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June 7, 2005

PRELIMINARY SITE INVESTIGATION REPORT

20957 Baker Road Castro Valley, California 94546

Project No. 10509

Prepared For

Nat Piazza 7613 Peppertree Road Dublin, CA 94568

Prepared By

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



June 7, 2005

Nat Piazza 7613 Peppertree Road Dublin, CA 94568

Subject: Phase II Subsurface Investigation 20957 Baker Road Castro Valley, California 94546 Project No. 10509

Dear Mr. Piazza:

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 the former USTs.

I Background

The subject property (hereafter referred to as the "site" or "property") is located at 20957 Baker Road in Castro Valley, California (Figure 1: Site Location Map). The site is located in a mixed residential and commercial/light-industrial area of Castro Valley. The site is approximately 160 by 300 feet and is undeveloped. The site is partial covered with asphalt surfacing and concrete slabs utilized for parking.

On April 21, 2004, AEI removed two 1,000-gallon tanks under from the site. The removal was performed under permit from the Alameda County Environmental Health Services (ACEHS). The tank removal was observed by Robert Weston, Inspector, ACEHS. Two soil samples were collected from underneath each UST and analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), Benzene, toluene, ethylbenzene, xylenes (BTEX) and Methyl tert- butyl ether (MTBE) by EPA Method 8021B/8015Cm. Fuel oxygenates and 1,2-Dibromoethane (EDB) and 1,2 Dichloroethane (1,2-DCA) were analyzed by EPA Method 8260. Total Petroleum Hydrocarbons as diesel (TPH-d) was analyzed by EPA Method 8015C and total lead by EPA method 7010. Hydrocarbons were detected in all the soil samples, TPH-g at concentrations ranging from 160 milligrams per kilogram (mg/kg) in sample T1W-EB8' to 1,400 mg/kg in sample T2W-EB8' and TPH-d at concentrations ranging from 1,400 mg/kg (T2E-EB8') to 10,000 mg/kg (T1E-EB8'). Total xylenes were reported in two soil samples at 8.4 mg/Kg (T2W-E8') and at 0.25 mg/kg (T2E-EB8'). No fuel oxygenates, EDB, or DCA were detected in the samples. Total lead was reported at concentrations ranging from 6.1 mg/kg to 24 mg/kg (stockpile sample STKP1-4).

AEI prepared a Preliminary Site Assessment workplan, which was approved by Don Hwang, Hazardous Materials Specialist with the ACEHS in a letter dated April 8, 2005.

II Investigative Efforts

AEI performed the subsurface investigation at the property on May 18, 2005. Prior to mobilization, AEI applied for a subsurface drilling permit from the Alameda County Public Works Agency (ACPWA). 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. No county inspector made an appearance at the site.

Eight (8) soil borings (SB-1 through SB-8) were advanced to depths ranging from 14 to 18 ft. below ground surface (bgs). The locations of the soil borings are shown on Figure 2.

Soil Sample Collection

The temporary borings were advanced with a Geoprobe[®] model 5410 direct-push drilling rig by Vironex, a licensed California drilling contractor (C57 - 705927).

A continuous core was cut from the surface to the top of bedrock. The cores were cut using an approximately 2" outer diameter sampling tube, which held in 1.75-inch diameter acrylic liners 4-feet in length. At least one sediment sample was retained for possible chemical analysis. An adjacent sample was placed in a 1-quart zipper locking plastic bad and used for field screening. The samples were screened using a Mini-Rae photo ionization detector (PID). The tip of the PID was inserted into the 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, 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 remainder of each core was examined and described by the AEI geologist. The descriptions of the cores are included on the boring logs that are included in Appendix A.

Groundwater Sample Collection

Groundwater samples were collected from each of the eight soil borings. A new unused, ³/₄-inch PVC casing was placed in each 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 ¹/₄-inch polyethylene tubing with a check valve on the bottom. Water samples were collected directly into one 1-liter amber bottle and three 40-milliliter (ml) volatile organic analysis vials (VOAs). The water samples from each

boring, except SB-5, were collected immediately after the borings were drilled. Boring SB-5 contained no water at the time it was drilled. After twenty minutes, a small amount of water had collected and after 2.5 hours, sufficient water had accumulated in the boring to fill three VOAs and partially fill a 1-liter amber.

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 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 19, 2005, the soil and groundwater samples were transported to McCampbell Analytical Inc. (Department of Health Services Certification #1644) under chain of custody protocol. One soil and one groundwater sample from each boring were selected for chemical analysis. The results of soil and groundwater analyses are shown on Tables 1 and Table 2. Chain of custody documents and copies of the analytical reports are included in Appendix C

The selected soil samples were analyzed for TPH-g, MTBE, and BTEX by methods SW 8015Cm/8021B. Analysis was also performed for TPH-d and Total Petroleum Hydrocarbons as motor oil (TPH-mo) by EPA method 8015C.

Groundwater samples were analyzed for TPH-g, MTBE, BTEX by methods SW 8015 Cm/8021B. Analysis was also performed for TPH-d, TPH-mo by EPA method 8015C.

III Findings

Soil Analyses

No detectable concentrations of TPH-g, TPH-d, TPH-mo, MTBE or BTEX, were reported in any of the soil samples above 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.

Groundwater Analyses

TPH-g was reported in groundwater sample from boring SB-2 (SB2-W) at a concentration of 7,300 micrograms per liter (μ g/L). No TPH-g was reported in any other borings at or above a detection limit of 50 μ g/L. Toluene and xylenes were reported at concentrations of 11 μ g/L and

 $27 \mu g/L$ respectively in SB-2. No other BTEX compounds were reported in groundwater samples from any of the other borings at or above detection limits.

No TPH-d was reported in borings SB-7 at or above a detection limit of 50 μ g/L. TPH-d was reported in the other seven borings at concentrations ranging from 56 μ g/L (SB-4) to 23,000 μ g/L (SB-2).

No TPH-mo was reported in groundwater samples from borings SB-3, SB-4 and SB-7 at or above a detection limit of 250 μ g/L. TPH-mo was reported in groundwater samples from borings SB-1, SB-2, SB-5, SB-6 and SB-8 at concentrations ranging from 300 μ g/L (SB-6) to1400 μ g/L (SB-1 and SB-5).

No MTBE was reported by EPA Method 8021B in groundwater samples from any of the eight soil borings at or above a detection limit of 0.05 μ g/L.

The results of the groundwater analyses are summarized in Table 2 (Groundwater Sample Analytical Data) and shown on Figures 3 through 6. Copies of the laboratory reports are attached as Appendix B.

VI Recommendations

AEI recommends the following action:

- Install four groundwater monitoring wells, one 4-inch diameter well at the location of boring SB-2 and three 2-inch diameter wells as shown on Figure 7.
- Upon approval of the above, prepare a workplan if required, followed by installation of the wells.
- Monitor the wells for a period of one year, at which time a remedial action plan should be prepared, if necessary

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 Peter McIntyre or Robert Flory at (925) 944-2899.

Sincerely, AEI Consultants No. 5825 Robert F. Flory, P.G. Senior Project Geologist OF CAL Peter J. McIntyre, P.G.

