RECEIVED

2:27 pm, Jan 02, 2008

Alameda County Environmental Health

January 6, 2006

SOIL AND GROUNDWATER INVESTIGATION REPORT

1310 14 Avenue Oakland, California

Project No. 115184

Prepared For

Heather Dennis Hall Equities Group 1855 Olympic Blvd. Walnut Creek, CA 94596

Prepared By

AEI Consultants 2500 Camino Diablo, Suite 100 Walnut Creek, CA 94597 (925) 944-2899

January 6, 2006

Heather Dennis Hall Equities Group 1855 Olympic Blvd. Walnut Creek, CA 94596

Subject: Soil and Groundwater Investigation 1310 14 Avenue 14th Ave Oakland, California 94546 Project No. 115184

Dear Ms. Dennis:

The following letter report describes the activities and results of the subsurface investigation performed by AEI Consultants at the above referenced property (Figure 1: Site Location Map). The scope of work for this investigation was designed to determine the extent of soil contamination and its impact on groundwater resulting from the hydrocarbon release from two (2) underground storage tanks (USTs) previously abandoned in place adjacent to the boiler room (Figures 2 and 3).

I Background

The subject property (hereafter referred to as the "site" or "property") is located at 1310 14th Street in Oakland, California (Figure 1: Site Location Map). The site is located in industrial area of Oakland. The site occupies the area between 16th and 14th Streets (International Drive) on the north and south, respectively and Poplar Street and Mandela Parkway on the east and west, respectively. The site, which is a former Carnation manufacturing facility, is currently vacant. Several large unused buildings are on the site, which is covered with asphalt and concrete surfacing.

A request for closure in place by Anania Geologic Engineering refers to two underground storage tanks (USTs) used to store fuel for boilers. The report stated that the eastern most (nearest to the boilers) tank (UST-1) was an approximately 11,400 gallons and encased in a concrete vault. This tank was installed in 1946. The second tank (UST-2) identified as a 12,000 gallon capacity tank wasplaced in service in 1977. The request for closure in place was based on UST-1 being located immediately adjacent to the buildings foundations and the concern that removing the tank and the related vault would undermine integrity of the the foundation and result in structural damage to the building.

The report indicates four (4) groundwater monitoring wells were installed. Low levels of oil range hydrocarbons were detected in the soil as well as low concentrations of toluene, acetone, and 2-butanone. Groundwater sampling reported low levels of tetrachloroethane and 2-hexanone. None of the reported concentrations appears to be significantly elevated to be of concern. Although the locations of the wells are shown on the map accompanying the Anania report, they

are not labeled and no data from monitoring was available at the time of preparing this report. No wells are currently present in the area of the abandoned boiler fuel USTs, however patches were observed in the concrete slab at the locations show on the Anania site map.

A *Phase I Environmental Site Assessment and Soil and Groundwater Quality Evaluation* was undertaken by Lowney Associates in March 2004. The report identifies two abandoned in-place USTs located adjacent to the boiler room and identifies an April 4 1990 Oakland Fire Department document referring to the in place abandonment of the two USTs. As part of the site assessment a geophysical survey including a electromagnetic survey to identify buried metallic objects and ground penetrating radar was used to confirm the locations of the two USTs abandoned in place.

The Lowney investigation reported significant concentrations of Total Petroleum Hydrocarbons as gasoline (TPH-g), Total Petroleum Hydrocarbons as diesel (TPH-d), and Total Petroleum Hydrocarbons as motor oil (TPH-mo) in both the soil and groundwater in two borings (EB-14 and EB-15) near the abandoned USTs. Maximum concentration of hydrocarbons reported were 85,000 μ g/L TPH-g in EB-15, TPH-d and TPH-mo at concentrations of 120,000 μ g/L and 650,000 μ g/L, respectively, in boring EB-14. The results from the Lowney Investigation are summarized in Tables 1 & 2. The groundwater sample from EB-14 contained light non-aqueous liquid (LNAPL) or free product.

Two drilling events were carried out by AEI on September 12 and September 29, 2005 prior to the current investigation. Ten (10) soil borings were previously drilled at the site by AEI. Borings SB-1 and SB-4 encountered shallow refusal due to concrete or other obstructions. Borings SB-2, SB-3, SB-5, SB-6 and SB-7 through SB-10 were advanced to depths ranging from 15 to 19 feet below ground surface (bgs). The locations of the previous soil borings are shown on Figure 3. Soil borings SB-1 and SB-4 encountered refusal on concrete at a depth of 3 feet bgs.

TPH-g, TPH-d and TPH-mo were reported in the soil samples from the earlier AEI soil borings at concentrations up to 7.3 mg/kg, 34 mg/kg and 130 mg/kg, respectively.

The results of the soil analyses are summarized in Table 3: Soil Analytical Data. Copies of the laboratory reports are attached as Appendix C.

Analysis of groundwater samples from the earlier AEI borings found TPH-g, TPH-d, and TPHmo at concentrations up to 1,400 μ g/L, 9,900 μ g/L, and 38,000 μ g/L, respectively. The RWQCB RBSLs for protection of the groundwater at commercial/industrial sites for TPH-g, TPH-d and TPH-mo are 500 μ g/L, 640 μ g/L, and 640 μ g/L, respectively. The laboratory also reported non-(LNAPL in the groundwater samples from borings SB-7 and SB-9.

The results of the earlier groundwater analyses are summarized in Table 4: Groundwater Sample Analytical Data and shown on Figures 3 through Figure 6.

II Investigative Efforts

Fire Department records show that two USTs were abandoned in place in the survey area. These USTs are labeled UST-1 and UST-2 on Figure 3 along with other features identified during the survey. AEI performed a geophysical survey of the site on November 10, 2005, to confirm the location and orientation of the USTs. The Ground Penetrating Radar (GPR) survey showed clear returns identifying the circular outline of UST-2; however no clear reflections were seen in the area of UST-1, probably due to the presence of the concrete vault and reinforcing steel. An electromagnetic (EM) survey of the area identified UST-2, but the presence of multiple pipes and other objects obscured a clear EM identification of UST-1. No radar evidence of a UST was found in the area of Lowney UST-3; however a small scale EM and radar anomaly are interpreted to be a storm drain and related trench.

During the Geophysical survey a large water separator was identified near boring SB-6 at the end of the utility trench exiting the building. A 4-inch diameter line in the trench enters the separator. This separator has not been abandoned and appears to be connected to the onsite drainage system.

Other lines from the trench were traced using induced radio signals to the southern of the two concrete filled manholes over UST-1. Piping was also traced from a concrete covered pipe stub adjacent to hoist at the north end of UST-2 to the northern concrete filled manhole on UST-1.

AEI performed the additional subsurface investigation at the property on November 18, 2005. Prior to mobilization, AEI applied for a subsurface drilling permit from the Alameda County Public Works Agency (ACPWA). The drilling permit number W2005-1096 was approved by James Yoo on November 8, 2005. Underground Service Alert (USA) was notified more than two business days prior to the drilling to allow local utilities to be marked. Notification of the drilling schedule was made to the county. The boring locations were inspected by George Bolton of the ACPWA following completion of the work.

Soil Sample Collection

The temporary borings were advanced with a Geoprobe[®] model 6610 DT track mounted directpush drilling rig by Vironex, a licensed California drilling contractor (C57 – 705927). Soil boring SB-16 is located on the raised portion of the loading dock which is approximately four feet above the ground level. The tracked drilling rig was loaded onto a flatbed tow truck which allowed it to be then driven onto the raised loading dock.

A continuous sediment core was cut from the surface to a depth sufficiently below the top of the water table to collect a groundwater sample, typically 20 feet below ground surface (bgs) except in boring SB-16. In boring SB-16, loose rock fill underlying the concrete slab prevented normal coring and the 2-inch diameter sleeve with a sacrificial tip was driven to a depth of approximately 20 feet bgs (24 feet below the dock level) to allow a water sample to be collected. The cores in SB-13 through SB-15 were cut using an approximately 2-inch outer diameter sampling tube, which held in 1.75-inch diameter acrylic liners 5-feet in length. At least one

sediment sample was collected from each 4-5 feet of sediment cored above obviously wet sediments for possible retention and chemical analysis. An adjacent sample was placed in a 1-quart zipper locking plastic bag and used for field screening. The samples were screened using a calibrated Mini RAE Plus Classic (Model PGM-76IS) photo ionization detector (PID). The tip of the PID was inserted into the sealed 1-quart bag through a small diameter hole poked into the bag. The PID readings were recorded on the boring logs. The borings were logged by an AEI Professional Geologist using the Unified Soil Classification System (USCS). Copies of the boring logs, including depth of samples collected are included in Appendix B.

The soil samples retained for possible chemical analysis were sealed with Teflon® film and plastic end-caps. Each sample was labeled with at minimum, the company name and project number, a unique sample identifier, the sampler's name, and the time and date of the sample collection. The samples were placed in individual zipper locking bags and placed in a cooler with wet ice, pending transportation to the laboratory. The remainder of each core was examined and described by the AEI geologist. The cores are described in the boring logs that are included in Appendix A.

Groundwater Sample Collection

Groundwater samples were collected from the eight (8) soil borings that reached the groundwater. A new, unused ³/₄-inch PVC casing was placed in each boring to facilitate collection of the water samples. The casing consisted of 10-feet of 0.010-inch slotted casing (15 feet in SB-16) and sufficient blank casing to rise above the ground surface. The groundwater samples were collected using ¹/₄-inch polyethylene tubing with a check valve on the bottom. Groundwater samples were collected directly into one 1-liter amber bottle and three 40-milliliter (ml) volatile organic analysis vials (VOAs). Water entry into the soil borings was generally slow due to the presence of interstitial clay in the sand. Up to 30 to 60 minutes was often required to collect a full liter bottle of groundwater for TPH-d/mo analysis.

Each sample was labeled with at minimum, the company name and project number, a unique sample identifier, the sampler's name, and the time and date of the sample collection. The samples were placed in individual zipper locking bags and placed in a cooler with wet ice, pending transportation to the laboratory.

Boring Destruction

Following sample collection, the bottom cap on the casing in each boring was knocked off using a small diameter rod. The boring was then sealed to the surface with neat cement using the casing as a treamie pipe in accordance with ACPWA and State of California guidelines.

Laboratory Analysis

The soil and groundwater samples were transported the same day collected to McCampbell Analytical, Inc. (Department of Health Services Certification #1644) under chain of custody

protocol. One soil sample from borings SB-13 and SB-15 were selected for chemical analysis. One groundwater sample was selected from each boring for chemical analysis. The results of these soil and groundwater analyses are shown on Tables 1 and Table 2 along with previously analyzed samples. Chain of custody documents and copies of the laboratory analytical reports are included in Appendix C

The soil and groundwater samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), Methyl tertiary butyl ether (MTBE), benzene, toluene, ethylebenzene, and total xylenes (BTEX) by methods SW 8015Cm/8021B. In addition, analysis was performed for Total Petroleum Hydrocarbons as diesel (TPH-d) and Total Petroleum Hydrocarbons as motor oil (TPH-mo) by EPA method 8015C.

III Findings

Soil Analyses

No soil samples were retained from soil boring SB-14 as the boring was a twin to the previously drilled EB-15. No soil samples were collected from soil boring SB-16 due to the coarse gravel underling the loading dock slab which prevented soil coring.

No detectable concentrations of TPH-g, TPH-d, TPH-mo, MTBE or BTEX, were reported in soil samples from 10 feet bgs in soil borings SB-13 and SB-15 at or above laboratory method detection limits of 1.0 mg/kg, 1.0 mg/kg, 5.0 mg/kg, 0.05 mg/kg, and 0.005 mg/kg, respectively.

The results of the soil analyses are summarized in Table 1: Soil Analytical Data. Copies of the laboratory reports are attached as Appendix C.

Groundwater Analyses

TPH-d was detected in boring SB-13 at a concentration of 120 μ g/L. No TPH-g, TPH-mo, MTBE or BTEX was reported from this boring at or above laboratory detection limits of 50 μ g/L, 250 μ g/L, 5.0 μ g/L, and 0.5 μ g/L, respectively.

TPH-g, TPH-d, and TPH-mo were detected in boring SB-14 at concentrations of 1,700 μ g/L, 650 μ g/L, and 440 μ g/L, respectively. BTEX was detected at concentrations of 37 μ g/L, 1.8 μ g/L, 67 μ g/L, and 7.8 μ g/L, respectively.

TPH-d was detected in boring SB-15 at a concentration of 72 μ g/L. No TPH-g, TPH-mo, MTBE or BTEX was reported at or above detection limits of 50 μ g/L, 250 μ g/L, 5.0 μ g/L, and 0.5 μ g/L, respectively.

TPH-d was detected in boring SB-16 at a concentration of 72 μ g/L. No TPH-g, TPH-mo, MTBE or BTEX were reported in this boring at or above detection limits of 50 μ g/L, 250 μ g/L, 5.0 μ g/L, and 0.5 μ g/L, respectively.

The results of the groundwater analyses are summarized in Table 2: Groundwater Sample Analytical Data and shown on Figures 4 and 5. Copies of the laboratory analytical reports and the chain of custody documentation are attached as Appendix C.

VI Discussion

The sediment underlying the subject site is fine-grained well-sorted sand (Merritt Sand – Quaternary Geology of Alameda County - OFR 97-97). Microscopic examination of the sand identified a significant clay matrix between the sand grains. This clay appears to be a secondary deposit resulting from of mixing of fresh groundwater and saltwater from the bay. This mixing of waters of differing salinities results in chemically precipitated clays within the pore space between the sand grains. This results in sand with very low transmissivity to fluids. A consequence of this low transmissivity is minimal movement of the impacting hydrocarbons away from their source.

Depth to groundwater in the soil borings during the AEI investigation ranged from 10 feet to 15 feet bgs. Groundwater recharge in to soil borings was slow and variable.

Based on data from groundwater monitoring wells in the northwest corner of the site, the groundwater gradient is relatively flat with a flow direction to the north northwest (personal communication, Doug Orem, ETIC). In general little migration of contaminates in the groundwater appears to have occurred in this or other areas of the site. Remediation of this area was made extremely difficult due to the low transmissivity of the sand. The remediation efforts carried out by ETIC and other, required 169 monitoring, soil vapor and extraction wells in a relatively small area. With the benefit of hindsight, it appears that remediation of this area by vapor and groundwater extraction was probably not the most cost effective approach to the problem in the northeast corner of the site.

In light of the ETIC's experience in the northwest corner of the site the higher viscosities of the diesel and motor oil range hydrocarbons which predominate in hydrocarbon plume adjacent to the boiler room, remediation of the plume using tradition pump and treat technologies would not be effect in the area adjacent to the boiler room and the UST abandoned in place. The same low transmissivity sand also would severely reduce insitu approaches to remediation such as injection of oxidants.

The relatively shallow depth of the groundwater plume and the soft relatively unconsolidated nature of the underlying sand suggest that excavating the area of the plume to the base to several feet below the top of the groundwater followed by dewatering of the excavation, would be the fastest and most economic approach to remediation the hydrocarbon release. The location of the plume immediately adjacent to the raised loading dock and adjacent boiler area means that excavation adjacent to the foundations would undermine the building integrity. Consequently, excavation of the contamination is also not a viable option so long as the current adjacent structures are in place

The absence of significant concentrations of volatile organic compounds (VOCs) indicates that no significant hazard to surface occupancy exists in the investigation area. This and the low transmissivity of the sand support an argument for minimal action and monitored natural attenuation (MNA). However, the presence of LNAPL and low transmissivity of the sediments mean that natural attenuation would be slow and require years to meet regulatory guidelines.

The available records indicate two (2) USTs in the investigation were abandoned in place by filling them with a cement grout. It appears reasonably obvious that the release of medium to high weight hydrocarbons from these tanks and the lift at the loading dock are the probable source of the hydrocarbons identified in the groundwater. It is impossible to determine whether these USTs are currently contributing to the identified hydrocarbon plume. It also cannot be determined if removal of these tanks would have any beneficial impact on the hydrocarbon plume.

The results of soil analyses from both the AEI and Lowney investigations found no significant impact to the shallow soils above the groundwater except in soil boring EB-15.

