

C A M B R I A

October 18, 2005

Mr. Don Hwang  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, California 94502

Re: **Groundwater Monitoring Report – Third Quarter 2005**

Douglas Parking Company  
1721 Webster Street  
Oakland, California  
File No. 4070  
Cambria Project No. 580-0197

Alameda County  
OCT 24 2005  
Environmental Health



Dear Mr. Hwang:

On behalf of Mr. Lee Douglas of Douglas Parking Company, Cambria Environmental Technology, Inc. has prepared this *Groundwater Monitoring Report – Third Quarter 2005* for the above-referenced site. This report describes the third quarter 2005 activities and results as well as the anticipated fourth quarter 2005 activities.

If you have any questions or comments, please call me at (510) 420-3361.

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

A handwritten signature in black ink.

Subbarao Nagulapaty  
Project Engineer

Attachment: *Groundwater Monitoring Report – Third Quarter 2005*

cc: Mr. Lee Douglas, Douglas Parking Company, 1721 Webster Street, Oakland, California 94612 (2 copies)

**Cambria  
Environmental  
Technology, Inc.**

5900 Hollis Street  
Suite A  
Emeryville, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170

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**GROUNDWATER MONITORING REPORT – THIRD QUARTER 2005**

**Douglas Parking Company  
1721 Webster Street  
Oakland, California  
File No. 4070  
Cambria Project No. 580-0197**

**October 18, 2005**



*Prepared for:*

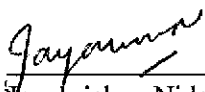
Mr. Lee Douglas  
1721 Webster Street  
Oakland, California 94612

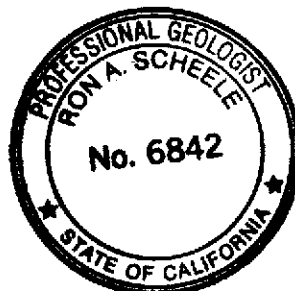
**Alameda County  
OCT 24 2005  
Environmental Health**


*Prepared by:*

Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, California 94608

*Written by:*

  
\_\_\_\_\_  
Jayakrishna Nidamarthi  
Staff Engineer



  
\_\_\_\_\_  
Ron Scheele, P.G.  
Senior Geologist

## GROUNDWATER MONITORING REPORT – THIRD QUARTER 2005

Douglas Parking Company  
1721 Webster Street  
Oakland, California  
File No. 4070  
Cambria Project No. 580-0197

October 18, 2005

### INTRODUCTION



On behalf of Douglas Parking Company, Cambria Environmental Technology, Inc. (Cambria) is submitting this *Groundwater Monitoring Report – Third Quarter 2005* for the above-referenced site. Presented below are the third quarter 2005 activities and results, and the anticipated fourth quarter 2005 activities.

### THIRD QUARTER 2005 ACTIVITIES AND RESULTS

#### Monitoring Activities

**Field Activities:** On July 6, 2005, Cambria coordinated quarterly monitoring with Muskan Environmental Sampling (MES) to gauge depth-to-water groundwater levels and inspect for separate-phase hydrocarbons (SPH) in monitoring wells MW-1 through MW-7 (Figure 1). No SPH was detected and MES collected groundwater samples from monitoring wells MW-2 through MW-7. MW-1 is not currently part of the well sampling schedule.

Prior to sample collection, MES purged approximately three well-casing volumes of groundwater and recorded groundwater pH, conductivity, and temperature readings. After groundwater parameters had stabilized, groundwater samples were collected using clean, disposable bailers and decanted into the appropriate containers supplied by the analytical laboratory. Samples were labeled, stored on crushed water-based ice at or below 4 degrees Celsius and transported under chain-of-custody to the laboratory. Field data sheets are presented as Appendix A.

**Sample Analyses:** Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified United States Environmental Protection Agency (EPA) Method 8015C, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by EPA Method 8021B by McCampbell Analytical, Inc. of Pacheco, California, a California-certified laboratory. The laboratory analytical report is included as Appendix B. The analytical data has been submitted to the GeoTracker database (Appendix C).

## Monitoring Results

**Groundwater Flow Direction:** Based on depth-to-water measurements collected on July 6, 2005, groundwater beneath the site flows toward the northeast with a gradient of 0.0083 feet per foot (Figure 1). The gradient is consistent with historical data. Depth to water and groundwater elevation data are presented in Table 1.

**Hydrocarbon and MTBE Distribution in Groundwater:** Hydrocarbons were detected in four of the six wells sampled this quarter (Figure 1 and Table 1). Maximum TPHg concentration was detected in well MW-6 at 26,000 micrograms per liter ( $\mu\text{g/L}$ ) and the maximum benzene concentration was detected in well MW-2 at 1,600  $\mu\text{g/L}$ . No hydrocarbon compounds were detected in the groundwater samples from wells MW-5 and MW-7. MTBE was not detected above laboratory reporting limits in any of the sampled wells. All wells continued to exhibit an overall stable or decreasing trend in TPHg and BTEX concentrations.

## ANTICIPATED FOURTH QUARTER 2005 ACTIVITIES

### Monitoring Activities

Cambria will coordinate with MES to gauge all the site wells, inspect the wells for SPH, and collect groundwater samples from wells MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7. Groundwater samples will be analyzed for TPHg by modified EPA Method 8015C, and BTEX and MTBE by EPA Method 8021B. Following field activities, Cambria will tabulate the data, contour groundwater elevations, and prepare a quarterly groundwater monitoring report.

### Corrective Action Activities

Cambria is preparing design plans for installing a soil vapor extraction/air sparge (SVE/AS) system to remediate the site. The design plans will be submitted to the City of Oakland building department to obtain appropriate permits. A copy of the design plans will also be submitted to the ACHCSA.