Figures

Program Manager

- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Boring location Plan
- Figure 4: Groundwater Analytical Results
- Figure 5: TPH-d Isopleths
- Figure 6: TPH-mo Isopleths
- Figure 7: Proposed Well Locations

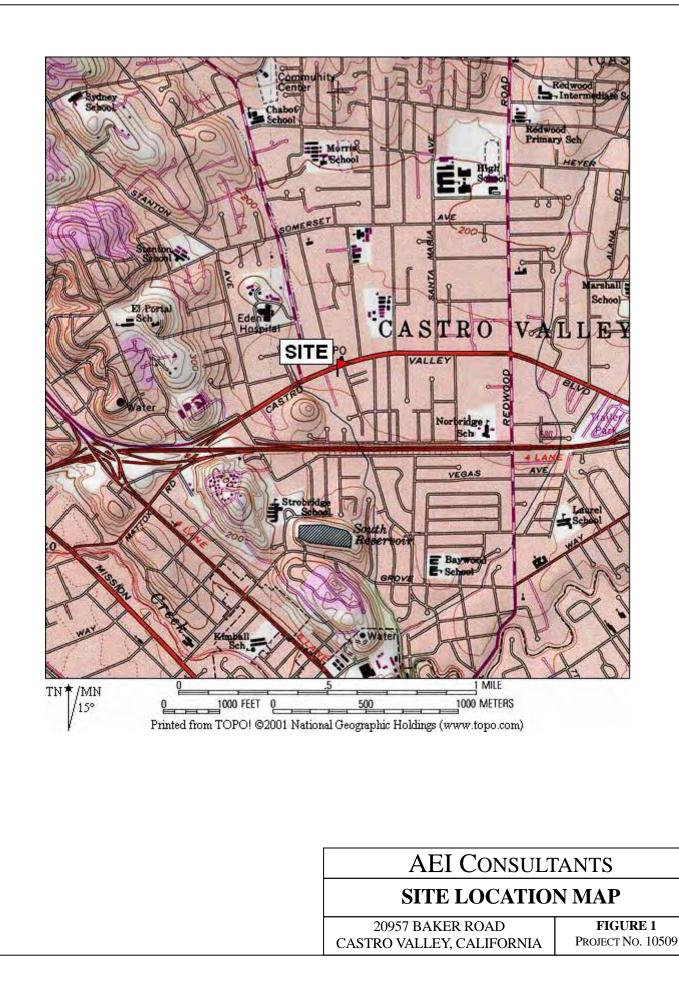
Tables

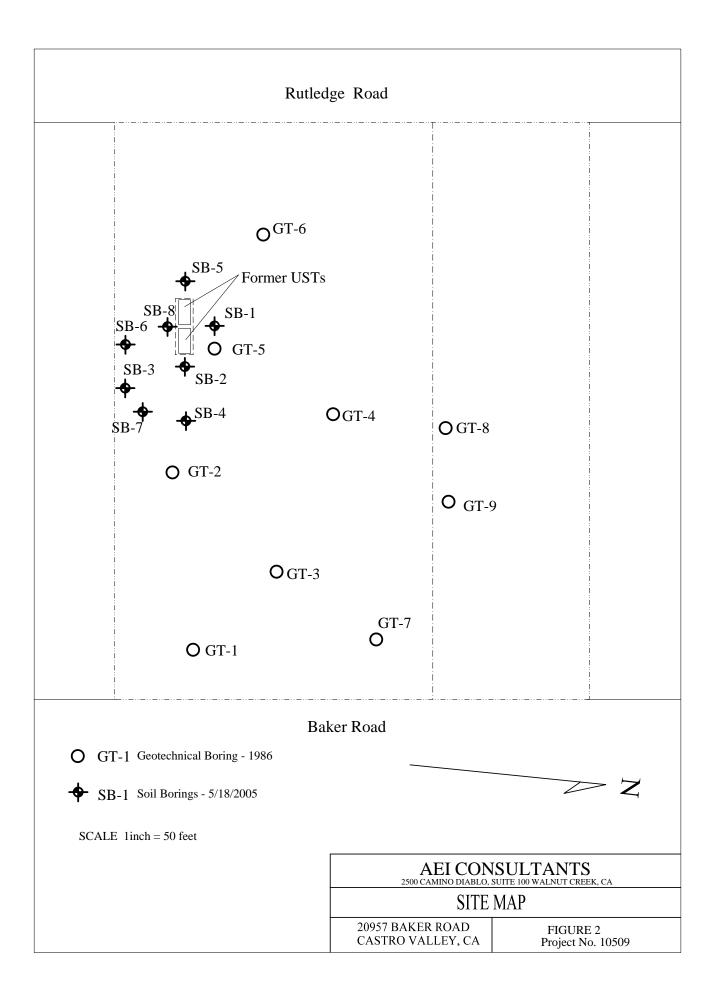
Table 1: Soil Sample Analytical DataTable 2: Groundwater Sample Analytical Data