Gasoline Range Hydrocarbons

TPH-g and BTEX at concentrations significantly above the Regional Water Quality Control Board (RWQCB) RBSL of 500 μ g/L (commercial/industrial sites with water not a potential source of drinking water) was found in current soil boring SB-14 and previous soil borings SB-10 and EB-15. The decrease in concentrations TPH-g found a little over a year apart in twin soil boring EB-15 and SB-14 appears quite significant. The difference may represent a real decrease in concentration over time, however or the differences may be the result of changes in groundwater levels or other differences in sampling that are not apparent.

The extent of the TPH-g seen in borings SB-14 and EB-15 is limited to the area immediately a round those borings. No TPH-g is seen to south (EB-25), to the west (EB-13), to the north (SB-8 and EB-25) or southeast (SB-3). TPH-g concentration drop to below the RWQCB RBSL for gasoline a short distance to the east in SB-9. The source of the gasoline range hydrocarbons is not immediately obvious as no USTs or other equipment appear to be related to its presence at EB-15/SB-14. However, these borings are adjacent to a major joint in the concrete pad covering the site which would provide a conduit for a surface spill. The soil sample analyzed from boring EB-15 from a depth of 1.5 - 2.0 feet below the surface, some 8 feet above the groundwater, found 610 mg/kg TPH-g which makes it probable that that a localized surface spill penetrating downward through the joint is the source of the gasoline plume in the groundwater.

Diesel Range Hydrocarbons

The impact by TPH-d to the groundwater in the area of AEI soil borings SB-15 and SB-16 is significantly below the RWQCB's commercial/industrial RBSL for TPH-d of 640 μ g/L. This combined with TPH-mo being below detection limits in the same groundwater samples indicates that the free product plume previously identified around the north end of USTs 1 and 2 and adjacent to the loading dock doesn't extent under the raised portion of the dock area. The TPH-

d concentration in the water sample from SB-13 is significantly below the RBSL while the 650 μ g/L reported in SB-14 is only slightly above the RBSL and is probably not significant.

Oil Range Hydrocarbons

The only TPH-mo reported above the laboratory detection limit in the latest round of soil borings was 440 μ g/L in SB-14. This is below the commercial/industrial RBSL for motor oil of 640 μ g/L. The presence of both the diesel and oil range hydrocarbons in the area of SB-13 is likely the result of dilution and mobilization by the gasoline range hydrocarbons seen in borings EB-15 and SB-14.

Groundwater with TPH-mo concentrations above the RWQCB's RBSL of 640 μ g/L is seen only along the south edge of the loading dock (SB-7, SB-8 and EB-14) and in boring SB-9 west of the abandoned USTs.

VII Conclusion

AEI believes that the releases discussed above are localized and essentially immobile. AEI also believes that they pose no significant or immediate threat to the environment or to the current surface occupancy. As the nature of the sediments and presence of the current surface structures effectively render available remedial options ineffective or cost prohibitive, AEI recommends no further action of the releases unless the current structures are demolished or a change surface inactivity to something other than commercial/industrial is considered. Mitigation of TPH impact to the shallow groundwater may be required if redevelopment of the property occurs.

VIII References

- 1. Quaternary Geology of Alameda County, and Parts of Contra Costa, Santa Clara, San Mateo, San Francisco, Stanislaus, and San Joaquin Counties, California: A Digital Database Digital Data Base Open File 97-97, by E.J. Helley and R.W. Graymer U.S.G.S.
- 2. Request to abandon two Boiler Fuel Tanks in Place, Anania Geologic Engineering, June 5, 1989
- 3. *Phase I Environmental Site Assessment and Soil and Ground Water Quality Evaluation*, Lowney Associates, 2004
- 4. Phase II Subsurface Investigation, AEI Consultants, October 2005

IX Report Limitation

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the required information, but it cannot be assumed that

they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices, in the environmental engineering field, which existed at the time and location of the work.

If you have any questions regarding our investigation, please do not hesitate to contact Robert Flory at (925) 944-2899.

Sincerely, No. 5825 * Robert F. Flory, P.G Adrian M. Angel OF CALIFORNIT S Staff Geologist Project Manager E Peter J. McIntyre, P.G., REA Manager, Site Mitigation

Figures

Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3: Geophysical Survey
Figure 4: TPH Concentrations in Groundwater
Figure 5: TPH-g Isopleths in Groundwater
Figure 6: TPH-d Isopleths in Groundwater
Figure 7: TPH-mo Isopleths in Groundwater

Tables

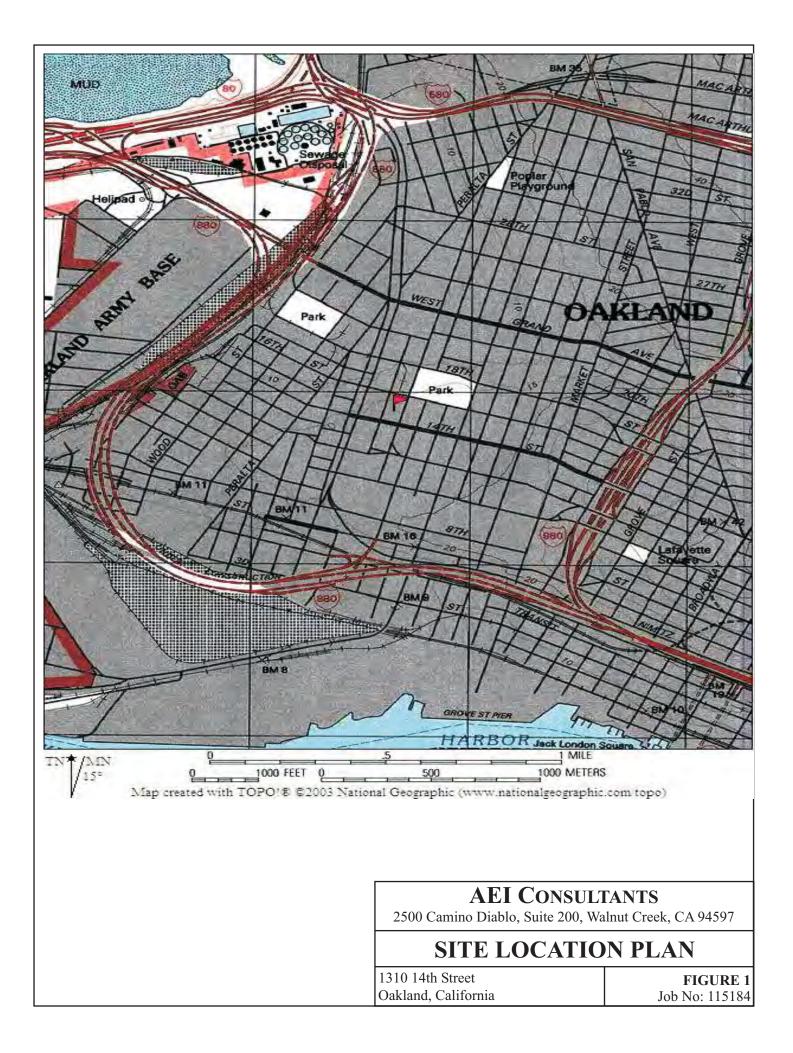
Table 1: Soil Analytical DataTable 2: Groundwater Analytical DataTable 3: Lowney Soil Analytical DataTable 4: Lowney Groundwater Analytical Data

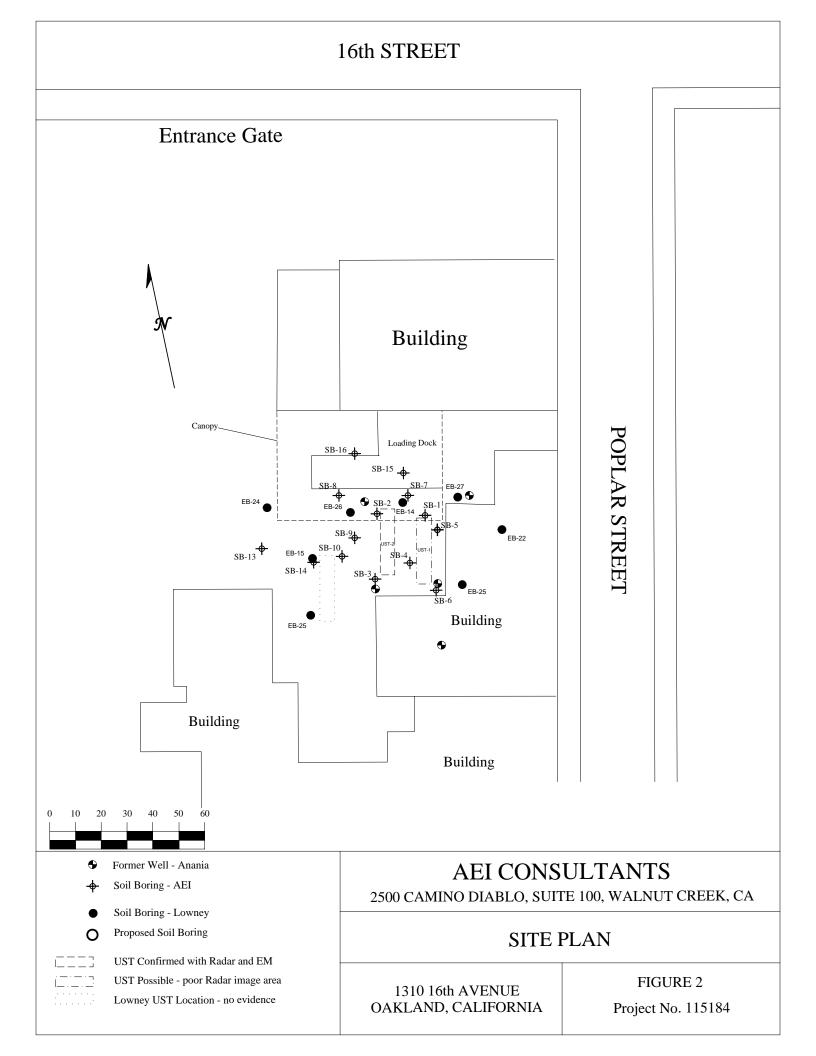
Appendix A Boring Permits

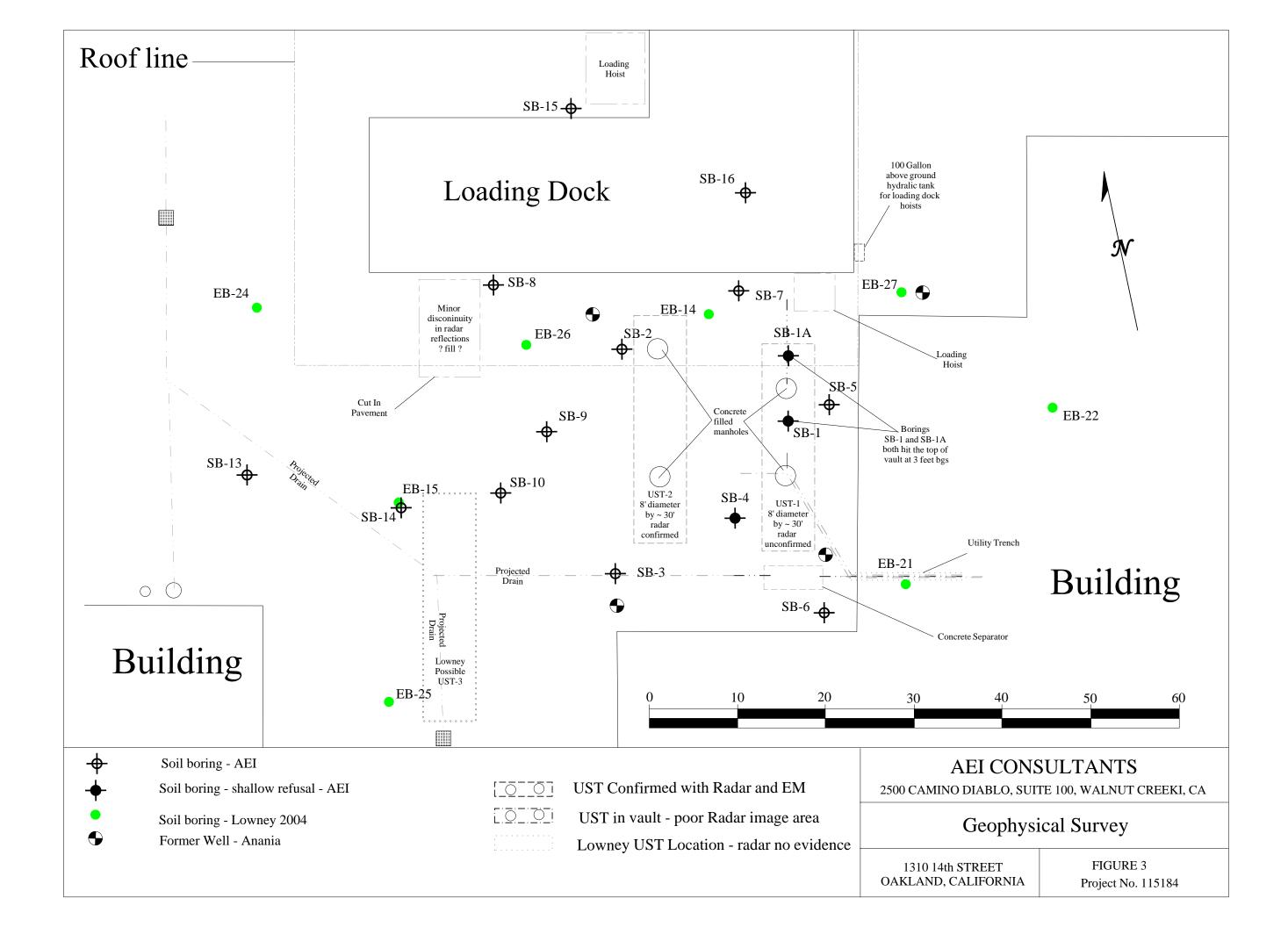
Appendix B Boring Logs

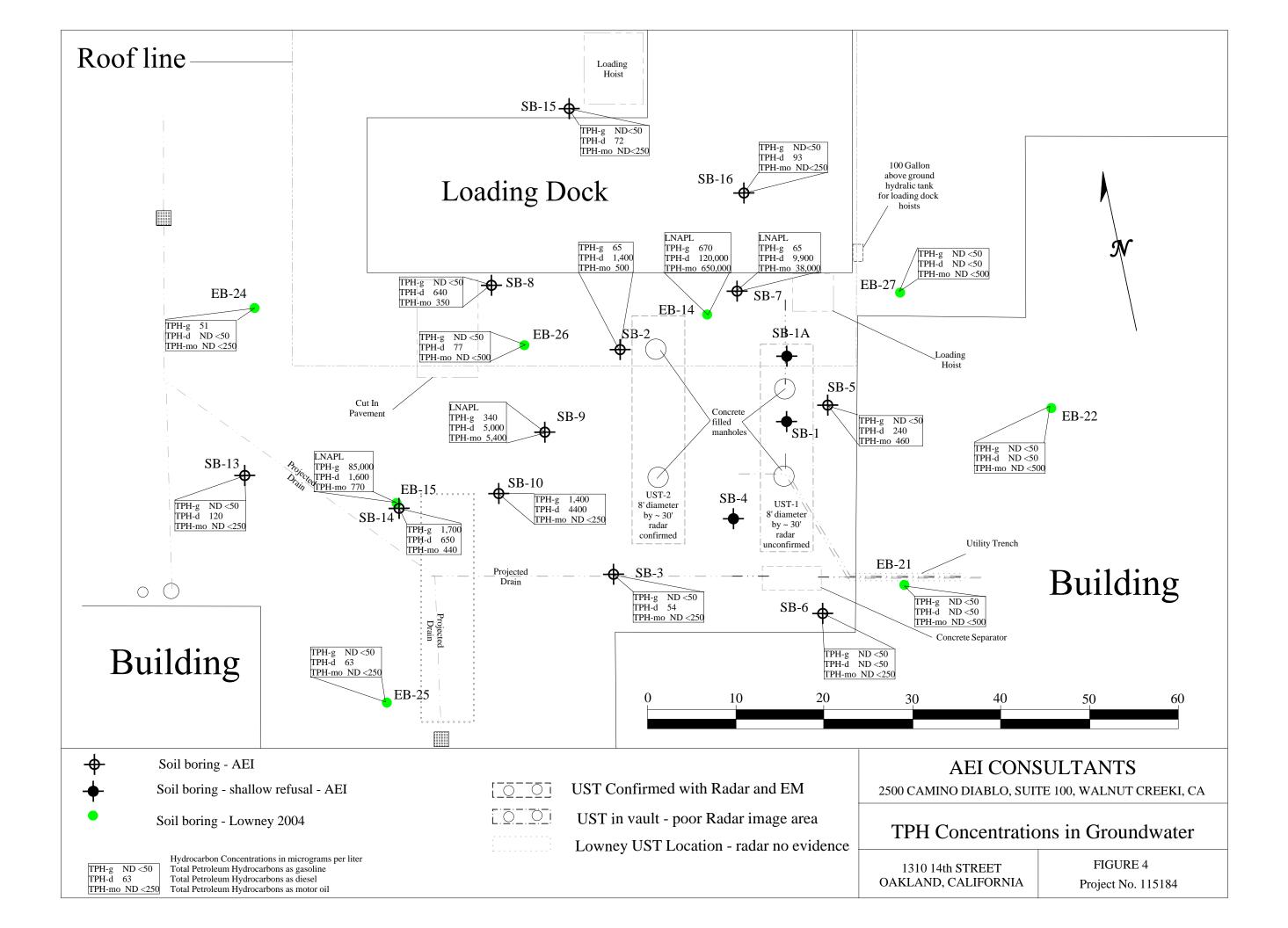
Appendix C Laboratory Analyses w/ Chain of Custody Documentation

