

C A M B R I A

ENVIRONMENTAL
PROTECTION

May 17, 2000

00 MAY 25 AM 10:36

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

Re: **Second Quarter 2000 Monitoring Report**

Douglas Parking
1721 Webster Street
Oakland, California
Cambria Project# 580-0197



Dear Mr. Douglas:

This report summarizes the second quarter 2000 groundwater monitoring results for the above-referenced site. Described below are the second quarter 2000 activities, the hydrocarbon distribution in groundwater, and the anticipated third quarter activities.

SECOND QUARTER 2000 ACTIVITIES

Groundwater Sampling: On April 6, 2000, Cambria collected and analyzed groundwater samples from all site wells for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tert-butyl ether (MTBE), and dissolved oxygen (DO) concentrations. Cambria also gauged all site wells and inspected the wells for separate-phase hydrocarbons (SPH). No SPH were detected. The groundwater elevation and analytical data are summarized in Table 1. The laboratory analytical report for groundwater is included as Attachment A. Well sampling forms are included as Attachment B.

Remedial Action: Cambria installed one co-axial soil vapor extraction/ biosparging well and two angled biosparging wells in accordance with our August 13, 1999 *Remedial Evaluation and Revised Remedial Workplan*. Cambria completed the underground conduit trenching from the well vaults to the garage entrance along Webster Street.

Oakland, CA
San Ramon, CA
Sonoma, CA
Portland, OR

**Cambria
Environmental
Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

HYDROCARBON DISTRIBUTION IN GROUNDWATER

Groundwater elevation data indicate that groundwater flows towards the north-northeast with a gradient of 0.006 ft/ft (Figure 1). Consistent with historical site data, hydrocarbons were detected in wells MW-2, MW-3 and MW-4. **The maximum detected benzene concentration was 1,800 micrograms per liter (ug/l), in the downgradient well MW-2.** Benzene was also detected at 1.5 ug/l and 31 ug/l in wells MW-3 and MW-4, respectively. The hydrocarbon concentrations in these wells continue to demonstrate an overall decreasing trend. The extent of hydrocarbons in groundwater is defined to below method reporting limits in the northern, crossgradient direction by well MW-1 and in the downgradient direction by well MW-5.



ANTICIPATED THIRD QUARTER ACTIVITIES

Groundwater Sampling: As requested by the ACDEH, Cambria will perform groundwater monitoring on a quarterly basis. During each monitoring event, Cambria will gauge all site wells, inspect for SPH, and collect and analyze groundwater samples from wells MW-2, MW-3, MW-4 and MW-5 for TPHg, BTEX, MTBE and DO. If MTBE is detected in wells MW-2 or MW-4, concentrations will be confirmed using EPA Method 8260. Cambria will summarize the quarterly monitoring activities in a written report.

Remedial Action: Cambria is preparing a *Feasibility Test Workplan* for regulatory and UST Cleanup Fund approval. Upon completion of the feasibility testing, Cambria will present our findings in a *Remediation Well Installation and Feasibility Test Report*.

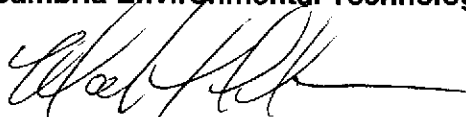
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Mr. Lee Douglas
May 17, 2000


CLOSING

Cambria appreciates the opportunity to provide environmental services to Douglas Parking. If you have any questions or comments, please call John Riggi at (510) 420-3340 or call Bob Clark-Riddell at (510) 420-3303.

Sincerely,
Cambria Environmental Technology, Inc.