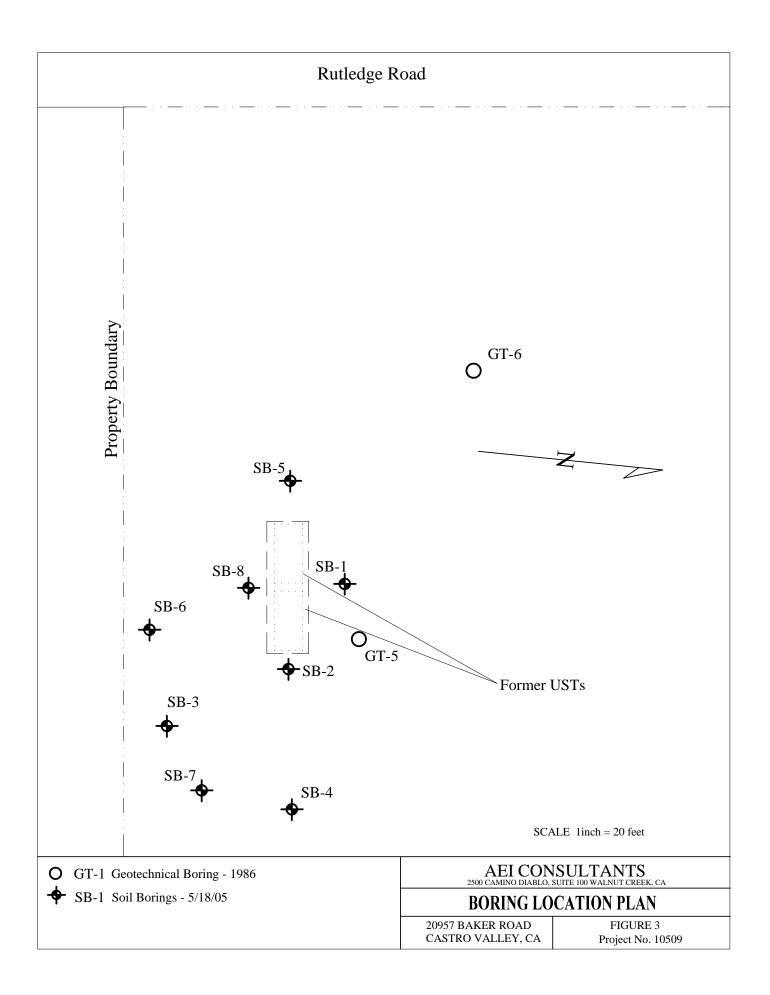
Appendix A Boring Logs

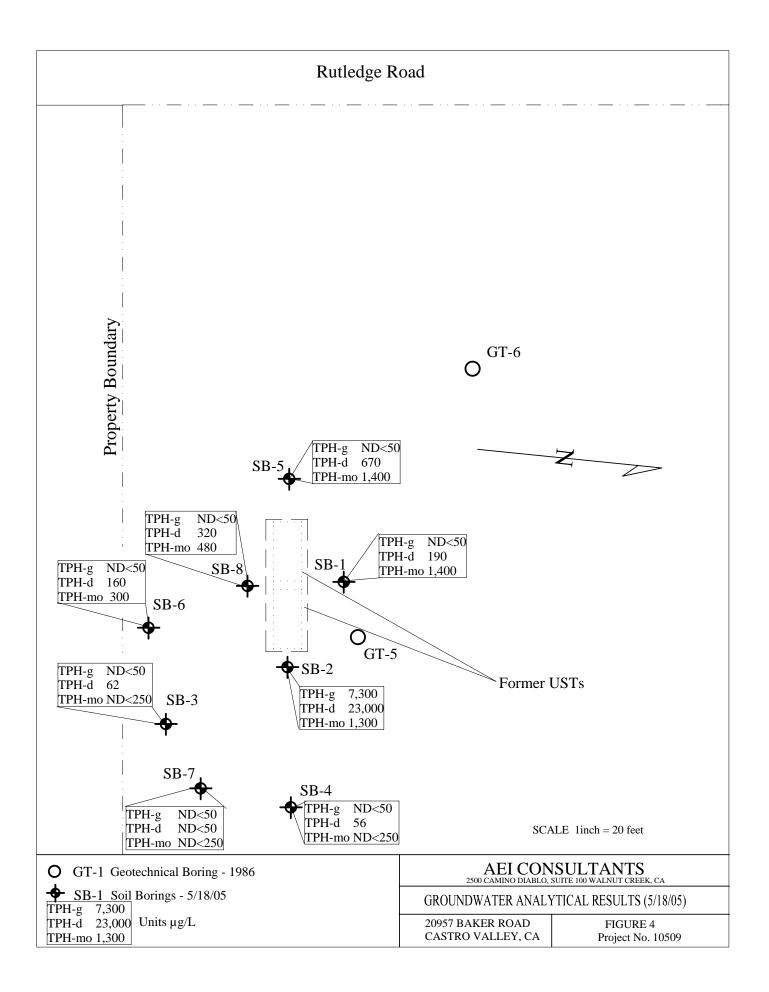
Appendix B Laboratory Analyses

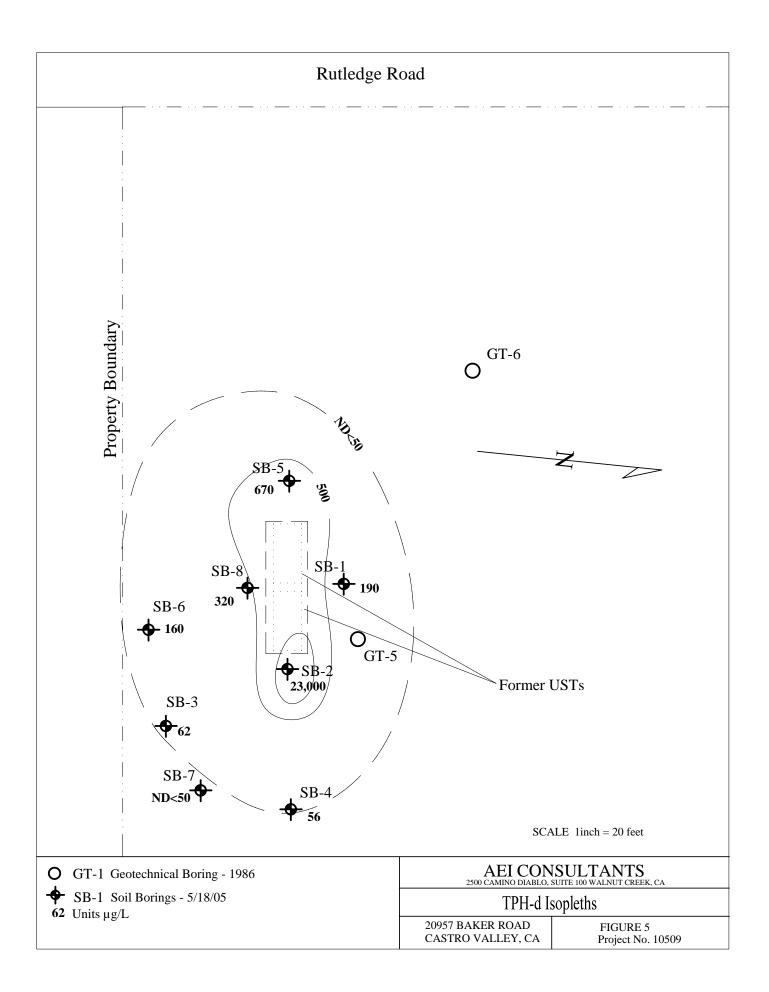
FIGURES

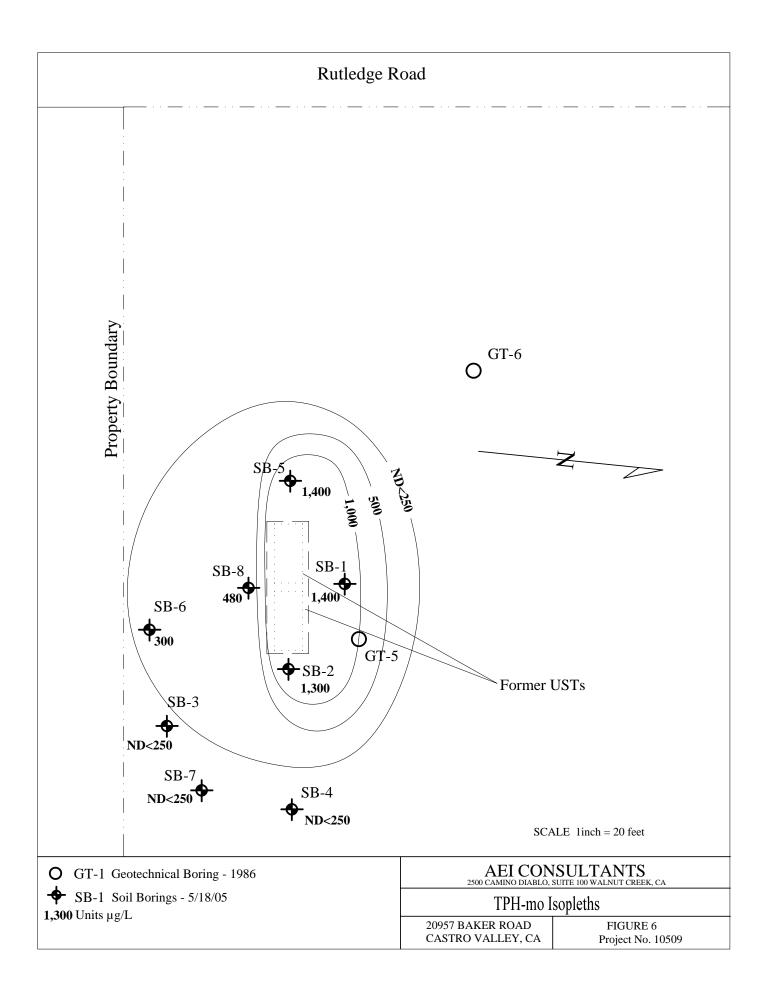


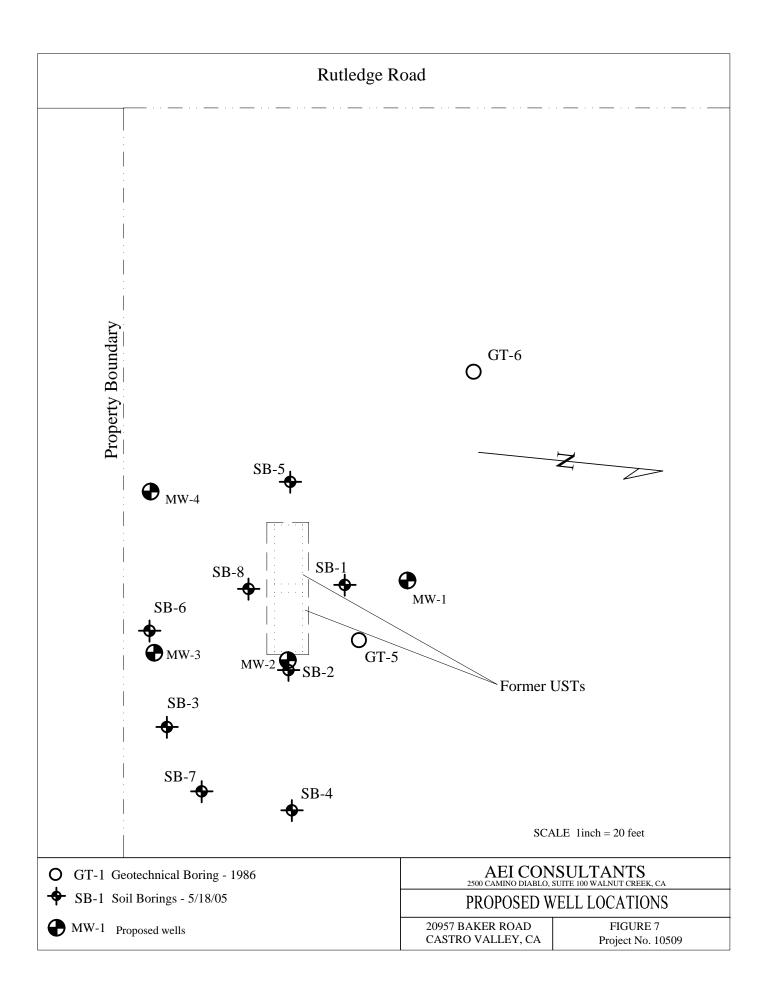












TABLES

Sample	TPH-g	TPH-d	TPH-mo	MTBE	Benzene	Toluene	E'benzene	Xylenes
ID	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	E	PA method 801	15		EF	PA method 802	1B	
SB1-11.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB2-10	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB3-7.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB4-7.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB5-7.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB6-7.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB7-8	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB8-7.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005

Table 1, Soil Sample Analytical Data, 20957 Baker Road, Castro Valley, California

Notes

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

TPH-mo = total petroleum hydrocarbons as motor oil

MTBE = methyl tert-butyl ether

mg/kg = micrograms per liter (parts per billion)

Sample	TPH-g	TPH-d	TPH-mo	MTBE	Benzene	Toluene	E'benzene	Xylenes
ID	µg/l	μg/l	µg/l	μg/l	μg/l	µg/l	μg/l	µg/l
	E	EPA method 801.	5		EF	PA method 802	1B	
SB-1 W	ND<50	$190^{1,2}$	1400	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-2 W	7,300 ^{3,4}	23,000 1,2,4,5	1300	ND<50	ND<5.0	11	ND<5.0	27
SB3-W	ND<50	62	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB4-W	ND<50	56 ²	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB5-W	ND<50	670 ^{1,2}	1400	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB6-W	ND<50	$160^{1,2}$	300	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB7-W	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB8-W	ND<50	320 ^{1,2}	480	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Table 2, Groundwater Sample Analytical Data, 20957 Baker Road, Castro Valley, California

Notes

1 - oil range compounds are significant

2 = diesel range compounds are significant, no recognizablr pattern

3 = no recognizable pattern

4 = lighter than water immiscible sheen/product is present

5 = gasoline rage compounds are significant

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

TPH-mo = total petroleum hydrocarbons as motor oil

MTBE = methyl tert-butyl ether

 $\mu g/l = micrograms$ per liter (parts per billion)

APPENDIX A

Boring Logs

Log of Boring SB-1

