

August 12, 1992

Project 128-6

Mr. Jim Brinker Burnabe & Brinker 1281 30th Street Oakland, CA 94608

Subject: Underground Tank Removal Soil Sampling and Analysis Report

Dear Mr. Brinker:

This letter is a report concerning the soil sampling and analysis associated with the underground tank removals from Douglas Parking, 1721 Webster Street, Oakland, California on August 3rd and August 6th, 1992.

One 1,000 gallon gasoline steel tank was removed from the property on August 3, 1992. No holes were observed on the tank. Two soil samples were collected from the beneath the former tank location, and six soil samples were collected from beneath the gas lines and pump area. For the samples from underneath the tanks, a backhoe was used to dig approximately one foot into the native soil for a total depth of 9 feet below ground surface. Digging was difficult due to sumping sidewalls, and water in the excavation bottom. The water in the excavation was from a broken sewer line and broken water line.

The native soil was brought to the surface in the backhoe bucket, where a 2 inch diameter 6 inch long brass sample tube was hammered into the undisturbed soil. Aluminum foil was placed over the tube ends, then plastic caps. Each sample was labeled and placed in a zip lock bag on ice in a portable cooler for transport to a State certified hazardous materials analysis laboratory, McCampbell Analytical, Pacheco, CA. Sample locations are shown in the attached site drawing. Sample information was entered on a chain of custody form (attached) as each sample was completed.

The samples from beneath the gas pumps were two feet from the surface, and the product line samples were 1.5 to 2.0 feet beneath the surface. These samples were obtained by hand augering to the appropriate depth, and then using a slide hammer to drive the sample tube into the soil. Each tube was wrapped, labeled and transported as described above.

Mr. Jim Brinker August 12, 1992 Page 2

Due to unstable excavation walls by the 1,000 gallon tank, the hole was backfilled after the tank samples were obtained. No over-excavation of contaminated soil was accomplished.

The two 500 gallon tanks were removed on August 6, 1992. Three samples were taken from beneath the tanks (T-3, T-4, T-5), two from the excavation bottom after over-excavation (T-6, T-7), and four from the excavation side walls (SW-1 through SW4). One composite sample was taken from the soil stockpile.

None of the tanks had visible holes other than holes punched through the steel by the backhoe during removal.

The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) and the gasoline constituents of benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA methods 5030, 8015 and 8020, and California RWQCB (SF Bay Region) method GCFID (5030). Analysis results show all samples collected from the tank excavation had detectable of gasoline and its constituents, with the highest amounts from beneath the middle tank. Samples from the gas lines and pumps had minimal or non-detectable amounts of gasoline.

We are forwarding a copy of this report and attachments to Alameda County, Oakland City Fire Department and Mr. Lee Douglas as you requested.

Sincerely, PARKER ENVIRONMENTAL SERVICES

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James D. Parker President

Attachments

CC:

/Alameda County Health Services, Environmental Health Division City of Oakland Fire Department Mr. Lee Douglas, Douglas Parking

Parker Environmental Services, 4185 Rialto Court, Pittsburg, CA 94565-6116 Phone (510) 439-1024 Fax (510) 439-2566

### Douglas Parking 1721 Webster Street, Oakland, California Soil Sample Analysis Results\* Samples Collected on August3 and 6, 1992

Sample Number	Depth	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes
Samples F	rom Benea	th the Tank	s		•	-
T <b>_</b> 1	9′	150 /	2.2	2.9	1.8	13
T-2	9'	120 /	0.62	0.56	0.87	2.2
T-3	8′	580	1.7	5.9	5.6	43
Т-4	8′	1.500	11	140	48	280
T-5	8′	410	6.7	22	6.2	35
T-6	12'	1.400 🖌	12	71	29	150
T-7	14'	2.3	0.11	0.19	0.050	0.31
Samples f	rom the so	uth excavati	on side walls	5		
SW1	9.5′	280 <i>C</i>	2.9	5.8	3.2	15
SW2	7'	1.500	5.7	40	18	150
SW3	8'	400	2.7	5.8	4.0	21
SW4	9'	2.3 /	0.42	0.028	0.077	0.18
Composit	ed Sample	from the so	il pile			
C1	1.5'	560	ND<0.1	5.0	3.1	24
Samples f	rom the li	ne and pum	p trenches			
I_1	1.5′	2.6	ND	0.010	) ND	0.030
1_7	1.5		ND	ND	ND	ND
L-2	1.5	ND /	ND	ND	ND	ND
1.4	1.5	ND /	ND	ND	ND	ND
L-1 L-5	2.0	8.2 -	0,010	0.020	) 0.012	0.092
L-6	2.0'	ND /	ND	0.007	7 ND	0.034

