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Alameda County Environmental Health

May 17, 2005

PHASE II SUBSURFACE INVESTIGATION REPORT

6293 College Avenue Oakland, California

Project No. 11065

Prepared For

Patrick Ellwood Ellwood Commercial Real Estate 1345 Grand Avenue, Ste 101 Oakland, CA 94610

Prepared By

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





Phone: (925) 944-2899

Fax: (925) 944-2895

May 17, 2005

Patrick Ellwood Ellwood Commercial Real Estate 1345 Grand Avenue, Ste 101 Oakland, CA 94610

Subject:

Phase II Subsurface Investigation

6293 College Avenue Oakland, California Project No. 11065

Dear Mr. Ellwood:

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 whether a significant release of volatile organic compounds (VOCs), particularly Tetrachloroethylene (PCE), has occurred at the dry-cleaning facility. In addition, a survey of the possible underground storage tank location (UST) was performed to investigate whether it exists.

I Background

The subject property is located on the west side of College Avenue in a mixed commercial and residential area of Oakland. The property totals approximately 1.17 acres and is improved with a three story building totaling 11,353 square feet. The building is occupied by commercial and office tenants including a dry cleaning operation located on the first floor. In addition to the subject property building, the property is improved with a concrete surfaced parking area and associated landscaping. The property was developed with the current improvements in 1986. The surrounding properties consist of a restaurant to the north, a parking lot and bank to the south, College Avenue and a gasoline station to the east and private residences to the west. Prior to 1986, the subject property was occupied by a plumbing supply company.

AEI Consultants (AEI) conducted a Phase I Environmental Site Assessment (ESA) in March 2004. Based on a review of historical sources, the site was occupied by a plumbing supply company and is currently occupied by a dry cleaner. AEI reviewed a building plan that indicated that a underground gasoline storage tank (UST) may have been located in the northwest corner of the property.

AEI Consultants Project 11065 May17, 2005 Page 2

The AEI Phase I Environmental Assessment recommended a geophysical survey be conducted to attempt to determine if the UST existed and that a subsurface investigation be conducted in connection the ongoing dry cleaning operations.

II Investigative Efforts

The initial scope of work proposed included four soil borings drilled to a maximum depth of 20 feet deep and a geophysical survey in the area of the former UST.

On May 22, 2005, AEI conducted a geophysical survey using electro-magnetic survey (E-M Survey) and ground penetrating radar (GPR) in the northwest corner of the site and in the area around the dry cleaning machines where the soil borings were planned. The usefulness of the EM survey was limited to some extent by the presence of steel re-bar in the concrete, however the electrical supply line to the automatic electric gate was located and an anomalous area just inside the gate with no re-bar was identified.

GPR was used to clear the proposed boring locations and to sweep the northwest area of the site. GPR identified the sanitary sewer line along the back of the building and storm drain along the west property line. An anomaly that appeared to be a backfilled excavation approximately 8 feet deep was identified that coincided with the EM anomaly. GPR also identified what appeared to be a shallow (1.5 – 2.0 feet deep), narrow backfilled trench that ran through the center of the parking area, through the larger GPR and WM anomaly. The decision was made to drill an additional (fifth) soil boring through this anomaly and analyze a soil sample for petroleum hydrocarbons as gasoline, diesel and motor oil (TPH-g, TPH-d and TPH-mo) and for benzene, toluene, ethylbenzene and total xylenes (BTEX).

AEI performed the subsurface investigation at the property on May 3, 2005. Prior to mobilization, AEI applied for a subsurface drilling permit from the Alameda County Public Works Agency (ACPWA). Drilling permit number W05-0469 was issued by ACPWA. A copy of the drilling permit is attached as Appendix A. Underground Service Alert (USA) was notified (Ticket # 149043) 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 ACPWA. No county inspector made an appearance at the site.

Five (5) soil borings (SB1 through SB5) were advanced to depths ranging from 12 to 25 ft. bgs. Soil samples were collected from all boring at regular intervals beginning at a depth of 3.0 to 4.0 feet below the ground surface (bgs).

The first boring (SB1) was advanced past the contract depth to a total depth 25-feet bgs to determine the depth of groundwater. The locations of the soil borings are shown on Figure 2.

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Soil Sample Collection

The temporary borings were advanced with a Geoprobe[®] model 5410 direct-push drilling rig by Environmental Control Associates, a licensed California drilling contractor (C57 – 695970). Soil was then continuously cored in each boring using an approximately 2" outer diameter sampling tube, which held in 1.75-inch diameter acrylic liners 4-feet in length.

One sample was cut from the liners at regular intervals (3-4 feet) and retained for possible chemical analysis. The soil samples retained for possible chemical analysis were sealed with Teflon film and plastic end-caps. Each sample was labeled with at minimum, company name and project number, unique sample identifier, sampler's name, time and date of collection. The samples were placed in individual zipper locking bags and placed in a cooler with wet ice, pending transportation to the laboratory. The borings were logged by the 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.

Groundwater Sample Collection

A groundwater sample was collected from soil boring SB-1, which encountered water at a depth of 24 feet bgs. A new unused, \(^3\)/-inch PVC casing was placed in the boring to facilitate collection of the water samples. The casing consisted of 5-feet of 0.010-inch slotted casing and sufficient blank casing to rise above the ground surface. The water samples were collected using \(^4\)-inch polyethylene tubing with a check valve on the bottom. Water samples were collected directly into three 40-milliliter (ml) volatile organic compound vials (VOAs).