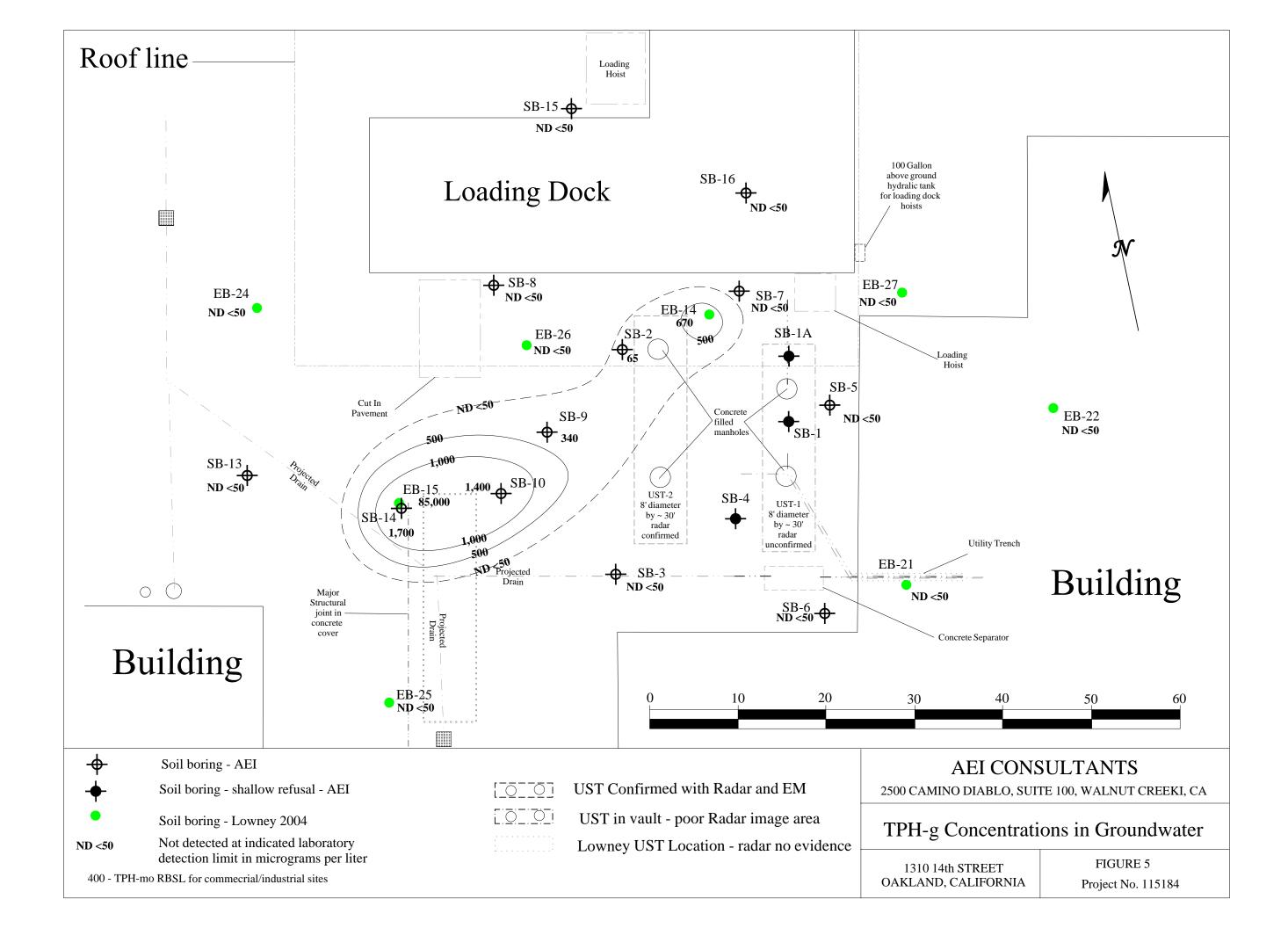
FIGURES

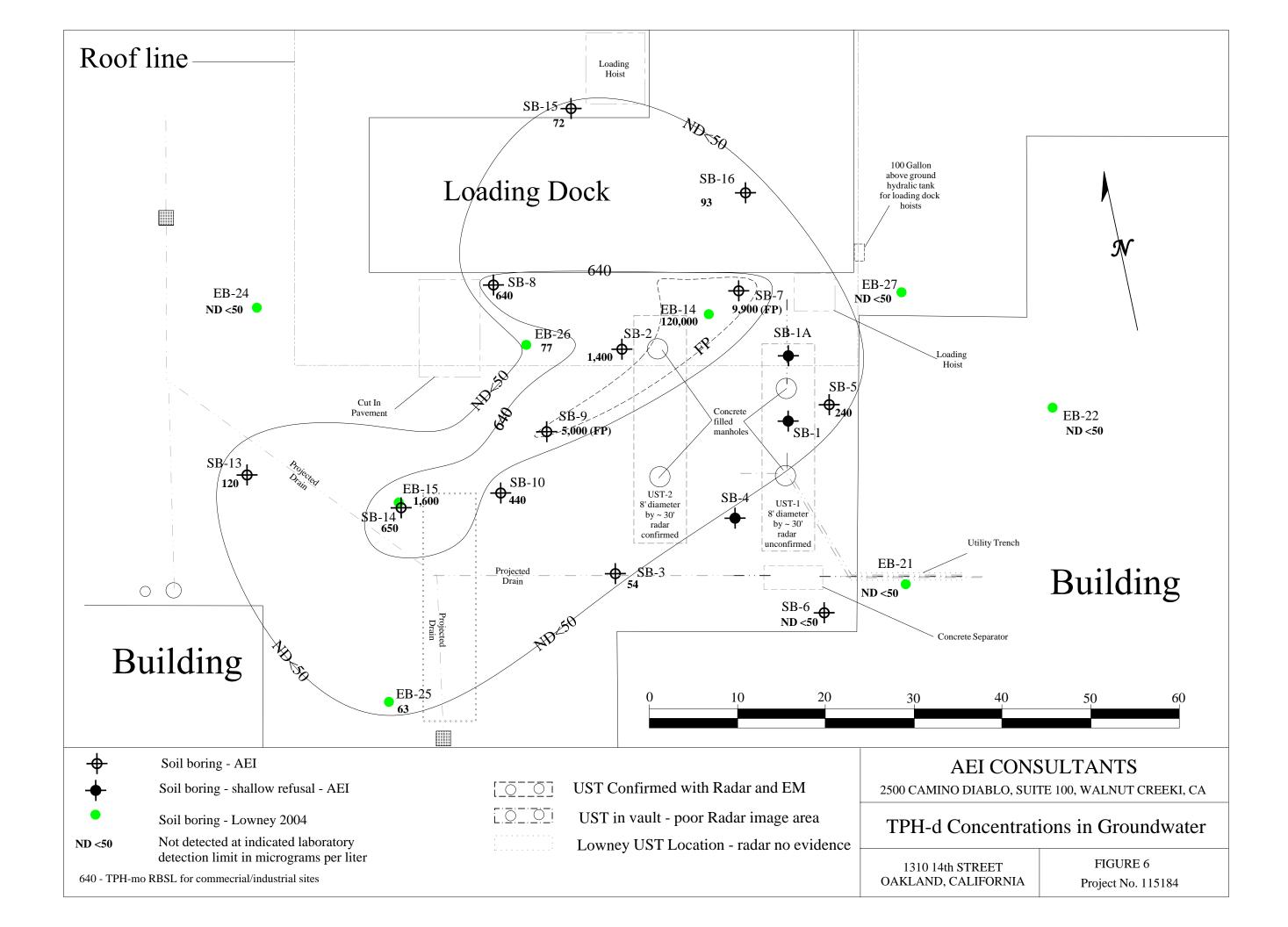


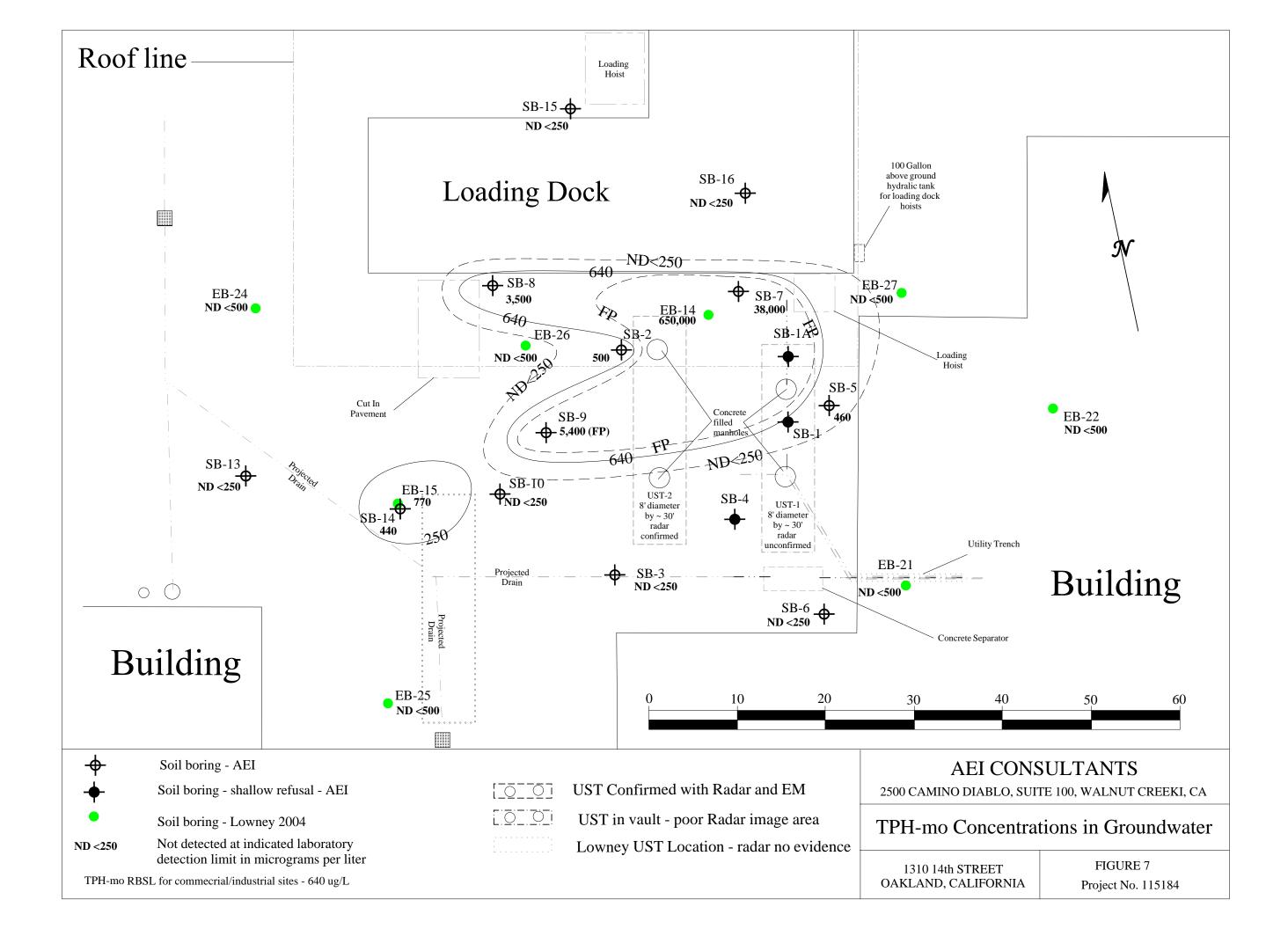












TABLES

Table 1: Lowney Soil Analytical Data (2004)

Hall Equities, 1310 14th Street (1310 16th Street) Oakland, CA

Sample	Sampling	TPH-g	TPH-d	TPH-mo	MTBE	Benzene	Toluene	Ethyl-	Xylenes
ID	Date							benzene	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		(E	PA method 8015	5C)		(E	PA method 8021	'B)	
EB-14	02/10/04	2	3,700	21,000	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
EB-15	02/10/04	610	230	300	ND<0.005	ND<0.005	ND<0.005	0.56	ND<0.005
EB-24	02/17/04	ND<1.0	ND<1.0	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
EB-25	02/17/04	ND<1.0	ND<1.0	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
EB-26	02/17/04	ND<1.0	ND<1.0	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
EB-27	02/17/04	ND<1.0	ND<1.0	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
DWOCD DDGI		400	500	1000	5 6	0.29	0.2	1.2	15
RWQCB RBSL	_ 	400	500	1000	5.6	0.38	9.3	1.3	1.5

for commecial/industrial sites, soul less than or equal to 3 meters, groundwater not a potential drinking water source.

values in bold exceed soil \RBSL

TPH-g = Total petroleum hydrocarbons as gasoline

TPH-d = Total petroleum hydrocarbons as diesel

TPH-mo = Total petroleum hydrocarbons as motor oil

MTBE = methyl tertiary butyl ether

mg/kg = milligrams per kilogram

RBSL - Risk based screening level

Table 2: Lowney Groundwater Analytical Data (2004)

Hall Equities, 1310 14th Street (1310 16th Street) Oakland, CA

Sample	Sampling	TPH-g	TPH-d	TPH-mo	MTBE	Benzene	Toluene	Ethyl-	Xylenes
ID	Date	ug/I	uаЛ	uаЛ	ша/Г	ug/I	ug/I	benzene	на/Г
		μg/L (E	μg/L PA method 8015	$\mu g/L$	µg/L	μg/L (E	μg/L PA method 8021	µg/L B)	μg/L
		1		- /		1		/	
EB-14	02/10/04	670	120,000	650,000	ND<0.5	0.74	3.7	1.6	5.8
EB-15	02/10/04	85,000	1,600	770	ND<0.5	350	ND <100	450	ND <200
EB-21	02/12/04	ND<50	ND<50	ND<500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0
EB-22	02/12/04	ND<50	ND<50	ND<500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
EB-24	02/17/04	51	ND<50	ND<500	ND<5.0	0.70	ND<0.5	ND<0.5	ND<0.5
EB-25	02/17/04	ND<50	63	ND<500	ND<5.0	0.70	ND<0.5	ND<0.5	ND<0.5
EB-26	02/17/04	ND<50	77	ND<500	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
EB-27	02/17/04	ND<50	ND<50	ND<500	ND<0.5	ND<0.5	ND<0.5	0.54	ND<0.5
RWQCB RBSL		500	640	640	1800	46	130	290	13

for commecial/industrial sites, groundwater not a potential drinking water source. values in bold exceed soil \mbox{RBSL}

