method: SW826	-		Work Order:	1112136			
Lab ID	1112136-001B	1112136-002B	1112136-003B	1112136-004B					
Client ID	MW-1	MW-2	MW-3	DPE-1	Reporting				
Matrix	W	W	W	W					
DF	10	100	33	100	S	W			
Compound		Conce		ug/kg	μg/L				
tert-Amyl methyl ether (TAME)	ND<5.0	ND<50	ND<17	ND<50	NA	0.5			
Benzene	160	1600	620	1800	NA	0.5			
t-Butyl alcohol (TBA)	ND<20	ND<200	ND<67	ND<200	NA	2.0			
Diisopropyl ether (DIPE)	ND<5.0	ND<50	ND<17	ND<50	NA	0.5			
Ethylbenzene	68	260	22	460	NA	0.5			
•		ND<50	ND<17	ND<50	NA	0.5			
Ethyl tert-butyl ether (ETBE)	ND<5.0	ND<50		IND<50					
•	ND<5.0 ND<5.0	ND<50	ND<17	ND<50	NA	0.5			
Ethyl tert-butyl ether (ETBE)			ND<17 28		NA NA	0.5 0.5			
Ethyl tert-butyl ether (ETBE) Methyl-t-butyl ether (MTBE) Toluene	ND<5.0	ND<50		ND<50					
Ethyl tert-butyl ether (ETBE) Methyl-t-butyl ether (MTBE)	ND<5.0 ND<5.0 76	ND<50 ND<50	28 46	ND<50 570	NA	0.5			
Ethyl tert-butyl ether (ETBE) Methyl-t-butyl ether (MTBE) Toluene	ND<5.0 ND<5.0 76	ND<50 ND<50 ND<50	28 46	ND<50 570	NA	0.5			

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

		<u>, Inc.</u>	Toll Free Teleph	v Pass Road, Pittsburg, CA hone: (877) 252-9262 / Fax mpbell.com / E-mail: main(: (925) 252-9269			
AEI Consultants	Client Pr	oject ID: #2989	31; Buestad	Date Sampled:	12/06/11			
0500 C . D: 11 C				Date Received:	12/06/11			
2500 Camino Diablo, Ste. #200	Client Co	ontact: Bryan Ca	mpbell	Date Extracted:	12/09/11-1	2/10/11		
Walnut Creek, CA 94597		.: #WC083369		Date Analyzed:	12/09/11-1	2/10/11		
	Oxygens	ites and BTEX b	v GC/MS*					
Extraction Method: SW5030B		alytical Method: SW8260	-		Work Order:	1112136		
Lab ID	1112136-005B	1112136-006B						
Client ID	DPE-2	DPE-3			Reporting			
Matrix	W	W			_			
DF	200	33		S				
Compound		Conce		ug/kg	µg/L			
tert-Amyl methyl ether (TAME)	ND<100	ND<17			NA	0.5		
Benzene	2100	550			NA	0.5		
t-Butyl alcohol (TBA)	ND<400	ND<67			NA	2.0		
Diisopropyl ether (DIPE)	ND<100	ND<17			NA	0.5		
Ethylbenzene	650	180			NA	0.5		
Ethyl tert-butyl ether (ETBE)	ND<100	ND<17			NA	0.5		
Methyl-t-butyl ether (MTBE)	ND<100	ND<17			NA	0.5		
Toluene	3300	560			NA	0.5		
Xylenes, Total	3300	1000			NA	0.5		
	Surro	gate Recoveries	(%)					
%SS1:	110	111						
%SS2:	104	105			<u> </u>			
Comments								
water and vapor samples are reported in µg extracts are reported in mg/L, wipe samples in ND means not detected above the reporting ling surrogate diluted out of range or coelutes w	n μg/wipe. mit/method detectio	n limit; N/A means an	nalyte not applicat	ble to this analysis.	all ICLP & S	PLP		
%SS = Percent Recovery of Surrogate Standa DF = Dilution Factor	rd							



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water			QC Matrix	k: Water			Batch	ID: 63168		WorkOrder: 1112136				
EPA Method: SW8015Bm	Extrac	tion: SW	5030B					5	Spiked Sam	ple ID:	1112083-0	04A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH(btex) [£]	ND	60	102	102	0	101	98.6	2.50	70 - 130	20	70 - 130	20		
MTBE	ND	10	106	108	1.88	100	105	5.12	70 - 130	20	70 - 130	20		
Benzene	ND	10	96.4	97	0.609	96.2	96.5	0.404	70 - 130	20	70 - 130	20		
Toluene	ND	10	99	99.6	0.605	98.4	99.4	0.966	70 - 130	20	70 - 130	20		
Ethylbenzene	ND	10	104	104	0	103	106	3.00	70 - 130	20	70 - 130	20		
Xylenes	ND	30	107	107	0	106	108	2.11	70 - 130	20	70 - 130	20		
%SS:	107	10	90	91	0.858	92	91	1.52	70 - 130	20	70 - 130	20		
All target compounds in the Method Bla NONE	nk of this extr	action bate	h were NE	less than	the method	RL with	the follow	ing exception	s:					

BATCH 63168 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112136-001A	12/06/11 8:45 AM	I 12/07/11	12/07/11 1:38 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.

 \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.

DHS ELAP Certification 1644

K___QA/QC Officer



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water			QC Matrix	c: Water			Batch	ID: 63221	WorkOrder: 1112136							
EPA Method: SW8015Bm	Extrac	tion: SW	5030B					5	Spiked Sam	ple ID:	1112139-0	06A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	D Acceptance Criteria (%)							
, individ	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD				
TPH(btex) [£]	ND	60	98.5	102	3.19	102	101	1.19	70 - 130	20	70 - 130	20				
MTBE	ND	10	108	114	5.33	109	109	0	70 - 130	20	70 - 130	20				
Benzene	ND	10	97.3	101	3.65	97.1	96.6	0.528	70 - 130	20	70 - 130	20				
Toluene	ND	10	99.8	103	3.18	99.5	99.1	0.373	70 - 130	20	70 - 130	20				
Ethylbenzene	ND	10	104	108	3.57	104	104	0	70 - 130	20	70 - 130	20				
Xylenes	ND	30	108	111	2.62	107	107	0	70 - 130	20	70 - 130	20				
%SS:	101	10	90	89	1.33	90	89	0.813	70 - 130	20	70 - 130	20				
All target compounds in the Method Bla NONE	nk of this extr	action bate	h were NE	less than	the method	RL with	the follow	ing exception	s:		-					

BATCH 63221 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112136-002A	12/06/11 8:23 AM	12/08/11	12/08/11 12:09 AM	1112136-003A	12/06/11 7:55 AM	12/08/11	12/08/11 1:09 AM
1112136-003A	12/06/11 7:55 AM	12/09/11	12/09/11 4:51 AM	1112136-004A	12/06/11 9:30 AM	12/08/11	12/08/11 3:08 AM
1112136-005A	12/06/11 10:25 AM	12/08/11	12/08/11 5:07 AM	1112136-006A	12/06/11 9:55 AM	12/08/11	12/08/11 6:07 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.

K___QA/QC Officer



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water	QC Matrix:	Water			BatchID	: 63179	WorkOrder: 1112136							
EPA Method: SW8260B	Extraction: SW5030B						Spiked Sam	1112089-006B						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)							
, indigeo	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS					
tert-Amyl methyl ether (TAME)	ND	10	110	98.5	11.3	98.2	70 - 130	30	70 - 130					
Benzene	ND	10	93.8	87.6	6.81	93.1	70 - 130	30	70 - 130					
t-Butyl alcohol (TBA)	6.9	40	97.1	94.9	1.90	96.2	70 - 130	30	70 - 130					
1,2-Dibromoethane (EDB)	ND	10	100	98.8	1.50	99.6	70 - 130	30	70 - 130					
1,2-Dichloroethane (1,2-DCA)	ND	10	97.7	93.1	4.76	97.5	70 - 130	30	70 - 130					
Diisopropyl ether (DIPE)	ND	10	89.8	86	4.31	89.2	70 - 130	30	70 - 130					
Ethyl tert-butyl ether (ETBE)	ND	10	93.1	89.4	4.06	93.1	70 - 130	30	70 - 130					
Methyl-t-butyl ether (MTBE)	1.8	10	95.2	92.4	2.53	96.8	70 - 130	30	70 - 130					
Toluene	ND	10	91.8	86	6.45	90.9	70 - 130	30	70 - 130					
%SS1:	102	25	111	112	0.418	112	70 - 130	30	70 - 130					
%SS2:	104	25	98	100	1.25	99	70 - 130	30	70 - 130					

NONE

BATCH 63179 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112136-001B	12/06/11 8:45 AM	12/09/11	12/09/11 10:51 PM	1112136-002B	12/06/11 8:23 AM	12/09/11	12/09/11 10:45 PM
1112136-003B	12/06/11 7:55 AM	12/09/11	12/09/11 11:26 PM	1112136-004B	12/06/11 9:30 AM	12/10/11	12/10/11 12:07 AM
1112136-005B	12/06/11 10:25 AM	12/10/11	12/10/11 12:47 AM	1112136-006B	12/06/11 9:55 AM	12/10/11	12/10/11 1:29 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.

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

A QA/QC Officer

DHS ELAP Certification 1644



McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

AEI Consultants	Client Project ID: #298931; Buestad	Date Sampled: 01/24/12
2500 Camino Diablo, Ste. #200		Date Received: 01/24/12
2000 Cullino Diabio, 5tc. #200	Client Contact: Bryan Campbell	Date Reported: 01/31/12
Walnut Creek, CA 94597	Client P.O.: #WC083440	Date Completed: 01/30/12

WorkOrder: 1201629

January 31, 2012

Dear Bryan:

Enclosed within are:

- 1) The results of the **9** analyzed samples from your project: **#298931; Buestad,**
- 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.

	McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701 20/629									Т	UF	RN	AR						FO	Ę	3	0	DY	R	EC	C O	RD					
	Website: <u>www.m</u> Felephone: (87'	ccampbel	L.com En		main@	mcca : (92	mpb	ell.co	m				G	ieo'	Tra	nck	er I	ED	F [[xce		h V		ite (On (5 DAY V) 🖵 required
Report To: Br	an Campbell		I	Bill T	`o:				_						_			ł	Ana	lysi	s Re	que	st						0	ther		Comments
	I Consultants,	2500 Car	nino Dia	ıblo,	Waln	ut Cr	eek,	CAS	9459	07																						**Indicate
PO#: WC0834												_							1	*	4											here if these
Global ID: T0					l: bcai			eicor	nsult	tant	ts.co	m																				samples are
Tele: (925) 7	and the second se				(925)							_																				potentially
Project #: 2989	the second se				ct Nai	me: E	Buest	ad				_			(c)																	dangerous to
	on: 1630 Park S		-	Calif	ornia		-					_			(801														-			handle:
Sampler Signa	ture: 90		ng	-		-			-	ME	THO	-	2	(09	Ö																	
		SAMI	PLING		~	N	IAT	RIX			THO		(801	(82)	Motor Oil (8015)																	
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	-	HCL			TPH as Gasoline	MTBE and BTEX (8260)	TPH as Diesel and M																	
MW-1	MW-1	1-24-12	1125	6	VOA	X			_	X	-			Х		-		-	-	-	-	-	+	-	-		-	+	_	+	+	
MW-2	MW-2	1-24-16			VOA	X	-		_	XX			_	X	-	-	-	-	-	-	-	-	-	-			-	+	-	-	+	
MW-3	MW-3		1105		VOA	X	-	++		XX				X	-	-		-	-	-	-	+	+	-	-		-	+		-	+	
DPE-1	DPE-1		1037	6	VOA	X	+	-	_	XJ	_			X		-		-	-	-	-	+	-	-	-		-	+	_	-	+	
DPE-2	DPE-2		1105	6	VOA	X	+	++	_	X X	_			X	-	-			-	-	-	-	-	-	-		-	+	_	-	+	
DPE-3	DPE-3		0938	6	VOA	X	+			XX	-			X		-	<u>^</u>	-	-	-	-	-	-	-	-		-	+		+	+	
DPE-4	DPE-4		080	-	VOA	X	+			X X				Х				-	-	-	-	-	-	-	-		-	+	-	+	+	
DPE-6	DPE-6		0900		VOA	X	+			X X			X		Х			_	-		-	+	-	-			-	+	-	+	+	
DPE-9	DPE-9	*	1015	6	VOA	X			_	X)			X																		t	
**MAI clients MU gloved, open air, sa	mple handling by l	ngerous che MAI staff.	micals kno	own te	o be pre	esent in	n their	r subn e \$250	nitted surc	l san	nples ge and	in co	ncen	tratint is :	ions subje	that ect to	may full	caus	se im I liat	med	liate	harm	or so suff	eriou ered.	s fut Tha	ure he	ealth	end:	angei ur un	ment	as a	result of brief,
allowing us to wor Relinquished By:		Date:	Time	Rec	eived B	v:	. /		\overline{n}			_	ICE	E/t°	18	10			/	_							OM	ME	NTS:			
Relinquished By:	ngg	1-24-12 Date:	Time:	1	eived B	l	Va	H	K			_	GO HE DE	OD AD S CHL	CON SPAC	CE A	TON BSE TED	NT_IN L		DE	-							. retai				
Relinquished By:		Date:	Time:	Rec	eived B	y:						_	PR	ESE	RVE					RS_	MI		LS	OTH	IER	8						

McCampbell Analytical, Inc. 1534 Willow Pass Rd



Page 1 of 1

Pittsburg, (925) 252	CA 94565-1701 -9262					Work	Order:	12010	629	Client(Code: A	EL				
		WaterTrax	writeOr	n 🗌 EDF		Excel	[Fax	🖌 Emai	il	Hard	dCopy	Thir	dParty	J -1	flag
Report to:							Bill to:					Req	uested T/	AT:	5	days
Bryan Campt AEI Consulta 2500 Camino Walnut Creek (925) 746-6000	nts Diablo, Ste. #200 x, CA_94597		bcampbell@a #WC083440 #298931; Bue	eiconsultants.con estad	n		AE 250 Wa	Inut Cr		7			e Receiv e Printeo		01/24/ 01/24/	
									Requeste	d Tests	(See leg	gend be	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4 5	6	7	8	9	10	11	12
1201629-001	MW-1		Water	1/24/2012 11:35		А	В								Τ	
1201629-002	MW-2		Water	1/24/2012 11:05		А	В									
1201629-003	MW-3		Water	1/24/2012 10:37		А	В									
1201629-004	DPE-1		Water	1/24/2012 11:05		А	В									
1201629-005	DPE-2		Water	1/24/2012 11:21		А	В									
1201629-006	DPE-3		Water	1/24/2012 9:38		А	В									
1201629-007	DPE-4		Water	1/24/2012 8:10		А	В									
1201629-008	DPE-6		Water	1/24/2012 9:00		А	В	С						1		

Test Legend:

1201629-009

1	G-MBTEX_W
6	
11	

2	MBTEX-8260B_W	
7		
12		

Water

DPE-9

3	TPH(DMO)_W
8	

1/24/2012 10:15

А

В

4	
9	

5	
10	

Prepared by: Melissa Valles

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 Tin	ne Received:	1/24/2012 2:	16:02 PM
Project Name:	#298931; Buestad				Check	klist cor	mpleted and re	viewed by:	Melissa Valles
WorkOrder N°:	1201629	Matrix: <u>Water</u>			Carrie	ər: <u>(</u>	Client Drop-In		
		Cha	in of Cւ	ustody (Co	OC) Informa	ation			
Chain of custody	present?		Yes	✓	No 🗌				
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No				
Chain of custody	agrees with sample la	bels?	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 🗌				
			<u>Sample</u>	Receipt	Information	L			
Custody seals int	tact on shipping contai	ner/cooler?	Yes		No 🗌			NA 🗹	
Shipping contain	er/cooler in good cond	ition?	Yes	✓	No 🗌				
Samples in prope	er containers/bottles?		Yes	✓	No 🗌				
Sample containe	rs intact?		Yes	✓	No 🗌				
Sufficient sample	e volume for indicated t	test?	Yes	✓	No				
		Sample Pres	ervatio	n and Hol	d Time (HT)) Inform	nation		
All samples recei	ived within holding time	e?	Yes	✓	No				
Container/Temp	Blank temperature		Coole	er Temp:	1.8°C			NA	
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes	✓	No 🗌	No VC	DA vials submi	tted 🗌	
Sample labels ch	necked for correct pres	ervation?	Yes	✓	No				
Metal - pH accep	table upon receipt (pH	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, see	e comments below.							

Comments:

₩C	Campbell Ana "When Quality Con			Pass Road, Pittsburg ne: (877) 252-9262 pbell.com / E-mail:	/ Fax: (92:	5) 252-9269	
AEI Consultants	3	Client Project ID:	Date Sampled: 01/24/12				
2500 Camino Di	iablo Ste #200			Date Received: 01/24/12			
	14010, 510. #200	Client Contact: B	ryan Campbell	Date Extract	ted 01	/26/12-0	01/28/12
Walnut Creek, C	CA 94597	Client P.O.: #WC	083440	Date Analyz	zed 01	/26/12-0	01/28/12
	Gasoline Ra	nge (C6-C12) Vola	tile Hydrocarbons as (Gasoline*			
Extraction method: SW		Analytical m	ethods: SW8015Bm		Wo	ork Order:	1201629
Lab ID	Client ID	Matrix	TPH(g)		DF	% SS	Comments
001A	MW-1	W	190		1	123	d1
002A	MW-2	W	2500		2	95	d1
003A	MW-3	W	3700		10	93	d1
004A	DPE-1	W	3200		2	118	d1
005A	DPE-2	W	1100		2	124	d1
006A	DPE-3	W	5500		5	122	d1
007A	DPE-4	W	730		1	125	d1
008A	DPE-6	W	64		1	101	d1
009A	DPE-9	W	4400		5	122	d1

Reporting Limit for $DF = 1$; ND means not detected at or	W	50	µg/L
above the reporting limit	S	NA	NA

* 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

Angela Rydelius, Lab Manager

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					
AEI Consultants		Client Project ID: #298931; Buestad				Date Sampled: 01/24/12				
2500 Camino Diablo, Ste. #200						Date Received:	01/24/12			
2300 Camilio Diabio, 50. #200		Client Co	ontact: Bry	yan Ca	mpbell	Date Extracted:	01/25/12-0)1/27/12		
Walnut Creek, CA 94597		Client P.	O.: #WC03	83440		Date Analyzed:	01/25/12-0)1/27/12		
Extraction Method: SW5030B			E and BTE	•			Work Order:	1201629		
Lab ID	12016	29-001B	1201629-	002B	1201629-003B	1201629-004B				
Client ID	М	W-1	MW-2	2	MW-3	DPE-1		ng Limit for DF =1		
Matrix		W	W		W	W				
DF		2	10		50	10	S	W		
Compound		Con			entration	ug/kg	μg/L			
Benzene		25	100		1200	170	NA	0.5		
Ethylbenzene		1.4	ND<5.	0	34	ND<5.0	NA	0.5		
Methyl-t-butyl ether (MTBE)	NI	ND<1.0		0	ND<25	ND<5.0	NA	0.5		
Toluene	NI	D<1.0	22		68	58	NA	0.5		
Xylenes, Total		4.6	410		130	620	NA	0.5		
		Surro	ogate Reco	veries	; (%)					
%SS1:	1	111	108		108	109				
%SS2:		97	97		96	96				
Comments										
* water and vapor samples are reported in μ ₄ extracts are reported in mg/L, wipe samples	in µg/wij	pe.	-		-		all TCLP & S	SPLP		
ND means not detected above the reporting						-				
 # surrogate diluted out of range or coelutes v %SS = Percent Recovery of Surrogate Stand DF = Dilution Factor 		her peak; &)	low surrogat	e due to	matrix interference.					