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type	Total Depth of Borehole 14 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 8.75 feet ATD	Sampling Method(s) Tube	Permit #
Borehole Backfill Cement Slurry	Location	

Elevation, feet Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log		PID Reading, ppm	REMARKS A
ш <u>о</u> - О	S		⊃ Asphalt			4 2	OTHER TES
		,	CL		Asphalt 2", base rock 4" Clay, black 10YR 2/1, firm, stiff, moist		
-							
		004.0.5	CL		Silty Clay, dark yellowish brown 10YR3/4 with very dark brown mottling 10YR 2/2	0.0	
	Ŕ	SB1-3.5				0.3	
- 5							
			CL- ML		Sandy silty Clay - Clayey Sand Silt, dark yellowish brown 10YR3/4 with some 10YR 4/6 mottling		
	1		SM		Silty Sand, yellowish brown 10YR 4/6, very fine grained, slightly clayey, firm - moderately firm, friable, very moist		
	$\left \right $						
	\bowtie	SB1-7.5				0.5	
					becoming wet @ 9 feet		
	$\left \right $				ATD) ⊑		
- 10-							
			SP		Sand, strong brown 7.5 4/6, soft, loose, wet		
	М	SB1-11.5				0.9	Boring sealed to surface with ne
			GC		- Clayey Gravel, olive - olive brown 5y 4/4 - 2.5 4/4, firm, moist - (saprolite) -		cement grout.
		С	layston		Sandy Silty Claystone, light olive brown 59 4/4 - 2.5 4/4, firm, moist - (saprolite)		
	$\left \right $				Bottom of Boring at 14 feet bgs		
- 15							
-	1						
	$\left \right $						
]						
	$\left \right $						
- 20-							
	1		I	I I	and the second s	1	
							Figure

Log of Boring SB-2

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 9.2 feet ATD	Sampling Method(s) Tube	Permit #
Borehole Backfill Cement Slurry	Location	

Depth, feet	Sample Type	Sample Number	USCS Symbol	O B B B B B B B B B B B B B B B B B B B	PID Reading, ppm	REMARKS AI OTHER TES
- 0		072	GC	Clayey Gravel, black - dark yellow brown 10YR 2/1 - 3/4, firm, dry (FILL?) No recovery		OTTERTES
 - 5		SB2-3.5	ML	Clayey Silt, olive gray 5Y 5/2, moderately firm, moist	0.1	
		SB2-7.5		becoming sandy downward	- 0.3	
 - 10-	-		SM	Silty Sand, olive gray 5Y 5/2, clayey, moderately firm, moist wet @ 9.3 (A	TD) ≚	
	imes	SB2-11.5	SP	Silty Sand, dark gray green 10GY 3/1, clayey, moderately firm,	175	
	\times	SB2-13	SW	Gravelly Sand, dark greenish gray 10GY 4/1, firm, wet	- 85 -	Boring sealed to surface with ne cement grout
- 15	-		CL	Sandy Gravelly Clay, olive brown - dark grayish brown 2.5Y 4/4 - 4/2, firm, slig moist (saprolite)	ghtly _	
		С	laystor	Sandy Gravelly Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated Bottom of Boring at 18 feet bgs		
	-				_	
			1	AFI	I	Figure

Log of Boring SB-3

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 8.56 feet ATD	Sampling Method(s) Tube	Permit #
Borehole Backfill Cement Slurry	Location	