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

Boring Destruction

Following sample collection, each boring was sealed to the surface with neat cement emplaced through a treamie pipe in accordance with Alameda County Public Works Agency and State of California guidelines.

Laboratory Analysis

On May 3, 2005, the soil and groundwater samples were transported to McCampbell Analytical Inc. (Department of Health Services Certification #1644) under chain of custody protocol. The shallowest soil sample from borings SB-1 through SB-4 and the sample from 12 feet bgs in boring SB5 were selected for chemical analysis. All other soil samples were placed on hold at the laboratory for potential additional analysis, should it be deemed necessary. The results of soil and groundwater analyses are shown on Tables 1a and 1b. Chain of custody documents and copies of the analytical reports are included in Appendix C

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The soil samples selected from borings SB-1 through SB-4 were analyzed for halogenated volatile organic compound (HVOCs) by EPA method 8260 (8010 Basic list). The soil sample from boring SB-5 was analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), BTEX and MTBE by methods SW8015 Cm/8021B. Analysis for Multi-range petroleum hydrocarbons; Total Petroleum Hydrocarbons as diesel (TPH-d), Total Petroleum Hydrocarbons as motor oil (TPH-mo) was done by method SW8015C. Four soil samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B.

Groundwater sample from SB-1 was analyzed for HVOCs was performed by EPA Method 8260B for the basic 8010 list.

III Findings

Soil Analyses

No detectable concentrations of TPH-g, TPH-d or TPH-mo were reported in the soil sample from SBN5. Tetrachloroethene (PCE) was detected in soil borings SB-1 through SB-4 at concentrations ranging from 0.080 μ g/kg (SB2) to 0.26 μ g/kg (SB-4). No other HVOC analytes were detected in the soil samples.

Groundwater Analyses

PCE was detected at a concentration of 48 μ g/L in the groundwater sample from boring SB-1. Chloroform was reported at a concentration of 0.83 μ g/L. No other HVOC analytes were detected in the groundwater sample from SB-1.

VI Conclusions

The presence of low levels of PCE in the soil and groundwater indicate that a small release of PCE has occurred in the area of the dry cleaning facility at the site. The presence of chloroform in the groundwater is probably the result of interaction between PCE or chlorine released by breakdown of the PCE with naturally occurring organic compounds in the soil of groundwater beneath the site.

VI Recommendations

AEI recommends the following actions:

- No further investigation of the suspected UST in the NW corner of the property.
- Due to the fact that a release of hazardous material has been discovered, a copy of this report should be forwarded to the ACHCSA.
- Request an immediate determination as to whether any further action will be required relative to the HVOCs detected.

VII 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 or Peter McIntyre at (925) 944-2899.

Sincerely, AEI Consul

AND 5825

yes a 1x

Senior Project

Peter J. McIntyre, P.G.