McCampbell A		<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; Buestad	Date Sampled: 01/24/12			
2500 Camino Diablo, Ste. #200				Date Received:	01/24/12		
	Client C	ontact: Bryan Ca	mpbell	Date Extracted:	01/25/12-0)1/27/12	
Walnut Creek, CA 94597	Client P.	O.: #WC083440		Date Analyzed:	01/25/12-0)1/27/12	
Extraction Method: SW5030B		E and BTEX by alytical Method: SW826			Work Order:	1201629	
Lab ID	1201629-005B	1201629-006B	1201629-007B	1201629-008B			
Client ID	DPE-2	DPE-3	DPE-4	DPE-6	Reporting Limit for DF =1		
Matrix	W	W	W	W			
DF	5	10	5	1	S	W	
Compound		Conce	entration		ug/kg	µg/L	
Benzene	44	290	66	ND	NA	0.5	
Ethylbenzene	11	44	7.1	ND	NA	0.5	
Methyl-t-butyl ether (MTBE)	ND<2.5	ND<5.0	ND<2.5	ND	NA	0.5	
Toluene	26	240	6.0	ND	NA	0.5	
Xylenes, Total	150	1000	83	3.2	NA	0.5	
	Surro	ogate Recoveries	s (%)				
%SS1:	108	110	107	108			
%SS2:	99	97	99	100			
Comments				1	•		
* water and vapor samples are reported in $\mu g/$ extracts are reported in mg/L, wipe samples in		samples in mg/kg, pi	oduct/oil/non-aqueo	us liquid samples and	all TCLP & S	SPLP	
ND means not detected above the reporting lin	mit/method detection	on limit; N/A means a	nalyte not applicable	e to this analysis.			
# surrogate diluted out of range or coelutes wi	ith another peak; &) low surrogate due to	matrix interference.				
%SS = Percent Recovery of Surrogate Standar DF = Dilution Factor	rd						

McCampbell A		Inc.	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 Proj	Client Project ID: #298931; Buestad Dat			Date Sampled: 01/24/12			
2500 Camino Diablo, Ste. #200					Date Received: 01/24/12			
2300 Cullino Diablo, 510. #200	Client Con	tact: Bryan C	Campbell	Date Extracted:	01/25/12-0	01/27/12		
Walnut Creek, CA 94597	Client P.O	.: #WC08344	0	Date Analyzed:	01/25/12-0)1/27/12		
Extraction Method: SW5030B		and BTEX by		·	Work Order:	1201629		
Lab ID	1201629-009B							
Client ID	DPE-9				Reporting			
Matrix	W							
DF	10				S	W		
Compound		Con	centration		ug/kg	µg/L		
Benzene	160				NA	0.5		
Ethylbenzene	93				NA	0.5		
Methyl-t-butyl ether (MTBE)	ND<5.0				NA	0.5		
Toluene	390				NA	0.5		
Xylenes, Total	1100				NA	0.5		
	Surrog	ate Recoveri	es (%)					
%SS1:	109							
%SS2:	99							
Comments								
* water and vapor samples are reported in μg/I extracts are reported in mg/L, wipe samples in		mples in mg/kg,	product/oil/non-aque	eous liquid samples and	all TCLP & S	PLP		
ND means not detected above the reporting lin	nit/method detection	limit; N/A means	analyte not applicab	le to this analysis.				
 # surrogate diluted out of range or coelutes wit %SS = Percent Recovery of Surrogate Standar DF = Dilution Factor 	-	ow surrogate due	to matrix interferenc	e.				

		C. Toll Free	Telephone: (877) 252-9262 / Fax:	(925) 252-9	269			
ts	Client Project	ID: #298931; Buesta	d Date Sampled:	01/24	/12			
Diable Sta #200			Date Received:	01/24	/12			
Jiaolo, Ste. #200	Client Contac	t: Bryan Campbell	Date Extracted:	01/24/12				
CA 94597	Client P.O.:	#WC083440	Date Analyzed:	lyzed: 01/25/12				
SW3510C			carbons*	v	Work Order: 1201629			
Client ID	Matrix TPH-Diesel TPH-Motor Oil (C10-C23) (C18-C36)				% SS	Comments		
DPE-6	W	ND	ND	1	87			
	<i>''When Quality Con</i> ts Diablo, Ste. #200 CA 94597 <u>SW3510C</u> Client ID	"When Quality Counts" ts Client Project Diablo, Ste. #200 Client Contact CA 94597 Client P.O.: = Total Extract SW3510C Analytica Client ID Matrix	Composed Analytical, Inc. Toll Free "When Quality Counts" Toll Free "When Quality Counts" http://www ts Client Project ID: #298931; Buesta Diablo, Ste. #200 Client Contact: Bryan Campbell CA 94597 Client P.O.: #WC083440 Total Extractable Petroleum Hydro SW3510C Analytical methods: SW8015B Client ID Matrix TPH-Diesel (C10-C23) Client P.O.23	Composed Analytical, Inc Toll Free Telephone: (877) 252-9262 / Fax: http://www.mccampbell.com / E-mail: main@ ''When Quality Counts'' Client Project ID: #298931; Buestad Date Sampled: Diablo, Ste. #200 Client Project ID: #298931; Buestad Date Sampled: Client Contact: Bryan Campbell Date Extracted: CA 94597 Client P.O.: #WC083440 Date Analyzed: Total Extractable Petroleum Hydrocarbons* SW3510C Analytical methods: SW8015B Client ID Matrix TPH-Diesel TPH-Motor Oil (Client-Contact: TPH-Diesel TPH-Motor Oil (Clien-C23)	Composed Andry Ticcit, Inc Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9 "When Quality Counts" Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9 ts Client Project ID: #298931; Buestad Date Sampled: 01/24 Diablo, Ste. #200 Client Contact: Bryan Campbell Date Extracted: 01/24 CA 94597 Client P.O.: #WC083440 Date Analyzed: 01/25 Total Extractable Petroleum Hydrocarbons* SW3510C Client ID Matrix TPH-Diesel TPH-Motor Oil DF Client ID Matrix TPH-Diesel TPH-Motor Oil DF	''When Quality Counts'' http://www.mccampbell.com / E-mail: main@mccampbell.com ts Client Project ID: #298931; Buestad Date Sampled: 01/24/12 Diablo, Ste. #200 Client Contact: Bryan Campbell Date Extracted: 01/24/12 CA 94597 Client P.O.: #WC083440 Date Analyzed: 01/25/12 Total Extractable Petroleum Hydrocarbons* SW3510C Analytical methods: SW8015B Work Order: Client ID Matrix TPH-Diesel (C10-C23) TPH-Motor Oil (C18-C36) DF % SS		

Reporting Limit for DF =1; ND means not detected at or	W	50	250	μg/L
above the reporting limit	S	NA	NA	mg/Kg

* 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 / STLC / SPLP / TCLP extracts are reported in μg/L.

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; %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:

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water	QC Matrix	Water		BatchID: 64315			WorkOrder: 1201629		
EPA Method: SW8015Bm Extraction: S	SW5030B						Spiked Sam	ple ID:	1201654-002C
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	121	114	5.47	119	70 - 130	20	70 - 130
MTBE	ND	10	104	92.3	11.6	104	70 - 130	20	70 - 130
Benzene	ND	10	106	100	5.63	105	70 - 130	20	70 - 130
Toluene	ND	10	105	101	4.38	103	70 - 130	20	70 - 130
Ethylbenzene	ND	10	106	103	3.33	104	70 - 130	20	70 - 130
Xylenes	ND	30	108	106	1.69	107	70 - 130	20	70 - 130
%SS:	106	10	94	94	0	95	70 - 130	20	70 - 130
All target compounds in the Method Blank of this extraction b NONE	atch were ND	less than th	e method	RL with th	ne following	g exceptio	ns:		

BATCH 64315 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201629-001A	01/24/12 11:35 AM	01/27/12	01/27/12 5:08 AM	1201629-002A	01/24/12 11:05 AM	01/27/12	01/27/12 2:14 AM
1201629-003A	01/24/12 10:37 AM	01/26/12	01/26/12 5:30 AM	1201629-004A	01/24/12 11:05 AM	01/26/12	01/26/12 5:57 AM
1201629-004A	01/24/12 11:05 AM	01/26/12	01/26/12 6:14 PM	1201629-005A	01/24/12 11:21 AM	01/27/12	01/27/12 6:42 PM
1201629-006A	01/24/12 9:38 AM	01/27/12	01/27/12 5:37 AM	1201629-007A	01/24/12 8:10 AM	01/28/12	01/28/12 3:00 AM
1201629-008A	01/24/12 9:00 AM	01/28/12	01/28/12 3:29 AM	1201629-009A	01/24/12 10:15 AM	01/27/12	01/27/12 6:06 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.

AL__QA/QC Officer



NONE

QC SUMMARY REPORT FOR SW8260B

QC Matrix: Water BatchID: 64367 WorkOrder: 1201629 W.O. Sample Matrix: Water EPA Method: SW8260B Extraction: SW5030B Spiked Sample ID: 1201629-001B Sample Spiked MS MSD MS-MSD LCS Acceptance Criteria (%) Analyte µg/L µg/L % Rec. % Rec. % RPD % Rec. MS / MSD RPD LCS 25 10 NR NR NR 99 N/A N/A 70 - 130 Benzene Methyl-t-butyl ether (MTBE) ND<1.0 10 105 97.3 7.50 88.5 70 - 130 20 70 - 130 ND<1.0 10 108 93.2 14.0 95.7 70 - 130 20 70 - 130 Toluene 111 25 1.02 107 %SS1: 110 109 70 - 130 20 70 - 130 %SS2: 97 25 99 97 1.75 100 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:

BATCH 64367 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201629-001B	01/24/12 11:35 AM	01/26/12	01/26/12 1:41 AM	1201629-002B	01/24/12 11:05 AM	01/25/12	01/25/12 4:09 PM
1201629-003B	01/24/12 10:37 AM	01/26/12	01/26/12 2:19 AM	1201629-004B	01/24/12 11:05 AM	01/26/12	01/26/12 2:57 AM
1201629-006B	01/24/12 9:38 AM	01/26/12	01/26/12 4:13 AM	1201629-009B	01/24/12 10:15 AM	01/26/12	01/26/12 6:08 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.

