



November 12, 1997

Mr. Lee Douglas  
Douglas Parking  
1721 Webster Street  
Oakland, California 94612

Re: **Third Quarter 1997 Semi-Annual Monitoring Report**  
Douglas Parking  
1721 Webster Street  
Oakland, California

Dear Mr. Douglas:

This report summarizes the third quarter 1997 semi-annual ground water monitoring results for the site referenced above (Figure 1). Described below are the third quarter 1997 activities, the anticipated future activities, and the current hydrocarbon distribution in ground water.

### **THIRD QUARTER 1997 ACTIVITIES**

**Ground Water Sampling:** On September 16, 1997, Cambria collected and analyzed ground water samples from wells MW-2, MW-3, MW-4 and MW-5 for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE). Cambria also gauged all site wells and checked for separate-phase hydrocarbons (SPH). No SPH were detected. The analytic report for ground water is included in Attachment A.

### **ANTICIPATED FUTURE ACTIVITIES**

**Ground Water Sampling:** The next sampling event is scheduled for the first quarter of 1998. At that time, Cambria will gauge all site wells, check for SPH, and collect and analyze ground water samples from wells MW-2, MW-3, MW-4 and MW-5 for TPHg, BTEX and MTBE. Cambria will prepare a report summarizing these activities.

CAMBRIA

ENVIRONMENTAL

TECHNOLOGY, INC.

1144 65TH STREET,

SUITE B

OAKLAND,

CA 94608

PH: (510) 420-0700

FAX: (510) 420-9170

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Mr. Lee Douglas  
November 12, 1997

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## HYDROCARBON DISTRIBUTION IN GROUND WATER

Ground water elevation data indicates that ground water flows towards the north-northeast with a gradient of 0.006 ft/ft (Figure 1). Consistent with historic data, hydrocarbons were detected in wells MW-2, MW-3 and MW-4. Benzene was only detected in MW-2 which is located immediately down gradient of the former underground storage tank (UST) area. The down gradient extent of hydrocarbons in ground water is defined to below method detection and reporting limits by well MW-5.

## CLOSING

We appreciate this opportunity to provide environmental consulting services to Douglas Parking. Please call if you have any questions or comments.

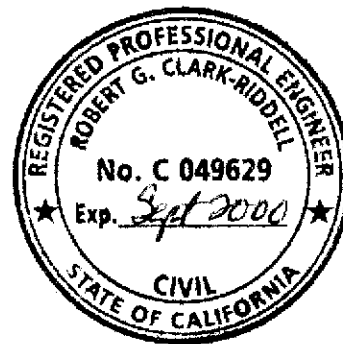
Sincerely,  
**Cambria Environmental Technology, Inc.**



Maureen D. Feineman  
Staff Geologist



Bob Clark-Riddell, PE  
Principal Engineer



Attachment: A - Analytic Report for Ground Water Sampling

cc: Tom Peacock, ACDEH, UST Local Oversight Program, 1131 Harbor Bay Parkway,  
2nd Floor, Alameda, CA 94502