Program Manager

Figures

Figure 1: Site Map Figure 2: Site Plan

Tables

Table 1a: Soil Analytical Data, HVOCs

Table 1b: Groundwater Analytical Data, HVOCs

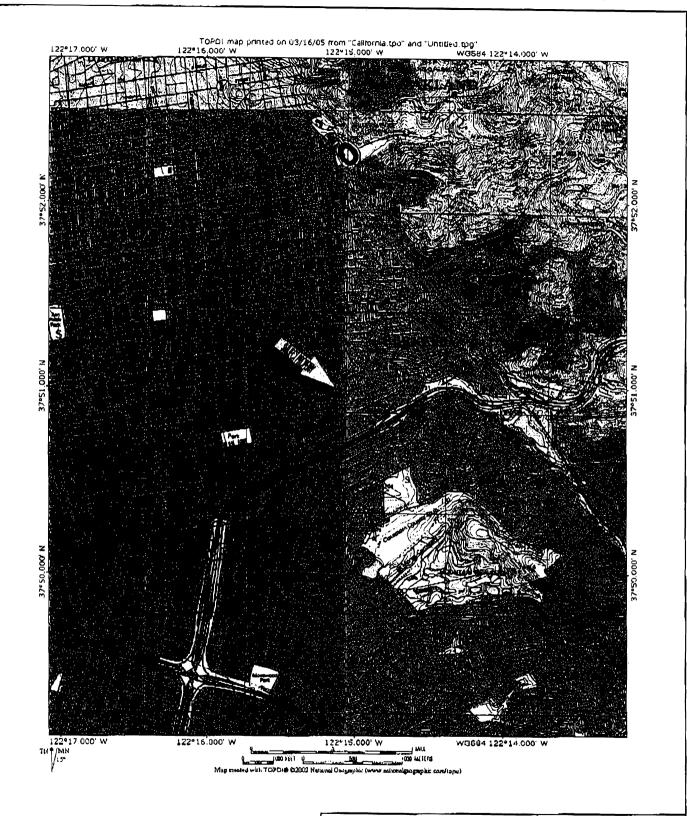
Appendix A

Boring Permit
Boring Logs

Appendix B Appendix C

Laboratory Analyses

FIGURES



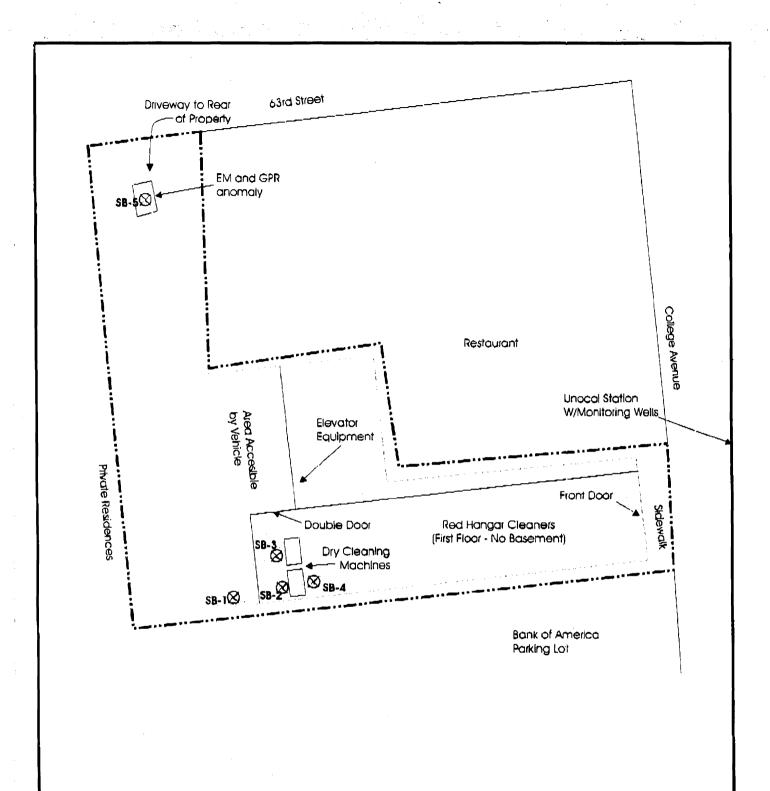
AEI CONSULTANTS

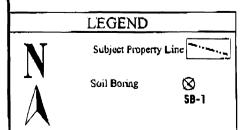
2500 Camino Diablo, Suite 100, Walnut Creek, CA 94597

SITE LOCATION PLAN

6235 College Avenue Oakland, CA

FIGURE 1 Job No: 11065





AEI CONSULTANTS

2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597

Drawn by: T. Petersen

Scale: Not to Scale

SITE PLAN

6235 College Avenue Oakland, CA **FIGURE 2** Job No: 11065

TABLES

Table 1a:

Soil Analytical Data, HVOCs 6293 College Ave, Oakland, CA

Sample ID	Sampling Date	PCE µg/kg	Chloroform µg/kg	All Others		
			(EPA method 8260)			
SB1-3.0	05/03/05	0.17	ND<0.010	All ND		
SB2-3.0	05/03/05	0.080	ND<0.010	All ND		
SB3-3.0	05/03/05	0.19	ND<0.010	All ND		
SB4-4 .0	05/03/05	0.26	ND<0.010	All ND		
WQCB Screening level - R	esidential usage	0.088				
WQCB Screening level - Commercial/Industrial		0.25				

Notes:

 μ g/kg = micrograms per kilogram

PCE = Tetrachloroethylene

Table 1b:

Groundwater Analytical Data, HVOCs 6293 College Ave, Oakland, CA

Sample ID	Sampling Date	PCE µg/L	Chloroform µg/L (EPA method 8260.	All Others µg/L B)
SB1-W	05/03/05	48	0.83	All ND
RWQCB Groundwater scree	ning level	5	100	

Notes:

 μ g/L = micrograms per liter



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMITURET ST. HAYWARD CA. 94544-1395
1"HONE (510) 670-6623 Jumes You

PAX (310) 782-1939 WWW.acfcwed.org
APPLICANTE: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATION
DESTRUCTION OF WELLS OVER 45 FRET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

for applicant to complete	FOR OFFICE USE
OCATION OF PROJECT	PERMIT NUMBER WUS -0464
235 Oplined Ave	WELL NUMBER
Chikland CA Syllet 8	APN
	PERMIT CONDITIONS
Ellwood Commercial Real Eslots	Circled Permit Requirements Apply
LIGHT FAT	
ddress 1345 Frank for 1740 Phone 570-253-711	A. GENERAL 1. A permit application should be submitted so as to
ily Dedenger CA Zip 94610	arrive at the ACPWA office five days prior to
	proposed starting date.
PPLICANT ALL CONSULTANTS	2. Submit to ACPWA within 60 days offer completion of
luno Kabeat F. Flerex M.V. 93	pempitted original Department of Water Resources-
5/2-100 Mx 945-944 -259	Well Completion Report.
ddress 2700 Commo Diales Phone 25-24-1-2879	3. Permit is void if project not begun within 90 days of
Willest Cree ?ip A4561)	approval dute B. WATER SUPPLY WELLS
	1. Minimum surface seal this image is two inches of
YPE OF PROJECT	coment grout placed by trainic.
Well Construction Contochnical Investigation	2. Minimum sent depth is 50 feet for municipal and
Cathodia Proteotion General	Inclustrial wells or 20 feet for demostic and irrigation
Wuter Supply Fi Contumination	walls unless a leaser depth is specially approved.
Monitoring Well Destruction U	C. GROUNDWATER MONITORING WELLS
PROPOSED WATER BUTPLY WELL USE	INCLUDING PTEROMETERS 1. Minimum surface soal thickness is two inches of
Now Domestic [7] Replacement Domestic [7]	מבוחבתו שיסטו מומסבל אי נרבותום.
Municipal (1) Irrigation	2. Minimum soul depth for manifering walls in the
Industrial D Other	maximum depth practicable or 20 feet.
	D. GLOTECHNICAL/CONTAMINATION
DULLING METHOD:	Backfill bore hole by tremie with coment grout or coment
Mud Robbry Cl Air Robbry D Abbar Cl	armulated mixture. Upper two-three feet replaced in kind
Cubic D Officer D	R. CATHODIC
DRILLER'S NAME FCA	Fill hole anode zone with congress placed by tremic.
	F. WELL DESTRUCTION
DRILLER'S LICENSE NO. 695970	Send a map of work site. A acparate pormit to required
	for wells deeper than 45 feet.
	(a) With the Conditions _ 2 # 1
VELL PROJECTS	NOTE: One application must be submitted for each well or well
Drill Hole Districter in. Muximum Coung Districter in. Depth 1.	destruction. Multiple borings on one application are acceptable
Surface Seal Depth A. Ownor's Wall Number	for protechnical and consumination investigations.
	CK#10275
GEOTECHNICAL/CONTAMINATION PROJECTS	CK# 10213
Number of Borings Maximum	
Hole Dismeterin. Depth	
	N <
TARTONO DATE AND X X	\. ≥ 90
STARTING DATE 55-3-03-	
• -	17 11/1 N 4-75
•	APPROVED DATE
COMPLETION DATE 5-3-03	
TARTING DATE 5-3-03-	/ 1/ 1//
Noneby agree to comply with all respondingues of this second Alamoda County Ordinana	/ 1/ 1//
COMPLETION DATE 5-3-03	/ 1/ 1//
OMPLETION DATE 5-3-05	r No. 73-68.