1 = lighter than water immiscible sheen/product is present

TPH-g = Total petroleum hydrocarbons as gasoline

TPH-d = Total petroleum hydrocarbons as diesel

TPH-mo = Total petroleum hydrocarbons as motor oil

 $MTBE = methyl \ tertiary \ butyl \ ether$

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

Table 5:Soil Analytical Data

Hall Equities, 1310 14th Street (1310 16th Street) Oakland, CA

Sample	Sampling	TPH-g	TPH-d	TPH-mo	MTBE	Benzene	Toluene	Ethyl-	Xylenes
ID	Date							benzene	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg
		(EL	PA method 8015	<i>C</i>)		(E.	PA method 8021	<i>B</i>)	
SB-1 & SB-1a	09/12/05	Shallow	refusal, no soil	samples					
SB2-10	09/12/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB3-10	09/12/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-4 & SB-4a	09/12/05	Shallow	refusal, no soil	samples					
SB5-10	09/12/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB6-10	09/12/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB 7-10	09/29/05	ND<1.0	21	130	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB 8-10	09/29/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB 9-10	09/29/05	7.3	34	40	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB 10-10	09/29/05	1.5	ND<1.0	ND<5.0	ND<0.05	0.018	ND<0.005	0.11	0.016
SB-11 - SB-12	Not drilled								
SB13-10	11/18/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB 14	No samples held	d for analysis							
SB15-10	11/18/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB 16	Unstable gravel	at surface - no s	oil samples		'				
	-		-						
RWQCB RBSL	_	400	500	1000	5.6	0.38	9.3	1.3	1.5

for commecial/industrial sites, soul less than or equal to 3 meters, groundwater not a potential drinking water source.

values in bold exceed soil \RBSL

TPH-g = Total petroleum hydrocarbons as gasoline

TPH-d = Total petroleum hydrocarbons as diesel

TPH-mo = Total petroleum hydrocarbons as motor oil

MTBE = methyl tertiary butyl ether

mg/kg = milligrams per kilogram

RBSL - Risk based screening level

Table 4: Groundwater Analytical Data

Hall Equities, 1310 14th Street (1310 16th Street) Oakland, CA

Sample ID	Sampling Date	TPH-g	TPH-d	TPH-mo	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes
		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
			PA method 8013	· · · · · · · · · · · · · · · · · · ·			PA method 8021		
SB-1 & SB-1a	09/12/05	Shallow	refusal, no wate	er samples					
SB-2-W19	09/12/05	65	1,400	500	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-3-W19	09/12/05	ND<50	54	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-4 & SB-4a	09/12/05	Shallow	refusal, no wate	er samples					
SB-5-W19	09/12/05	ND<50	240	460	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-6-W19	09/12/05	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB 7- W	09/29/05	ND<50	9,900 ¹	38,000	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-8 W	09/29/05	ND<50	640	350	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-9 W	09/29/05	340	5,000 ¹	5,400	ND<5.0	1.0	ND<0.5	ND<0.5	ND<0.5
SB-10 W	09/29/05	1400	440	ND<250	ND<5.0	23	0.87	130	18
SB-11 - SB-12	Not drilled								
SB13-W-20	11/18/05	ND<50	120	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB14-W-20	11/18/05	1,700	650	440	ND<5.0	37	1.8	67	7.8
SB15-W-20	11/18/05	ND<50	72	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB16-W-20	11/18/05	ND<50	92	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
RWQCB RBSL		500	640	640	1800	46	130	290	13

for commecial/industrial sites, groundwater not a potential drinking water source.

values in bold exceed soil \RBSL

1 = lighter than water immiscible sheen/product is present

TPH-g = Total petroleum hydrocarbons as gasoline

TPH-d = Total petroleum hydrocarbons as diesel

TPH-mo = Total petroleum hydrocarbons as motor oil

MTBE = methyl tertiary butyl ether

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

APPENDIX A

Boring Permits

Alameda County Public Works Agency - Water Resources Well Permit

15001	Call Barren .
18 5	L
1	PUBLIC
Sec.	WURKS

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

Application Approve Permits Issued:	d on: 11/08/2005 By jamesy W2005-1096	Receipt Number: W Permits Valid from	/R2005-2183 11/18/2005 to 11/18/2005
Application Id: Site Location:	1131396808316 1310 16th St. (1310 14th)	City of Project	
Project Start Date:	11/18/2005	Completion D	ate:11/18/2005
Applicant:	AEI Consultants - Robert Flory 2500 Camino Diablo, Ste 100, Walnut cro		ne: 925-944-2899
Property Owner:	(Heather Dennis) Hall Equities Group 1855 Olympic Blvd, Ste 250, Walnut Cree	Pho	ne: 925-933-4150
Client:	(Heather Dennis) Hall Equities Group 1855 Olympic Blvd, Ste 250, Walnut Cree	Pho	ne: 925-933-4150
Contact:	Robert Flory		ne: 925-944-2899 ell: 925-457-7517
		Total Due: Total Amount Paid	\$200.00

Paid By: VISA

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 3 Boreholes Driller: Vironex - Lic #: 705927 - Method: DP

Work Total: \$200.00

PAID IN FULL

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2005- 1096	11/08/2005	02/16/2006	3	2.00 in.	20.00 ft

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.

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 George Bolton for an inspection time at 510-670-5594 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. Permitte, 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.

APPENDIX B

Boring Logs

Log of Boring SB-1

Sheet 1 of 1

	Date(s) Drilled	Sept	ember	12, 20	05			Logged B	V Robert F. Flory	,	Checked By Adrian A	Angel	
	Drilling Method	Dire	ct Pusł	า				Drill Bit Size/Type	1		Total Depth of Borehole 3 feet bg	s	
	Drill Rig Type		probe	5410				Drilling Contracto	r EnProb		Approximate Surface Elevation		
	Ground and Da							Sampling Method(s)	None		Permit # W2005-084	7	
- L I	Boreho Backfill	le Ce	ment S	lurry				Location			•		
g 20.tp					_								
P Borin	Elevation, feet	eet	Type		USCS Symbol	Log						PID Reading, ppm	
D] sbq.	levatic	Depth, feet	Sample Type Sample	Number	scs (Graphic Log						ID Re;	REMARKS AND
B1_10.	Ē	۵ – 0	ŭ ŭ	δŹ	Ő	U	Conorati		MATERIAL	DESCRIPTION		급접	OTHER TESTS
2130 S		_			SP		Concrete Sand, w	nite 10YR 8	8/1, fine grained, clea	an, loose sand, slightly	/ moist		
RFF/12		_			SP					grained, clayey, mois			
luities)					SP		√ Sand	strong bro	wn - brown 7.5YR 5	/8 - 5/4, fine grained,	clayey, moist		
Hall Ec	_	_				· ··	Refusal	on concrete	e, bottom of boring				
SGWI (_	_					_				-		
12130	_	5											
- RFF		_					_				_		
akland	_	_					_				-		
srp.) O	_	_					_				-		
uities (_	_					_				-		
Hall Eq	_	10—					_						
) II HA	_	_					_				_		
115184	_	_					_				_		
TION													
TERIZ	_	_					-				_		
ARAC	_	_					-				-		
ION/CF	_	15											
EDIAT		_					_				-		
& REN	_	-					-				-		
ATION	_	-					-				-		
TERIZ	_	_					-				-		
HARAC	_	20											
X:/PROJECTS/CHARACTERIZATION & REMEDIATION/CHARACTERIZATION/15184 PH II (Hall Equities Grp.) Oakland - RFF/12130 SGWI (Hall Equities) RFF/12130 SB1_10.bgs [DP Boring 20.tpl]		_							Com Is				
PROJE									AT				Figure
ΞĹ									A				,

CONSULTANTS ENVIRONMENTAL & CMIL ENGINEERING

Log of Boring SB-2

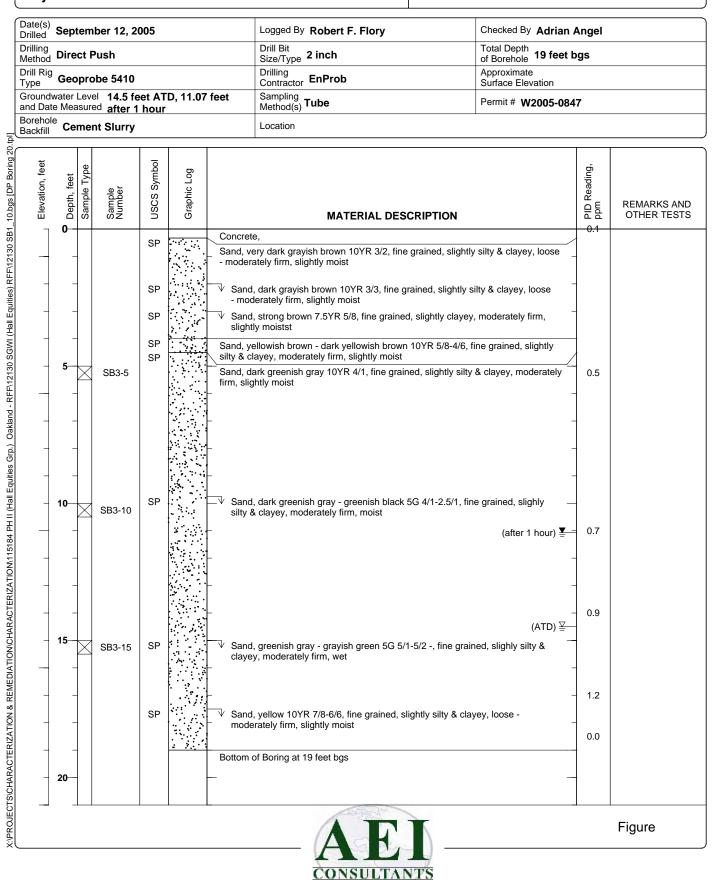
Sheet 1 of 1

Drilled Drilling Aethod	Dire	ct F	Push			Drill Bit Size/Type 2 inch	Total Depth of Borehole 17 fe	et bgs	
rill Rig			be 5410			Drilling	Approximate		
-ype Ground	water	Leve	15.01	feet A	TD, 9.7 feet	Sampling	Surface Elevation	00.47	
nd Dat Borehol	te Mea	asure	ed after 2	hour	S		Permit # W2005	.0041	
ackfill	Ce	mer	nt Slurry			Location			
Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DES	SCRIPTION	PID Reading, ppm	REMARKS ANI OTHER TEST
٦	0			0.0	Concr	rete,			
	-			SP	f moder	, dark yellowish brown 10YR 4/6, fine g rately firm, slightly moist nd, yellowish brown 10YR 5/6, fine grai iderately firm, slightly moist		- 0.2	
	5 — - -		SB2-5	SP SP	firm ↓ ↓ Sar	nd, dark gray 10YR 4/1, fine grained, sl n, slightly moist nd, yellowish brown 10YR 5/6, fine grai iderately firm, slightly moist		 0.4 	
-	- - 10—		SB2-10	SP SP SP	firm, s Sand, moder	, dark gray 10YR 4/1, fine grained, sligh slightly moist , dark yellowish brown 10YR 4/6, fine g rately firm, slightly moist , dark greenish gray - pale green 10GY y, loose - moderately firm, slightly moist	rained, slighly silty & clayey, loose - (after 2 hours) 4/1-6/2, fine grained, slighly silty &	0.5	
_	-		SB2-12					- 0.7	
	15— - -		SB2-15	SP	gra	nd, strong brown 7.5YR 5/8 - light olive iined, slighly silty & clayey, moderately m of Boring at 17 feet bgs		⊻0.7	
_	- 20—				-			_	
									Figure

ENVIRONMENTAL & CMIL ENGINEERING

Log of Boring SB-3

Sheet 1 of 1



ENVIRONMENTAL & CMIL ENGINEERING

Log of Boring SB-4

Sheet 1 of 1

ſ	Date(s) Drilled	Sep	temb	per 12, 20	005			Logged By	Robert F. Flory		Checked By Adrian A	Angel	
	Drilling Method	Dire	ect P	ush				Drill Bit Size/Type	2 inch		Total Depth of Borehole 3 feet bg	s	
	Drill Rig Type	Geo	prol	be 5410				D	_r EnProb		Approximate Surface Elevation		
	Ground and Da							Sampling Method(s)	None		Permit # W2005-084	7	
	Boreho Backfill	le Ce	men	t Slurry				Location					
<u>g</u> 20.tp					_								
P Borin	Elevation, feet	eet	Sample Type		USCS Symbol	Log						PID Reading, ppm	
D] sgd.	levatio	Depth, feet	ample	Sample Number	scs :	Graphic Log						ID Re	REMARKS AND
B1_10	ш	⊡ 0	Ś	ΰZ		_	Concrete	•	MATERIAL DE	SCRIPTION		ਰ ਕੁ	OTHER TESTS
2130 S					SP		Sand, gr	rayish white	, fine grained, slightly sil	lty & clayey, loose	- moderately firm,		
RFF/1:	_						slightly r	noist			_		
quities)													
Hall Ec	_	-					Refusal	on rusty ste	el, concrete filled UST?				
SGWI (_	-					_				-		
12130	_	5											
- RFF		-					_				_		
akland	_						_				-		
srp.) O	_	-					_				-		
uities 0	-						_				_		
Hall Eq	_	10					_						
) II HA	_						_				_		
15184													
TION		-											
ERIZA	_	-					_				-		
ARACT	_	-					_				-		
ON/CH	-	15—									_		
EDIATIC		-									-		
REME	_	-					_				-		
TION 8	-	-					_				-		
ERIZA	_	-					_				-		
ARACT	_	20											
TS/CH/	_												
X: PROJECTS/CHARACTER/ZATION & REMEDIATION/CHARACTER/ZATION/115184 PH II (Hall Equities Grp.) Oakland - RFN12130 SGWI (Hall Equities) RFFN2130 SB1_10bgs [DP Boring 20:pJ]									AE				Figure

CONSULTANTS ENTRONMENTAL& CIMLENGINEERING

Log of Boring SB-5

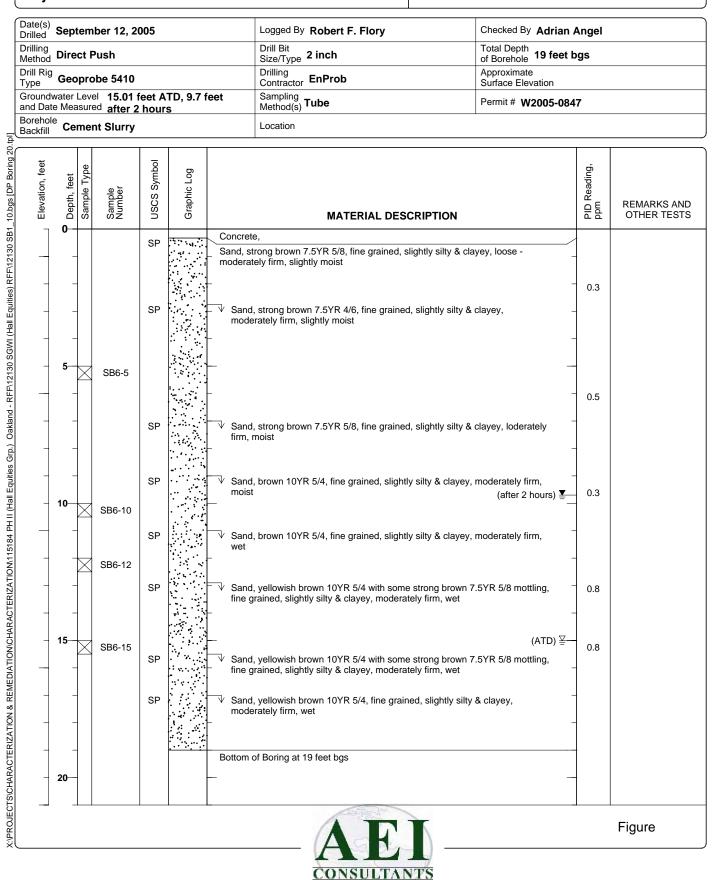
Sheet 1 of 1

Drilled Drilling Method Drill Rig			Push be 5410			Drill Bit Size/Type 2 in Drilling Contractor En		Total Depth of Borehole Approximat	e	
'ype Ground					tered ATD	Contractor		Surface Ele	vation	
Boreho			nt Slurry	leoun		Method(s)			12003-0041	
Backfill	Ce		it Slully			Location				1
Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log		MATERIAL DESCRIP	TION	PID Reading, ppm	REMARKS ANI OTHER TEST
7	0			SP	Concre					
	-				Sand, s slightly		R 5/8 - 4/6, fine grained, s	ightly silty & clayey, loo	se,	
_	5 - -		SB5-5	SP SP	mod → Sanc	erately firm, wet	.5YR 58-46 fine grained, si 5Y 6/4-5/4 mottled, fine gr		_ 03	
_	- 10— -		SB5-10	SP			enish gray 5Y 4/3 - 10GY 4 moderately firm, moist	/1 - 5G 4/1, fine grained	d, 0.2	
_	-		SB5-12	SP			enish gray 5Y 4/3 - 10GY 4 moderately firm, wet	/1 - 5G 4/1, fine grained	- 0.9 -	
_	15—	\times	SB5-15	SP	- → Sand	l, yellowish brown	10YR 5/4 with some stror Ity & clayey, moderately fir		ttling,0.6	
_	-			SP		l, yellowish brown erately firm, wet	10YR 5/4 fine grained, sli	ghtly silty & clayey,	-	
_	20—				Bottom	of Boring at 19 fe	et bgs		_	
_	_	_		_						Figure

