



Project 130-05-01

February 18, 1997

Mr. Bryce Ruschaupt California Petroleum Equipment P. O. Box 9364 Fresno, CA 93792

Subject:

UST Removal Soil Sampling Report for Foothill Beacon, 16210

Foothill Boulevard, San Leandro, California

Dear Mr. Ruschaupt:

This letter documents soil sampling related to the excavation of soil and the removal of four underground gasoline tanks from the above referenced site on January 28 and 30, 1997.

Underground Tank Removal

The tanks were removed by California Petroleum Equipment, Inc., of Fresno on January 28, 1997. Prior to removal from the pit, dry ice was placed in each tank. The Alameda County Environmental Health Dept.'s. representative was on hand to observe the tank removal and loading, inspect the tanks, and observe soil sampling. There were two 8,000 gallon tanks and two 5,000 gallon tanks, single wall steel, and appeared to be in fair condition, with some pitting evident on the tanks with close inspection.

The Alameda County inspector probed the pitted areas and found two 1/4" to 1/2" holes at the end of one of the 5,000 gallon tanks. The holes were about 3 feet from the bottom of the tank at the weld by the tank cylinder and tank end. Although the metal was soft enough to disintegrate with the probing of a screwdriver, it appears that the tank did not leak from these spots. The tanks were sitting in about 4 feet of water, and if the tanks leaked, water would have been 3 to four feet deep in this tank. Since no water was pumped from the tank during service, the tank was apparently intact until removal.

The tanks and piping were hauled to the Erickson, Inc. facility in Richmond, California, where they will be destroyed. The dispensers and island were removed prior to the tank removal.

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The tank bottoms rested at about 14 feet depth below ground surface (BGS)(Figure 1: Site Plan, Sample Data). The dispensers were located south of the tanks on two separate gas islands. Groundwater was 11 feet below grade surface on the day of the tank removal, as measured by tape measure.

Sample Collection

Prior to the tank removals, samples were taken of soils in the pipe trenches and under the former island locations (Samples P-1 through P-9) at depths of 2 to 3 feet BGS with a backhoe. A six-inch brass tube was pushed into the soil just above the bucket teeth until the tube was full. Aluminum foil and plastic caps were placed over the tubes, then the samples were labeled and placed on ice for transport the testing laboratory for certified chemical analysis. A chain of custody form accompanied the samples to the lab. The tank excavation was not sampled on this day because the County Inspector desired additional excavation of the backfill materials prior to sampling. Standing water was observed in the tank pit prior to and after the tanks were removed.

The tank pit samples (T-1 through T-5, W-1) and additional pipe trench samples (p-10, P-11) were obtained on January 30, 1997. The soil samples were obtained as described above. The water sample was obtained by lowering a teflon bailer into the standing water, allowing the bailer to completely submerge, and placing the sample water in two 40 milliliter vials. All samples were labeled and placed on ice in a cooler, and a chain of custody form was completed for transport to the analytical laboratory.

The sampled soils were comprised mainly of stiff clays, and smelled none to strongly of aged or fresh gasoline.

Sample Analysis Results

The soil samples were analyzed at a State Certified Environmental Laboratory for total petroleum hydrocarbons as gasoline (TPH-g), methyl-tert butyl ether (MTBE), and benzene, toluene, ethylbenzene, xylenes (BTEX) by EPA methods 8015 modified/8020 (Attachment A: Soil Sample Analytical Data).

The native soil samples indicated low level gasoline contamination with background lead concentrations. Sample results are presented in Table 1 below.

Conclusions

On January 28, 1997, two 8,000 gallon and two 5,000 gallon single wall steel underground fuel storage tanks were removed from the property located at 16210 Foothill Boulevard, San Leandro, California. Soil samples were taken on January 28 and 30, 1997, from the tank pit ends, under the gas islands and under the piping for certified chemical analysis of TPH as gasoline, MTBE, and BTEX. One water sample was obtained from the tank excavation on January 30, 1997.

Samples from under the piping and gas islands had low to moderate TPH-g detected, and samples from the tank pit yielded low level gasoline results. The water sample had a moderately high amount of gasoline detected. The highest amounts of gasoline detected were found under the piping near the south east corner of the tank excavation.

A copy of this report and attachments will be forwarded by Parker Environmental to the Alameda County Environmental Health Department on behalf of the property owner.