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMEURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James You FAX (510) 782-1939

PERMIT NO. W05-0464

WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE B#1-GENERAL CONDITIONS: GEOTECHNICAL & CONTAMINATION BOREHOLES

- 1. Prior to any drilling activities, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that Federal, State, County or to the City and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained.
- 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. 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 statues 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.
- 4. Permit is valid only for the purpose specified herein May 5 to May 5, 2005. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
- 5. Drilling Pennit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 6. 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.
- 7. Applicant shall contact George Bolton for a 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.

APPENDIX B

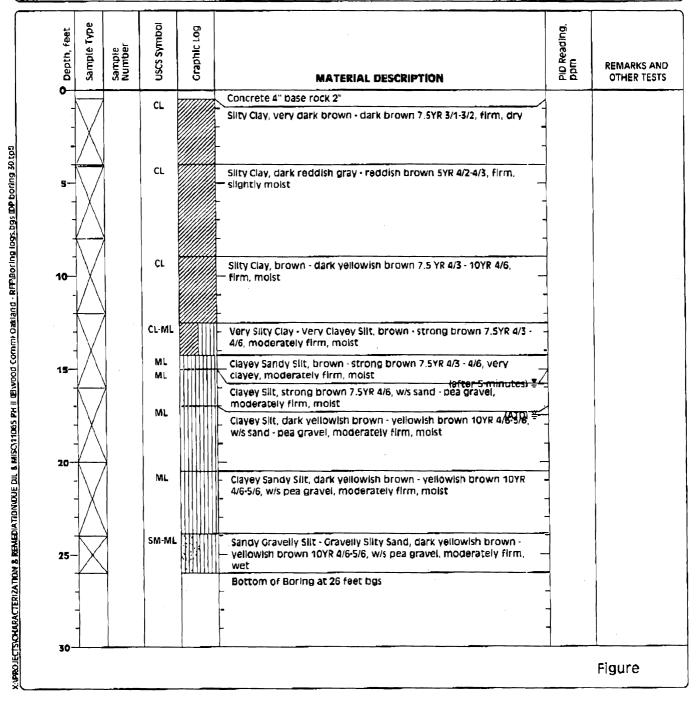
Boring Logs

Project Location: 6293 College Place, Oakland, CA

Project Number: 11065

Log of Boring SB -1

Date(s) Drilled May 3, 2005	Logged By Robert F. Flory	Checked By Jeff Rosenberg
Drilling Method Direct push	Drill Bit Size/Type 2 inch	Total Depth of Borehole 26 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor	Approximate Surface Elevation
Groundwater Level 17.5 feet ATD, 15.8 and Date Measured feet after 5 minutes	Sampling Method(s) Tube	Permit No.: ACPWA # W05-0464
Borehole Backfiii Cement Slurry	Location	

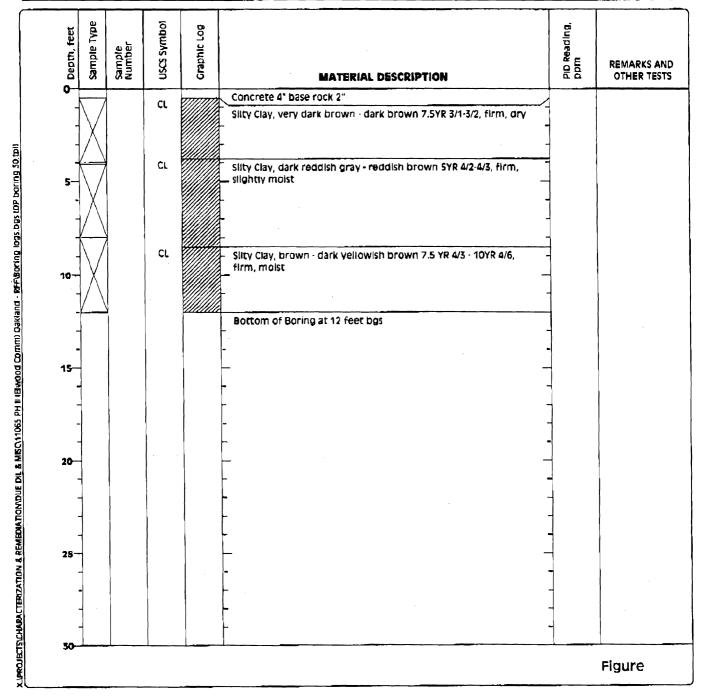


Project Location: 6293 College Place, Oakland, CA

Project Number: 11065

Log of Boring SB-2

Date(s) Drilled May 3, 2005	Logged By Robert F. Flory	Checked By Jeff Rosenberg
Drilling Method Direct push	Drill Bit Size/Type 2 inch	Total Depth of Borehole 12 Feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor	Approximate Surface Elevation
Groundwater Level Not Encountered and Date Measured ATD	Sampling Method(s) Tube	Permit Na.: ACPWA # W05-0464
Borenole Backfill Cement Slurry	Location	