Mark Erickson
Staff Engineer



Bob Clark-Riddell, PE
Principal Engineer



Attachments: A - Laboratory Analytical Report
B - Well Sampling Forms

cc: Larry Seto, Alameda County Department of Environmental Health, 1131 Harbor Bay Parkway, 2nd Floor, Alameda, CA 94502

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EXPLANATION

- Groundwater Monitoring Well
- Soil Boring Location
- | | |
|---------|---|
| Well | Well ID |
| ELEV | Groundwater Elevation |
| Benzene | Benzene Conc. in Groundwater in parts per billion (ppb) |
- 7.50 Groundwater Elevation Contour (ft)
- Groundwater Flow Direction and Gradient (ft/ft)

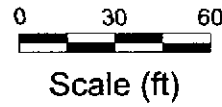
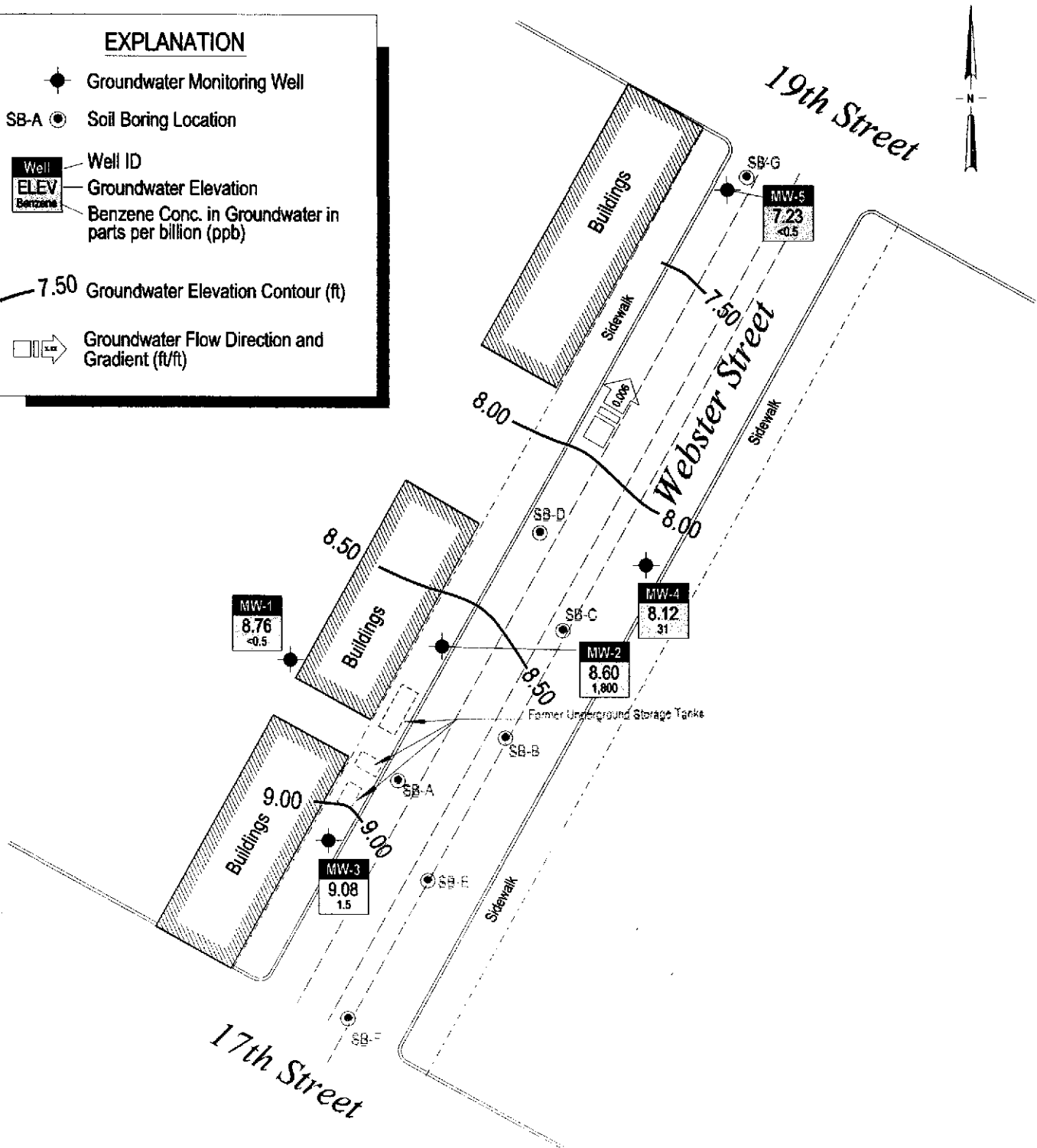