Sincerely:

PARKER ENVIRONMENTAL SERVICES

James D. Parker

President

Attachments

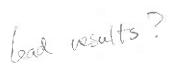
Site Drawing

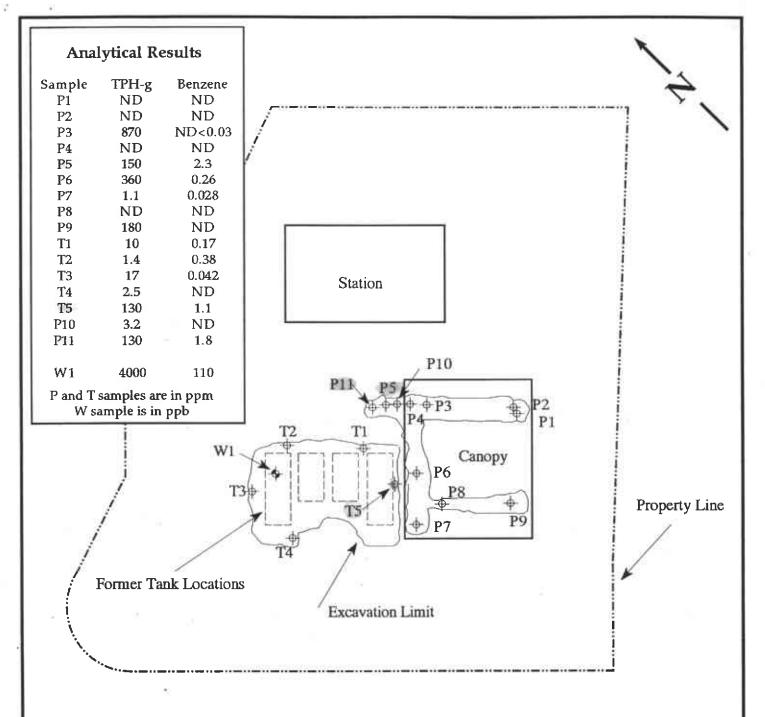
Laboratory Analysis Reports

Table 1
Soil Sample Analytical Results
Foothill Beacon, 16210 Foothill Boulevard
San Leandro, California

Sample	TPH-gas	MTBE	benzene	toluene	ethyl-benzene	xylenes	
1/28/97							
P-1@2'	ND	ND	ND	ND	ND	ND	
P-2@2'	ND	ND	ND	ND	ND	0.011	
P-3@21	870	7.4	ND<0.03	0.59	ND<0.03	98	
P-4@2'	ND	ND	ND	ND	ND	ND	
P-5@31	150	110	2.3	10	2.3	19	
P-6@31	360	0.43	0.26	1.5	1.0	14	
P-7@31	1.1	0.70	0.028	0.074	0.009	0.031	
P-8@2'	ND	0.16	ND	ND	ND	0.012	
P-9@2'	180	1.5	ND	0.093	0.16	0.32	
1/30/97							
T-1@10.5	10	9.4	0.17	0.23	0.074	0.68	
T-2@10.5	1.4	1.3	0.38	0.008	ND	ND	
T-3@10.5	17	0.24	0.042	0.027	0.026	0.056	
T-4@10.5	2.5	0.10	ND	0.009	ND	0.044	
T-5@10.5	130	0.48	1.1	0.19	3.0	5.8	
P-10@6'	3.2	.38	ND	0.007	ND	0.005	
P-11@9.5	130	2.6	1.8	2.3	3.0	18	
det. lim.	(S) 1.0	0.05	0.005	0.005	0.005	0.005	_
W-1@11'	4000	2800	110	88	46	620	
det. lim.		5.0	0.5	0.5	0.5	0.5	

Soil results are in mg/kg or parts per million (ppm), Water results are in μ g/L or parts per billion (ppb). ND = not detected at or above method detection limits





FOOTHILL BOULEVARD

Samples were obtained on January 28 and 30, 1997.

Scale: 1" = 30'
Locations of Site Features are Approximate

Project 130-05-01

PARKER Environmental Services 190 East 7th Street Pittsburg, CA 94565 (510) 439-1024

UST Removal Sampling Points
Beacon Station
16210 Foothill Bouldvard
San Leandro, California

2/97

Parker Environmental Services Client Project ID: #130-05-01; Beacon Date Sampled: 01/28/97 Station 190 East 7th Street Date Received: 01/28/97 Pittsburg, CA 94565 Client Contact: Jim Parker Date Extracted: 01/28/97 Client P.O: Date Analyzed: 01/28-01/29/97 Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX* EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030) Ethylben-% Rec. Client ID | Matrix | TPH(g)+ Lab ID **MTBE** Benzene Toluene Xylenes zene Surrogate 73270 P-102' S ND NDND ND ND ND 106 73271 P-2021 S ND ND ND ND ND 0.011 108 73272 P-302' S 870,b,j 7.4 ND< 0.03 0.59 ND< 0.03 98 98 73273 P-402' S ND ND ND NDND ND 110 P-5031 S 150,a 10 2.3 19 103 73274 110 2.3 73275 P-603' S 0.43 0.26 1.5 1.0 14 100 360,b,j 113# P-703' S 0.074 0.009 0.031 73276 0.70 0.0281.1,a S 73277 P-802' ND 0.16 ND ND ND 0.012 107 S 103 73278 P-902' 180,g,j 1.5 ND 0.093 0.16 0.32Reporting Limit un-W 50 ug/L 5.0 0.5 0.5 0.5 0.5 less otherwise stated; ND means not detected above 0.005 S 0.05 0.005 0.005 0.005 $1.0 \, \text{mg/kg}$ the reporting limit