CONSULTANTS ENTRONMENTAL& CIMLENGINEERING

Log of Boring SB-6

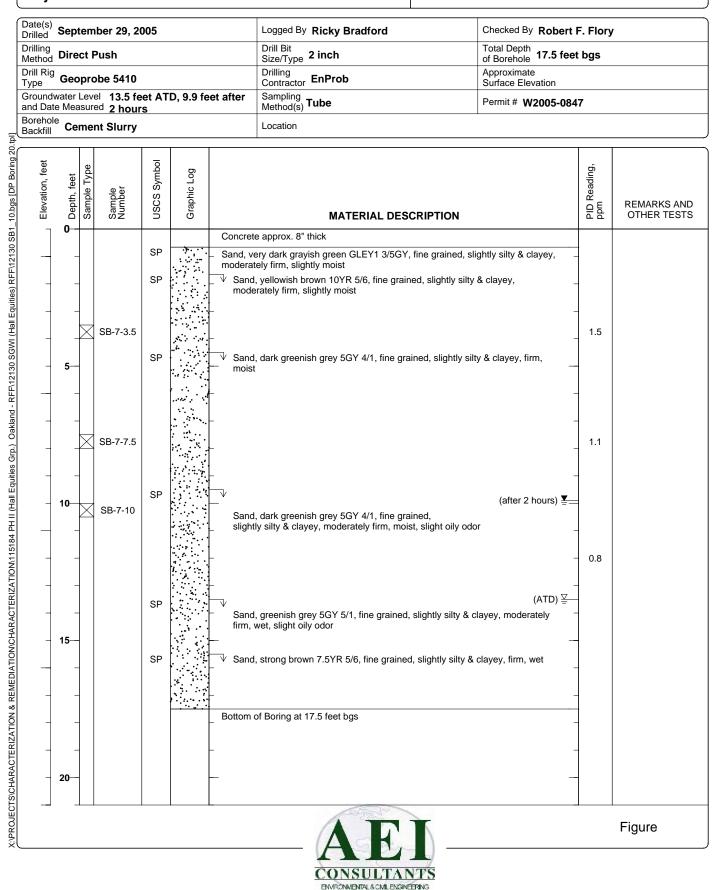
Sheet 1 of 1



ENVIRONMENTAL & CMIL ENGINEERING

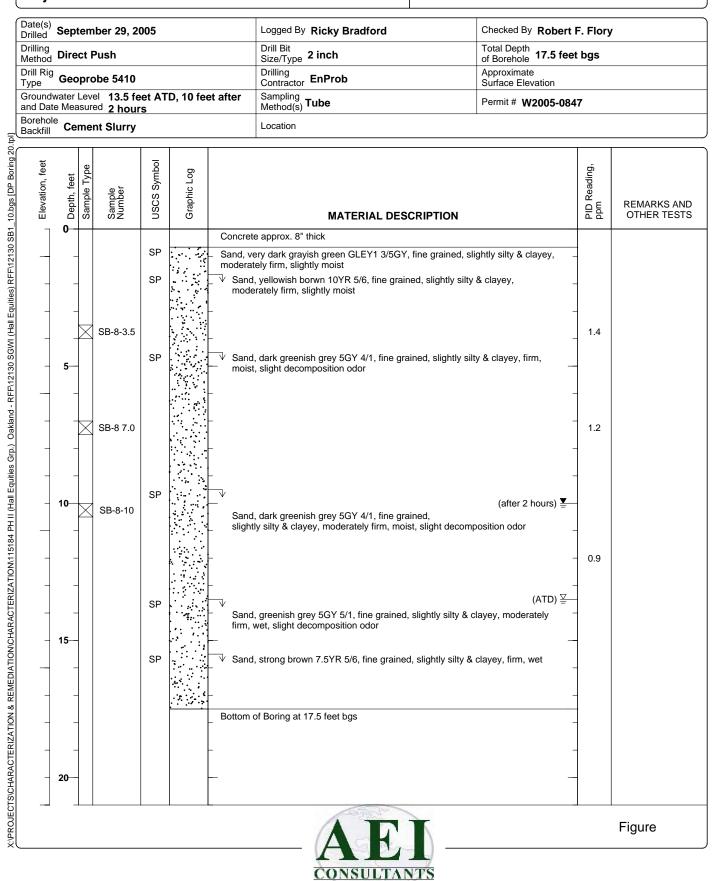
Log of Boring SB-7

Sheet 1 of 1



Log of Boring SB-8

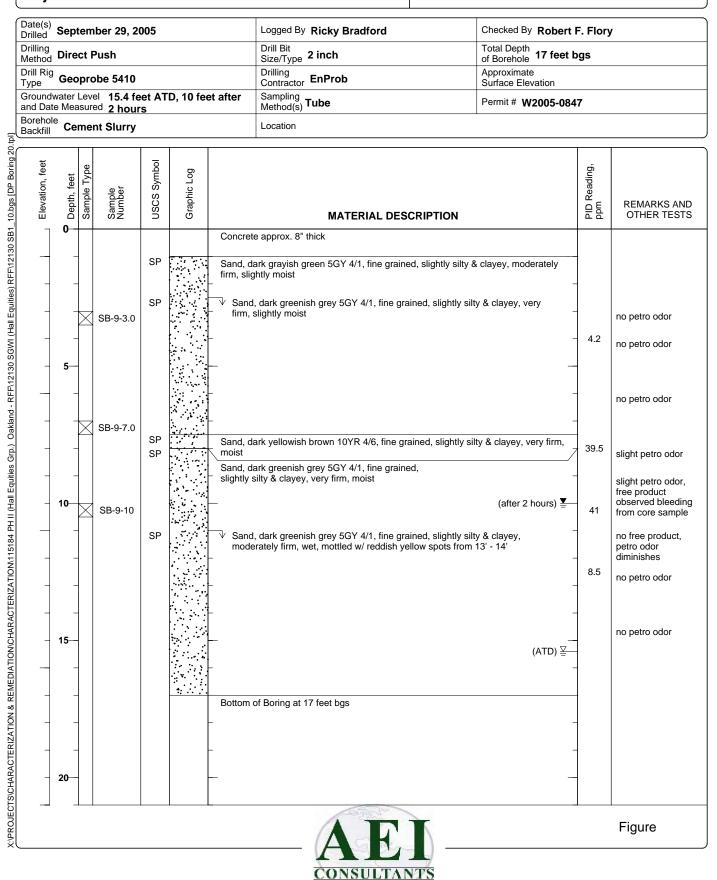
Sheet 1 of 1



ENVIRONMENTAL & CMIL ENGINEERING

Log of Boring SB-9

Sheet 1 of 1



ENVIRONMENTAL & CMIL ENGINEERING

Project: Hall Equities Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C Project Number: 12130

Log of Boring SB-10

Sheet 1 of 1

micu	Sep	tem	ber 29, 20	005		Logged By Ricky Bradford	Checked By Robe	rt F. Flor	У
rilling lethod	Dire	ct F	Push			Drill Bit Size/Type 2 inch	Total Depth of Borehole 19.5 f	eet bgs	
rill Rig ype	Geo	pro	be 5410			Drilling Contractor EnProb	Approximate Surface Elevation		
Groundy	water	Leve	e 12 feet	ATD	, 10.9 feet after	Sampling Method(s) Tube	Permit # W2005-0	847	
nd Date orehole ackfill	-		ed 2 hour	S		Location			
ackilli					1				
Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIP	FION	PID Reading, ppm	REMARKS AN OTHER TEST
7	0			0.0		ete approx. 6" thick			
_	_			SP		ative Sand, some gravel component, dark gra d, moderately firm, slightly moist	yish green 10Y 3/1, fine	-	
	_							4	olight motions 1
									slight petro odor
	-							1	
-	-	\square	SB-10-4	SP	San	d, dark greenish grey 10Y 3/1, fine grained, k	oose, slightly moist	202	
4	5—							_	
	_								
	_								
-	-							1	
-	-			SP	····· ····· San	d, dark yellowish brown 10YR 4/6, fine graine	d, slightly silty & clavey.	- 512	strong petro odo
	_					r firm, moist			visually stained s
1	10—	\bowtie	SB-10-10					41	
-	-			SP	↓ · · · · · · · · · · · · · · · · · · ·	ve sand, very dark greenish grey 10GY 3/1, f	(after 2 hours) ine grained, firm, wet	<u></u>	
-	-						(ATD)	11.5	no petro odor
	_								
1	-			SP	√ Nati	ve sand, brown 10YR 4/3, fine grained, silty &	k clayey, very firm, wet	1	
-	15							-	
_	-							-	
	_								
-	-							-	
-	-							-	
-	20—					n of Boring at 19.5 feet bgs			
	_					and a start of the			
									Figure

CONSULTANTS ENTRONMENTAL& CIMLENGINEERING

Project: Hall Equities Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C Project Number: 12130

Log of Boring SB-11 & SB-12

Sheet 1 of 1

ſ	Date(s) Drilled	Sep	teml	oer 29, 20	005			Logged By	Robert F. Flo	ory	Checked By Adrian A	Angel	
	Drilling Method	Dire	ct P	ush				Drill Bit Size/Type	2 inch		Total Depth of Borehole 0 feet bg	s	
	Drill Rig Type		pro	be 5410				Drilling Contractor	EnProb		Approximate Surface Elevation		
Ī	Ground and Dat	water						Sampling Method(s)	None		Permit #		
	Borehol Backfill	le Ce	men	t Slurry				Location					
<u>g 20.tp</u>					_								
P Borin	Elevation, feet	eet	Type		USCS Symbol	Log						PID Reading, ppm	
D] sbq.	levatic	Depth, feet	Sample Type	Sample Number	scs (Graphic Log						ID Re:	REMARKS AND
B1_10	ш Г	0 0	ű	ΰZ	⊃	U	Poringo	SP 11 and 1		AL DESCRIPTION		đđ	OTHER TESTS
2130 S	_	-					– Bonnigs		SB-12 not drilled		-		
RFF/12		-					_				_		
uities)													
Hall Eq	=	-	1								-		
SGWI (-	-					-				-		
12130	-	5—											
- RFF		-					_				-		
akland	-	-					_				-		
rp.) Ö	-	-					_				-		
uities G	_	-					_				-		
Hall Equ	_	10					_				_		
PH = (
15184													
FION1	-	-					_				-		
ERIZA ⁻	-	-					-				-		
ARACT	-	-					_				-		
N/CH4	-	15—											
DIATIC	_	-					_				-		
REME	-	-					-				-		
NON &	_	-					-				-		
ERIZAT		-									-		
RACTE		20											
S\CHA	1	20—											
X:PROJECTS/CHARACTERIZATION & REMEDIATION/CHARACTERIZATION115184 PH II (Hall Equities Grp.) Oakland - RFA12130 SGWI (Hall Equities) RFF12130 SGWI (Hall Equi		-			ı		L		A	EI –			Figure

CONSULTANTS ENVIRONMENTAL & CMIL ENGINEERING

Project: Hall Equities Group 1310 14th Street (1310 16th Street), Oakland, CA Project Number: 115184

Log of Boring SB-13

Sheet 1 of 1

Date(s) Drilled November 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 20 feet bgs
Drill Rig Type 6610 DT	Drilling Contractor Vironex, Inc	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) Tube	Permit # W2005-1096
Borehole Backfill	Location	

	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading,	REMARKS A
	0			Concrete GW		Sand, gravel, rock, brick fragments, FILL		
_	-			SP		Sand, dark gray - dark grayish brown 5Y 4/1-4/2, fine grained, slightly moist, moderately soft friable - slightly firm		
_	_	\times	SB13-3.5	SP		$\stackrel{\frown}{\vee}$ Sand, greenish gray 10GY 5/1, fine grained, moist, moderately soft friable	_	
_	5 -		SB13-5	SP		$\overline{}$ Sand, olive 5Y 4/3-5/4, fine grained, clay filled, moist, moderately soft friable	1.6 	
	- - 10—		SB13-10	SP		 ✓ Sand, yellowish brown 10YR 5/8 with some light olive brown 2.5Y 5/4 − mottling, fine grained, clay filled, moist, moderately firm, friable 	_ _ 5.5 _	
- - - -	- 15 -			SP		✓ Sand, yellowish brown 10YR 5/8, fine grained, clay filled, moist, moderately firm, friable, wet	_ 0.5 	
	_ 20—					Bottom of Boring at 20 feet bgs	- 1.0	
_	_							Figure

ENVIRONMENTAL & CMIL ENGINEERING

Project: Hall Equities Group Project Location: 1310 14th Street (1310 16th Street), Oakland, CA Project Number: 115184

Log of Boring SB-14

Sheet 1 of 1

Date(s) Drilled November 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 20 feet bgs
Drill Rig Type 6610 DT	Drilling Contractor Vironex, Inc	Approximate Surface Elevation
Groundwater Level and Date Measured Not Measured	Sampling Method(s) None	Permit # W2005-1096
Borehole Backfill Cement Slurry	Location Twin to EB-15	·

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0 - -	0		Concrete GW SP		Sand, gravel, FILL Sand, darkgreenish gray 10Y 4/1, fine grained, slightly moist, moderately soft friable	250	
	5— - - - 10—					No recovery	-	
_	-			SP		Sand,dark grayish green 5G 4/2, fine grained, clay filled, moist, moderately soft friable, hydrocarbon & decomposition odor ✓ Sand, yellowish brown 10YR 5/6, fine grained, clay filled, moist, moderately firm, friable no recovery, no water in boring	- 145	
	15— - -			SP		Sand, yellowish brown 10YR 5/6, fine grained, clay filled, moist, moderately firm, friable	- 25	
	20					Bottom of Boring at 20 feet bgs		Figure

CONSULTANTS ENVIRONMENTAL& CIVIL ENGINEERING

X: PROJECTS/CHARACTERIZATION & REMEDIATION/CHARACTERIZATION/15184 PH II (Hall Equities Grp.) Oakland - RFFBorings 13-16.bgs [DP Boring 20.tpl]

Project: Hall Equities Group Project Location: 1310 14th Street (1310 16th Street), Oakland, CA Project Number: 115184

Log of Boring SB-15

Sheet 1 of 1

Date(s) Drilled November 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 20 feet bgs
Drill Rig Type 6610 DT	Drilling Contractor Vironex, Inc	Approximate Surface Elevation
Groundwater Level and Date Measured 11 feet ATD	Sampling Method(s) Tube	Permit # W2005-1096
Borehole Backfill Cement Slurry	Location Bottom of loading dock ra	amp - 2 feet below grade in borings SB-13 & SB-14