FIGURE
1

H:\SB-2004\DOUGLAS\1721 Webster\FIGURES\20400-MP.DWG

Base map from Piers Environmental Services

Douglas Parking Facility
1721 Webster Street
Oakland, California



Groundwater Elevation Contour Map
April 6, 2000

CAMBRIA

Table 1. Groundwater Elevation and Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, CA

Well ID	Date	TOC Elevation (ft-msl)	Depth to Water (ft)	Groundwater Elevation (ft)	(Concentrations in µg/l)						DO (mg/L)	Notes
					TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE		
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	-	-	-	-	-	-	-	2
	02/28/97	29.81	20.57	9.24	-	-	-	-	-	-	-	2
	09/16/97	29.81	21.50	8.31	-	-	-	-	-	-	-	2
	02/05/98	29.81	20.91	8.90	-	-	-	-	-	-	1.9	2
	08/11/98	29.81	20.50	9.31	-	-	-	-	-	-	0.1	2
	02/08/99	29.81	21.42	8.39	-	-	-	-	-	-	6.0	2, 3
	02/24/99	29.81	22.99	6.82	-	-	-	-	-	-	2.0	2, 3
	03/03/99	29.81	20.84	8.97	-	-	-	-	-	-	3.8	2, 3
	03/10/99	29.81	20.89	8.92	-	-	-	-	-	-	3.4	2, 3
	03/17/99	29.81	20.84	8.97	-	-	-	-	-	-	2.8	2, 3
	05/04/99	29.81	20.80	9.01	-	-	-	-	-	-	3.5	2, 3
	07/20/99	29.81	21.25	8.56	-	-	-	-	-	-	3.1	2, 3
	10/05/99	29.81	21.37	8.44	-	-	-	-	-	-	5.4	2, 3
01/07/00	29.81	21.65	8.16	-	-	-	-	-	-	2.1	2, 3	
04/06/00	29.81	21.05	8.76	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	3.9	3, 4
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	-	-	
	05/10/96	27.40	18.56	8.84	63,000	7,400	16,000	1,500	6,000	-	-	
	10/02/96	27.40	19.15	8.25	21,000	2,200	3,400	430	1,600	-	-	
	02/28/97	27.40	18.43	8.97	39,000	4,700	9,600	950	4,200	nd	-	
	09/16/97	27.40	19.26	8.14	29,000	3,300	5,800	690	2,900	<620	-	
	02/05/98	27.40	18.66	8.74	10,000	1,000	2,000	170	860	<330	7.9	
	08/11/98	27.40	18.41	8.99	12,000	1,200	2,300	260	1,400	300	5.4	
	02/08/99	27.40	19.84	7.56	5,500	740	1,200	150	780	60	3.7	
	02/17/99	27.40	18.94	8.46	-	-	-	-	-	-	>20	3, 5
02/24/99	27.40	20.76	6.64	-	-	-	-	-	-	>20	3, 5	
03/03/99	27.40	18.55	8.85	-	-	-	-	-	-	>20	3, 5	
03/10/99	27.40	20.74	6.66	-	-	-	-	-	-	>20	3, 5	
03/17/99	27.40	18.57	8.83	-	-	-	-	-	-	>20	3, 5	

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Table 1. Groundwater Elevation and Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, CA