DHS ELAP Certification 1644

K___QA/QC Officer



QC SUMMARY REPORT FOR SW8260B

QC Matrix: Water BatchID: 64416 WorkOrder: 1201629 W.O. Sample Matrix: Water EPA Method: SW8260B Extraction: SW5030B Spiked Sample ID: 1201679-001A Sample Spiked MS MSD MS-MSD LCS Acceptance Criteria (%) Analyte µg/L µg/L % Rec. % Rec. % RPD % Rec. MS / MSD RPD LCS ND 10 98.6 96.7 1.93 99.5 70 - 130 20 70 - 130 Benzene Methyl-t-butyl ether (MTBE) ND 10 95.4 95.2 0.279 88 70 - 130 20 70 - 130 ND 10 93.5 92.4 1.21 96.3 70 - 130 20 70 - 130 Toluene 109 25 0 %SS1: 109 109 106 70 - 130 20 70 - 130 %SS2: 96 25 98 99 0.205 101 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 64416 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201629-005B	01/24/12 11:21 AM	01/27/12	01/27/12 2:54 AM	1201629-007B	01/24/12 8:10 AM	01/27/12	01/27/12 3:31 AM
1201629-008B	01/24/12 9:00 AM	01/27/12	01/27/12 4:09 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.

K___QA/QC Officer

DHS ELAP Certification 1644



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water	O. Sample Matrix: Water QC Matrix: Water				BatchID: 64271			WorkOrder: 1201629		
EPA Method: SW8015B	Extraction: SW3510C					5	Spiked Sam	ple ID:	N/A	
Analyte	Sample	Sample Spiked M			MS-MSD	LCS	Acc	cceptance 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	111	N/A	N/A	70 - 130	
%SS:	N/A	625	N/A	N/A	N/A	97	N/A	N/A	70 - 130	
All target compounds in the Method Blank of NONE	this extraction batch were ND	less than th	e method	RL with th	ne following	g exception	s:			

BATCH 64271 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201629-008C	01/24/12 9:00 AM	И 01/24/12	01/25/12 4:52 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.

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

K__QA/QC Officer

APPENDIX D

WASTE MANIFESTS

12/19/2011 20:20 209538249	38		A AND S ENV	IRONMENTL		PAGE 01		
				2	BUofL	ading/Invoice		
A&S Environmental Services		LAN C	at the start		DIIOL			
P.O. Box 186	,		Service			7310_WA		
_aGrange, CA 95329					343			
(209) 538-0886 / Fax (209) 538-2498	B 🔬	800-	760-0019	16		12.11		
EPA# CAR000176537					Date	-16-11		
	1	BILLING INFORM	TION	:	CASH C			
JOB LOCATION		NAME	·		#	HECK		
		ADDRESS			CONTACT	NAME		
ADDRESS		ADDRESS	0 0 20	11 \				
CITY STATE ZIP	CO	CITY	STATE	ZIP CC				
<u></u>		PHONE NO.	PROFIL	E NO.	CUSTOM	ER EPA ID NO.		
PHONE NO. 741-6000		()		```` <u></u> ``				
PRODUCT	WASTE CODE	MANIFEST	QUANTI	TY UNITS	PRICE (For Time Of	AMOUNT Service Only)		
		1	10	Gal				
Used oil, Non-RCRA Hazardous Waste, Liquid	C:\ 221							
Used Automotive Antifreeze, Non-RCRA Hazardous Waste, Liquid	C 4, 134			Gal				
Non-RCRA Hazardous Waste Liquid	C/s 221	,200		Gal				
Used Oil & Water		\$1,000	350 980	31				
Oil & Water, Non-RCRA Hazardous Waste Liquid	CA 223	COA:	\$ 210	Gal Drum				
Empty Drum Delivery		0	<u>e 3 0 2011</u>					
Empty Drum Pick Up		DEPT:U	sel di co	Drum				
Drained Used Oil Filters		BK MO:	12/-14-	Hours				
Labor		BY:		Gal	<u></u>			
Waste Flammable Liquid Gas	CA 133	and the second s	<u>K</u>					
Non-RCRA Hazardous Waste Solid	CA 352	1	NO	Each				
Waste Tires				Gal				
Waste Flammable Liquid Paint	CA 331			Uni	15422	170000		
Other NON MAR Sold					. 3.45	1 de total		
Other:					<u> </u>			
Other:								
Other:								
Other:								
Tax	n /kerr	<u></u>						
TEST PASS 🗋		11	PPM	Test	TOTAL			
Collection Station Covernment Source Covernment	Haza	Environmental Servi rdous waste may use a your waste to a design	nother licensed to		TOTAL CHARGES	12000		
DESIGNATED TSDF: RAMOS ENVIRONME RIVERBANK OIL TRA BEST ENVIRONMENT ALTERNATE FACILIT ALTERNATE FACILIT	NTAL • 15 NSFER • 5 FAL • 2430	18, River Road * W. Sa 5300 Claus Road * Rive Almond Drive * Silver	rbank. CA 95367	CAL000190816 - (2)	09) 863-8181			
This is to certify that the bove named articles are prope aged, marked and labeled, and are in proper condition f the applicable regulations of the Department of Transpo	rly classified	ation, according to co	sts, including attom IEREBY CERTIFY ASTE, THAT THE ASTE DOES NOT	ey's fees, will be added THAT I HAVE NOT TOTAL HALIDES ARI CONTAIN ANY PCB	I to past due accour MIXED THIS WA E LESS THAN 100 S.7	tt due accounts. Collection nts placed for collections. STE WITH ANY OTHE 10 P.P.M.; AND THAT TH		
DRIVER SIGNATURE		/-	GENERATOR'S S	SIGNATURE	AMOUN	T DUE IN 30 DAYS		

DRIVER SIGNATURE

-

а 7 к 2

02/23/2012 20:23 2095382498		A AND S ENVIRONMENTL				PAGE 01	
A&S Environmental Services A- P.O. Box 186	it	N' Jer For:	emy,			Lading/Invoice	
LaGrange, CA 95329	(/	For	Service		17	7967	
(209) 538-0886 / Fax (209) 538-249			60-0019			37 .	
EPA# CAR000176537	0				چىر	Inde	
					Date	107/12-	
JOB LOCATION		BILLING INFORMA	TION				
INAME		AE-	Z.		#	CMECK	
ADDRESS PARK ST		ADDRESS	· / · · ·	, <u> </u>	12 State 12 State	CT NAME	
CITY PLANER STATE ZIP	co	СІТҮ	STATE	ZIP	CO PO#	083477	
PHONE NO.		PHONE NO.	PROFILE N	0.		IER EPA ID NO.	
()		()					
PRODUCT	WASTE	MANIFEST NUMBER	QUANTITY	UNITS	PRICE (For Time O	AMOUNT f Service Only)	
Used oil, Non-RCRA Hazardous Waste, Liquid	CA 221			Gal			
Used Automotive Antifreeze, Non-RCRA Hazardous Waste, Liquid	ĽA 134			Gal			
Non-RCRA Hazardous Waste Liquid Used Oil & Water	C'A 221			Gal			
Oil & Water, Non-RCRA Hazardous Waste Liquid	CA 223	<u>, , , , , , , , , , , , , , , , , , , </u>	<u>+ +</u>	Ģal			
Empty Drum Delivery				Drum			
Empty Drum Pick Up				Drum			
Drained Used Oil Filters				ΰπum			
Labor				Hours			
Waste Flammable Liquid Gas	CA 133			Ģal			
Non-RCRA Hazardous Waste Solid	CA 352						
Waste Tires				Each			
Waste Flammable Liquid Paint	CA 331			Ga]			
Other: Now HAZ DIRT			16	pm	15000	2400	
Other:							
Other:	a				·······		
Other:	77 h ////	-					
Тах			·	-†			
TEST PASS	F/		Tc:	st	1/2-min	1	
Collection Station Government Source Marine Source	Hazard	nvitonmental Services as ous waste may use anoth ur waste to a designated	er licensed transport	OF TA	TOTAL HARGES	240000	
DESIGNATED TSDF: C EVERGREEN ENVIRONM C RAMOS ENVIRONMENTA RIVERBANK OIL TRANSI BEST ENVIRONMENTAL	NJ, * 1518 FICR * 53(. River Road • W. Sacrame 00 Claus Road • Riverbank	nto, CA 95691 • CAL CA 95367 • CAL00	0044003556 - 0190816 • (20	(916) 371-5747 9) 863-8181		

This is to certify that the above named articles are properly cleasified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

□ ALTERNATE FACILITY □ ALTERNATE FACILITY

A service charge of 1 1/2% per month shall be charged on all past due accounts. Collections costs, including attorney's fees, will be added to past due accounts placed for collections. I HEREBY CERTIFY THAT I HAVE NOT MIXED THIS WASTE WITH ANY OTHER WASTE, THAT THE TOTAL HALIDES ARE LESS THAN 1000 P.P.M.; AND THAT THE WASTE DOES NOT CONTAIN ANY PCB'S.