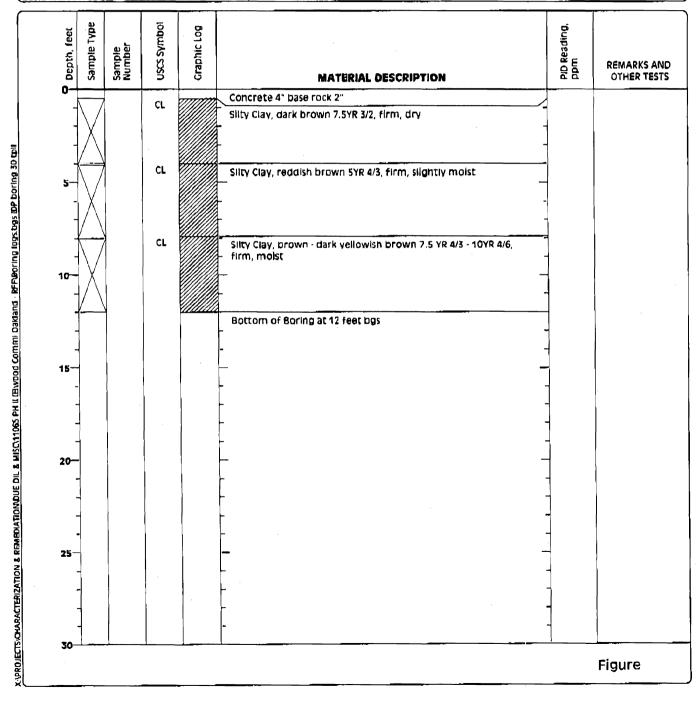


Project Location: 6293 College Place, Oakland, CA

Project Number: 11065

Log of Boring SB-3

Dateisi Drilled May 3, 2005	Logged By Robert F. Flory	Cnecked By Jeff Rosenberg
Drilling Direct push	Drill Bit Size/Type 2 inch	Total Depth of Borehole 12 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor	Approximate Surface Elevation
Groundwater Level Not Encountered and Date Measured ATD	Sampling Tube	Permit No.: ACPWA # W05-0464
Borehole Backfill Cement Slurry	Location	

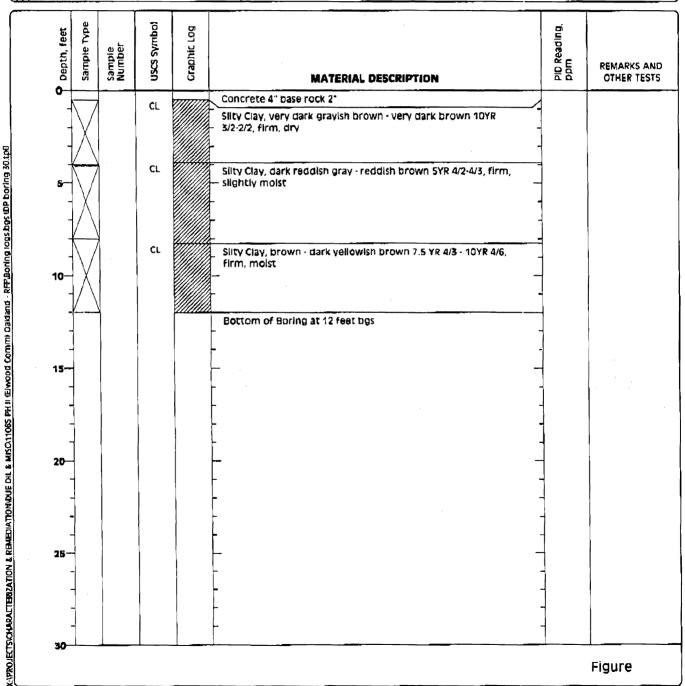


Project Location: 6293 College Place, Oakland, CA

Project Number: 11065

Log of Boring SB-4

Date(s) Drilled May 3, 2005	Logged By Robert F. Flory	Checked By Jeff Rosenberg
Orilling Method Direct push	Drill Bit Size/Type 2 inch	Total Depth of Borenole 12 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor	Approximate Surface Elevation
Groundwater Level Not Encountered and Date Measured ATD	Sampling Method(s) Tube	Permit No.: ACPWA # W05-0464
Borenoie Backfill Cement Slurry	Location	