Well ID	Date	TOC Elevation (ft-msl)	Depth to Water (ft)	Groundwater Elevation (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO (mg/L)	Notes
	05/04/99	27.40	18.55	8.85	90,000	9,200	21,000	1,600	10,000	560	3.2	
	07/20/99	27.40	18.98	8.42	28,000	2,100	3,700	900	4,200	<860	0.6	
	10/05/99	27.40	19.10	8.30	11,000	870	180	30	1,400	<110	0.6	
	01/07/00	27.40	19.41	7.99	15,000	1,300	2,100	440	1,800	<14	0.9	
	04/06/00	27.40	18.80	8.60	17,000	1,800	3,100	500	2,200	<50	0.6	
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	-	-	
	05/10/96	29.56	20.24	9.32	8,600	nd	7.6	16	84	-	-	
	10/02/96	29.56	20.90	8.66	11,000	nd	7.4	19	92	-	-	
	02/28/97	29.56	20.12	9.44	6,000	nd	4.4	17	88	50	-	
	09/16/97	29.56	20.97	8.59	6,500	<0.5	1	1	7	<5.0	-	
	02/05/98	29.56	20.39	9.17	5,400	<0.5	6.3	15	86	<63	1.9	
	08/11/98	29.56	19.95	9.61	2,700	<0.5	3.5	3.2	12	<10	0.1	
	02/08/99	29.56	20.58	8.98	6,100	<0.5	8.1	18	80	<140	2.2	
	02/17/99	29.56	20.53	9.03	-	-	-	-	-	-	>20	3, 5
	02/24/99	29.56	22.53	7.03	-	-	-	-	-	-	>20	3, 5
	03/03/99	29.56	20.28	9.28	-	-	-	-	-	-	>20	3, 5
	03/10/99	29.56	22.45	7.11	-	-	-	-	-	-	>20	3, 5
	03/17/99	29.56	20.26	9.30	-	-	-	-	-	-	>20	3, 5
	05/04/99	29.56	20.24	9.32	11,000	<2	<2	9.8	140	<10	3.1	
	07/20/99	29.56	20.68	8.88	11,000	<0.5	3.1	13	88	<80	0.8	
	10/05/99	29.56	20.81	8.75	31,000	62	<0.5	21	170	<90	0.7	
	01/07/00	29.56	21.09	8.47	13,000	<0.5	<2	21	140	<80	2.0	
	04/06/00	29.56	20.48	9.08	5,300	1.5	1.4	9.8	60	<30	4.2	
MW-4	05/10/96	25.29	16.98	8.31	14,000	nd	1,200	720	3,100	-	-	
	10/02/96	25.29	17.65	7.64	12,000	nd	650	580	2,200	-	-	
	02/28/97	25.29	16.80	8.49	13,000	nd	1,100	750	2,700	110	-	
	09/17/97	25.29	17.93	7.36	13,000	<2.5	820	750	2,900	<190	-	
	02/05/98	25.29	16.78	8.51	13,000	<1.0	690	690	2,900	<170	2.1	
	08/11/98	25.29	16.59	8.70	15,000	<5	360	520	1,900	280	2.8	
	02/08/99	25.29	17.10	8.19	9,800	<5	680	770	2,200	300	1.8	3
	02/24/99	25.29	18.95	6.34	-	-	-	-	-	-	2.2	3

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Table 1. Groundwater Elevation and Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, CA

Well ID	Date	TOC Elevation (ft-msl)	Depth to Water (ft)	Groundwater Elevation (ft)	TPHg	-----<----- (Concentrations in µg/l) ----->-----					DO (mg/L)	Notes	
						Benzene	Toluene	Ethylbenzene	Xylenes	MTBE			
	03/03/99	25.29	16.80	8.49	-	-	-	-	-	-	4.6	3	
	03/10/99	25.29	16.86	8.43	-	-	-	-	-	-	3.7	3	
	03/17/99	25.29	16.82	8.47	-	-	-	-	-	-	4.3	3	
	05/04/99	25.29	16.86	8.43	11,000	46	600	620	1,900	<100	4.1		
	07/20/99	25.29	17.30	7.99	13,000	<0.5	470	7.0	2,000	<150	0.4		
	10/05/99	25.29	17.43	7.86	18,000	4.4	720	800	2,100	<120	0.7		
	01/07/00	25.29	17.78	7.51	18,000	<2	930	990	2,700	<30	1.0		
	04/06/00	25.29	17.17	8.12	8,000	31	390	530	1,300	<10	1.3		
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	-		
	09/17/97	21.97	15.18	6.79	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	-		
	02/05/98	21.97	13.64	8.33	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.8		
	08/11/98	21.97	13.92	8.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.1		
	02/08/99	21.97	14.19	7.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0	3.0		
	02/24/99	21.97	16.18	5.79	-	-	-	-	-	-	4.9	3	
	03/03/99	21.97	14.23	7.74	-	-	-	-	-	-	3.4	3	
	03/10/99	21.97	14.32	7.65	-	-	-	-	-	-	3.6	3	
	03/17/99	21.97	14.25	7.72	-	-	-	-	-	-	3.9	3	
	05/04/99	21.97	14.41	7.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0	3.2		
	07/20/99	21.97	14.44	7.53	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.0		
	10/05/99	21.97	14.79	7.18	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.5		
	01/07/00	21.97	15.23	6.74	-	-	-	-	-	-	-	Well inaccessible	
		04/06/00	21.97	14.74	7.23	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.7	