DRIVER SIGNATURE

GENERATOR'S SIGNATURE

AMOUNT DUE IN 30 DAYS

APPENDIX E

FIELD FORMS

AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

		Мо	nitoring Well Number: MW-1				
Project Name:	Buestad		Date of Sampling: 17-10-11				
Job Number:	298931		Name of Sampler:				
Project Address:	1630 Park Street	t	· · · · · · · · · · · · · · · · · · ·				
	MONITO	RING WELL D	ATA				
Well Casing Diameter (2"/4	"/6")		2				
Wellhead Condition		ОК					
Elevation of Top of Casing	(feet above msl)						
Depth of Well			20.00				
Depth to Water (from top of	f casing)		8.02				
Water Elevation (feet above	e msl)		0.00				
Well Volumes Purged			3				
Gallons Purged: formula val 2" (0.16 gal/ft), 4" (0.65 gal/ft),	id only for casing sizes of and 6" (1.44 gal/ft)	3	575				
Actual Volume Purged (liter	s)		5.751-				
Appearance of Purge Wate	r						
	Free Product Prese	ent? No	Thickness (ft):				

GROUNDWATER SAMPLES

Number of Samp	les/Container S	Size			10		
Time	Vol Removed (liters)	Temperature (deg C)	р <mark>Н</mark>	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
0836	1	19.48	7,38	549	0.92	-182.1	Clea-
	2	20,01	7.36	545	0.72 0.48	-218.3	(1
	.4	20.15	7:36	579	0.39	242.7	1
0845	5	20.25	7.34	582	0.36	-230.3	
				0.00	0.91	<u> </u>	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name:	Buestad	Date of Sampling: 17- 6-1
Job Number:	298931	Name of Sampler: J. SIGG
Project Address:	1630 Park Street	

MONITORI	NG WELL DATA
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	ОК
Elevation of Top of Casing (feet above msl)	
Depth of Well	20.00
Depth to Water (from top of casing)	8,41
Water Elevation (feet above msl)	0,11
Well Volumes Purged	3
Gallons Purged: formula valid only for casing sizes of 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft)	5.56
Actual Volume Purged (liters)	6
Appearance of Purge Water	Clear
Free Product Present	? Thickness (ft):

GROUNDWATER SAMPLES

umber of Sam	ples/Container S	Size					
Time	Vol Removed (liters)	Temperature (deg C)	рН	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
0816	2	19.32	7.33	694	1.70	-313.8	Cloudy
	3	19.66	7.28	688 686	0.95	-310,7	Clear"
	4	20.08	7.28	713	0.72	-311. (
0823	6	20.22	7,28	694	0.80.	-283.2	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name: Buestad		Date of Sampling: 19- 6-1
Job Number:	298931	Name of Sampler: J. Sign
Project Address:	1630 Park Street	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2			
Wellhead Condition C	ж 💌			
Elevation of Top of Casing (feet above msl)				
Depth of Well	20.00			
Depth to Water (from top of casing)	8.25			
Water Elevation (feet above msl)	0			
Well Volumes Purged	3			
Gallons Purged: formula valid only for casing sizes of 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft)	5.64			
Actual Volume Purged (liters)	6			
Appearance of Purge Water	Light Brown Sample			
Free Product Present?	No Thickness (ft):			

GROUNDWATER SAMPLES

Number of Samp	les/Container S	Size					
Time	Vol Removed (liters)	Temperature (deg C)	pН	Conductivity (µ S/cm)	DO (mg/L)	ORP (meV)	Comments
0750	- 2 3 4 5	18.88 19.17 19.33 19.58 19.60	7.32 7.33 7.32 7.30 7.30	631 675 734 708 701	2.77 1.85 3.42 4.78 5.23	-262.1	Cloudy Clear 11 11 LT Brown
0155		Dr	Y				

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

DATE: 2-6-11

AEI CONSULTANTS MONITORING WELL DEVELOPMENT LOG

PAGE: ____ OF:____

. Siga Technician: Project Name: Buestad Location: 1630 Park Street, Alameda, CA Project Manager: Bryan Campbell 000 Conditions: C 10 Project No.: 298931 Development Method: Surging and pumping Start Time: with a submersible pump End Time: **MONITORING WELL DATA** Well Volumes Purged: Well ID: DPE-1 Calculated Gallons Purged: Well Diameter: 4 inches 2" (0.16 gal/ft) <or> 4" (0.65 gal/ft) Constructed Depth of Well: 16 Screened Interval: 7 - 15 feet Actual Volume Purged (gallons): C 0.010 Free Product Present? no Slot Size: Filter Pack Material/Size: Free Product Thickness (feet): 4,48 Depth of Well (feet): 1 Well Depth Before Development: 14,48 Depth to Water (feet): Well Depth After Development: 14.

FIELD PARAMETERS MEASURED

Time	Volume Removed (gallons)	Temp (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Appearance of Purge Water
0600	5		Gurg	120			Brown
0610	10			ing			LT BROWN
	DRI						
0920	1	18.55	7.53	781	5.82	-122,4	Cloudy
	2	1888	+.53	858		-1179	• (1 •
	3	19.01	7.51	908	5.97	-1169	11
	4	19.12	7.49	941	5.93	-116.7	1
	5	19,17	7.49	963	5.82	-117.1	1
	10	19.22	7.49	903	580	-118.9	4
	7	19.28	75	826	5.69	-121.2	Ý
	8	19.33	7.52	772	5.17	-124.9	"(
0930	9	19.29	7.53	778	6.49	-122.9	1/
		DRI	1				
	ĥ.						

1)0.		S (i.e., pumped dry, sample odor, we	in recharge time & percent, etc.)
DRY	Ver,	10 gal	
		5	

DATE: 12-6-11

Time

0940

AEI CONSULTANTS MONITORING WELL DEVELOPMENT LOG

PAGE:_____ OF:__

Appearance of

Purge Water

Project Name: Buestad		Technician: J. Siga
Location: 1630 Park Stre	eet, Alameda, C	A Project Manager: Bryan Campbell
Project No.: 298931		Conditions: Clear / Cool
Start Time:		Development Method: Surging and pumping
End Time:		with a submersible pump
		when he are the
	and spitchils spitch	MONITORING WELL DATA
Well ID: Well Diameter:	DPE-2 4 inches	Well Volumes Purged:
Constructed Depth of Well:	16	2" (0.16 gal/ft) <or> 4" (0.65 gal/ft)</or>
Screened Interval:	7 - 15 feet	Actual Volume Purged (gallons):
Slot Size:	0.010	Free Product Present? 100
Filter Pack Material/Size:		Free Product Thickness (feet):
Depth of Well (feet):	14:32	Well Depth Before Development: 14.32
Depth to Water (feet):	9.29	Well Depth After Development: 14,34

Volume Temp Conductivity DO ORP Removed рН (deg C) (µS/cm) (mg/L) (meV) (gallons) 5 Surging ISPOR.M

FIELD PARAMETERS MEASURED

0110	0		DUN	ning			a Brown
0950	10		SUF	ging			4
	1	JRG.	\bigcirc	10 0	M		7
1015	1	18.64	F.03	787	3.35	-707	LT BROWN
	2	18.92	7.06	801	1.97	-77.2	Cloudy
	3	18.98	+.08	81Z	1.93	-79.6	11
	4	19.01	7.11	825	2.90	-80.4	H
	5	19.02	7.13	849	3.64	-81.1	(1
	6	19.07	7.15	882		-83:2	11
	7	19.05	7.18	900	4.10 3.10	-91.4	(1
	8	19.05	7.18	885	2.65	-94.1	11
~	ğ	19.05	7.18	87b	2.47	-95.4	(/
1095	10	19.05	719	867	237	-96.1	Ý ×
1025	1-2-						

DRAG Q it	10 a al	
Dior a pr	10 gar	
	0	

DATE: 12-6-11

AEI CONSULTANTS MONITORING WELL DEVELOPMENT LOG

PAGE: ____ OF:___

Project Name: Buestad		Technician: <u> </u>
Location: 1630 Park Stre	eet, Alameda, C	CA Project Manager: Bryan Campbell
Project No.: 298931		Conditions: Clear Cool
Start Time:		Development Method: Surging and pumping
End Time:		with a submersible pump
		MONITORING WELL DATA
Well ID:	DPE-3	Well Volumes Purged: 5
Well Diameter:	4 inches	Calculated Gallons Purged:
Constructed Depth of Well:	14	2" (0.16 gal/ft) <or> 4" (0.65 gal/ft)</or>
Screened Interval:	7 - 14 feet	Actual Volume Purged (gallons):
Slot Size:	0.010	Free Product Present?
Filter Pack Material/Size:		Free Product Thickness (feet):
Depth of Well (feet):	14	Well Depth Before Development: 12,42
Depth to Water (feet):	11.92	Well Depth After Development: 13,45

FIELD PARAMETERS MEASURED

Time	Volume Removed (gallons)	Temp (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Appearance of Purge Water
0630							Brown
0640							Brown LTBrown
2011		DRU	1				
0445		18.91	7.38	672	3.53	-95.8	LT Brown
	2	19.03	4.40	686	3.43	-100.5	Cloudy
	34	19:09	+01	683	4.63	-100.8	()
	4	19:13	4.49	692	4.96	-99.3	1
	2	1927	7.41	710	4.41	- 88.9	1 (
	4	1917	746	TU3	4.93.	-911.8	
	8	1017	TIN	6.7	8.194	94.7	LT Brown
0950	à	19.70	746	66.5	GUX	-913	11
213		DR	N	000	1. 20	11, 2	/(
		J IC]				

COMMENTS (i.e., pumped dry, sample odor, well recharge time & perc	ent, etc.)
Well DRY AETER 10 GAL	

DATE: 12-6-11

Filter Pack Material/Size:

Depth to Water (feet):

Depth of Well (feet): 23.32

1.42

AEI CONSULTANTS MONITORING WELL DEVELOPMENT LOG

PAGE:____OF:____

Project Name: <u>Buestad</u> Location: <u>1630 Park Stre</u> Project No.: <u>298931</u> Start Time: End Time:	eet, Alameda, C	A Technician: T. Sigg A Project Manager: Bryan Campbell Conditions: Clear Cool Development Method: Surging and pumping with a submersible pump
		MONITORING WELL DATA
Well ID: Well Diameter: Constructed Depth of Well:	AS-1 2 inches 25 feet	Well Volumes Purged: Calculated Gallons Purged: 2" (0.16 gal/ft) <or> 4" (0.65 gal/ft)</or>
Screened Interval: Slot Size:	20 - 25 feet 0.020	Actual Volume Purged (gallons):

FIELD PARAMETERS MEASURED

Free Product Thickness (feet):

Well Depth Before Development: 23.37 Well Depth After Development: 23.34

Time	Volume Removed (gallons)	Temp (deg C)	pН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Appearance of Purge Water
0650	5		Bur	gina		4	BROWT
0655	I	DRy					
-		1					
							C
		(I					

COMMENTS (i.e., pumped dry, sample odor, well recharge time & percent, etc.)