0 Asphalt 2", base rock 4" CL Clay, black 10YR 2/1, firm, stiff, moist CL Sitty Clay, dark yellowish brown 10YR3/4 with some very dark brown 10YR 2/2 5 SB3-3.5 5 SB3-7.5 SM Clayey Sitt - Sitt, dark yellowish brown 10YR3/4 with some 10YR 4/6 mottling 10 SB3-7.5 SM Sitty Sand, strong brown 7.5 YR 5/6, firm, moist becoming wet @ 10.0 (ATD) \vec{2} 10 Clayey Sand, yellowish brown 10YR 4/6, moderately firn - moderately soft, wet 10 Clayey Sand, yellowish brown 10YR 4/6, moderately firn - moderately soft, wet	Elevation, feet Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log		PID Reading, ppm	REMARKS A
Asphal 2', base rock 4' CL Clay, black 10YR 2/1, firm, stiff, moist CL SB3-3.5 CL SItty Clay, dark yellowish brown 10YR3/4 with some very dark brown 10YR 2/2 mottling, firm, slightly moist CL SItty Clay, dark yellowish brown 10YR3/4 with some 10YR 4/6 mottling CL Clayey Silt - Silt, dark yellowish brown 10YR3/4 with some 10YR 4/6 mottling SB3-7.5 SM Silty Sand, strong brown 7.5 YR 5/6, firm, moist becoming wet @ 10.0 Clayey Sand, yellowish brown 10YR 4/6, moderately firm - moderately soft, wet Clayet Sandy Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly No recovery		Sar	Nur Nur	USU	Gra	MATERIAL DESCRIPTION	DId	OTHER TES
CL Sitty Clay, dark yellowish brown 10YR3/4 with some very dark brown 10YR 2/2 mottling, firm, slightly moist 0.5 SB3-3.5 CL Sitty Clay, dark yellowish brown 10YR3/4 with some very dark brown 10YR 2/2 mottling, firm, slightly moist 0.5 SB3-7.5 SM Clayey Sitt - Sitt, dark yellowish brown 10YR3/4 with some 10YR 4/6 mottling 1.0 NL Clayey Sitt - Sitt, dark yellowish brown 10YR3/4 with some 10YR 4/6 mottling 1.0 SB3-7.5 SM Sitty Sand, strong brown 7.5 YR 5/6, firm, moist (ATD) \vec{2} SB3-11.5 SP Clayey Sand, yellowish brown 10YR 4/6, moderately firm - moderately soft, wet 1.2 Sandy Sitty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly moist Borings se surface wit ceremit grown soft motting moist No recovery] 0		1		t <i>4111111111111111111111111111111111111</i>		-	
SB3-3.5 SB3-3.5 SB3-3.5 SB3-3.5 SB3-7.5 SM SB3-7.5 SP SB3-7.5						_ Clay, black TOYR 2/1, firm, still, moist	-	
SB3-3.5 SB3-3.5 SB3-3.5 SB3-3.5 SB3-3.5 SB3-7.5 SM SB3-7.5 SP Clayey Sand, yellowish brown 10YR 4/6, moderately firn - moderately soft, wet Sandy Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly No recovery				0				
Image: Second		X	SB3-3.5	CL		Silty Clay, dark yellowish brown 10YR3/4 with some very dark brown 10YR 2/2 mottling, firm, slightly moist -	0.5	
SB3-11.5 SP Clayey Sand, yellowish brown 10YR 4/6, moderately firm - moderately soft, wet Clayston Sandy Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly No recovery	- 5	_						
SM Silty Sand, strong brown 7.5 YR 5/6, firm, moist (ATD) 10 SB3-11.5 SB3-11.5 SP Clayey Sand, yellowish brown 10YR 4/6, moderately firn - moderately soft, wet Cayston Sandy Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly moist No recovery		_		CL- ML		_ Clayey Silt - Silt, dark yellowish brown 10YR3/4 with some 10YR 4/6 mottling	-	
Image: Second secon			SB3-7.5				1.0	
SB3-11.5 SP Clayey Sand, yellowish brown 10YR 4/6, moderately firn - moderately soft, wet 1.2 Cayston Sandy Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly moist Borings set surface wit cement growth 15 No recovery No recovery Sandy Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly				SM		Silty Sand, strong brown 7.5 YR 5/6, firm, moist becoming wet @ 10.0	-	
SP Clayey Sand, yellowish brown 10YR 4/6, moderately firn - moderately soft, wet Clayey Sand, yellowish brown 10YR 4/6, moderately firn - moderately soft, wet Sandy Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly moist No recovery	- 10	_					-	
SP Clayey Sand, yellowish brown 10YR 4/6, moderately firn - moderately soft, wet Clayston Sandy Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly No recovery							10	
15 Cayston Sandy Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly cement grown 2.5Y 4/4, firm - hard, inducated, slightly ceme		\downarrow	נסט-11.5	SP		Clayey Sand, yellowish brown 10YR 4/6, moderately firn - moderately soft, wet	1.2	
- 15 - No recovery			c	lavetor				Borings sealed surface with ne
Bottom of Boring at 16 feet bgs	- 15			3301		moist	1	cement grout
		-				Bottom of Boring at 16 feet bgs	-	
		-						
- 20	- 20	_					-	
Figure								Figure

Log of Boring SB-4

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 13.5 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 9.6 feet ATD	Sampling Method(s) Tube	Permit #
Borehole Backfill Cement Slurry	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log		PID Reading, ppm	REMARKS A
т п С		ဖိ				MATERIAL DESCRIPTION	Idd	OTHER TES
			1	Asphalt CL		Asphalt 2", base rock 4" Clay, black 10YR 2/1, firm, stiff, moist	+	
_	-			02			-	
1	-						-	
_		\leq	SB4-3.5				1.0	
- 5	5			(C⊫-		\setminus Silty Clay, dark yellowish brown 10YR3/4 with very dark brown mottling 10YR 2/2 $/$	*	
				CPL- ML		Sandy Silty Clay - Clayey Sandy Silt, dark yellowish brown 10YR 3/4 - 4/6 mottled,		
-	-			CL- ML		Silty Clay - Clayey Silt, yellowish brown 10YR 4/6, moderately firm, moist	-	
-	ł	\leq	SB4-7.5				0.3	
						becoming wet @ 9 feet (ATD) ≚-	-	
- 10	0-			CL		Sandy Clay grading downward to Clayey Sand, dark yellowish brown - 10YR 6/6,	+	
-	-			SC		firm, moist Clayey Sand, brownish yellow - light yellowish brown 10YR 6/6 - 6/4, firm -	+	
	-k		SB4-11.5			moderately firm, very moist	0.5	Desing social i
_	-	×	SB4-12	SC		Clayey Sand, light olive brown 2.5Y 5/6 - strong brown 7.5 YR 5/8 mottling, moderately firm, wet	0.5	Boring sealed to surface with nea cement grout
_						Refusal at 13.5 feet		
- 15	5							
_	-				-		-	
_	_				-		-	
1	-							
-	-						-	
- 20	0						-	
						AEI		Figure

Log of Boring SB-5

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level Dry feet ATD, 11.1 feet and Date Measured after 2.5 hrs	Sampling Method(s) Tube	Permit #
Borehole Backfill Cement Slurry	Location	

Lievaiioii, ieei Deoth. feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AN OTHER TES
– 0–			Asphalt		Asphalt 2", base rock 4"		
-			CL		Clay, black 10YR 2/1, firm, stiff, moist	•	
 5		SB5-3.5	CL		Silty Clay, dark yellowish brown 10YR3/4 with very dark brown mottling 10YR 2/2	0.1	
_			CL- ML		Clayey Silt, dark yellowish brown 10YR3/4 with some 10YR 4/6 mottling, firm,slighly moist		
		SB5-7.5	SM		Sand, yellowish brown 10YR 4/6, very fine grained, clayey, firm - moderately firm, friable, very moist	0.1	
- 10-			SP		Sand, yellowish brown 10YR 4/6, very fine grained - coarse grained, firm, wet ? - (after 2.5 hrs) ≝		
_	×	SB5-11.5				0.3	
			CL		 Gravelly Clay - Silty Clay, olive - olive brown 5y 4/4 - 2.5 4/4, firm - hard, slightly moist - (saprolite) – 		
- 15-		SB5-14C	layston	e	Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated	1.0	Boring sealed to surface wit neat cement grout
- - - 20-	-				Bottom of Boring at 18 feet bgs		
	-1			L L		I	Figure

CONSULTANTS ENVIRONMENTAL& CIVIL ENGINEERING

X: PROJECTS) CHARACTERIZATION & REMEDIATION/CHARACTERIZATION/10509 PH II (Piazza) Castro Valley/Prelim Inv/Borings 1-8.bgs [DP Boring 20.tp]

Log of Boring SB-6

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 14 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 8.62 feet ATD	Sampling Method(s) Tube	Permit #
Borehole Backfill Cement Slurry	Location	

Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log		PID Reading, ppm	
	San	Nun	nsc	Gra	MATERIAL DESCRIPTION	PID	REMARKS A OTHER TES
0			Asphalt		Asphalt 2", clayey gravelly FILL		
			CL		Clay, black 10YR 2/1, soft, moist		
	\times	SB6-3.5	CL		Silty Clay, dark yellowish brown 10YR3/4 with very dark brown mottling 10YR 2/2	1.0	
5			CL- ML		Sandy Silty Clay - Clayey Silt, dark yellowish brown 10YR3/4 with some 10YR 4/6 mottling, firm, moist		
			SM		Silty Sand, yellowish brown 10YR 4/6, very fine grained, slightly clayey, firm - moderately firm, friable, very moist - wet		
	$\boldsymbol{\succ}$	SB6-7.5		· · · · · · · · · · · · · · · · · · ·	becoming wet @ 9 feet (ATD) ⊻	0.8	
- 10	\times	SB6-10.5				1.1	
			SP		Sand, strong brown 7.5 YR 5/8 with yellowish brown 10YR 5/4, moderately soft - soft, wet		
	\times	SB6-10.5	GC-CL		Clayey Gravel - Gravelly Clay, olive gray - olive 4/2 - 5/3, firm, moist, (saprolite)	0.9	Boring sealed to surface with ne cement grout
- 15				-	Bottom of Boring at 14 feet bgs		
				-			
 - 20							
					AFI		Figure

Log of Boring SB-7

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 8.56 feet ATD	Sampling Method(s) Tube	Permit #
Borehole Backfill Cement Slurry	Location	

Depth, feet Sample Type Sample Number	USCS Symbol	by John Straight Stra	PID Reading, ppm	REMARKS AN
	n	ចំ MATERIAL DESCRIPTION	DId	OTHER TEST
0	Asphalt CL	Asphalt 2", base rock 4" Clay, black 10YR 2/1, firm, stiff, moist		
	CL	Silty Clay, dark yellowish brown 10YR3/4 with some very dark brown 10YR 2/2	-	
SB7-3.5	SH-	mottling, firm, slightly moist	0.1	
SB7-7.5			0.4	
- 10	SM .	Silty Sand, strong brown 7.5 YR 5/6, firm, moist becoming wet @ 10.0		
SB7-13.	5 Claystone	Clayey Sand, yellowish brown 10YR 4/6, moderately firn - moderately soft, wet Sandy Silty Claystone, light olive brown 2.5Y 4/4, firm - hard, indurated, slightly	1.1	Boring sealed to surface with nea cement grout
SB7-11.	5	No recovery Bottom of Boring at 16 feet bgs	0.6	
20-		- 		
		AEI		Figure

Log of Boring SB-8

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 15 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 8.7 feet ATD	Sampling Method(s) Tube	Permit #
Borehole Backfill Cement Slurry	Location	

Depth, feet Sample Type	Sample Number	USCS Symbol	Graphic Log		PID Reading, ppm	REMARKS AND
	Sar Nur			MATERIAL DESCRIPTION	DIG	OTHER TESTS
		GC	Base rock Sandy Silty Clay, slightly moist	reddish brown 5YR 5/4 - yellowish brown 10YR 5/6, mottled, firm		
		CL	Clay, black 10YR	2/1, firm, moderately firm, moist		
	SB8-3.5	CL	Silty Clay, dark y	ellowish brown 10YR3/4 with very dark brown mottling 10YR 2/2	0.2	
- 5		CL- ML SM	10YR 4/6 mottling	- Clayey Sand Silt, dark yellowish brown 10YR3/4 with some g vish brown 10YR 4/6, very fine grained, slightly clayey, firm - friable, very moist		
10	SB8-7.5	SP	Moisture content	increasing downward $(ATD) \stackrel{\bigtriangledown}{=} -$	1.1	
	000 // 5		becoming wet @	9 feet // // // // // // // // // // // // //		
	SB8-11.5	GC	Sand, strong bro moderately soft -	wn 7.5 4/6 - yellowish brown 10YR 5/6 mottled, locally clayey, moderastely firm, wet	0.1	
	SB8-13			-	2.3	Boring sealed wit neat cement grou
- 15	C	layston		stone, light olive brown 2.5Y 4/4, firm - hard, indurated		
			Bottom of Boring 			
- 20			_	-		
<u></u>	1	I	I	AEI		Figure

APPENDIX B

Laboratory Analyses With Chain of Custody Documentation



AEI Consultants	Client Project ID: #10509; Piazza	Date Sampled: 05/18/05
2500 Camino Diablo, Ste. #200		Date Received: 05/19/05
Webset Correla CA 04507	Client Contact: Robert Flory	Date Reported: 05/24/05
Walnut Creek, CA 94597	Client P.O.:	Date Completed: 05/24/05

WorkOrder: 0505282

May 24, 2005

Dear Robert:

Enclosed are:

- 1). the results of 9 analyzed samples from your #10509; Piazza 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.

You tr

Angela Rydelius, Lab Manager

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Tele: (925) 944-2				ax: (all My(clos	(801	20 E	8.1)		6					625 / 8270 / 8310			Toatal lead							
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	1/2	SAMP	ING	/	SIS	1	MAT	RIX				HOD RVE	D	Gas (602/8020	c dies	Oil &	Hyd	(basi	y El	ic lis	PCB	/ 87		by E			1/239		EP					
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other					BTEX & TPH as G	TPH Multi-range diesel/motor oil (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 (basic list)	BTEX ONLY (By EPA 602 / 8020)	EPA 8010 - basic list (by 8260)	EPA 608 / 8010 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	TPH multi-range EPA 8015	LEAD - Total	LEAD - STLC			
5B1-3.5		6-18-05	0800																															120
5B1 - 7.5		1	0802	18																						-								145
5B1-11.5			0805											X	4																			
542 - 7,5			0900					-										-				-												
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Tele: (925) 944-2 Project #: 10509	899 ext. 12	4			t Nan								3015)	il (8	5520	(418		020)					270			Toat							
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SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	Ice	HCI	HNU ₃ Other	BTEX & TPH as	TPH Multi-range diesel/motor oil (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 (basic list)	BTEX ONLY (By EPA 602 / 8020)	EPA 8010 - basic list (by 8260)	EPA 608 / 8010 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	TPH multi-range EPA 8015	LEAD - Total	LEAD - STLC			
585-7.5		5-18-05	1130	1	2+5		1						X	x																			
585-11.5		9	1130	1	1															_												-	
796-7.5	ALL NO		1220										X	X																			
986-10.5			1230																					-		1							
567 - 8			1315										X	X																			
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McCampbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0505282 ClientID: AEL

Report to:								Bill	to:						Reques	ted TAT	:	5 da	ays
		TEL: FAX: Project PO:	(925) 283-600 (925) 283-612 tNo: #10509; Piazz	21				Date R Date Pi	eceived: rinted:		05/19/2005 06/03/2005								
				Γ					F	Request	ed Test	s (See l	egend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0505282-001	SB1-3.5	Soil	05/18/2005			Α													
0505282-003	SB1-11.5	Soil	05/18/2005		А		Α												
0505282-005	SB2-10	Soil	05/18/2005		А		Α												
0505282-007	SB3-7.5	Soil	05/18/2005		А		Α										-		
0505282-010	SB4-7.5	Soil	05/18/2005		А		Α										-		
0505282-013	SB5-7.5	Soil	05/18/2005		А		Α												
0505282-015	SB6-7.5	Soil	05/18/2005		А		Α												
0505282-017	SB7-8	Soil	05/18/2005		А		Α												
0505282-019	SB8-7.5	Soil	05/18/2005		А		Α	-											

Test Legend:

1	G-MBTEX_S
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11	

PREDF REPORT	

2 7

12

3	TPH(DMO)_S
8	
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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.