\* TPH (as gasoline) and BTEX are in parts per million. ND = Not Detected



Envir 4185 Pittst (510) Fax	PAR onmen Rialto burg, ( 4 (510)	KER tal Se Court CA 94 39-102 439-	rvices t 4565 4 2566		CH. Joh: Client: Location:	AIN OF 12-8 60 Me Campb Doughs for	CUST EU Ano rking 1	TODY FO	St Cak and	Date August 7 1992	
Sample Number	Soil	Type Water	Timé	TPH	9 BTEX	Analysis Re Oil & Grease	squested 8240	Metals (list)	Other	Ren	
4-1	7		129	V	V				· · · · · · · · · · · · · · · · · · ·		
1-2			1:58	~							
<u>L-3</u>	~		J:04	~		<u>1</u> .					4
<u>T-1</u>	K		2:19		V				· · · · · · · · · · · · · · · · · · ·		4
[-4	-		2:28	$\checkmark$							<b> </b> ·
T=2	_		2:35	~	~						4
6-5	L.		7:38	L	L		-				4
L-6		·	2:45	~							_
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							HEAD S	ACE ABSERT	CONTAINERS		
Sampler	Name (	Print)	J(m	PAR	KER		Se	mpler Signatum	Jin Par	ke	
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MCCAMPBELL ANALYTICAL INC.

Barnahe &	Brinker	Cli	ent Project I	D: Douglas	Parking, 172	Date Sampl	ed: 08/03/92	
1281 30th St	reet	We	bster Street,	Oakland		Date Recei	ved: 08/03/92	;
Oakland, C.	A 94608	cii	ent Contact:	Jim Brinker,	Ernic Bernab	e Date Extra	sted: 08/04/9	2
		Cli	ent P.O:	<u> </u>		Date Analy	zcd: 08/04-00	3/05/92
		Low Bo	iling Point (	C6-C12) TPI	l* as Gasolin	e and BTEX*	(5030)	
EPA methods Lab ID	5030, modified i	Matrix	020 or 602; Cali TPH(G) <sup>+</sup>	Benzene	Toluene	Ethyl Ben- zene	Xylenes	% Rec. Sur- rogate
105846	L-1	s	2.6,b,g	ND	0.010	ND	0.030	99
105847	L-2	s	ND /	ND	ND	ND	ND	103
105848	Le3	s	ND	ND	ND	ND	ND	102
105849	T-1	S	150,a,b	2.2	2.9	1.8	13	100
105850	L-4	s	ND /	ND	ND	ND	ND	103
105851	 T-2	s	120,c /	0.62	0.56	0.87	2.2	94
105852	L-5	s	8.2,5	0.010	0.020	0.012	0.092	98
105853	L-6	s	ND,b	ND	0.007	ND	0.034	99
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	-							
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Detection	n Limit unless	w	50 ug/L	0.5	0.5	0.5	0.5	
otherwis means N	c stated; ND lot Detected	s	1.0 mg/kg	0.005	0.005	0.005	0.005	

"water samples are reported in ug/L and soils in mg/kg

"cluttered chromatogram; sample peak co-clutes with surrogate peak

<sup>+</sup> The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gasoline compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) gasoline range compounds predominate; no recognizable pattern; I) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.



MCCAMPBELL ANALYTICAL INC.