WELL DRY AFFER 5 GM-	

DATE:_10/17/111 1-23-12-	AEI CONSULT MONITORING WELL DEV		PAGE:	_OF:
Project Name: <u>Buestad</u> Location: <u>1600 Park Street, Alama</u> Project No.: <u>298931</u> Start Time: <u>0920</u> End		Technician: <u>J.</u> Project Manager: Conditions: Development Method: <u>S</u> e		ersible pump
Well ID: DPE - Well Diameter:	MONITORING WE Calcul 2" (0.16 gal/f	ELL DATA lated Gallons Purged: P t) <or> 4" (0.65 gal/ft)</or>	30	
Constructed Depth of Well: Screened Interval: Slot Size: Filter Pack Material/Size: Depth to Water: Height of Water Column:	Surge S F Well Depth	Il Volumes Removed: Start Time ree Product Present? Before Development: h After Development:	Surge Stop Time	0850

FIELD PARAMETERS MEASURED							
Time	Volume Removed (gallons)	Temp (deg C)	рН	Conductivity (µsec/cm)	DO (mg/L)	ORP (meV)	Appearance of Purge Water
0 855	10	18.15	8.01	1791	3.82	194,2	LT BRN
	15	18.55	7.32	1403	.90	192.5	111
	20	18.63	7.16	1011	.91	184.3	11
	7.5	18.64	7.13	885	1.12	180.6	CLOUDY
0915	30	18.64	7.14	862	.95	186.1	<i>u i</i>
		10.0.					
		DR	n a	310	Gal		
			1	0	0 - '		

COMMENTS (i.e., pumped dry, sample odor, well recharge time & percent, etc.)

1) Take Total Well Depth and DTW Measurements

2) Remove any sediment from bottom with Heavy plastic bailer

3) Surge well along well screen for 10 minutes

4)Remove water from well with Pump until dry / clear/ 10 well volumes

5) Collect TWD measurement after purging

DATE: <u>10/17/11</u> 1 - 23-12	MON	AEI CO	PAGE: OF:				
Project Name: Buestad			Technician: J	I. Sigg			
Location: 1600 Park Str	eet, Alameda, CA		Project Manager:				
Project No.: 298931			Conditions:				
Start Time: 0930	End Time:	1010	Development Method: S	Surge block w/ submersible pump			
	MONITORING WELL DATA						
Well ID: Well Diameter: Constructed Depth of Well: Screened Interval: Slot Size: Filter Pack Material/Size: Depth to Water: Height of Water Column:		Act	Calculated Gallons Purged: 16 gal/ft) <or> 4" (0.65 gal/ft) ual Well Volumes Removed: Surge Start Time <u>09460</u> Free Product Present? Depth Before Development: ell Depth After Development:</or>	2 Surge Stop Time <u>0950</u> 17-65 17-68			

FIELD PARAMETERS MEASURED

Time	Volume Removed (gallons)	Temp (deg C)	рН	Conductivity (µsec/cm)	DO (mg/L)	ORP (meV)	Appearance of Purge Water
0955	10	18.97	7.5	1728	3.82	175.5	LJ BROWN
	15	19.21	7.35	1340	6.24	178.5	ч
	20	19.17	7.24	1252	5.60	181.6	()
1010	25	DRI	10	21	gal		Cloudy
	30				0		l.
	35					/	
	40						
	45			\searrow			
	50						
	55						

COMMENTS (i.e., pumped dry, sample odor, well recharge time & percent, etc.)

1) Take Total Well Depth and DTW Measurements

2) Remove any sediment from bottom with Heavy plastic bailer

3) Surge well along well screen for 10 minutes

4)Remove water from well with Pump until dry / clear/ 10 well volumes

DATE:_10/17/11____

AEI CONSULTANTS MONITORING WELL DEVELOPMENT LOG

Project Name: Buestad Technician: J. Sigg Location: 1600 Park Street, Alameda, CA Project Manager: Project No.: 298931 Conditions: 1115 Start Time: 1030 End Time: Development Method: Surge block w/ submersible pump MONITORING WELL DATA Well ID: DPE-6 ALTVAL Calculated Gallons Purged: 2" (0.16 gal/ft) <or> 4" (0.65 gal/ft) Well Diameter: Constructed Depth of Well: Screened Interval: Actual Well Volumes Removed: Surge Stop Time 050 Surge Start Time 1040 Slot Size: Free Product Present? Filter Pack Material/Size: Depth to Water: 🧏 . 59 Well Depth Before Development: 17.63 Height of Water Column: Well Depth After Development:

	the second se	the second s		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FIFI D	PARAN	FTFDC	BALLACI	IDED
	PARAM	FFRS	MEASL	
			MILAOC	

Time	Volume Removed (gallons)	Temp (deg C)	рН	Conductivity (µsec/cm)	DO (mg/L)	ORP (meV)	Appearance of Purge Water
1055	10	1850	7.54	1508	2.0+	178.3	LT BRN
	15	18.54	7.42	1753	175	173.2	(c
	20	18.83	7.31	1310	.76	154.2	- 11
	1.5	18.85	7.17	1035	· 86	150.9	cloudy
1115	28	D	Ry				11
	-	0					
			a.				

COMMENTS (i.e., pumped dry, sample odor, well recharge time & percent, etc.)

1) Take Total Well Depth and DTW Measurements

2) Remove any sediment from bottom with Heavy plastic bailer

3) Surge well along well screen for 10 minutes

4)Remove water from well with Pump until dry / clear/ 10 well volumes

5) Collect TWD measurement after purging

PAGE:____OF:__

DATE:_10/17/11	AEI CO MONITORING WE	PAGE: OF:					
Project Name: Buestad		Technician:	J. Sigg				
Location: 1600 Park Stre	eet, Alameda, CA	Project Manager:					
Project No.: 298931		Conditions:					
Start Time: <u>130</u>	End Time: 1210	Development Method:	Surge block w/ submersible pump				
	MONITORING WELL DATA						
Well ID: Well Diameter: Constructed Depth of Well: Screened Interval: Slot Size: Filter Pack Material/Size: Depth to Water: Height of Water Column:	Ac 8.2. Wel	Calculated Gallons Purged: 16 gal/ft) <or> 4" (0.65 gal/ft) tual Well Volumes Removed: Surge Start Time <u>1140</u> Free Product Present? I Depth Before Development: ell Depth After Development:</or>	Surge Stop Time 1150				

		FI	ELD PARAM	IETERS MEA	SURED		
Time	Volume Removed (gallons)	Temp (deg C)	pН	Conductivity (µsec/cm)	DO (mg/L)	ORP (meV)	Appearance of Purge Water
1155	10	18.94	8.62	1738	6.68	175.9	LI BRA Cloudy
	15	18.49	8.31	1788	4.69	175.3	Cloudy
	20	i 8.8(7.98	1780	2.56	174.8	11
1210	25	19.05	7.84	1726	2.18	172.3	((
, , ,		DRY	a	27	Gal	_	
					0		
			÷.				
							· · · · ·
							A

COMMENTS (i.e., pumped dry, sample odor, well recharge time & percent, etc.)

1) Take Total Well Depth and DTW Measurements

2) Remove any sediment from bottom with Heavy plastic bailer

3) Surge well along well screen for 10 minutes

4)Remove water from well with Pump until dry / clear/ 10 well volumes

DATE: 10717441 1-23-12	AEI CONSULTANTS MONITORING WELL DEVELOPMENT LOG			PAGE: OF:			
Project Name: <u>Buestad</u> Location: 1600 Park Stre	aet Alameda CA		Technician: Project Manager:	J. Sigg			
Project No.: 298931	eel, Alameda, CA		Conditions:				
Start Time: 1230	End Time:	1310	Development Method:	Surge block w/ submersible pump			
MONITORING WELL DATA							
Well Diameter:	DPE-9	2" (0.	Calculated Gallons Purged: 16 gal/ft) <or> 4'' (0.65 gal/ft) _</or>	27			
Constructed Depth of Well: Screened Interval: Slot Size: Filter Pack Material/Size: Depth to Water: Height of Water Column:	8.16	Well	tual Well Volumes Removed: Surge Start Time <u>1240</u> Free Product Present? Depth Before Development: ell Depth After Development:	Surge Stop Time <u>1250</u>			

FIELD PARAMETERS MEASURED Volume ORP Appearance of Conductivity DO Temp Time Removed pH (deg C) (mg/L) Purge Water (µsec/cm) (meV) (gallons) 1255 19,00 BR 5.96 80 D .U 1 5 11 40 5 50 X 20 C C 30 C loud 1 D 11 92 .15 101 2 1310 0

COMMENTS (i.e., pumped dry, sample odor, well recharge time & percent, etc.)