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# CAMBRIA

**Table 1. Ground Water Elevation and Analytic Data - Douglas Parking Company, 1721 Webster Street, Oakland, CA**

Well ID	Date	Well	G W	G W	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
		Elev. (ft)	Depth (ft)	Elev. (ft)							
(Concentrations in ug/l)											
MW-1	12/02/94	29.25	19.42	9.83	nd	nd	nd	nd	nd	-	1
	03/06/95	29.73	20.69	9.04	nd	nd	nd	nd	nd	-	1
	07/11/95	29.81	20.65	9.16	nd	nd	nd	nd	nd	-	
	05/10/96	29.81	20.80	9.01	nd	nd	nd	nd	nd	-	
	10/02/96	29.81	21.35	8.46	-	-	-	-	-	-	not sampled, 2
	02/28/97	29.81	20.57	9.24	-	-	-	-	-	-	not sampled, 2
	02/16/97	29.81	21.50	8.51	-	-	-	-	-	-	not sampled, 2
MW-2	12/02/94	27.10	19.50	7.60	61,300	3,000	3,900	160	4,500	-	1
	03/06/95	27.10	18.49	8.61	98,000	8,400	16,000	2,000	2,600	-	1
	07/11/95	27.40	18.45	8.95	38,000	3,100	7,500	940	3,700	-	a
	05/10/96	27.40	18.56	8.84	63,000	7,400	16,000	1,500	6,000	-	a
	10/02/96	27.40	19.15	8.25	21,000	2,200	3,400	430	1,600	-	a
	02/28/97	27.40	18.43	8.97	39,000 ~	4,700 ~	9,600 ~	950 ~	4,200 ~	nd	a
	02/16/97	27.40	18.22	8.81	29,000	3,800	5,300	690	2,900	nd	a
MW-3	12/02/94	29.50	22.15	7.35	394,000	1,200	nd	1,800	4,000	-	1
	03/06/95	29.25	20.09	9.16	21,000	400	150	24	62	-	1
	07/11/95	29.56	19.99	9.57	12,000	nd	10	16	99	-	b,c,d
	05/10/96	29.56	20.24	9.32	8,600	nd	7.6	16	84	-	b,d
	10/02/96	29.56	20.90	8.66	11,000	nd	7.4	19	92	-	b,d
	02/28/97	29.56	20.12	9.44	6,000 ↓	nd	4.4 ↓	17 ↓	88 ↓	50	b,d
	02/16/97	29.56	20.51	8.92	6,600	<0.5	0.65	1.2	67	<10	b,d
MW-4	05/10/96	25.29	16.98	8.31	14,000	nd	1,200	720	3,100	-	b
	10/02/96	25.29	17.65	7.64	12,000	nd	650	580	2,200	-	b,d
	02/28/97	25.29	16.80	8.49	13,000 ~	nd	1,100 ~	750 ~	2,700 ~	110	b,d
	02/16/97	25.29	17.93	7.56	13,000	nd	620	750	2,900	<100	b
MW-5	05/10/96	21.97	14.60	7.37	nd	nd	nd	nd	nd	-	
	10/02/96	21.97	15.25	6.72	nd	nd	nd	nd	nd	-	
	02/28/97	21.97	14.31	7.66	nd	nd	nd	nd	nd	nd	
	02/16/97	21.97	15.13	6.97	nd	nd	nd	nd	nd	nd	

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		Elev. (ft)	Depth (ft)	Elev. (ft)			(Concentrations in ug/l)				

**Notes and Abbreviations:**

Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8020.

G W = Ground water

TPHg = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015.

MTBE = methyl tertiary butyl ether per Modified EPA Method 8020.

Elev. = Elevation

µg/L = micrograms per liter

1 = Data prior to 7/11/95 from Gen Tech and Piers Environmental Quarterly Groundwater Monitoring Reports dated December 2, 1994 and March 6, 1995, respectively.

2 = Per letter dated September 17, 1996 to Douglas Parking from ACDEH, sampling no longer required in well MW-1.

a = Unmodified or weakly modified gasoline is significant

b = Analytic laboratory reports that heavier gasoline range compounds are significant (possible aged gasoline)

c = Analytic laboratory reports that lighter gasoline range compounds (the most mobile fraction) are significant

d = Analytic laboratory reports that gasoline range compounds having broad chromatographic peaks are significant; possible biologically altered gasoline

e = no recognizable pattern.

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**ATTACHMENT A**

Analytic Report for Ground Water Sampling



McCAMPBELL ANALYTICAL INC.