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

Remabe & E		Clie	ent Project I	D: Douglas	Parking; 172	1 Date Sampl	cd: 08/06/92	
1281 30th St	reel	We	bster Street,	Oakland		Date Recei	ved: 08/06/92	2
Oakland, CA	<b>\ 94608</b>	Cli	ent Contact:	Jim Brinker,1	Ernie Bernat	e Date Extra	rted: 08/06/9	2
		Cli	ent P.O:			Date Analy	zed: 08/07-0	8/08/92
		Low Bo	iling Point (	C6-C12) TPH	I* as Gasolli	te and BTEX*	(5030)	
HPA methods	5030, modified 8	<u>x015, and B</u> 	020 or 602; Calli	tornia RWQCB	(SF Bay Region	Behad Dar	Yulenec	% Rec. Sur-
Lab ID	Client ID	Matrix	TPH(G) <sup>+</sup>	Benzene	Toluene	zene	11101103	rogate
105868	T-3	s	580,b 🗸	1.7	5.9	5.6	43	101
105869	T-4	s	1500,a /	11	140	. 48	280	99
105870	T5	s	410,a -	6.7	22	6.2	35	105
105871	т6	s	1400,a 🗸	12	71	29	150	96
105872	<b>T</b> 7	s	2.3,a	0.11	0.19	0.050	0.31	100
105873	SW1	s	280,a /	2.9	5.8	3.2	15	100
105874	sw2	s	1500,a	5.7	40	18	150	98
105875	SW3	s	400,a	2,7	5.8	4.0	21	103
105876	SW4	s	2.3,a /	0,42	0.028	0.077	0.18	99
105877	Ci	s	560,b /	ND<0.1	5.0	3.1	24	111
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	+	+	+				,	
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Detection	Limit unless	w.	50 ug/L	0.5	0.5	0.5	0.5	
otherwise means N	e stated; ND	s	1.0 mg/kg	0.005	0.005	0.005	0.005	ţ
means N	lot Detected	s	1.0 mg/kg	0.005	0.005	0.005	0.005	

\*water samples are reported in ug/L and soils in mg/kg

<sup>#</sup>cluttered chromatogram, sample peak co-elutes with surrogate peak

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Edward Hamilton, Lab Director

# CHAIN OF CUSTODY FORM

DOUGLAS PARKING

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Fax	(510)	439-2	2566		ocation:	1721 Web	ster S	treet Oakli	and		ate Aug	ust 6, 1992	
Sampie		Туре				Analysis Re	equested	** · _ · _ #* _ 41	Other	Ba	Marie		
Number	Soil	Water	Time	-11914- 	9 BTEX	Oil & Grease	8240	Metals (nst)					
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August 12, 1992

Project 128-6

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The native soil was brought to the surface in the backhoe bucket, where a 2 inch diameter 6 inch long brass sample tube was hammered into the undisturbed soil. Aluminum foil was placed over the tube ends, then plastic caps. Each sample was labeled and placed in a zip lock bag on ice in a portable cooler for transport to a State certified hazardous materials analysis laboratory, McCampbell Analytical, Pacheco, CA. Sample locations are shown in the attached site drawing. Sample information was entered on a chain of custody form (attached) as each sample was completed.

The samples from beneath the gas pumps were two feet from the surface, and the product line samples were 1.5 to 2.0 feet beneath the surface. These samples were obtained by hand augering to the appropriate depth, and then using a slide hammer to drive the sample tube into the soil. Each tube was wrapped, labeled and transported as described above.

**Recycled Paper** 

Mr. Jim Brinker August 12, 1992 Page 2

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We are forwarding a copy of this report and attachments to Alameda County, Oakland City Fire Department and Mr. Lee Douglas as you requested.