1) Take Total Well Depth and DTW Measurements

2) Remove any sediment from bottom with Heavy plastic bailer

3) Surge well along well screen for 10 minutes

4)Remove water from well with Pump until dry / clear/ 10 well volumes

DATE: 10/17/11		CONSULTANTS VELL DEVELOPMENT LOG	PAGE: OF:					
1-23-12	MONTORING V	VELL DEVELOPMENT LOG						
Project Name: Buestad		Technician:	J. Sigg					
Location: 1600 Park Str	eet, Alameda, CA	Project Manager:	ş					
Project No.: 298931		Conditions:						
Start Time: 2320	End Time: 1410	Development Method:	Surge block w/ submersible pump					
	MONITORING WELL DATA							
Well ID: Well Diameter: Constructed Depth of Well: Screened Interval:		Calculated Gallons Purged: (0.16 gal/ft) <or> 4" (0.65 gal/ft) Actual Well Volumes Removed:</or>	26					
Slot Size: Filter Pack Material/Size: Depth to Water: Height of Water Column:	8.32 W	Surge Start Time <u>340</u> Free Product Present? /ell Depth Before Development: Well Depth After Development:	Surge Stop Time 1350					

FIELD PARAMETERS MEASURED

Time	Volume Removed (gallons)	Temp (deg C)	рН	Conductivity (µsec/cm)	DO (mg/L)	ORP (meV)	Appearance of Purge Water
1355	10	18.54	8.14	1764	3.36	1835	Cloudy
	15	18-92	8.30	1660	4.55	1648	L
THIO	20	18.93	8.28	1531	4.27	1521	11
V	25	7	DRy,	N,7.1	e Crs		
		L			0		
			b.				
			i i i i i i i i i i i i i i i i i i i				

COMMENTS (i.e., pumped dry, sample odor, well recharge time & percent, etc.)

1) Take Total Well Depth and DTW Measurements

2) Remove any sediment from bottom with Heavy plastic bailer

3) Surge well along well screen for 10 minutes

4)Remove water from well with Pump until dry / clear/ 10 well volumes

DATE:_10/17/14M	AEI CONSULTANTS ONITORING WELL DEVELOPMENT LOG	PAGE: OF:
Project Name: Buestad	Technician:	J. Sigg
Location: 1600 Park Street, Alameda	CA Project Manager:	
Project No.: 298931	Conditions:	
Start Time: 14.20 End Tim	e: 1510 Development Method:	Surge block w/ submersible pump
	MONITORING WELL DATA	
Well ID: DPE-U Well Diameter: Constructed Depth of Well:	Calculated Gallons Purged: 2" (0.16 gal/ft) <or> 4" (0.65 gal/ft)</or>	Around 27
Screened Interval: Slot Size: Filter Pack Material/Size: Depth to Water: Height of Water Column:	Actual Well Volumes Removed: Surge Start Time <u>14400</u> Free Product Present? Well Depth Before Development: Well Depth After Development:	Surge Stop Time <u>1450</u>

		F	IELD PARAM	ETERS MEA	SURED		
Time	Volume Removed (gallons)	Temp (deg C)	pН	Conductivity (µsec/cm)	DO (mg/L)	ORP (meV)	Appearance of Purge Water
1455	10	18.26	8.20	1607	4.05	195.4	LT BRN.
	15	1807	8.03	1718	2.69	190.9	1 ×
	20	18.44	8.04	1868	2.72	183.5	CIOUCY
1510	25	18.70	8.21	1611	4.85	178.3	()
		DR	1 R	27	gal	2	I
				_	4		
	State Date of the State of the State						
	C>h						

COMMENTS (i.e., pumped dry, sample odor, well recharge time & percent, etc.)

1) Take Total Well Depth and DTW Measurements

2) Remove any sediment from bottom with Heavy plastic bailer

3) Surge well along well screen for 10 minutes

4)Remove water from well with Pump until dry / clear/ 10 well volumes



Monitoring Well Number: MW-

Project Name:	Buestad	Date of Sampling: 1-24-12-
Job Number:	298931	Name of Sampler: 3 · 5199
Project Address:	1630 Park Street	٦

MONITORING WELL DATA Well Casing Diameter (2"/4"/6") 2 Wellhead Condition Elevation of Top of Casing (feet above msl) 20.00 Depth of Well 8.08 \$25 Depth to Water (from top of casing) Water Elevation (feet above msl) Well Volumes Purged Gallons Purged: formula valid only for casing sizes of 5.64 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft) Actual Volume Purged (liters) Com 6 Appearance of Purge Water Thickness (ft): Free Product Present?

umber of Sam	oles/Container S			TER SAMPL			
Time	Vol Removed (liters)	Temperature (deg C)	рН	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
1130	1	18.29	8.22	05	2.26	245	LT Bron
	2	18.28	7.64	122	1.88	33.6	CLOUL
	3	18.08	7.45	140	1.28	42.1	Cher
	4	18.12	7.18	164	0.82	48.2	• (
/	5	18.45	7.11	237	0.73	50.4	¢ t
1135	6	18.60	711	280	0.91	53.1	4



Monitoring Well Number:

Project Name:	Buestad	Date of Sampling: 1-24-12	L.
Job Number:	298931	Name of Sampler: J. So	39
Project Address:	1630 Park Street		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2	
Wellhead Condition		•
Elevation of Top of Casing (feet above msl)		
Depth of Well	20.00	
Depth to Water (from top of casing)	8.43	
Water Elevation (feet above msl)		
Well Volumes Purged		
Gallons Purged: formula valid only for casing sizes of 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft)	5.5	×.
Actual Volume Purged (titers) GAL	6	
Appearance of Purge Water		
Free Product Present?	Thickness (ft):	

GROUNDWATER SAMPLES

REVICTION AND REVEALED			NOONDIIA				
mber of Sampl	es/Container S	Size					
Time	Vol Removed (liters)	Temperature (deg C)	рH	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
1100	T	18.60	7.34	729	1.92	-24.7	clear
	2	18.33	7.30	721	1.08	-30.4	
	3	18.12	7.18	715	0.85	-26.7	
	4	18.14	7.13	728	0.70	-28.4	
1	5	18.30	7.19	750	0.66	-32.4	
1105	6	18.48	7.23	753	0.63	-32.7	



Monitoring Well Number:

Project Name:	Buestad	Date of Sampling: 1-24-12
Job Number:	298931	Name of Sampler: J. S197
Project Address:	1630 Park Street	

MONITORING WELL DATA					
Well Casing Diameter (2"/4"/6")	2				
Wellhead Condition	▼				
Elevation of Top of Casing (feet above msl)					
Depth of Well	20.00				
Depth to Water (from top of casing)	8,00 8,25				
Water Elevation (feet above msl)					
Well Volumes Purged					
Gallons Purged: formula valid only for casing sizes of 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft)	5.72				
Actual Volume Purged (liters)	6				
Appearance of Purge Water					
Free Product Present?	Thickness (ft):				

		G	ROUNDWA	TER SAMPL	ES		
Number of Sampl	es/Container S	Size		a			
Time	Vol Removed (liters)	Temperature (deg C)	рН	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
1030	l	17.97	6.99	601	1.18	1173	clear
	2	17.77	6.76	610	0.82	117.9	11
	3	17.90	676	627	0-63	113.1	1)
	4	18.14	6.88	638	0.59	110.6	11
	5	18.25	6.92	647	0.57	103.3	1
1037	6	18.34	6.92	660	0.58	93.4	11

Slight odor	2

Monitoring Well Number: DPE-1

Project Name:	Buestad	Date of Sampling: 1-24-12
Job Number:	298931	Name of Sampler: J-Srq
Project Address:	1630 Park Street	11

MONITORING WELL DATA 4 Well Casing Diameter (2"/4"/6") Wellhead Condition Elevation of Top of Casing (feet above msl) 15.00 Depth of Well 8.78 Depth to Water (from top of casing) Water Elevation (feet above msl) Well Volumes Purged Gallons Purged: formula valid only for casing sizes of 12.12 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft) Actual Volume Purged (liters) 12 Appearance of Purge Water Thickness (ft): Free Product Present?

Time	Vol Removed (liters)	Temperature (deg C)	рН	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
1055	GAL	17.64	7.49	796	1.77	- 83.8	Clear
	4	17.60	7.54	795	0.83	-95.6	ι(
	حا	17.59	7.54	792	0.70	-97.4	11
	8	17.56	7.53	786	0.62	-98.5	
	10	17.54	7.51	780	0.57	-98.4	"[
1105	12	17,52	7.49	++5	DW3	-99.3	k

Snell rght 0

Monitoring Well Number: DPE-2

Project Name:	Buestad	Date of Sampling: 1-214-12
Job Number:	298931	Name of Sampler: J. Sigg
Project Address:	1630 Park Street	V (

MONITORING WELL DATA 4 Well Casing Diameter (2"/4"/6") ~ Wellhead Condition Elevation of Top of Casing (feet above msl) 15.00 Depth of Well 7.97 Depth to Water (from top of casing) Water Elevation (feet above msl) Well Volumes Purged Gallons Purged: formula valid only for casing sizes of 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft) 13.7 Actual Volume Purged (liters) GAL 14 Appearance of Purge Water Thickness (ft): Free Product Present?

Time	Vol Removed	Temperature (deg C)	рН	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
1115	Z	1759	7.54	524	0.98	3.5	Cloud
	4	17.61	7.47	521	0.58	8.5	Clear
	6	17-63	744	520	0.53	11.4	u
	8	17.62	7.43	525	0.49	13.3	1
	10	17.60	7.46	534	0.46	13.4	u
	12	17.61	7.48	536	0.45	13.8	10
121	14	17.65	7.48	536	0.43	14.6	11
	· · ·						

Smelle

Monitoring Well Number: DPE-3

Project Name:	Buestad	Date of Sampling: 1-24-12
Job Number:	298931	Name of Sampler: 5.5169
Project Address:	1630 Park Street	

MONITORING WELL DATA 4 Well Casing Diameter (2"/4"/6") Wellhead Condition Elevation of Top of Casing (feet above msl) 14.00 Depth of Well 8.98 Depth to Water (from top of casing) Water Elevation (feet above msl) Well Volumes Purged Gallons Purged: formula valid only for casing sizes of 9.78 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft) 10 Actual Volume Purged (liters) Gen Appearance of Purge Water Thickness (ft): Free Product Present?