^{*} water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts 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 (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than – 5 vol. % sediment; j) no recognizable pattern.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 01/28/97-01/29/97 Matrix: Soil

	Concent:	ration	(mg/kg)	J. I	% Reco	very	
Analyte	Sample			Amount			RPD
	(#68845)	MS	MSD	Spiked	MS	MSD	
TPH (gas)	0.000	2.191	2.137	2.03	108	105	2.5
Benzene	0.000	0.222	0.222	0.2	111	111	0.0
Toluene	0.000	0.230	0.238	0.2	115	119	3.4
Ethylbenzene	0.000	0.218	0.232	0.2	109	116	6.2
Xylenes	0.000	0.654	0.658	0.6	109	110	0.6
TPH (diesel)	0	338	333	300	113	111	1.5
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Nec. = (MS - Sample) / amount spiked x 100

 $RPD = (MS = MSD) / (MS + MSD) \times 2 \times 100$

PARKER

Environmental Services 190 East 7th Street Pittsburg, CA 94565 (510) 439-1024 CHAIN OF CUSTODY FORM 8017 APE 282

	(510)	439-1 439-2	024	Site Na Locatio	me	B.	PACD	NS	DAMON		ANDRO, CA.	Date /	28-97
Sample Number	Soil	Type Water	Time	TPH-g	ŤPH-d	۵	nalysis F O & G	Requeste	ed			Remarks	7/3/2//(0)
P-(02	X		14:58	X		X		X					7/3(27/1
P-2021	×		5:10	X		X		X					1/8(07/2)
P3021	X		5763	X		X		X					73278
1-402	9		5:16	X		X		X					CAN THE STATE OF T
1503'	×		5,20	X		X		X				ii.	7/3/2014
P.603'	X		15:30	X		X		X				Vita	78/27/5
P 783'	X	/	5:35	X		X		X					USE THE
P802'	X		5:42	X		X		X					7/3/27/4
P.902'	X		15:47	X		X		Χ					73278
	8		ICE/T°	NDITION_	<u>J</u> /	PRESERY APPROP	VATIVE RIATE	S 0&G	METALS OTHER	<		北切 服	
Sampler I	Name (i	Print)	HEAD SPA	n PA	KRE	CONTAIN	VLI10		Sampler Sig	gnature	Jim fart	·	
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Parker Environmental Services	Client Project ID: 130-05-01; Calif.	Date Sampled: 01/30/97		
190 East 7th Street	Petroleum Equip.	Date Received: 01/30/97		
Pittsburg, CA 94565	Client Contact: Jim Parker	Date Extracted: 01/30-01/31/97		
	Client P.O:	Date Analyzed: 01/30-01/31/97		
Gasoline Range (C6-C12) Vo	latile Hydrocarbons as Gasoline*, with Meth	ryl tert-Butyl Ether* & BTEX*		
	8020 or 602; California RWQCB (SF Bay Region) metho			

Lab ID	Client ID	Matrix	TPH(g) ⁺	МТВЕ	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate
73351	T1 @10.5'	S	10,a	9.4	0.17	0.23	0.074	0.68	104
73352	T2 @10.5'	S	1.4,c	1.3	0.38	0.008	ND	ND	108
73353	T3 @10.5'	S	17,j	0.24	0.042	0.027	0.026	0.056	104
73354	T4@10.51	S	2.5,j	0.10	ND	0.009	ND	0.044	110#
73355	T5@10.5'	S	130,a/b	0.48	1.1	0.19	3.0	5.8	101
73356	P10@6'	S	3.2,j	0.38	ND	0.007	ND	0.005	113#
73357	P11 @9.5'	S	130,a	2.6	1.8	2.3	3.0	18	104
73358	W1 @ 11	W	4000,a	2800	110	88	46	620	101
Reporting	g Limit unless se stated; ND	W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means	not detected reporting limit	s	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts 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 (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than – 5 vol. % sediment; j) no recognizable pattern.