	McCamp	pbell A	Analytica	l, Inc.	v	Telepho	renue South, #D7, Pache ne : 925-798-1620 Fa: nccampbell.com E-mail	x : 925-798-1622		
AEI Co	onsultants		Client P	roject ID: #10	509; Piazza		Date Sampled:	05/18/05		
2500 C	amino Diablo, S	Ste. #200)			Date Received:	05/19/05			
Walnut	Creek, CA 945	:07	Client C	Contact: Robert	Flory	Date Extracted:	05/19/05			
wainut	Creek, CA 945	197	Client P	2.0.:			Date Analyzed:	05/20/05		
Extraction	Gasoli method: SW5030B	ine Rang	ge (C6-C12)	-	carbons as thods: SW80211		with BTEX and		Order: 0	505282
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
003A	SB1-11.5	S	ND	ND	ND	ND	ND	ND	1	94
005A	SB2-10	S	ND	ND	ND	ND	ND	ND	1	99
007A	SB3-7.5	S	ND	ND	ND	ND	ND	ND	1	92
010A	SB4-7.5	S	ND	ND	ND	ND	ND	ND	1	90
013A	SB5-7.5	S	ND	ND	ND	ND	ND	ND	1	95
015A	SB6-7.5	S	ND	ND	ND	ND	ND	ND	1	100
017A	SB7-8	S	ND	ND	ND	ND	ND	ND	1	105
019A	SB8-7.5	S	ND	ND	ND	ND	ND	ND	1	99
ND mean	g Limit for DF =1; is not detected at or	W	NA	NA	NA	NA	NA	NA	1	ug/I
above t	the 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 µg/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.

____Angela Rydelius, Lab Manager

Mc	Campbell Ar	nalytica	al, Inc.	Telep	Avenue South, #D7, Pacheco, CA hone : 925-798-1620 Fax : 925 v.mccampbell.com E-mail: main	-798-1622	com		
AEI Consultant	ts	Client H	Project ID: #1050	9; Piazza	Date Sampled: 05/	18/05			
2500 Camino E	Diablo, Ste. #200				Date Received: 05/	Date Received: 05/19/05			
Walnut Creek,	CA 04507	Client C	Contact: Robert Fl	ory	Date Extracted: 05/	Date Extracted: 05/19/05			
walnut Creek,	CA 94397	Client F	Client P.O.: Date Analyzed: 05						
Extraction method: SV		and Oil (C	(18+) Range Extrac Analytical metho	•	s as Diesel and Motor Oi		der: 0505282		
Lab ID	Client ID	Matrix	TPH(d)		TPH(mo)	DF	% SS		
0505282-003A	SB1-11.5	S	ND		ND	1	116		
0505282-005A	SB2-10	S	ND		ND	1	110		
0505282-007A	SB3-7.5	S	ND		ND	1	102		
0505282-010A	SB4-7.5	S	ND		ND	1	113		
0505282-013A	SB5-7.5	S	ND		ND	1	106		
0505282-015A	SB6-7.5	S	ND		ND	1	94		
0505282-017A	SB7-8	S	ND		ND	1	110		
0505282-019A	SB8-7.5	S	ND		ND	1	106		
	imit for DF =1;	W	NA		NA	uş	g/L		
	ot detected at or reporting limit	S			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 Matrix: Soil

WorkOrder: 0505282

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 / LCSE
TPH(btex) [£]	ND	0.60	95.9	93.2	2.82	98.6	92.2	6.76	70 - 130	70 - 130
MTBE	ND	0.10	93.3	87.3	6.66	91.3	94.8	3.74	70 - 130	70 - 130
Benzene	ND	0.10	106	102	3.48	103	110	5.98	70 - 130	70 - 130
Toluene	ND	0.10	83.7	84.4	0.844	85.7	88.9	3.69	70 - 130	70 - 130
Ethylbenzene	ND	0.10	100	98.7	1.74	102	106	3.67	70 - 130	70 - 130
Xylenes	ND	0.30	90.7	87	4.13	91.7	91	0.730	70 - 130	70 - 130
%SS:	109	0.10	108	112	3.64	105	108	2.82	70 - 130	70 - 130

BATCH 16289 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0505282-003A	5/18/05 8:05 AM	5/19/05	5/20/05 8:49 AM	0505282-005A	5/18/05 9:05 AM	5/19/05	5/20/05 9:19 AM
0505282-007A	5/18/05 9:50 AM	5/19/05	5/20/05 10:19 AM	0505282-010A	5/18/05 10:50 AM	5/19/05	5/20/05 10:48 AM
0505282-013A	5/18/05 11:30 AM	5/19/05	5/20/05 11:18 AM	0505282-015A	5/18/05 12:20 PM	5/19/05	5/20/05 11:48 AM
0505282-017A	5/18/05 1:15 PM	5/19/05	5/20/05 7:19 AM	0505282-019A	5/18/05 2:10 PM	5/19/05	5/20/05 7:52 AM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0505282

EPA Method: SW8015C	E	xtraction:	SW3550C	;	BatchID: 16282			Spiked Sample ID: 0505282-019A			
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	81.1	81.8	0.826	98.8	100	1.18	70 - 130	70 - 130	
%SS:	106	50	89	91	1.19	106	107	1.32	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 16282 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0505282-003A	5/18/05 8:05 AM	5/19/05	5/20/05 2:50 PM	0505282-005A	5/18/05 9:05 AM	5/19/05	5/20/05 2:50 PM
0505282-007A	5/18/05 9:50 AM	5/19/05	5/20/05 8:42 PM	0505282-010A	5/18/05 10:50 AM	5/19/05	5/20/05 7:36 PM
0505282-013A	5/18/05 11:30 AM	5/19/05	5/20/05 5:24 PM	0505282-015A	5/18/05 12:20 PM	5/19/05	5/20/05 6:30 PM
0505282-017A	5/18/05 1:15 PM	5/19/05	5/20/05 4:13 PM	0505282-019A	5/18/05 2:10 PM	5/19/05	5/20/05 4:13 PM

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

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

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

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

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



AEI Consultants	Client Project ID: #10509; Piazza	Date Sampled: 05/18/05
2500 Camino Diablo, Ste. #200		Date Received: 05/19/05
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Reported: 05/26/05
wamut Creek, CA 94397	Client P.O.:	Date Completed: 05/26/05

WorkOrder: 0505283

May 26, 2005

Dear Robert:

Enclosed are:

- 1). the results of 8 analyzed samples from your #10509; Piazza 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.

Yours truly,

O Cuch Caro for

Angela Rydelius, Lab Manager

	McCamj	pbell 4	Analytica	l, Inc.	v	Telepho	venue South, #D7, Pacheco, CA 94553-5560 none : 925-798-1620 Fax : 925-798-1622 mccampbell.com E-mail: main@mccampbell.com					
AEI Coi	nsultants		Client Pr	roject ID: #1	0509; Piazza		Date Sampled: 05/18/05					
2500 Ca	amino Diablo, S	Ste. #200	D	Date Received: 05/19/05								
117-1	Create CA 046	:07	Client C	ontact: Robe	rt Flory	Date Extracted:	05/20/05					
wainut	Creek, CA 945	97	Client P	.0.:			Date Analyzed:	05/20/05				
Extraction	Gasoli method: SW5030B	ine Ran	ge (C6-C12) '	-	rocarbons as nethods: SW80211		with BTEX and		Order: 0	505283		
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS		
001A	SB1-W	w	ND,i	ND	ND	ND	ND	ND	1	96		
002A	SB2-W	w	7300,m,h,i	ND<50	ND<5.0	11	ND<5.0	27	10	100		
003A	SB3-W	w	ND,i	ND	ND	ND	ND	ND	1	92		
004A	SB4-W	w	ND,i	ND	ND	ND	ND	ND	1	97		
005A	SB5-W	w	ND,i	ND	ND	ND	ND	ND	1	96		
006A	SB6-W	w	ND,i	ND	ND	ND	ND	ND	1	100		
007A	SB7-W	w	ND,i	ND	ND	ND	ND	ND	1	95		
008A	SB8-W	w	ND,i	ND	ND	ND	ND	ND	1	96		
Reporting	g Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5				
ND mean	s not detected at or he reporting limit	S	NA	NA	NA	NA		0.3 NA	1	μg/l 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 μ g/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

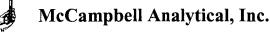
+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (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.