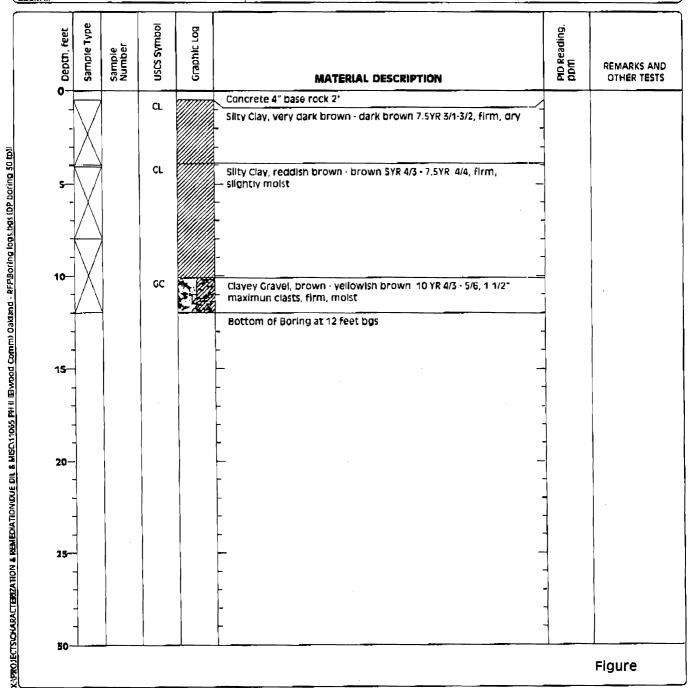


Project Location: 6293 College Place, Oakland, CA

Project Number: 11065

Log of Boring SB-5

Date(s) Drilled May 3, 2005	Logged By Robert F. Flory	Checked By Jeff Rosenberg
Drilling Method Direct push	Drill Blt Size/Type 2 inch	Total Depth of Borehole 12 feet bgs
Orill Rig Type Geoprobe 5410	Drilling Contractor	Approximate Surface Elevation
Groundwater Level Not Encountered and Date Measured ATD	Sampling Method(s) Tube	Permit No.: ACPWA # W05-0464
Borehole Cement Siurry	Location	



APPENDIX C

Laboratory Analyses
With
Chain of Custody Documentation



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: #11065; Ellwood	Date Sampled:	05/03/05
2500 Camino Diablo, Ste. #200		Date Received:	05/03/05
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Reported:	05/09/05
	Client P.O.:	Date Completed:	05/09/05

WorkOrder: 0505047

May 09, 2005

Dear Robert:

Enclosed are:

- 1). the results of 6 analyzed samples from your #11065; Ellwood project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4), a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

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1	

Website: www.mocampbell.com E-mail: rosin@mccampbell.com

AEI Consultants	Client Project ID: #11065; Ellwood	Date Sampled: 05/03/05
2500 Camino Diablo, Ste. #200		Date Received: 05/03/05
Wainut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/03/05
wainut Creek, CA 94397	Client P.O.:	Date Analyzed: 05/04/05

isk tr action n	B0608W2 :boduer			Analytical r	mothoda: SW8021	B/8015Cm		Work	Order: 0	505047
Δb ID	Client ID	Matrix	TPH(g)	мтве	Benzene	Tolucne	Ethylbenzene	Xylenes	DF	% S
018A	SB5-11 5	S	ND	ND	ND	ÜND	ND	ND	1	97
-									-	
+									-	
	V	-							-	
						-				
									_	-
										-
Керогии	Limit for DF =1;	W	NA	NA	NA	NA	NA	NA	1	ug

- 1	ND means not detected at or	 		- 1,0-				l	-8-
1	above the reporting limit	\$ 1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg
- 1		Printer and the second							
- 1	A	 12 4 CRI D			-11: 4				

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/vil/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 gusoline 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 (studdard solvent / mineral spirit?); f) one to a few isolated non-target peaks present, g) strongly aged gusoline 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.



140 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: #11065; Ellwood	Date Sampled: 05/03/05
2500 Camino Diablo, Ste. #200		Date Received: 05/03/05
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/03/05
Walling Circle, CR 34337	Client P.O.:	Date Analyzed: 05/05/05
	M. H. Waller and C. Waller and	

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

struction medical: SW	1550Ç		Analytical methods: SW8015C		Work O	rder: 050504
لعال الما	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0505047-018A	SB5-11.5	S	D	ND	1	94
		1				
						<u> </u>
	······································					
	A 40					
						1
ND means no	mit for DF =1; of detected at or eporting limit	W S	NA 1.0	NA 5.0		g/Kg

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

⁺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) ail 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.



[#] 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.



110 2nu Avenue South, #D7, Pactigeo, CA 94553-5560 Telephone: 925-798-1620 | Fax: 925-798-1622 Website: www.necompbell.com E-mail: main@mecompbell.com

AEI Consultants	Client Project ID: #11065; Ellwood	Date Sampled: 05/03/05		
2500 Camino Diablo, Ste. #200		Date Received: 05/03/05		
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/03/05		
Wallet Cicca, CA 94397	Client P.O.:	Date Analyzed: 05/05/05		