Sincerely, PARKER ENVIRONMENTAL SERVICES

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James D. Parker President

Attachments

CC:

Alameda County Health Services, Environmental Health Division / City of Oakland Fire Department Mr. Lee Douglas, Douglas Parking

Parker Environmental Services, 4185 Rialto Court, Pittsburg, CA 94565-6116 Phone (510) 439-1024 Fax (510) 439-2566

#### Douglas Parking 1721 Webster Street, Oakland, California Soil Sample Analysis Results\* Samples Collected on August3 and 6, 1992

Sample Number	Depth	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes
Samples F	rom Benea	ith the Tan	ks			
T-1	9'	150	2.2	2.9	1.8	13
T-2	9'	1 <b>20</b>	0.62	0.56	0.87	2.2
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Composite	d Sample	from the so	oil pile			
C1	1.5′	560	ND<0.1	5.0	3.1	24
Samples fr	rom the lir	ne and pum	p trenches			
L-1	1.5′	2.6	ND	0.010	ND	0.030
L-2	1.5'	ND	ND	ND	ND	ND
L-3	1.5′	ND	ND	ND	ND	ND
L-4 ·	1.5′	ND	ND	ND	ND	ND
L-5	2.0'	8.2	0.010	0.020	0.012	0.092
L-6	2.0′	ND	ND	0.007	ND	0.034

\* TPH (as gasoline) and BTEX are in parts per million. ND = Not Detected

Parker Environmental Services, 4185 Rialto Court, Pittsburg, CA 94565-6116 Phone (510) 439-1024 Fax (510) 439-2566





McCAMPBELL ANALYTICAL INC.

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

Bernabe &	Brinker	Cļi	ent Project	ID: Douglas	Parking, 172	1 Date Sampl	led: 08/03/92	
1281 30th St	reet	We	bster Streel,	, Oakland		Date Recei	ved: 08/03/92	2
Oakland, C	A 94608	Cli	ent Contact:	Jim Brinker,	Ernic Bernat	e Date Extra	cted: 08/04/9	2
		Cli	ent P.O:	······································	, ,	Date Analy	zcd: 08/04-0	8/05/92
	<u></u>	Low Bo	lling Point	(C6-C12) TPI	l* as Gasolii	and BTEX	(5030)	
LIPA methods Lab ID	S030, modified t Client ID	Matrix	TPH(G) <sup>+</sup>	Benzene	Tolucne	Ethyl Ben- zeno	Xylencs	% Rec. Sur- rogate
105846	L-1	s	2.6,b,g	ND	0.010	ND	0.030	99
105847	L-2	s	ND	ND	ND	ND	ND	103
105848	L-3	s	ND	ND	ND	ND	ND	102
105849	T-1	s	150,a,b	2.2	2.9	1.8	13	100
105850	L-4	s	ND	ND	ND	ND	ND	103
105851	T-2	s	120,c	0.62	0.56	0.87	2.2	94
105852	L-5	S	8.2,b	0.010	0.020	0.012	0.092	98
105853	L-6	s	ND,b	ND	0.007	ND	0.034	99
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Dete -t'	1 incle	11/	50 ma/T	0.5	0.5	0.5	0.5	
otherwise means N	e stated; ND ot Detected	s v	1.0 mg/kg	0.005	0.005	0.005	0.005	

\*water samples are reported in ug/L and soils in mg/kg

<sup>#</sup>cluttered chromatogram; sample peak co-clutes with surrogate peak

<sup>+</sup> The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gasoline compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) gasoline range compounds predominate; no recognizable pattern; 1) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.

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Edward Hamilton, Lab Director

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Pitts	burg, (	CA 9	、 4565		Job:	1286	·····			
(510 Fax	) 4 (510)	39-102 439-	4 2566	·	Client: Location:	Me Came Douglas	Deil An	aly fical		
Sample Number	Soil	Type Water	Time	HTT	-9 BTEX	Analysis / Oil & Greas	Requested 8 8240	Metais (list)	other	Date August 3, 1992
6-1	1		199	V	V		1			
1-2	1		1:58	~	V		┼────	· · ·		
L-3	~		1:04	~	~					
T-1	V		2:19	V	$\nu$					
1-4			2:28	$\checkmark$	/		<u> </u>			
T=2	-		2:35	~	~					
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MCCAMPBELL ANALYTICAL INC.