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Table 1. Groundwater Elevation and Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, CA

Well ID	Date	TOC Elevation (ft-msl)	Depth to Water (ft)	Groundwater Elevation (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO (mg/L)	Notes
					<------(Concentrations in µg/l)----->							

Notes and Abbreviations:

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

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

MTBE = methyl tertiary butyl ether by EPA Method 8020.

µg/L = micrograms per liter

mg/L = milligrams per liter

ft-msl = feet above mean sea level

TOC = top of casing

nd = not detected

DO = dissolved oxygen

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 = Sampling no longer required in well MW-1 per September 17, 1996, ACDEH letter to Douglas Parking.

3 = DO monitoring event (no hydrocarbon analyses), as described in November 11, 1998 Remedial Workplan.

4 = Sampled well once to confirm well is still not impacted.

5 = Hydrogen peroxide injection occurring per our Remedial Workplan, dated November 11, 1998.

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ATTACHMENT A

Laboratory Analytical Report



McCAMPBELL ANALYTICAL INC.

110 2nd Ave. South, #D7, Pacheco, CA 94553-5560

Telephone : 925-798-1620 Fax : 925-798-1622

http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

Date: 04/07/00-04/08/00 Matrix: Water

Extraction: N/A

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 41000

Instrument: GC-7

Surrogate1	0.000	96.0	96.0	100.00	96	96	0.0
Xylenes	0.000	300.0	299.0	300.00	100	100	0.3
Ethyl Benzene	0.000	98.0	98.0	100.00	98	98	0.0
Toluene	0.000	98.0	98.0	100.00	98	98	0.0
Benzene	0.000	97.0	97.0	100.00	97	97	0.0
MTBE	0.000	100.0	103.0	100.00	100	103	3.0
GAS	0.000	1033.9	1068.5	1000.00	103	107	3.3

SampleID: 4700

Instrument: MB-1

Oil & Grease	0.000	19.5	19.3	20.00	98	97	1.0
--------------	-------	------	------	-------	----	----	-----

SampleID: 4700

Instrument: GC-6 B

Surrogate1	0.000	112.0	116.0	100.00	112	116	3.5
TPH (diesel)	0.000	284.0	286.0	300.00	95	95	0.7

$$\% \text{ Recovery} = \frac{(MS - Sample)}{AmountSpiked} \times 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \times 100$$

RPD means Relative Percent Deviation

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ATTACHMENT B

Well Sampling Forms

WELL DEPTH MEASUREMENTS

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-1	10:40		21.05'		24.63'	
MW-2	10:43		18.80'		27.08'	
MW-3	10:37		20.48'		28.05'	
MW-4	10:32		17.17'		29.88'	
MW-5	10:34		14.74'		24.63'	

Project Name: DOUGLAS PARKING

Project Number: 580-0197

Measured By: MJE

Date: 4/6/00

WELL SAMPLING FORM

Project Name: Douglas Parking	Cambria Mgr: JR	Well ID: MW- 1
Project Number: 580-0197	Date: 4/6/00	Well Yield: -----
Site Address: 1721 Webster Street Oakland, California	Sampling Method: Disposable bailer	Well Diameter: 2" pvc
		Technician(s): ME
Initial Depth to Water: 21.05'	Total Well Depth: 24.63'	Water Column Height: 3.58'
Volume/ft: 0.16	1 Casing Volume: 0.57 GAL	3 Casing Volumes: 1.71 GAL
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 2.64
Start Purge Time: 1:03	Stop Purge Time: 1:09	Total Time: 6 min

1 Casing Volume = Water column height x Volume/ ft.

Pre-purge DO: 3.90 mg/L

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. °C	pH	Cond. µS	Comments
1:04	1	19.0	7.3	402	GREENISH
1:06	2	18.6	7.2	382	PURGE WATER
1:09	3	18.5	7.3	389	SILTY