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: \$W5030B Analytical Method: SW 8260B Work Order: 0505047 Lab ID 0505047-001A 0505047-007A 0505047-010A 0505047-013A Reporting Limit for Client ID SB1-3.0 SB2-3.0 SB3-3.0 SB4-4 DF=1 Marrix S S S S DF 2 S W Compound mg/kg μg/L Concentration Bromodichloromethano ND ND ND<0.010 0.005 NA ND ND ND ND<0.010 Bramoform 0.005 NA Bromomethane ND ND ND ND<0.010 0.005 NA ND ND Carbon Tetrachloride ND ND<0.010 0.005 NA Chlorobenzone ND ND ND ND<0.010 0.005 NA ND ND ND Chlorocthane ND<0.010 0.005 NA 2-Chloroethyl Vinyl Ether ND ND ND ND<0.010 0.005 NA Chluroform ND ND ND ND<0.010 0.005 NA ND ND<0.010 Chloromethane ND ND 0.005 NA 010.0>QN ND ND ND 0.005 Dibromochloromethane NA ND ND ND ND<0.010 0.005 1,2-Dichlorobenzene NA 1,3-Dichlorobenzene ND ND ND ND<0.010 0.005 NA 1.4-Dichlorobenzenz ND ND ND ND<0.010 0.005 NA 0.005 Dichlorodifluoromethane ND ND ND<0.010 ND NA 1,1-Dichloroethane ND ДK ND ND<0.010 0.005 NA 1,2-Dichloroethane (1,2-DCA) ND ND ND ND<0.010 0.005 NA 1,1-Dichloroethene ND ND ND ND<0.010 0.005 NA מא ND ND ND<0.010 0.005 cis-1,2-Dichloroethene NA trans-1,2-Dichloroethene ND ND ND ND<0.010 0.005 NA 1,2-Dichloropropane ND ND ND ND<0.010 0.005 NA cis-1.3-Dichloroprupene ND ND ND ND<0.010 0.005 NA trans-1,3-Dichloropropens ND ND ND ND<0.010 0.005 NA Methylene chloride ND ND ND ND<0.010 0.005 NA 1.1.2.2-Tetrachloroethone ИD ND ND ND<0.010 0.005 NA 0.080 0.17 0.19 0.005 Tetrachlorouthens 0.26 NA 1.1.1-Trichloroethune ND ND ND ND<0.010 0.005 NA ND ND<0.010 0.005 1.1.2-Trichloroethane ND ďИ NA ND ND 0.005 ΝA ND Trichloraethene ND<0.010 ND ND 0.005 Trichlorofluoromethane ND ND~0.010 NA Vinyl Chloride ND ND ND ND<0.010 0.005 NΑ Surrogate Recoveries (%) 80 81 %SS1: 82 %SS2: 99 101 100 101 %\$\$3 92 91 90 96 Comments

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

[#] surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; g) sag attached narrative.



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Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com B-mail: main@mccampbell.com

AEI Consultants	Client Project ID: #11065; Ellwood	Date Sampled: 05/03/05		
2500 Camino Diablo, Ste. #200		Date Received: 05/03/05		
Walnut Creak CA 04507	Client Contact: Robert Flory	Date Extracted: 05/06/05		
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 05/06/05		

_	•	kT and GC-MS (8010 Basic	• ,	
Exerction Method: SW5030B		hod: SW8260B	Work Orde	n: 0505047
Lab ID	0505047-019A			
Client ID	SB1-W		Reporting	Limit for
Matrix	W			-,
DF	1		S	W
Compound		Concentration	µg/kg	μg/L
Bromodichloromethane	ND		NA NA	0.5
Bromotorm	ND		NA NA	0.5
Bromomethane	ND		NA NA	0.5
Curbon Tetrachloride	מא		NA NA	0.5
Chlorobenzene	ND		NA NA	0.5
Chloroethane	ND		NA NA	0.5
2-Chlorosthyl Vinyl Ether	ND		NA	1.0
Chloroform	0.83		NA NA	0.5
Chloromethane	ND ND		NA	0.5
Dibromochloromethane	ND		NA NA	0.5
1,2-Dichlorobenzone	ND		NA NA	0.5
1.3-Dichlorobenzene	ND ND		NA NA	0.5
1,4-Dichlorobenzene	ND		NA NA	0.5
Dichlorodifluoromethane	ND		NA_	0.5
1,1-Dichlorosthane	ND		NA	0.5
1,2-Dichloroethune (1,2-DCA)	ND		NA NA	0.5
1,1-Dichlorosthene	ND		NA NA	0.5
eis-1,2-Dichloroethene	ND		NA NA	0.5
trans-1,2-Dichloroethene	ND		NA NA	0.5
1,2-Dichloropropune	ND		NA NA	0.5
cis-1,3-Dichloropropens	ND		NA	0.5
trans-1,3-Dichloropropene	ND		NA NA	0.5
Methylene chloride	ND		NA NA	0.5
1,1,2,2-Tetrachloroethane	ND		NA NA	0.5
Tetruchloroethene	48		NA NA	0.5
1,1,1-Trichloroethane	ND		NA	0.5
1,1,2-Trichloroethane	DИ		NA NA	0.5
Trichloraethene	ND		NA NA	0.5
Trichlorofluoromethane	ND .		NA_	0.5
Vinyl Chloride	ND		NANA	0.5
		Recoveries (%)		
%SS1:	95			
%SS2:	103			
%SS3:	107			
Comments				

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coclutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

Angela Rydelius, Lab Manager



110 2ud Avenus South, #D7. Packago, CA 94553-3560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0505047

EPA Method: SW8021B/	8015Cm E	Extraction: 8W5030B			BatchID: 16101			Spiked Sample ID: 0505032-048A			
Analyte	Applie Sample		Spiked MS		MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
, maryes	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(blex) E	מא	0.60	104	100	3.82	102	99.9	1.77	70 - 130	70 - 130	
мтве	ND	0.10	92.1	91.5	0.642	87.8	88.7	1.02	70 - 130	70 - 130	
Benzene	ND	0.10	104	102	1.73	95.4	94.2	1.22	70 - 130	70 - 130	
Toluene	מא	0.10	88.2	87.2	1.12	86.3	83.9	2.80	70 - 130	70 - 130	
Ethylbenzene	ДИ	0.10	114	113	0.594	114	112	1.82	70 - 130	70 - 130	
Xylenes	аи	0.30	100	100	0	100	96.7	3.39	70 - 130	70 - 130	
%SS:	99	0.10	98	116	16.5	107	114	6.33	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 16101 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0505047-018A	5/03/05 1:08 PM	5/03/05	5/04/05 7:47 AM				

MS = Matrix Splke: MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control

% 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 onteria 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 applied sample's matrix interferes with the spike recovery.