Elevation, feet	Deptin, reet Sample Type	Sample Number	USCS Symbol	60 June 10 Boot State St	PID Reading, ppm	REMARKS A
				O MATERIAL DESCRIPTION Image: No recovery -	- - -	OTHER TES
- - 5 -	-	SB15-6	SP	Sand, brown 7.5YR 5/4, fine grained, moist moderately soft	- 0.8	
- - 10 -	-	SB15-10	SP	Sand, brown 7.5YR 5/4, fine grained, clay filled, moist, moderately soft friable, no odor (A	- - 0.9 \TD) ⊻- -	
- - 15 -	-	SB15-15	SP	Sand, brown 7.5YR 5/4, fine grained, clay filled, wet, moderately soft friable, r odor	- - - - - - -	
_ _ 20	-			Bottom of Boring at 20 feet bgs	-	_
				AFT		Figure

CONSULTANTS ENVIRONMENTAL& CIVIL ENGINEERING

Project: Hall Equities Group Project Location: 1310 14th Street (1310 16th Street), Oakland, CA Project Number: 115184

Log of Boring SB-16

Sheet 1 of 1

Date(s) Drilled November 18, 2005	Logged By Robert F. Flory	Checked By
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 20 feet bgs
Drill Rig Type 6610 DT	Drilling Contractor Vironex, Inc	Approximate Surface Elevation
Groundwater Level and Date Measured 16 feet ATD	Sampling Method(s) None	Permit # W2005-1096
Borehole Backfill Cement Slurry	Location On loading dock, 44 inches above	grade of SB-13 and SB-14

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS A OTHER TES
_	0							
-	-			GW		well graded crushed rock 3/4" - 2.5" diameter		
-	-							
_	-					No samples, push 2" probe with sacrificial tip to @ 24 feet, drop 25 feet 3/4" casing		
_	-	-			-	No samples, push 2" probe with sacrificial tip to @ 24 feet, drop 25 feet 3/4" casing with 15 feet of screen, pull probe, collect water sample		
_	5				-			
_	-				-			
	_				_			
	_							
	40							
	10—							
	=							
-	-							
-	-							
-	-							
-	15				-			
-	-				-	- (ATD) 볼		
-	-				-			
-	-				-			
-	-							
_	20					Bottom of Boring at 24 feet bgs	-	
	-							
								Figure

ENVIRONMENTAL & CMIL ENGINEERING

APPENDIX C

Laboratory Analyses With Chain of Custody Documentation 00101-

	Telepho	McCAN	110 2 nd A PACHE		OUTH.	, #D7 60		NC.) 798	8-162	22				UF			01	JN		IM					C 24 1	2		48 HI	10 C C	72 HR	5 DAY
	Report To: Rob	ert Flory			Bill To	o: Sa	me									_		1	Ana	lysi	s Re	que	st						Oth	er	Con	ments
	Company: AEI 0 2500		blo, Suite	00021 e 200	E-Mai			aeico	nsult	ants.e	com			TBE		&F/B&F)												List)			Filte Sam Meta	r ples for als
	Tel: (925) 944-2	899, extensio	on 1##	1	Fax: ((925)	94	4-289	5					8015)/MTBE		DE	8.1)						0128/0228/509					8010 Target			Ana	lysis:
	Project #: 115184		1	1	Projec	t Nar	ne:	Hall I	Equit	ties				108		(55	s (41		6				8776					8010			Yes	/ No
	Project Location:		treet	41	1	-	-	-						8020+	~	case	pous	(ist)	802	_			14			10)						
	Sampler Signatur	re: h	190	CP/	2	2	_		_				_	2/80	N	Gr	ocar	010	05/	3080			A 6			2/60		2601				
			SAM	PLING	/	su	1	MAT	RIX			SERV		as (60		Oil &	Hydn	0 (8)	PA 6	08/	8080	820	v FPA			239.		CS (8				
	SAMPLE ID (Field Point Name)	LOCATION		Time	# Containers	Type Containers	Water	Soil	Sludge		Ice			BTEX & TPH as G	TPH as Diesel (Sector)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOUS EPA 624 / 8260	PAH's / PNA's hv	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Halogenated VOCs (8260B -				
	9B13-5		11/4/03	OB14	T			V								4	1/e	7														
	5313-10		1.	asil	i			x			-	-		X	x	1	-	-	-		-	+	-	-	-	-				-	-	
	5015-10			1030	15	-		V			+	-		5	2	-	-	-		-	+	+	-	-	-				-	-	-	
	5815-15		V	1040	1	-		ž		+	+						A	21	1		-	1		-					-	-	-	
110	5012 4105		htel	in the second								_			,		-															
140	5B13-1420		1/18/09	0031	-		Ķ			-	_	-		X	K	_	-	-	-	-	_	_	-				_		_	-	-	
130	5014-4-20		1	0945		-	K			_	-	-		X.	X			_	-	_	_	-	-				_		_	_		
t30	5515-W20			1115			X							X	X																	
+40	7816-W-2	2	\mathcal{V}	1118		-	X	-		+	_	-	-	×	×	_	_		_	_	_	+	-	-			_		_			
										1																						
	AAA	1						-																								
	Relinquished By:	phy	Date:	Time: 1531 Time:	11	ived By	11	a	1	7.		ø	_		CE/t		/		0		/	1		ESEI			N_	OAS/	0&0	G I	METALS	OTHER
	Relinquished By:		Date:	Time:		ived By				-			_	H	EAI ECI	D SP	AC	EAL	BSE		AB	_	CO	PRO	INE	RS_	V	LAB				

McCampbell Analytical, Inc.

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 798-16	20			Wo	orkOrd	ler: 05	511375		Clier	ntID: A	EL		EDF	: NO			
Report to:							Bill to:						Req	uested	TAT:	5	days
Robert Flory		TEL:	(925) 283-600	0			Joa	anne Br	yant								
AEI Consultants 2500 Camino Di Walnut Creek, C	ablo, Ste. #200	FAX: ProjectNo: PO:	(925) 283-612 #115184; Hall				250		ino Dia	blo, Ste \ 94597				e Rece e Print		11/18/ 11/18/	
									Re	quested	Tests	(See leg	end bel	ow)			
Sample ID	ClientSampID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0511375-002	SB13-10		Soil	11/18/05 8:11:00		A		A	A								
0511375-003	SB15-10		Soil	11/18/05 10:30:00		А			А								
0511375-005	SB13-W-20		Water	11/18/05 8:30:00			Α			В						-	
0511375-006	SB14-W-20		Water	11/18/05 9:45:00			Α			В						1	
0511375-007	SB15-W-20		Water	11/18/05 11:15:00			Α			В						1	
0511375-008	SB16-W-20		Water	11/18/05 11:18:00			Α			В							

Test Legend:

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

Prepared by: Melissa Valles

Comments:

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

	McCampbell A	Analyti	cal, Inc.		Telep	hone : 925-798-16	7, Pacheco, CA 9455 20 Fax : 925-798-10 E-mail: main@mcca	622			
AEI Cons	ultants		Client Proj	ect ID:	#115184; Hall Eq	uities	Date Sample	ed: 11/18/0	5		
2500 Cam	ino Diablo, Ste. #200)			Date Received: 11/18/05						
Walacc			Client Con	tact: Rob	ert Flory	Date Extracted: 11/18/05-11/22/05					
walnut Cr	reek, CA 94597		Client P.O	Date Analyzed: 11/19/							
Extraction me	Gasoline I thod: SW5030B	Range (Co		-	ocarbons as Gas SW8021B/8015Cm	oline with B	TEX and MT	BE* Work Or	der: 05	11375	
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	
002A	SB13-10	S	ND	ND	ND	ND	ND	ND	1	88	
003A	SB15-10	S	ND	ND	ND	ND	ND	ND	1	99	
005A	SB13-W-20	W	ND,i	ND	ND	ND	ND	ND	1	112	
006A	SB14-W-20	W	1700,a,i	ND	37	1.8	67	7.8	1	111	
007A	SB15-W-20	W	ND,i	ND	ND	ND	ND	ND	1	105	
008A	SB16-W-20	W	ND,i	ND	ND	ND	ND	ND	1	103	
Repor	ting Limit for DF =1; eans not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	1	μg/L	

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

0.005

0.005

0.005

0.05

cluttered chromatogram; sample peak coelutes with surrogate peak.

S

1.0

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

ND means not detected at or

above the reporting limit

0.005

1

mg/Kg

McC	Campbell Analyti	ical, I	nc.		Telephone :	e South, #D7, Pacheco, CA 925-798-1620 Fax : 925 mpbell.com E-mail: main	5-798-1622	com	
AEI Consultants				#115184; Hal	11	Date Sampled:	l: 11/18/05		
2500 Camino Di	iablo, Ste. #200	Equiti	es			Date Received: 11/18/05			
Walnut Creek, C	TA 04507	Client	Contact: Ro	bert Flory		Date Extracted: 11/18/05			
wannut Creek, C	A 74J77	Client P.O.:				Date Analyzed:	11/19/05-	11/22/05	
Extraction method: SW:	Diesel (C10-23) and Oil 3510C/SW3550C	(C18+) I	Range Extrac Analytical metho		bons as I	Diesel and Motor O		der: 0511375	
Lab ID	Client ID	Matrix	ТР	H(d)		TPH(mo)	DF	% SS	
0511375-002A	SB13-10	S	1	ND		ND	1	101	
0511375-003A	SB15-10	S	1	ND		ND	1	99	
0511375-005B	SB13-W-20	W	12	0,b,i		ND		106	
0511375-006B	SB14-W-20	W	650,	d,b,g,i	440		1	113	
0511375-007B	SB15-W-20	W	72	,b,f,i	f,i ND		1	105	
0511375-008B	SB16-W-20	W	93	,b,f,i		ND	1	93	

Reporting Limit for DF =1; ND means not detected at or	W	0	50	μg/L
above the reporting limit	S	1.0	5.0	mg/Kg

* water samples are reported in $\mu g/L$, wipe samples in $\mu g/wipe$, 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 $\mu g/L$.

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.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

__Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil	W.O. Sample Matrix: Soil				trix: Soil			WorkOrder: 0511375			
EPA Method: SW8021B/801	5Cm E	xtraction	: SW5030	В	BatchID: 19106			Spiked Sample ID 0511379-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(btex ^f	ND	0.60	105	112	6.70	103	109	6.04	70 - 130	70 - 130	
MTBE	ND	0.10	91.1	91	0.106	83	89.2	7.21	70 - 130	70 - 130	
Benzene	ND	0.10	99.6	102	2.29	101	102	1.12	70 - 130	70 - 130	
Toluene	ND	0.10	87.3	91.6	4.78	87.8	90.9	3.55	70 - 130	70 - 130	
Ethylbenzene	ND	0.10	110	114	4.18	107	112	4.66	70 - 130	70 - 130	
Xylenes	ND	0.30	100	107	6.45	96	100	4.08	70 - 130	70 - 130	
%SS:	96	0.10	118	99	17.9	103	109	5.66	70 - 130	70 - 130	
All target compounds in the Me NONE	thod Blank of	f this extra	ction batcl	n were ND	less than the r	nethod RL	with the f	ollowing exc	eptions:		

BATCH 19106 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511375-002A	11/18/05 8:11 AM	11/18/05 1	1/22/05 5:41 AM	0511375-003A	1/18/05 10:30 AM	I 11/18/05	11/19/05 9:37 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.





QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water	W.O. Sample Matrix: Water				trix: Water			WorkOrder: 0511375			
EPA Method: SW8021B/80 ⁴	5Cm E	Extraction: SW5030B			BatchID: 19091			Spiked Sample ID 0511358-010A			
Analyte	Sample	le Spiked MS MSD		MSD	MS-MSD	LCS LC	LCSD	LCS-LCSD	Acceptance Criteria (%)		
/ that yes	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(btex ^f	ND	60	116	108	6.59	108	108	0	70 - 130	70 - 130	
MTBE	ND	10	86.8	85.8	1.19	86.1	87.2	1.28	70 - 130	70 - 130	
Benzene	ND	10	103	101	1.31	96.3	97.3	0.967	70 - 130	70 - 130	
Toluene	ND	10	109	113	3.67	99.4	104	4.67	70 - 130	70 - 130	
Ethylbenzene	ND	10	114	114	0	104	106	2.05	70 - 130	70 - 130	
Xylenes	ND	30	107	107	0	91.3	95.7	4.63	70 - 130	70 - 130	
%SS:	99	10	103	104	0.284	101	98	2.19	70 - 130	70 - 130	
All target compounds in the M NONE	ethod Blank o	f this extra	ction batcl	n were ND	less than the r	nethod RL	with the f	ollowing exc	eptions:		

BATCH 19091 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511375-005A	11/18/05 8:30 AM	11/22/05	11/22/05 7:42 AM	0511375-006A	11/18/05 9:45 AM	11/22/05	11/22/05 8:12 AM
0511375-007A	1/18/05 11:15 AM	11/22/05	11/22/05 8:41 AM	0511375-008A	1/18/05 11:18 AM	11/22/05	11/22/05 9:40 AM

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

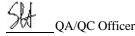
% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

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 applicable or not enough sample to perform matrix spike and matrix spike duplicate.





QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0511375

EPA Method: SW8015C Extraction: SW3550C					Batch	nID: 19078		Spiked Sample ID 0511379-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(d)	ND	20	107	109	1.97	106	107	0.537	70 - 130	70 - 130	
%SS:	106	50	100	101	1.11	101	100	1.06	70 - 130	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 19078 SUMMARY

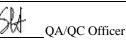
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511375-002A	11/18/05 8:11 AM	11/18/05	11/19/05 9:23 AM	0511375-003A	1/18/05 10:30 AM	11/18/05	1/19/05 10:32 AM

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.





QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511375

EPA Method: SW8015C	EPA Method: SW8015C Extraction: SW3510C					BatchID: 19100			Spiked Sample ID N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
TPH(d)	N/A	1000	N/A	N/A	N/A	105	106	1.10	N/A	70 - 130		
%SS:	N/A	2500	N/A	N/A	N/A	100	104	3.25	N/A	70 - 130		

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

BATCH 19100 SUMMARY

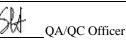
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511375-005B	11/18/05 8:30 AM	11/18/05	11/22/05 7:52 PM	0511375-006B	11/18/05 9:45 AM	11/18/05	1/19/05 12:49 PM
0511375-007B	1/18/05 11:15 AM	11/18/05	11/19/05 1:57 PM	0511375-008B	1/18/05 11:18 AM	11/18/05	11/22/05 2:10 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.