110 Second Avenue South, #D7, Pacheco, CA 94553  
Telephone : 510-798-1620 Fax : 510-798-1622  
<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

Cambria Environmental Technology 1144 65 <sup>th</sup> Street, Suite C Oakland, CA 94608	Client Project ID: #58-197-6; Douglas Parking	Date Sampled: 09/16/97
		Date Received: 09/18/97
	Client Contact: John Espinoza	Date Extracted: 09/18/97
	Client P.O:	Date Analyzed: 09/18/97

09/25/97

Dear John:

Enclosed are:

- 1). the results of 4 samples from your #58-197-6; Douglas Parking 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,

Edward Hamilton, Lab Director



## QC REPORT FOR HYDROCARBON ANALYSES

Date: 09/18/97

Matrix: Water

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample # (80830)	MS	MSD		MS	MSD	
TPH (gas)	0.0	100.4	100.7	100.0	100.4	100.7	0.3
Benzene	0.0	10.1	10.7	10.0	101.0	107.0	5.8
Toluene	0.0	10.2	10.7	10.0	102.0	107.0	4.8
Ethyl Benzene	0.0	10.3	10.7	10.0	103.0	107.0	3.8
Xylenes	0.0	31.1	32.4	30.0	103.7	108.0	4.1
TPH(diesel)	0	142	145	150	94	97	2.2
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

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



## QC REPORT FOR HYDROCARBON ANALYSES

Date: 09/19/97

Matrix: Water

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample # (80890)	MS	MSD		MS	MSD	
TPH (gas)	0.0	104.3	99.7	100.0	104.3	99.7	4.6
Benzene	0.0	10.8	10.9	10.0	108.0	109.0	0.9
Toluene	0.0	10.8	10.8	10.0	108.0	108.0	0.0
Ethyl Benzene	0.0	10.8	10.9	10.0	108.0	109.0	0.9
Xylenes	0.0	32.8	32.7	30.0	109.3	109.0	0.3
TPH (diesel)	0	144	143	150	96	95	0.4
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

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

9461 XC207

**McCAMPBELL ANALYTICAL**

110 2nd AVENUE, # D7

PACHECO, CA 94663

(610) 700-1620

FAX (610) 700-1028

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME:  RUSH  24 HOUR  48 HOUR  5 DAY

REPORT TO: John Espinoza BILL TO: Same

COMPANY: Cambria Environmental Technology

1144 65th St, Suite C

Oakland, CA 94608

TELE: 510-420-0700 FAX #: 420-9170

PROJECT NUMBER: 58-197-6 PROJECT NAME: Douglas Parking

PROJECT LOCATION: 1721 Webster St. Oakland SAMPLER SIGNATURE: Maureen Feineman

**ANALYSIS REQUEST**

**OTHER**

STEEL & TPH AS GASOLINE C602/8028	
TPH AS DIAMINE C8028	
Total Petroleum Oil & Grease C5328	
Total Petroleum Hydrocarbons C41810	
EPA 601/8016	
EPA 602/8028	
EPA 608/8088	
EPA 609/8098 - PCBs Only	
EPA 624/8240/8280	
EPA 625/8270	
CAN - 17 Metals	
EPA - Priority Pollutant Metals	
LEAD C748/7480/2592/8010	
ORGANIC LEAD	
PC	

**COMMENTS**

80901  
80902  
80903  
80904

+3  
+4  
+3

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED					
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	OTHER			
MW-2	48	9/16/97		3	VOA	X										
MW-3				3	VOA	X										
MW-4				3	VOA	X										
MW-5				3	VOA	X										

RELINQUISHED BY: Maureen Feineman	DATE: 9/18/97	TIME: 12:40	RECEIVED BY: [Signature]
RELINQUISHED BY: [Signature]	DATE: 9/18/97	TIME: 1445	RECEIVED BY: Milemic MAI
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY LABORATORY:

REMARKS:

ICE/GOOD CONDITION HEAD SPACE ABSENT

PRESERVATION APPROPRIATE CONTAINERS

VOAS  O&G  METALS  OTHER