£ TPH(blax) = sum of BTEX grees from the FID.

cluttered chromatogram; sample peak codutes with surrogate peak.

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or enalyte content.

QA/QC Officer



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soll

QC Matrix: Soll

WorkOrder: 0505047

EFA Method: SW8015C	E	Extraction: SW3550C				BatchID: 16103			Spiked Sample ID: 0505032-048A			
Analyte	Sample	Splked	MS	MSD	MS-MSD	LÇS	LCSD	LCS-LCSD	Acceptance	Criteria (%)		
, Andrew	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	M\$ / M\$D	LCS / LCSD		
TPH(d)	ND	20	105	105	0	102	106	4.29	70 - 130	70 - 130		
%SS:	92	50	92	92	0	100	104	3.85	70 - 130	70 - 130		

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

BATCH 16103 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0505047-018A	5/03/05 1:08 PM	5/03/05	5/05/05 8:04 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 enalyte relative to the amount spiked, or b) the spiked sample's matrix interferse with the spike recovery.

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soll

QC Matrix: Soll

WarkOrder: 0505047

EPA Method: SW8260B	E	xtraction:	SW50308		BatchID: 16117			Spiked Sample ID: 0505047-010A		
Anaiyte	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
Chlorobenzene	ND	0.050	119	119	0	114	114	0	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	0.050	118	120	2.13	113	111	1.56	70 - 130	70 - 130
1,1-Dichloroethene	DN	0.050	92.4	88.4	4.37	85.6	84.9	0.791	70 - 130	70 - 130
Trichlaroethene	ND	0.050	90.5	90.7	0 223	87.2	86.7	0.672	70 - 130	70 - 130
%SS1:	81	0.050	102	101	1.39	100	99	1.52	70 - 130	70 - 130
%SS2:	100	0.050	97	97	0	99	99	0	70 - 130	70 - 130
%SS3 [,]	90	0.050	118	119	1.33	109	115	5.26	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 16117 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analy28d
0505047-001A	5/03/05 8:15 AM	5/03/05	5/05/05 4:57 AM	U505047-007A	5/03/05 9:45 AM	5/03/05	5/05/05 5:40 AM
0505047-010A	5/03/05 10:20 AM	5/03/05	5/05/05 6:22 AM	0505047-013A	5/03/05 11:25 AM	5/03/05	5/05/05 7:27 PM

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

% Recavery = 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 semple to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil metrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freen 113 may occasionally appear in the method blank at low levels.

LR_QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.Q. Sample Matrix; Water

QC Matrix: Water

WorkOrder: 0505047

EPA Method: SW8260B	E	xtraction:	SW5030E	,	Bato	hID: 1611	4	Spiked San	mple ID: 0505049-001B						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)					
raidiye	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec	% RPD	MS / MSD	LCS / LCSD					
Chlorobenzene	DИ	10	119	118	0.242	119	119	0	70 - 130	70 - 130					
1,2-Dichloroethane (1,2-DCA)	ND	10	117	116	0.639	117	119	1.31	70 - 130	70 - 130					
1,1-Dichloroethene	ND	10	87.4	86.8	0.706	88.1	90.2	2.31	70 - 130	70 - 130					
Trichloroethene	ND	10	91.5	89.1	2.71	89.9	92.3	2.63	70 - 130	70 - 130					
%SSI:	101	10	100	100	0	100	101	1.41	70 - 130	70 - 130					
%SS2:	95	10	96	96	Ú	97	95	1.65	70 - 130	70 - 130					
%SS3:	105	10	l16	117	1.35	119	119	٥	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 16114 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0505047-019A	5/03/05 9:30 AM	5/06/05	5/06/05 9:19 AM				

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

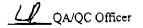
% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS * MSD) / 2).

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 epiked, or b) the spiked sample's metrix interferes with the spike recovery.

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

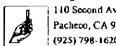
NR = analyle concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freen 113 may occasionally appear in the method blank at low levels.



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	Tele: (925) 944-2		<u>. </u>		ax: (·		_	RO15)/MTBE	TPH as Multi-Range (8015)TPH-d/mo	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	m		-		EPA 624 / 8240 / 8260 - R010 Target List		EPA 625 / 8270 / 8310			Tours land		1	1				
	Project #: 11065		7		rojec	t Nar	ne:	EU	M '00	d					+	1	20 E	4	S	<u>බ</u>		١ ـ	1 T		827			5			1				
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110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

2500 Camino Diablo, Ste. #200

Walnut Creek, CA, 94597

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WarkOrder: 0505047

Bill to:

ClientID: AEL.

Report to:

Robert Flory **AEI Consultants** TEL:

(925) 283-6000

FAX:

(925) 283-6121

ProjectNo: #11065; Ellwood PO:

Diane

All Environmental, Inc.

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

Date Received

Requested TAT:

05/03/2005

5 days

Date Printed

05/03/2005

Wallut Olec																Duki	тинец.		3103	31 E U U L	<u> </u>
					Requested Tests (See legend below)															=	
Sample ID	ClientSamplD	Matrix	Collection Date	Hold	1	2	3	4		5	6	7	8	9	10	11	12	13	1 '	14	15
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Test Legend:

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2	8010BMS_W
7	
12	

3	G-MBTEX_S	
8		
13		_

4	TPH(DMO)_S	
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.