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 1	4/6/00	2:15	4 voa's	HCL	TPHg, BTEX, MTBE * Confirm MTBE hits	8020 8015 8260

WELL SAMPLING FORM

Project Name: Douglas Parking	Cambria Mgr: JR	Well ID: MW- 2
Project Number: 580-0197	Date: 4/6/00	Well Yield: -----
Site Address: 1721 Webster Street Oakland, California	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): ME
Initial Depth to Water: 18.80'	Total Well Depth: 27.08'	Water Column Height: 8.28'
Volume/ft: 0.16	1 Casing Volume: 1.32 gal	3 Casing Volumes: 3.97 gal
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 4.06 gal
Start Purge Time: 1:20	Stop Purge Time: 1:30	Total Time: 10 min

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Pre-purge DO: 0.64 mg/L

Time	Casing Volume	Temp. °C	pH	Cond. µS	Comments
1:25	1	19.0	7.2	483	
1:27	2	19.2	6.8	511	
1:29	3	19.1	7.0	350	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 2	4/6/00	2:25	4 voa's	HCL	TPHg, BTEX, MTBE * Confirm MTBE hits	8020 8015 8260

WELL SAMPLING FORM

Project Name: Douglas Parking	Cambria Mgr: JR	Well ID: MW- 3
Project Number: 580-0197	Date: 4/6/00	Well Yield: -----
Site Address: 1721 Webster Street Oakland, California	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): ME
Initial Depth to Water: 20.48'	Total Well Depth: 28.05'	Water Column Height: 7.57'
Volume/ft: 0.16	1 Casing Volume: 1.21 GAL	3 Casing Volumes: 3.63 GAL
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 4 GAL
Start Purge Time: 12:46	Stop Purge Time: 12:55	Total Time: 9 min

1 Casing Volume = Water column height x Volume/ft.

Pre-purge DO: 4.15 mg/L

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. °C	pH	Cond. µS	Comments
12:42	1	19.9	8.0	295	
12:51	2	20.0	7.6	280	
12:54	3	19.7	7.4	300	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 3	4/6/00	2:05	4 voa's	HCL	TPHg, BTEX, MTBE * Confirm MTBE hits	8020 8015 8260

WELL SAMPLING FORM

Project Name: Douglas Parking	Cambria Mgr: JR	Well ID: MW- 4
Project Number: 580-0197	Date: 4/6/00	Well Yield: -----
Site Address: 1721 Webster Street Oakland, California	Sampling Method: Disposable bailer	Well Diameter: 2 " pvc
		Technician(s): ME
Initial Depth to Water: 17.17'	Total Well Depth: 29.88'	Water Column Height: 12.71'
Volume/ft: 0.16	1 Casing Volume: 2.03 gal	3 Casing Volumes: 6.1 gal
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 6.5 gal
Start Purge Time: 11:26	Stop Purge Time: 1:43	Total Time: 17 min

Casing Volume = Water column height x Volume/ft.

Pre-purge DO: 1.33 mg/L

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. °C	pH	Cond. µS	Comments
11:30	1	19.6	8.1	570	
11:33	2	19.0	8.0	384	
11:38	3	19.3	7.7	396	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 4	4/6/00	1:55	4 voa's	HCL	TPHg, BTEX, MTBE * Confirm MTBE hits	8020 8015 8260

WELL SAMPLING FORM

Project Name: Douglas Parking	Cambria Mgr: JR	Well ID: MW- J
Project Number: 580-0197	Date: 4/6/00	Well Yield: -----
Site Address: 1721 Webster Street Oakland, California	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): ME
Initial Depth to Water: 14.74'	Total Well Depth: 24.63'	Water Column Height: 9.89'
Volume/ft: 0.16	1 Casing Volume: 1.58 GAL	3 Casing Volumes: 4.74 GAL
Purging Device: disposable bailer	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time: 11:58	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Pre-purge DO: 1.67 mg/L

Time	Casing Volume	Temp. °C	pH	Cond. µS	Comments
12:00	1	18.6	7.4	369	
12:04	2	18.3	7.6	368	
12:06	3	18.0	7.6	303	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- J	4/6/00	1:45	4 voa's	HCL	TPHg, BTEX, MTBE * Confirm MTBE hits	8020 8015 8260