McC	Campbell Ar	nalytical	, Inc.	Te	nd Avenue South, #D7, Pacheco, lephone : 925-798-1620 Fax : f www.mccampbell.com E-mail: m	925-798-1622	com		
AEI Consultants		Client Pro	oject ID: #1050	09; Piazza Date Sampled: 05/18/05					
2500 Camino Di	iablo, Ste. #200				Date Received: 0	Date Received: 05/19/05			
Walnut Curali	74 04507	Client Co	ontact: Robert Fl	ory	Date Extracted: 0	Date Extracted: 05/19/05			
Walnut Creek, C	JA 94397	Client P.(O.:	Date Analyzed: 0	5/20/05-05/2	24/05			
extraction method: SW	. ,	and Oil (C1	8+) Range Extrac Analytical metho	-	ons as Diesel and Motor		rder: 050528		
Lab ID	Client ID	Matrix	TPH(d)		TPH(mo)	DF	% SS		
0505283-001B	SB1-W	W	190,g,b,i		1400	1	105		
0505283-002B	SB2-W	w	23,000,d,b,g	,h,i	1300	1	102		
0505283-003B	SB3-W	w	62,i		ND	1	102		
0505283-004B	SB4-W	w	56,b,i		ND	1	106		
0505283-005B	SB5-W	W	670,g,b,i	-	1400	1	113		
0505283-006B	SB6-W	W	160,g,b,i		300	1	111		
0505283-007B	SB7-W	W	ND,i	ND		1	105		
0505283-008B	SB8-W	W	320,g,b,i		480	1	115		
									
							· · · · · · · · · · · · · · · · · · ·		
	mit for DF =1;	w	50		250	μ	g/L		
	t detected at or eporting limit	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 spirit.



NONE

QC SUMMARY REPORT FOR SW8015C

0505283	WorkOrder:				x: Water	QC Matri				W.O. Sample Matrix: Water			
	npie ID: N/A	Spiked Sam	9	hID: 16279	Batc		SW3510C	xtraction:	E	EPA Method: SW8015C			
Criteria (%)	Acceptance	LCS-LCSD	LCSD	LCS	MS-MSD	MSD	MS	Spiked	Sample	Analyte			
LCS / LCSI	MS / MSD	% RPD	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	µg/L	µg/L	, and y to			
70 - 130	N/A	0.467	98.9	99.4	N/A	N/A	N/A	1000	N/A	TPH(d)			
70 - 130	N/A	0.752	107	108	N/A	N/A	N/A	2500	N/A	%SS:			
		0.752	107	108	N/A	N/A	N/A	2500	N/A	TPH(d) %SS: All target compounds in the Meth			

BATCH 16279 SUMMARY Sample ID Date Extracted Date Sampled Date Analyzed Sample ID Date Sampled Date Extracted Date Analyzed 0505283-001B 5/18/05 8:30 AM 5/19/05 5/24/05 12:41 AM 0505283-002B 5/18/05 9:30 AM 5/19/05 5/23/05 10:20 PM 0505283-003B 5/18/05 10:20 AM 5/19/05 5/24/05 9:55 AM 0505283-004B 5/18/05 11:00 AM 5/19/05 5/23/05 11:31 PM 5/18/05 3:00 PM 5/19/05 0505283-005B 5/24/05 7:35 AM 0505283-006B 5/18/05 12:50 PM 5/19/05 5/20/05 1:44 PM 0505283-007B 5/18/05 1:45 PM 5/19/05 5/24/05 12:30 PM 0505283-008B 5/18/05 2:30 PM 5/19/05 5/24/05 6:26 AM

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

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

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

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

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

DHS Certification No. 1644

QA/QC Officer



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water			QC Matri		WorkOrder: 0505283									
EPA Method: SW8021B/80	15Cm I	Extraction:	SW5030E	3	Batc	hID: 1628	1	Spiked Sample ID: 0505283-006A						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)				
Analyte	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD				
TPH(btex) [£]	ND	60	92.3	93.9	1.70	94.4	93.3	1.21	70 - 130	70 - 130				
MTBE	ND	10	82	82.4	0.505	91	88.7	2.60	70 - 130	70 - 130				
Benzene	ND	10	103	105	1.62	93.2	98.2	5.16	70 - 130	70 - 130				
Toluene	ND	10	104	110	5.50	101	102	1.11	70 - 130	70 - 130				
Ethylbenzene	ND	10	105	102	2.77	99	101	1.67	70 - 130	70 - 130				
Xylenes	ND	30	91.3	90.7	0.733	86.3	90.3	4.53	70 - 130	70 - 130				
%SS:	100	10	109	112	2.42	100	103	2.46	70 - 130	70 - 130				

BATCH 16281 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0505283-001A	5/18/05 8:30 AM	5/20/05	5/20/05 1:48 AM	0505283-002A	5/18/05 9:30 AM	5/20/05	5/20/05 10:06 PM
0505283-003A	5/18/05 10:20 AM	5/20/05	5/20/05 3:59 AM	0505283-004A	5/18/05 11:00 AM	5/20/05	5/20/05 7:14 AM
0505283-005A	5/18/05 3:00 PM	5/20/05	5/20/05 9:24 AM	0505283-006A	5/18/05 12:50 PM	5/20/05	5/20/05 7:46 AM
0505283-007A	5/18/05 1:45 PM	5/20/05	5/20/05 8:51 AM	0505283-008A	5/18/05 2:30 PM	5/20/05	5/20/05 9:57 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.

 \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.

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.

 $\mathcal{M}_{QA/QC \text{ Officer}}$

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			SAMP	LING -	5	lers	M	ÁTR		Р	RES	ERV	ĒD	Gas (602/8020	se di	li Oil	ı Hy) (ba	ByE	usic l	DC I	0 / 82		by I	s		:1/23		с Ц					
	SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water Soil	Air	Sludge	Uther	HCI	HNO ₃	Other	BTEX & TPH as (TPH Multi-range diesel/motor oil (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 (basic list)	BTEX ONLY (By EPA 602 / 8020)	EPA 8010 - basic list (by 8260)	EPA 608 / 8010 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	TPH multi-range	LEAD - Total	LEAD - STLC			
12	581-20 582-10 583-10 585-10 585-10 585-10 587-10 588-10		5-18-04	0830	H	3VCA								V	K																			
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McCampbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0505283 ClientID: AEL

Report to:							Bill	to:					F	Reques	ed TAT:		5 da	ays		
Robert Flory AEI Consulta 2500 Camin							FAX: (925) 283-6121 All Environmental, Inc. 00 ProjectNo: #10509; Piazza 2500 Camino Diablo, Ste. #200								-	Date R Date P		/19/20 /19/20		
					_			F	Request	ed Tests	(See le	egend b	elow)							
Sample ID	ClientSampID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
										.				r — — —		1	······			
0505283-001	SB1-W	Water	5/18/05 8:30:00 AM	Α	Α	В														
0505283-002	SB2-W	Water	5/18/05 9:30:00 AM	Α		В														
0505283-003	SB3-W	Water	5/18/05 10:20:00	Α		В														
0505283-004	SB4-W	Water	5/18/05 11:00:00	Α		В														
0505283-005	SB5-W	Water	5/18/05 3:00:00 PM	A		В														
0505283-006	SB6-W	Water	5/18/05 12:50:00	Α		В											L			
0505283-007	SB7-W	Water	5/18/05 1:45:00 PM	Α		В											L			
0505283-008	SB8-W	Water	5/18/05 2:30:00 PM	Α	1	В										L	L			

Test Legend:

1	G-MBTEX_W	
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PREDF REPORT	

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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.