Parker Environmental Services 190 East 7th Street			Project ID: : m Equip	Date Sampled: 01/30/97 Date Received: 01/30/97							
Pittsburg, CA		Client C	ontact: Jim Park	Date Extracted: 01/30/97							
		Client P.	O:		Date Analyzed: 01/31/97						
EPA analytical n	nethods 6010/200.7, 239.2		Lead								
Lab ID	Client ID	Matrix	Extraction ⁰	Lea	d [*]	% Recovery					
73351	T1 @ 10.5'	S	TTLC	3.0)	106					
73352	T2 @ 10.5'	S	TTLC	3.	1	105					
73353	T3 @ 10.51	S	TTLC	NI)	106					
73354	T4 @ 10.5'	S	TTLC	NI)	105					
73355	T5 @ 10.5'	S	TTLC	3.1	2	110					
73356	P10@6'	S	TTLC	4.8	3	108					
73357	P11 @ 9.5"	S	TTLC	3.:	5	106					
			11								
Reporting Limit	unless otherwise stated; detected above the re-	S	TTLC	3.0 m	g/kg						
	orting limit	w	TTLC	0.005 r	ng/L						
		his	STLC,TCLP	0.2 m	g/L						

^{*} soil and sludge samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

[†] Lead is analysed using EPA method 6010 (ICP)for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

[#] surrogate diluted out of range; N/A means surrogate not applicable to this analysis

[&]amp; reporting limit raised due matrix interference

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 01/30/97

Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample (#68845)	MS	MSD	Amount Spiked	MS	MSD	RPD
	(#00043)	PILO	MOD	Spiked	MS	עמויו	
TPH (qas)	0.000	1.980	1.933	2.03	0.0	^-	
Benzene	0.000			2.03	98	95	2.4
	211	0.190	0.180	0.2	95	90	5 . 4
Toluene	0.000	0.214	0.186	0.2	107	93	14.0
Ethylbenzene	0.000	0.190	0.180	0.2	95	90	5.4
Xylenes	0.000	0.600	0.558	0.6	100	93	7.3
TPH (diesel)	0	302	300	300	101	100	0.9
TRPH oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

N Rec = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100

QC REPORT FOR HYDROCARBON ANALYSES

Date: 01/31/97

Matrix: Soil

	Concent:	ration	(mg/kg)	ľ	% Reco	very	
Analyte	Sample			Amount			RPD
	(#68846)	MS	MSD	Spiked	MS	MSD	
TPH (gas)	0.000	2.170	1.960	2.03	107	97	10.2
Benzene	0.000	0.200	0.184	0.2	100	92	8.3
Toluene	0.000	0.210	0.192	0.2	105	96	9.0
Ethylbenzene	0.000	0.204	0.188	0.2	102	94	8.2
Xylenes	0.000	0.648	0.562	0.6	108	94	14.2
TPH (diesel)	0	345	337	300	115	112	2.2
TRPH (oil and grease)	N/A	N/A	N/A	A/N	N/A	N/A	N/A

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

N Rec = (MS - Sample) / amount spiked x 100

QC REPORT FOR HYDROCARBON ANALYSES

Date: 01/30/97

Matrix: Water

	Concent	ation	(mg/L)		% Reco	very	
Analyte	Sample			Amount			RPD
	(#73220)	MS	MSD	Spiked	MS	MSD	
TPH (gas)	0.0	95.0	91.8	100.0	95.0	91.8	3.4
Benzene	0.0	9.2	8.7	10.0	92.0	87.0	5.6
Toluene	0.0	9.2	8.9	10.0	92.0	89.0	3.3
Ethyl Benzene	0.0	9.3	9.0	10.0	93.0	90.0	3.3
Xylenes	0.0	27.9	26.7	30.0	93.0	89.0	4.4
TPH (diesel)	0	137	138	150	91	92	0.7
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

[%] Rec. = (MS - Sample) / amount spiked x 100

RPD = $(MS - MSD) / (MS + MSD) \times 2 \times 100$

QC REPORT FOR ICP and/or AA METALS

Date: 01/31/97

Matrix: Soil

	Concent:	ration			% Reco	very	
Analyte	(mg	g/kg,mg/	L,ug/wip	Amount			RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0_0	4,41	4.29	5.0	88	86	2.7
Total Cadmium	0.0	5.25	4.97	5.0	105	99	5.4
Total Chromium	0.0	4.55	4.35	5.0	91	87	4.5
Total Nickel	0.0	4.40	4.25	5.0	88	85	3.6
Total Zinc	0.0	5.03	4.86	5.0	101	97	3 . 5
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Rec = (MS - Sample) / amount spiked x 100

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

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Environmental Services 190 East 7th Street Pittsburg, CA 94565 (510) 439-1024

CHAIN OF CUSTODY FORM

8033 APE 283

Date /-30-97 St) Asbestos Other Remarks NORMALTAT 73351+
Asbestos Other Remarks NORMALTAT 73351
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