Time	Vol Removed (liters)	Temperature (deg C)	рН	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
0930	GAR	17.76	7.28	654	1.20	152.2	CLOUC
	4	17.73	7.28	674	0.78	104.7	11
	6	17.75	7.22	728	0.70	-37.8	Clear
	8	17.82	7.20	765	0.94	-43.7	- 11
0938	10	17.91	7.26	779	0.98	- 57.2	II.
		-					
	10 - C						

Smell

Monitoring Well Number: DPE-4

Project Name:	Buestad	Date of Sampling: 1-24-	12
Job Number:	298931	Name of Sampler: 5-5	nog
Project Address:	1630 Park Street		• 1

MONITORING WELL DATA Well Casing Diameter (2"/4"/6") 4 Wellhead Condition ~ Elevation of Top of Casing (feet above msl) 17.00 Depth of Well Depth to Water (from top of casing) 9.11 Water Elevation (feet above msl) Well Volumes Purged Gallons Purged: formula valid only for casing sizes of 15.38 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft) 15 Actual Volume Purged (liters) Cm Appearance of Purge Water Free Product Present? Thickness (ft):

Time	Vol Removed	Temperature (deg C)	рН	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
0800	2	18.32	7.18	708	3.38	183.2	Slightly Clo
	4	18.42	7.21	753	3.38	184.2.	Clear
	6	18.44	7.23	787	3.55	184.9	11
	8	18.47	7.24	821	3.70	185.4	Slightly Clo
	10	18.48	7.25	851	3.77	186.0	11
	12	18.51	7.24	8.58	3.75	186.3	11
0810	15	18.53	7.23	855	3.72	186.6	11

Monitoring Well Number: DPE-6

Project Name:	Buestad	Date of Sampling:
Job Number:	298931	Name of Sampler: J. Sig9
Project Address:	1630 Park Street	

MONITORING WELL DATA					
Well Casing Diameter (2"/4"/6")	4				
Wellhead Condition	▼				
Elevation of Top of Casing (feet above msl)					
Depth of Well	18.00				
Depth to Water (from top of casing)	8.58				
Water Elevation (feet above msl)					
Well Volumes Purged					
Gallons Purged: formula valid only for casing sizes of 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft)	18.3				
Actual Volume Purged (liters)	18				
Appearance of Purge Water					
Free Product Present?	Thickness (ft):				

		G	ROUNDWA	TER SAMPL	.ES		
Number of Samp	les/Container S	Size					
Time	Vol Removed (liters)	Temperature (deg C)	рН	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
0845	2	18.42	7.32	752	4.58	182.7	Clear
	4	18.50	7.27	754	4.28	182.7	11 -
	6	18.49	7.29	766	4.27	182.2	U
	8	18.49	7.34	798	4.52	181.3	11
	10	18.53	7.35	826	4.67	180.7	11
	12	18.57	7.34	845	4.70	180.4	11
	14	18.59	7.33	854	4.62	180.3	n
	16	18.61	7.31	858	4.48	1 80.3	11
0900	18	18.64	7.29	857	4.27	180,0	17
							L.

Monitoring Well Number: DPE-9

Project Name:	Buestad	Date of Sampling: 1-24-(2
Job Number:	298931	Name of Sampler: J- Stg1
Project Address:	1630 Park Street	

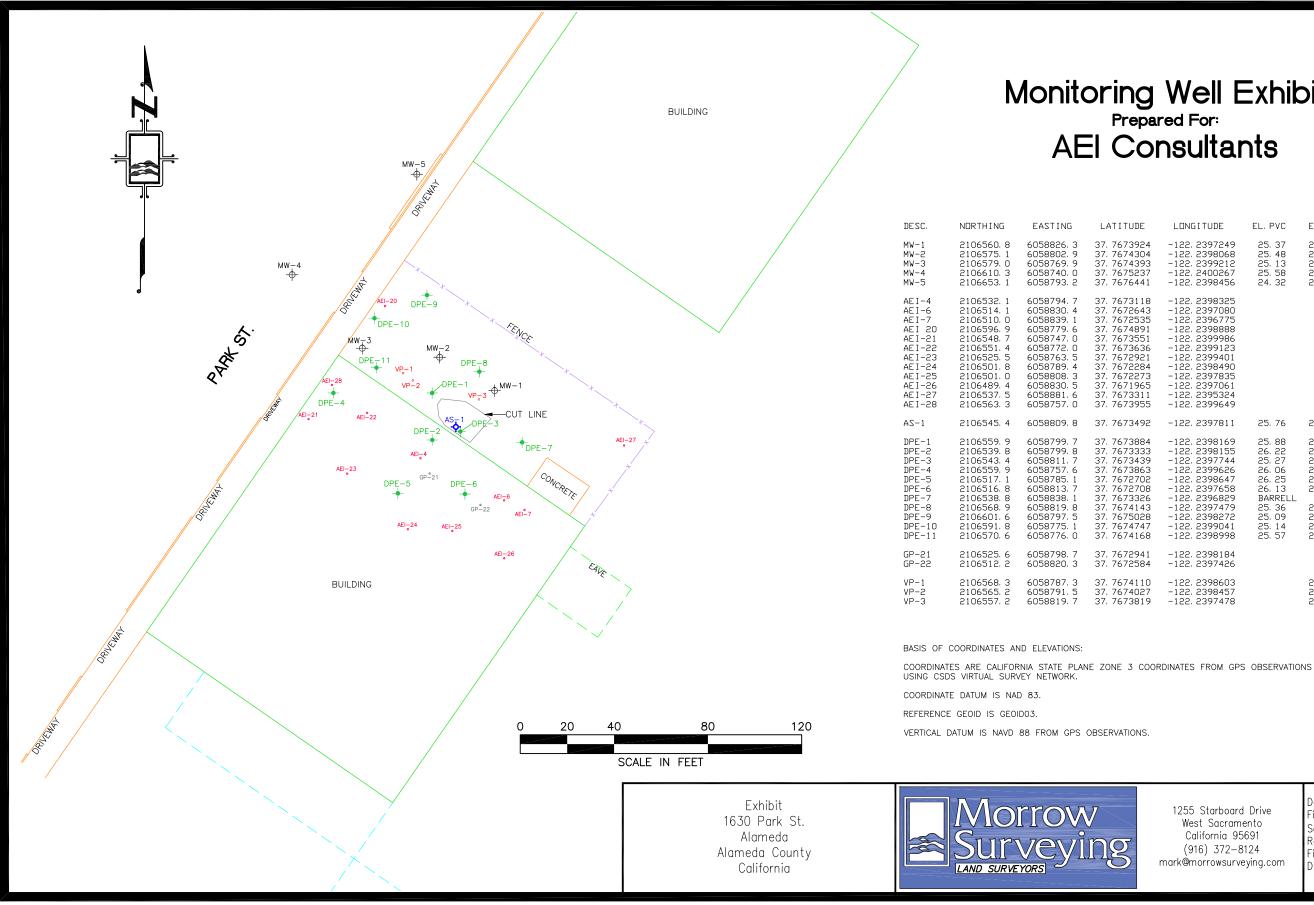
MONITORING WELL DATA					
Well Casing Diameter (2"/4"/6")	4				
Wellhead Condition	-				
Elevation of Top of Casing (feet above msl)					
Depth of Well	18.00				
Depth to Water (from top of casing)	8.12				
Water Elevation (feet above msl)					
Well Volumes Purged					
Gallons Purged: formula valid only for casing sizes of 2" (0.16 gal/ft), 4" (0.65 gal/ft), and 6" (1.44 gal/ft)	19.2				
Actual Volume Purged (liters) gall	19,				
Appearance of Purge Water					
Free Product Present?	Thickness (ft):				

			ROUNDWA	TER SAMPL	.ES		
mber of Sam	ples/Container S	Size					
Time	Vol Removed (liters)	Temperature (deg C)	рН	Conductivity (μ S/cm)	DO (mg/L)	ORP (meV)	Comments
1000	2	18.73	7.65	966	2.13	77.8	Clear
	4	18.90	7.55	997	2.41	80.9	• (
	6	18.92	7.61	1078	3.49	89.6	11
	8	18.94	7.60	1089	3.82	93.2	11
	10	18.99	7.59	1077	3.96	953	11
	12	19.10	754	1031	4.06	99.1	11
	14	19.22	7.49	957	3.95	102.4	11
	16	19.30	7.47	928	3.93	104.2	1/
1015	19	19.37	7.47	907	3.87	105.5	11
	y v						

Slight	Oton
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APPENDIX F

SURVEY DATA



Monitoring Well Exhibit Prepared For: **AEI** Consultants

ITUDE	LONGITUDE	EL, PVC	EL.RIM	EL. GND
574304 574393 575237	-122.2397249 -122.2398068 -122.2399212 -122.2399212 -122.2400267 -122.2398456	25, 48 25, 13 25, 58	25.80 25.82 26.01 25.92 24.55	
572643 572535 574891 573551 573636 572921 572284 572284 572273 571965 573311	-122. 2398325 -122. 2397080 -122. 2396775 -122. 2398888 -122. 239986 -122. 2399123 -122. 2399401 -122. 2399401 -122. 2397061 -122. 2397061 -122. 2397024 -122. 2397049			26. 4 26. 4 25. 6 26. 4 26. 4 26. 4 26. 4 26. 4 26. 4 26. 4 26. 4 26. 3 26. 3
573492	-122. 2397811	25. 76	26.14	
573333 573439 573863 572702 572708 573326 573326 574143 575028 574747	-122. 2398169 -122. 2398155 -122. 2397744 -122. 239764 -122. 239626 -122. 239658 -122. 2397658 -122. 2397658 -122. 2397479 -122. 2398272 -122. 2399041 -122. 239898	26. 22 25. 27 26. 06 26. 25 26. 13 BARRELL 25. 36 25. 09 25. 14	26. 40 26. 17 26. 42 26. 45 26. 38 25. 76 25. 55 25. 63	
572584	-122. 2398184 -122. 2397426			26.4 26.4
574110 574027 573819	-122. 2398603 -122. 2398457 -122. 2397478		25. 99 25. 99 25. 92	

1255 Starboard Drive West Sacramento California 95691 (916) 372-8124	Date: February, 2012 Field: 2-21-12 Scale: 1"=40' Revised: Field Book: MW-54 Dwg. No. 0116-062 MAM
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