Telephor	McCAN	110 2 nd A PACHE	L ANAI VENUE SC ECO, CA 94	DUTH,	#D7 60	L IN			8-16	522				TU	RN	A										DY 24 H)	ł
rerepiio		0 1020						,						Geo	Tra	icke	r El	DF	\boxtimes		PD	F		1	Exc	el	\square	
Report To: Rober	t Flory		B	ill To	: Sa	me								1	11			An	alys	sis F	Redi	iest						
Company: AEI C				-		10/12	1027						_	Inl	E		-											ist)
	Camino Dia					203.0			-				4	E	AR/S	100	100	2.0	-				0					t Lis
	ut Creek, C.				l: Rf				ultar	nts.co	om			MTB) 18 18	1)	0.0	12.0	2				831(arge
Tel: (925) 944-28	399, extensio	on 1##			(925)		_							015)	2520	18		10.8	1 m				707					10 T
Project #: 12130	1210 14th e	that Oal	Project Name: Hall Equities							+ 8(A A) su	0	8020)					/ 82			()		- 80				
	14	reet, Oa	et, Oakland, CA										040	Treas	arbo	0 lis	/ 80	80				625			601(0B	
Sampler Signatur	e: ///	40	T		1	1.					IET	HOD		(602/8	808	droc	801	602	/ 8080	80	260		EPA			9.2/		(826
8.06220 (1977)	1	SAM	PLÍNG	s	ners	N	AA'I	FRD	X			RVE		Gas (h Hy	260	EPA	608	/ 80	1/82		by I	s		21/23		ocs
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Container	Type Contain	Water	Soil	Sludge	Other	Ice	HCI	HNO ₃	Other	BTEX & TPH as TPH as Diesel (Total Petroleum	Total Petroleun	HVOCs EPA 8	BTEX ONLY (Pesticides EPA	PCBs EPA 608	VOCs EPA 624	EPA 625 / 8270	PAH's / PNA's	CAM-17 Metals	LUFT 5 Metals	Lead (7240/742	RCI	Halogenated V(
5B2-5		9/12/00	0854	(2×5	15	L			1			T															
562-10		1	0905	-1	1		X			V				XJ	<													
562-12			0910	1	1/		X			2			1															
JB2-15			0914	1			λ	1	-	V			1		1			1										
Sh2-L			1020	1			x			Ĵ			+	+	+	1	+	1										
100-5 563-M			1020	1		ľ	6	+	+	Ň				1			-	-										
12-16			1007	1				+	+				Ŧ		+	+	+	+	-									
203 12			1040	1.			×	+	+	J			+		+	+	+	+		-	-						_	-
755-1			1145				4	+	+	$\overline{\mathbf{x}}$						+	-	-	-	-							_	<u> </u>
159-10			1150		\square		$\sum_{i=1}^{n}$	-	-	1			+		-	-	-	-	-	-		-					_	
566-3			1245	1			X	-	-	X		210			+-	-	-	-	-	-		-					_	<u> </u>
7B6-10		\checkmark	1250	1	\mathbf{Y}		X	-	-				-	< 7	1	-	-	-								_		1
112			-				_		1					_		_												
\cap	1 .																											
Relinquished By:	Λ	Date:	Time:	Rece	ived B	y:	7		/				Τ															
Hall Y	6M	9/13/09	11:15/A/-	M	la	R	~	1	_	-	4			ICI	E/tº	١	/			. /	/	1	PRF	SEF	RVA	TIO		OAS
Relinquished By:		Date:	Time:	Rece	ived B	1:1		1/	1	00				GO	OD	CO				V	_		APP	RO	PRL	ATE		1
CAX-1R	M	2/19/0) ATASAL	Mal Vale					HEAD SPACE ABSENTCONTAINERSDECHLORINATED IN LABPERSERVED IN						V													

· ·

T2 HR 5 DAY 48 HR Write On (DW) Comments Other Filter Samples for Metals Analysis: Yes / No METALS OTHER S 0&G B_____

McCampbell Analytical, Inc.

110 Second Avenue South, #D7 Pacheco, CA 94553-5560

SB6-10

Soil

2 7 12

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 7	98-1620				Work	Order	: 05092	286	(ClientI	D: AEI	4	F	DF: N	0				
Report to:			/				Bill						I	Reques	ted TAT	:	5 d	lays	5
	•	TEL: FAX: Projec PO:	(925) 283-6000 (925) 283-6121 tNo: #12130; Hall Equi	ities	Diane All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597				200		Date Ro Date Pi	eceived. rinted:		9/13/2 9/13/2		-			
									Reques	ted Test	s (See le	egend b	elow)						
Sample ID	ClientSampID	Matrix	Collection Date Hol	ld 1	2	3	4	5	6	7	8	9	10	11	12	13	14	1	15
0509286-002	SB2-10	Soil	9/12/05 9:05:00 AM	A	A	A													
0509286-006	SB3-10	Soil	9/12/05 10:25:00	Α		А	-												
0509286-009	SB5-10	Soil	9/12/05 11:50:00	Α		А													

А

А

9/12/05 12:50:00

Test Legend:

0509286-011

1	G-MBTEX_S
6	
11	

PREDF REPORT	l

3	TPH(DMO)_S
8	
13	

4	
9	
14	

5	
10	
15	

Prepared by:	Melissa	Valles
--------------	---------	--------

Comments:

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

	McCam	pbell A	analytica	al, Inc.	v	Telepho	renue South, #D7, Pache ne : 925-798-1620 Fay nccampbell.com E-mail	x : 925-798-1622					
AEI Co	nsultants		Client P	roject ID: #12	2130; Hall Ec	quities	Date Sampled:	09/12/05					
2500 Ca	amino Diablo,	Ste. #200					Date Received:	09/13/05					
XX7 1 /		507	Client C	Contact: Robert	Flory	Date Extracted:	09/13/05						
Walnut	Creek, CA 945	597	Client P	2.0.:	Date Analyzed: 09/14/05								
Extraction	Gasol method: SW5030B	_	e (C6-C12)	-	ocarbons as ethods: SW8021E		with BTEX and		Order: (0509286			
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS			
002A	SB2-10	S	ND	ND	ND	ND	ND	ND	1	89			
006A	SB3-10	S	ND	ND	ND	ND	ND	ND	1	90			
009A	SB5-10	S	ND	ND	ND	ND	ND	ND	1	96			
011A	SB6-10	S	ND	ND	ND	ND	ND	ND	1	96			
										+			
	g Limit for DF =1; s not detected at or	W	NA	NA	NA	NA	NA	NA	1	ug/L			
	he reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg			

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

Mc	Campbell Ar	nalytic	al, Inc.	1	2nd Avenue South, #D7, Pac 'elephone : 925-798-1620 d www.mccampbell.com E-m	Fax : 925-79	98-1622	om		
AEI Consultant	ts	Client	Project ID: #1213	0; Hall Equities	S Date Sampled	: 09/12	2/05			
2500 Camino I	Diablo, Ste. #200				Date Received	Date Received: 09/13/05				
Wolnut Croals	CA 04507	Client	Contact: Robert Fl	ory	Date Extracted	1: 09/13	3/05			
Walnut Creek,	CA 94397	Client	P.O.:		Date Analyzed	l: 09/14	4/05			
Extraction method: SV		and Oil (C	C18+) Range Extrac Analytical metho	•	oons as Diesel and Mo	otor Oil*		ler: 0509286		
Lab ID	Client ID	Matrix	TPH(d)		TPH(mo)		DF	% SS		
0509286-002A	SB2-10	S	ND		ND		1	104		
0509286-006A	SB3-10	S	ND		ND		1	103		
0509286-009A	SB5-10	S	ND		ND		1	101		
0509286-011A SB6-10		S	ND		ND		1	104		
Reporting L	imit for DF =1;	W	NA		NA		ug/L			
	ot detected at or reporting limit	S	1.0		5.0		mg	/Kg		

* water samples are reported in $\mu g/L$, wipe samples in $\mu g/wipe$, 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 $\mu g/L$.

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.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil				QC Mat	trix: Soil			WorkOrder: 0509286				
EPA Method: SW8021B/8015	Cm E	Extraction	SW5030	В	Batcl	nID: 17976	;	Spiked Sample ID: 0509285-001A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)		
, and yes	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
TPH(btex) [£]	ND	0.60	109	106	2.92	109	108	0.686	70 - 130	70 - 130		
MTBE	ND	0.10	94.3	91.1	3.53	96.3	89.5	7.35	70 - 130	70 - 130		
Benzene	ND	0.10	91.1	89.3	1.97	94.2	89.3	5.35	70 - 130	70 - 130		
Toluene	ND	0.10	90.3	88.5	1.94	93.6	88.6	5.43	70 - 130	70 - 130		
Ethylbenzene	ND	0.10	93.9	92.3	1.72	95.2	92	3.50	70 - 130	70 - 130		
Xylenes	ND	0.30	95	94.3	0.704	95	94	1.06	70 - 130	70 - 130		
%SS:	103	0.10	102	100	2.18	102	101	0.985	70 - 130	70 - 130		
All target compounds in the Metho	d Blank of th	is extraction	h batch wer	e ND less th	nan the method	RL with th	e following	g exceptions:				
NONE												

BATCH 17976 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509286-002A	9/12/05 9:05 AM	9/13/05	9/14/05 9:02 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.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0509286

EPA Method: SW8015C	E	xtraction:	SW3550	С	Batch	ID: 17991		Spiked Sample ID: 0509286-011a					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD			
TPH(d)	ND	20	94.9	93.4	1.59	104	104	0	70 - 130	70 - 130			
%SS:	104	50	106	103	3.04	101	102	1.12	70 - 130	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 17991 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509286-002A	9/12/05 9:05 AM	9/13/05	9/14/05 5:15 AM	0509286-006A	9/12/05 10:25 AM	9/13/05	9/14/05 6:23 AM
0509286-009A	9/12/05 11:50 AM	9/13/05	9/14/05 7:31 AM	0509286-011A	9/12/05 12:50 PM	9/13/05	9/14/05 8:40 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.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil				QC Mat	trix: Soil			WorkOrder: 0509286				
EPA Method: SW8021B/8015	Cm E	Extraction	SW5030	В	Batcl	hID: 17992	1	Spiked Sample ID: 0509286-011A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)		
, and ju	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
TPH(btex) [£]	ND	0.60	104	108	3.78	107	105	2.55	70 - 130	70 - 130		
MTBE	ND	0.10	95	96	1.06	91.6	90.2	1.52	70 - 130	70 - 130		
Benzene	ND	0.10	94	97.2	3.33	90.1	90.9	0.932	70 - 130	70 - 130		
Toluene	ND	0.10	92.6	95.9	3.51	88.9	90.2	1.45	70 - 130	70 - 130		
Ethylbenzene	ND	0.10	97.3	98.2	0.853	93.2	93.3	0.0857	70 - 130	70 - 130		
Xylenes	ND	0.30	93	99.3	6.59	95	94.7	0.351	70 - 130	70 - 130		
%SS:	96	0.10	105	104	0.957	101	103	1.96	70 - 130	70 - 130		
All target compounds in the Metho NONE	d Blank of th	is extraction	ı batch wer	e ND less th	nan the method	RL with th	e following	g exceptions:				

BATCH 17992 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509286-006A	9/12/05 10:25 AM	9/13/05	9/14/05 9:32 PM	0509286-009A	9/12/05 11:50 AM	9/13/05	9/14/05 10:01 PM
0509286-011A	9/12/05 12:50 PM	9/13/05	9/14/05 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.

£ 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.

	Telepho	McCAN	110 2nd A PACHE		DUTH	#D7 60			5) 7	98-1	622				Т	UR	RN .	AR	01					FO										5 DAY
L															G	eoT	rac	ker	ED	F	\ge	1	PDF				Exe	cel	\boxtimes	3	W	rite (Dn (DW	D 🗌
_	Report To: Rober	and the second se		I	Bill To	o: Sa	me	8								_	_	_	1	Ana	lysi	s R	equ	est	_	_	_	_	_		Oth	er	-	nments
4	Company: AEI C						~							_		10	E													9			Filte	
-	A DESCRIPTION OF A DESC	Camino Dia				1. D.		0				22:32		-	-	10	F/B								0					- 8010 Target List)			Met	ples for
-	THE R. P. LEWIS CO., LANSING MICH.	ut Creek, C.			C-Mai				_	sulta	nts.c	com		-	8015)/MTBE	poter	E&I	=							EPA 625 / 8270 / 8310					arge				lysis:
_	Fel: (925) 944-28 Project #: 12130	999, extensio	on 1##		roje						0			-	015)	the	520	418.							70/					101			1.000	/ No
	Project #: 12130 Project Location:	1310 14th S	trat for		rojec		mes -	па	Eq	unne	s			-	*	20	se (5) suo	0	00					/ 82			6		- 80			105	7 100
_	Sampler Signatur		Geergak	2 g		A	1	-	7		_			-	8020	No	Great	arbo	0 lis	5/8	8				625			109						
	Sampler Signatur	c. //	-	LING	-				TD	w	T	MET	гног	5	Gas (602/8020+	30	8	droc	(801	09	8	80	8		EPA			39.2/		(826				
		11	SAMP	LING	2	Der		MA	TR	IA	PI	RESI	ERVI	2D	Gas	(801	n Oi	u Hy	260	EPA	608	/ 80	4/8			8		11/2		So				
0	SAMPLE ID Field Point Name)	LOCATION	Date	Time	# Container	Type Containe	Water	Soil	Air .	Sludge	Ice	HCI	HNO ₃	Other	BTEX & TPH as	TPH as Diesel (8015) djose	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Halogenated VOCs (8260B				
1	5B2-419		9/13/01	0950	5	Vor	X				5	×			X	X					+		-								\square	+	+	
4	56 3-419		11	1035	H	1	X	H	+	+		×		1	¥	X	-	1		1	+	+	+									+	-	
V	56-5-410		1	1200	4	\vdash	Í.	H	+	+	1	F		+	~	x	-	+	-	+	-	-	+	-	-	-		-				+	1	
-	10-5-1017				th		<u>}</u>	\vdash	+	+	ť	1	+	+	~	À	+	+	+	-	+	-	+	+	-	-	-	-	-		\vdash	+	-	
-	3B-6-W19		,	1300	7	,	×		-	+	×	-		+	~	7	+		+		+	-	+	+				-			-	+	+	
																		-				_										+	-	
		-					F				F			+	-		-	-	-		-	-	-	-	-							-	-	
F											-			+	-		-	-	-	-		-	-	-						_	-	-	-	
F	1	11							-		F			+	-	_		-	-	-		-		-						\square	+	+	-	
	telinguished By:	A	Date: 0/13/15	Time:		ived B					_				I	CE/ť	0	/	0			- /		P	RES	FP	VA	TIC	V	QAS	0&	G	METALS	OTHER
	elinquished By!	1	Date: 9/1/3/ Date:	Time: //://SA Time:		ived B ived B	y: //	l	?	Vo	il	V			G H	EAI	D CO	AC	DITI E AI	BSE	NT		-	AC	PPF	ROP TAI	PRI/	ATE RS_	V	LAB	ـــــــــــــــــــــــــــــــــــــ			

McCampbell Analytical, Inc.

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

SB-5-W19

SB-6-W19

Water

Water

9/12/05 12:00:00

9/12/05 1:00:00 PM

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 79	8-1620				Work	Order	05092	268	(ClientI	D: AEI	Ĺ	ŀ	EDF: N	0			
Report to:							Bill t	0:					l	Reques	ted TAT	Г:	5 d	ays
Robert Flory	1	TEL:	(925) 283-6000					Diane										-
AEI ConsultantsFAX:(925) 283-61212500 Camino Diablo, Ste. #200ProjectNo: #12130; Hall EquitiesWalnut Creek, CA 94597PO:				es	All Environmental, Inc.Date Receive2500 Camino Diablo, Ste. #200Date ReceiveWalnut Creek, CA 94597Date Printed													
								l	Request	ed Test	s (See I	egend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date Hold	1 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0509268-001	SB-2-W19	Water	9/12/05 9:50:00 AM	Α	Α	В												
0509268-002	SB-3-W19	Water	9/12/05 10:55:00	Α		В												

В

В

А

А

Test Legend:

0509268-003

0509268-004

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

3	TPH(DMO)_W
8	
13	

4	
9	
14	

5	
10	
15	

Comments:

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

	McCam	pbell A	Analytica	al, Inc.	v	Telepho	enue South, #D7, Pache ne : 925-798-1620 Fax nccampbell.com E-mail	x : 925-798-1622		
AEI Co	nsultants		Client F	Project ID: #12	2130; Hall Ec	quities	Date Sampled:	09/12/05		
2500 C	amino Diablo,	Ste. #200)				Date Received:	09/13/05		
XX 7 1 /		-07	Client C	Contact: Robert	Flory		Date Extracted:	09/15/05-0	9/16/0	5
Walnut	Creek, CA 945	597	Client F	? .0.:			Date Analyzed:	09/15/05-0	9/16/0	5
Extraction	Gasol method: SW5030B	ine Rang	ge (C6-C12)	·	ccarbons as ethods: SW8021E		with BTEX and		Order: 0	509268
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	SB-2-W19	W	65,b,i	ND	ND	ND	ND	ND	1	108
002A	SB-3-W19	W	ND,i	ND	ND	ND	ND	ND	1	114
003A	SB-5-W19	W	ND,i	ND	ND	ND	ND	ND	1	111
004A	SB-6-W19	W	ND,i	ND	ND	ND	ND	ND	1	113
	g Limit for DF =1; s not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	1	μg/L
	he reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

Mo	cCampbell A	nalytic	cal, Inc.	We	110 2nd Avenue Sou Telephone : 925-7 ebsite: www.mccampbe	98-1620 Fax : 925	-798-1622	com					
AEI Consultat	nts		Client Project ID:	#12130; H	Iall Equities	Date Sample	d: 09/12/0)5					
2500 Camino	Diablo, Ste. #200					Date Receive	ed: 09/13/0)5					
Walnut Creek	CA 94597		Client Contact Ro	bert Flory		Date Extracte	ed: 09/13/0	05					
	, 011 / 107 /		Client P.O.			Date Analyze	ed: 09/13/0	05-09/14/					
Extraction method:		and Oil (C18+) Range Extrac Analytical metho	•	ocarbons as Diese	el and Motor O	der: 0509268						
Lab ID	Client ID	Matrix	TPH(d)		TPH(mo)	DF	% SS					
0509268-001B	SB-2-W19	W	7 1400,a,i 500 1										
0509268-002B	SB-3-W19	W	54,b,i	1	103								
0509268-003B	SB-5-W19	W	240,g,b,i		46	0	1	102					
0509268-004B	SB-6-W19	W	ND,i	ND,i ND									
	Limit for DF =1; not detected at or	W	50		25			g/L					
	e reporting limit	S	NA		NA	Α	mg	/Kg					

* water samples are reported in $\mu g/L$, wipe samples in $\mu g/wipe$, 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 $\mu g/L$.