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

		Cli	ent Project II	): Douglas I	Parking; 172	Date Sample	ed: 08/06/92	
sernabe & B 281 30th Str	eet	We	bster Street, C	)akland		Date Receiv	ved: 08/06/92	
hand CA	94608	Cli	ent Contact: J	im Brinker,F	Ernie Bernab	e Date Extrac	xed: 08/06/92	2
Jakiana, Cr			ent P.O:	·····		Date Analy	zed: 08/07-08	/08/92
		Low Bo	iling Point (C	6-C12) TPH	l* as Gasolin	e and BTEX*	(\$/90)	
PA methods	suzu, modified 8	015, and 8	020 or 602; Califo	mia RWQCB	(SF Bay Region)	Rehod Ben-	Xvlencs	% Rec. Sur-
Lab ID	Client ID	Matrix	TPH(G) <sup>+</sup>	Benzenc	Toluene	zene		rogate
105969	Т-3	S	580,b	1.7	5.9	5.6	43	101
102000	T-4	S	1500.a	11	140	. 48	280	99
105869	1.4		410.a	6.7	22	6.2	35	105
105870	15		1400 a	12	71	29	150	96
105871	16		23.8	0.11	0.19	0.050	0.31	100
105872	T7		290 0		5.8	3.2	15	100
105873	SW1	<u> </u>	250,a	<u> </u>	40	18	150	98
105874	SW2	S	1500,a	2.7		4.0	21	103
105875	SW3	<u>s</u>	400,a	2.1	0.009	0.077	0.18	99
105876	SW4	S	2.3,a	0.42	0.028		24	111
105877	Cl	S	560,b	ND < 0.1	5.0	3.1		
				i				
			50 ug/L	0.5	0.5	0.5	0.5	
otherwis	se stated; ND		1.0 mg/kg	0.005	0.005	0.005	0.005	
means I	Not Detected		1.0 0.6 10		<u> </u>	<u> </u>		

\*water samples are reported in ug/L and soils in mg/kg

cluttered chromatogram; sample peak co-elutes with surrogate peak

<sup>+</sup> The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gasoline compounds); d) neavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); c) gasoline range compounds predominate; no recognizable pattern; I) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.

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Edward Hamilton, Lab Director

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											- e <sup>1</sup> 2, 11 A	X
Enviro	PAR	KER tal Se	rvices		СН	AIN OF	CUST	TODY FO	ORM	Dou	ELAS PARKING	•
4185 Dittab	Rialto		t Refe			1286						
(510)	uiy, t 4	39-102-	4 ·		lient:	McCamp	bell /	Inalytical		i		
Fax	(510)	439-2	2566	L	ocation:	1721 Web	ster-S	treet, Oakl	and		Date August 6	,1992
Sampie Number	Soil	Type Water	Time	TPH-	9 STEX	Analysis R Oil & Grease	equested 8240	Metais (list)	Other		Remarks	
-7	V	-	2-53	V	~			BRG. LEAD			E PICK HIGEST TH	HAR
-4	V		2:59		1			1			ORGANIC LEAD	,
5	~		3:05	~	V						ANALYSIS	
6	~		4:06	V								·
17	~		4:14	V	~							
3001	V		4,18	~	1							
5002	V		4:30	~	V		<b> </b>					
sw3	/		4:37	/			ļ					·
w4			444	r								
~ 1	¥		507	V	6			ATT.			OMPOSITE	
							K	₽ <u></u>	P	RESERVAT		
							- U H	D SPACE ABS		PPROPRIA ONT AMER		
Sampler	Name	(Print)	JIM	PAK	KER		S	ampier Signal	uro fin	hart		
einquish	ad By:	Date and	Time	Fiex	aived By:	Date and Time	e Sar	npling Site Sket	ch	we	BOACK SUTTO	17
n tar	ed By:	5-42. Date and	<u>CilO</u> Time	Re	ceived By:	Date and Time	6			17	- FA	1
elinquish	ed By:	Date and	f Time	Re	ceived By:	Date and Tim	e		502			+T 5
•	ort Riv-	Date and	Time	Re Re	caived By:	Date and Tim	<b>→</b> >		v		(T-4 (m))	

Sec. 1.