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.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant;); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirits; p) see Case Narrative.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0509268

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyte	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	102	111	8.91	108	109	0.502	70 - 130	70 - 130
MTBE	ND	10	93.5	103	10.1	97.6	95.8	1.88	70 - 130	70 - 130
Benzene	ND	10	90.7	101	10.5	93.8	93.5	0.345	70 - 130	70 - 130
Toluene	ND	10	89.9	100	10.8	94.7	95.3	0.657	70 - 130	70 - 130
Ethylbenzene	ND	10	92	103	11.0	95.5	95.5	0	70 - 130	70 - 130
Xylenes	ND	30	87.7	103	16.4	95.7	99	3.42	70 - 130	70 - 130
%SS:	113	10	97	98	0.236	97	97	0	70 - 130	70 - 130

BATCH 17962 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509268-001A	9/12/05 9:50 AM	9/16/05	9/16/05 3:32 AM	0509268-002A	9/12/05 10:55 AM	9/15/05	9/15/05 6:58 AM
0509268-003A	9/12/05 12:00 PM	9/15/05	9/15/05 7:27 AM	0509268-004A	9/12/05 1:00 PM	9/15/05	9/15/05 7:57 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 applicable or not enough sample to perform matrix spike and matrix spike duplicate.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0509268

EPA Method: SW8015C	E	xtraction	SW3510	С	Batch	nID: 17977	,	Spiked San	nple ID: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
, individ	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	98.4	99	0.575	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	102	103	0.943	N/A	70 - 130

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

BATCH 17977 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509268-001B	9/12/05 9:50 AM	9/13/05	9/13/05 11:45 PM	0509268-002B	9/12/05 10:55 AM	9/13/05	9/14/05 12:53 AM
0509268-003B	9/12/05 12:00 PM	9/13/05	9/14/05 2:02 AM	0509268-004B	9/12/05 1:00 PM	9/13/05	9/14/05 3:10 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.

Telepho	McCAN	110 2 nd A PACHE	L ANAI VENUE SC CO, CA 94	DUTH,	#D7 50				98-1	62	2			Т	UR	IN	AR		CH								D 24 I					72 HR		DAY
Telephon						44.4.4	(740	,,,	20-1	0				G	eoT	rac	ker	ED	F	\boxtimes	1	PDI	F -	X								Dn (DV]
Report To: Rober		22	B	ill To	: Sa	me								6					Ana	lysi	s R	equ	est	4		0				Othe	er	Co	mme	ents
Company: AEI C								_		-					100	(H)													0			Filt		
and the second sec	Camino Dia				Inc	-		-				-	_	E	20	1/B&								0				-	t Lis				nples	s for
1	at Creek, C.			-Mai				-	isultai	nts	.com	-	-	MTB	150	EST	=							831(arge				alysi	s.
Tel: (925) 944-28 Project #: 12130	99, extensio	on 1##		ax: (rojec					wition			-	-	8015)/MTBE	No	520	418.							625 / 8270 / 8310					10 T				s /	
Project Location:	1310 149 81	reet Oakl			L INAL	ue:	riali	Eq	unities	5	-		-	+	H	se (5) suc	Ŧ	020)					/ 82			()		- 80			103	, /	INO
Sampler Signatur			Stand, Ch	-	2		11	-		-	1		-	8020	Mul	Grea	arbc	0 lis	2/8(80			1	625			(601		SOB					
Sumpler Signatur	1100	SAMP	LING	s	iers		MAT	ΓR	IX	F	MET	HOD	D	Gas (602/8020	8015)	i Oil & G	Hydroc	260 (801	EPA 60	608 / 80	/ 8080	./ 8260		by EPA	5	1 and	1/239.2/		DCs (82(
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	AIr	Sludge Other	T	HCI	HNO ₃	Other	BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520-E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Halogenated VOCs (8260B - 8010 Target List)					
567-7,5		7 bolos	ORUD					1		t			+	-																-	+	-		
527-10	1	9/20	0852					1		t				X	Y																	1		-
540-7	1	1-10	0950					+		t			ť		-																-			-
D-D	CONTRACTOR OF	1	BOEL	-				+		t				V	1																+			
00 10 2hg - 2		1	1100	1.11				-		t			ľ	7	×					-	-	-					-			-	-	-	-	et .
14 3			1100							t			+							-	-										-			
107-1			1105				-	+	-	╉			+	4	~	-	-		-	-	-	-					-			4	+	-		-
107-10		1/	1125	-			-	+	-	╉	-		-	+	X			-	-	-	-	-				-	-				-	-		
610-4		1/	1240					-		╋			+	1		1	-	-		-	-						-		\square		-			-
58-10-10		V	1055	-						+			-	+	X.										-					-	-	1 3	1	
1	11	2			-						-		+					-	-	-	-													-
Relinquished By:	Vh	Date:	Time:	Rece	ived B	y:	2		n	5	d	2	1				1			/	/								OAS	0&0	3	METAL	s c	OTHER
Refinquished By:	Ato	Date:	Time:	Rece	ited B	21/1	1 al	1	1/	1	1	1		0		DC			ION				A		SER ROF	RL	ATE		1	1				

McCampbell Analytical, Inc.

110 Second Avenue South, #D7 Pacheco, CA 94553-5560

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

	98-1620					Work	Order	: 05090	648		ClientII): AEI	4]	EDF: Y	ÆS			
Report to: Robert Flor	V.	TEL:	(925) 283-60(00				Bill	to Diane						Reque	sted T	AT	1 d	ay
AEI Consul 2500 Camir	,	FAX:	(925) 283-612 (925) 283-612 No: #12130; Hall	21	es				All Env 2500 (vironme Camino	ental, Ind Diablo k, CA 94	, Ste. #	200			Receiv Printe			
				Γ					Re	equeste	ed Tests	s (See I	egend	below)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0509648-002	SB 7-10	Soil	09/29/05 8:50:00		A	A	A												
0509648-004	SB 8-10	Soil	09/29/05 9:55:00		А		А												
0509648-007	SB 9-10	Soil	09/29/05 11:25:00		А		А												
0509648-009	SB 10-10	Soil	09/29/05 12:55:00		А		Α												

Test Legend:

1	G-MBTEX_S	
6		
11		

2	PREDF REPORT
7	
12	

3	TPH(DMO)_S	
8		
13		

4	
9	
14	

5	
10	
15	

Prepared	by:	Rosa	V	enegas
----------	-----	------	---	--------

Comments:

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

E	McCam	pbell 4	Analyti	cal, Inc.		Telephone	ue South, #D7, Pachec : 925-798-1620 Fax :ampbell.com E-mail:	: 925-798-1622		
AEI Co	nsultants			Client Project ID): #12130;	Hall	Date Sample	d: 09/29/0	5	
2500 Ca	amino Diablo,	Ste. #200	0	Equities			Date Receive	ed: 09/29/0	5	
Walnut	Creek, CA 94	597		Client Contact R	lobert Flory	т.	Date Extracte	ed: 09/29/0	5	
vv annut	CICCK, CA)4.			Client P.O.			Date Analyze	ed: 09/29/0	5-09/3	80/05
Extraction	Gasol method: SW5030B	ine Ranş	ge (C6-C12	2) Volatile Hydro Analytical met	carbons as		th BTEX and 1		Order: ()509648
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
002A	SB 7-10	S	ND	ND	ND	ND	ND	ND	1	96
004A	SB 8-10	S	ND	ND	ND	ND	ND	ND	1	91
007A	SB 9-10	S	7.3,g	ND	ND	ND	ND	0.013	1	85
009A	SB 10-10	S	1.5,a	ND	0.018	ND	0.11	0.016	1	98
Reporting	g Limit for DF =1;	W	NA	NA	NA	NA	NA	NA	1	ug/L
ND mean	s not detected at or he reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/K

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

Mc	Campbell Aı	nalytic	cal, Inc.	We	Telephone :	e South, #D7, Pacheco, CA 925-798-1620 Fax : 925 mpbell.com E-mail: main	-798-1622	om
AEI Consultant	S		Client Project ID:	#12130; H	Hall	09/29/05		
2500 Camino D	Diablo, Ste. #200		Equities		Date Received:	09/29/05		
Walnut Creek,	CA 04507		Client Contact Rol	bert Flory		Date Extracted:	09/29/05	
wannut Cleek, v	CA 94397		Client P.O.			Date Analyzed:	09/29/05	
Extraction method: SW		and Oil ((C18+) Range Extrac Analytical metho			Diesel and Motor O		der: 0509648
Lab ID	Client ID	Matrix	TPH(d)		Т	'PH(mo)	DF	% SS
0509648-002A	SB 7-10	S	21,g,b			130	1	89
0509648-004A	SB 8-10	S	ND			ND	1	93
0509648-007A	SB 9-10	S	34,g,b,d			40	1	94
0509648-009A	SB 10-10	S	ND			ND	1	100
ND means no	imit for DF =1; ot detected at or reporting limit	W	NA 1.0			NA 5.0	-	/L /Kg

* water samples are reported in μ g/L, wipe samples in μ g/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 μ g/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.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant;; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

Telepho	McCAM	110 2 nd AV PACHEC		UTH,	#D7 50				98-1	622	2	A		т	UR	N.	AR			AI D T			1	RUSI	H	24	HR				2 HR	D 5 DAY
				-										G	eoT	rac	ker		-	\boxtimes	-	DF	X]	Ē	cel	R	h	Wri	te Or	n (DW	
Report To: Rober			B	ill To	: Sa	me			-		1	-	_		-		-	-	Ana	lysis	Re	ques	t	1	-	-		F	Othe	r	-	ments
Company: AEI C			200	-	-	-		-	_				-		BC	KH)												st)			Filte	
	Camino Dial			14-1	l: Rf		0	-		-	1.200	-	-	3E	ale w	F/B			0				0					8010 Target List)			Meta	oles for
	ut Creek, CA					-		11	sulta	nts.	com	-	-	8015)/MTBE		E&	1)						831					large			Anal	
Tel: (925) 944-28	999, extensio	on 1##			925)				nitio	0		-	-	015)	ong	520	418.						102					101				/ No
Project #: 12130 Project Location:	1210 14th C+	Lat Oalat		rojec	t Nar	ne:	nali	Eq	unte	5	-	-	-	+	17	se (5) su	-	020)				182			6		- 80			105	/ 140
	111	reet, Oak	and, CA	,		-	-			-		-	-	8020	The state	irea	arbo	0 lis	/ 80	80			509			6010		OB				
Sampler Signatur	e: All	4F	4					-		Т	MET	HO	D	602/	M	80	droc	801	602	/ 80	2	8	Adt			9.21		(826				
	1	SAMP	LING	90	lers		MA	TR	IX		RESI			Gas (602/8020	801	lio	Hy	560	EPA	608	180	1 87	h vd			1/23		SCs				
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Uuici	HCI	HNO ₃	Other	BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	FPA 625 / 8270	PAH's / PNA's hv EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Halogenated VOCs (8260B -				
5B-7 Water		9/29/05	076	4	You	K				t				X	X																	
36-8W		1	JOID	4	1	X						1		X	X																	
should	Part of the		1220	et.	i					T				V	X																1	1900 - 180
2,011			126/1	I						t				N	X																	
0 -10 10	- AN		19014	1						1																						
										+																						
																				-												
-																																
//	1									T																						
Refinguished By.	1	Date:	Time: 1690	H	ived B	in		A	it	-4	R			1	ICE/	tº	5			~			PR	ESE	RVA	ATIO		OAS	0&0		TALS	OTHER
Relinquished By	1 10 40	Date: 129/05	Time: 4.19	Rece	ived B		11	1	0/	1	19	×	-		GOO	DO	CON	DIT	TION	-	_	/		PRO				1			1	
Mohan 1	Kerto	10100	111	//	10	11	10	2	- 1	1		0			LEA	DS	rAt	L A	DS	ENT	~	_	CU	NTA	IN	LKS	21	*				

McCampbell Analytical, Inc.

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

SB-10 W

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 7	98-1620					Worl	kOrder	·: 0509	647		ClientI	D: AEI	4]	EDF: N	NO			
Report to:		TEL:	(005) 000 00	00				Bill						I	Reque	sted T	AT:	1 d	ay
		FAX:	(925) 283-60 (925) 283-61 tNo: #12130; Hall	21	es				2500	vironme Camine	ental, In Diablo k, CA 94	o, Ste. #	200	-		Receiv Printe			
									Re	equest	ed Test	s (See	legend	below)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0509647-001	SB-7 Water	Water	09/29/2005		A	В												<u></u>	Т
0509647-002	SB-8 W	Water	09/29/2005		Α	В													
0509647-003	SB-9 W	Water	09/29/2005		А	В													

В

Test Legend:

0509647-004

1	G-MBTEX_W
6	
11	

2	TPH(DMO)_W
7	
12	

Water

09/29/2005

А

3	
8	
13	

4	
9	
14	

5	
10	
15	

Prepared	by:	Rosa	Venegas
----------	-----	------	---------

Comments:

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

McCampbell Analytical, Inc.					V	110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com					
AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597			Client Project ID: #12130; Hall		Date Sampled:09/29/05Date Received:09/29/05Date Extracted:09/30/05						
			Equities Client Contact Robert Flory								
									Client P.O.		
			Extraction	Gasol	ine Ran	ge (C6-C12	2) Volatile Hydro Analytical me	thods: SW8021		th BTEX and]	
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	
001A	SB-7 Water	W	ND,h,i	ND	ND	ND	ND	ND	1	107	
002A	SB-8 W	W	ND,i	ND	ND	ND	ND	ND	1	104	
003A	SB-9 W	W	340,g,h,i	ND	1.0	ND	ND	ND	1	97	
004A	SB-10 W	W	1400,a,i	ND	23	0.87	130	18	1	114	
	g Limit for DF =1; is not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	1	μg/L	
ND means not detected at or above the reporting limit		S	NA	NA	NA	NA	NA	NA	1	mg/K	

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

McCampbell Analytical, Inc.				110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com				
AEI Consultants			Client Project ID: #12130; Hall Equities Client Contact Robert Flory		Date Sampled: 09/29/05			
2500 Camino Diablo, Ste. #200					Date Received: 09/29/05			
Walnut Creek, CA 94597					Date Extracted: 09/29/05			
			Client P.O.		Date Analyzed: 09/29/05			
Extraction method: 5		and Oil (C18+) Range Extrac Analytical metho	-	ocarbons as E	Diesel and Motor O		der: 0509647
Lab ID	Client ID	Matrix	TPH(d)		Т	'PH(mo)	DF	% SS
0509647-001B	SB-7 Water	W	9900,g,b,h,	i		38,000	10	89
0509647-002B	SB-8 W	W	640,c,i			350	1	88
0509647-003B	SB-9 W	W	5000,g,b,d,f,h,i			5400	1	104
0509647-004B	SB-10 W	W	440,d,b,i			ND	1	118
	Limit for DF $=1$;	W	50			250 µg/		
ND means not detected at or above the reporting limit S		S	NA		NA		mg/Kg	

* water samples are reported in $\mu g/L$, wipe samples in $\mu g/wipe$, 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 $\mu g/L$.

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.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant;); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirits; p) see Case Narrative.