## ATTACHMENTS

Figure 1 – Groundwater Elevation Contours and Hydrocarbon Concentration Map – July 6, 2005

Table 1 – Groundwater Elevation and Analytical Data

Appendix A – Groundwater Monitoring Field Data Sheets

Appendix B – Laboratory Analytical Report

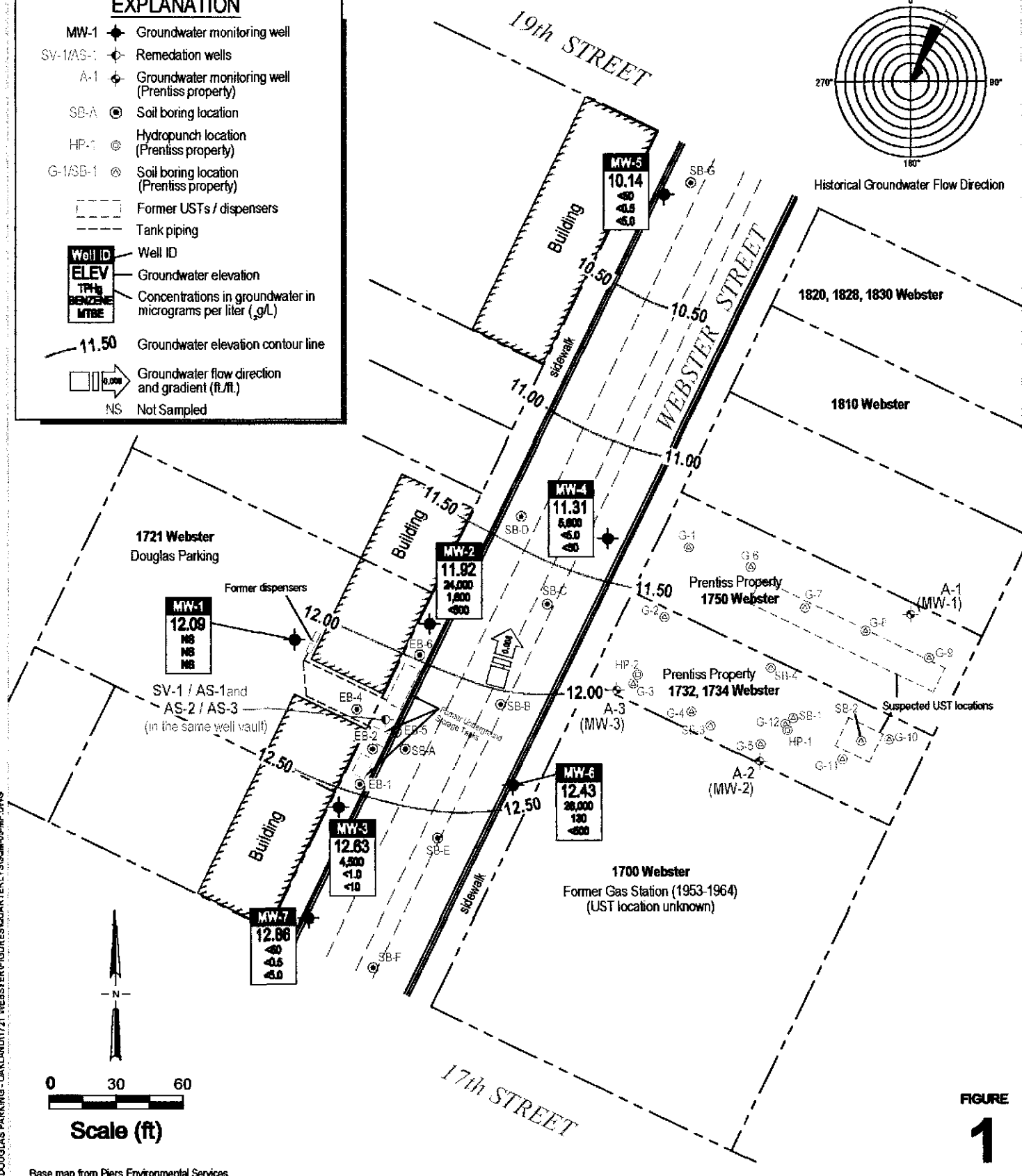
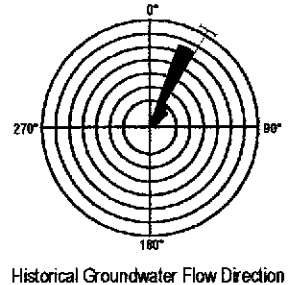
Appendix C – GeoTracker Electronic Delivery Confirmations

**EXPLANATION**

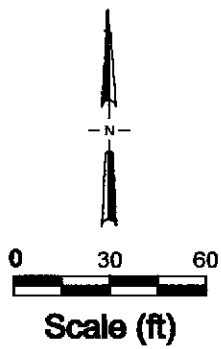
- MW-1 ◆ Groundwater monitoring well
- SV-1/AS-1 ◆ Remediation wells
- A-1 ◆ Groundwater monitoring well (Prentiss property)
- SB-A ⊙ Soil boring location
- HP-1 ⊙ Hydropunch location (Prentiss property)
- G-1/SB-1 ⊙ Soil boring location (Prentiss property)
- Former USTs / dispensers
- - - Tank piping

Well ID	ELEV	TPH	BENZENE	MTBE
MW-1	12.09	NS	NS	NS
MW-2	11.92	24,000	1,800	800
MW-3	12.63	4,800	1.0	1.0
MW-4	11.31	5,800	6.0	6.0
MW-5	10.14	4.6	6.0	6.0
MW-6	12.43	28,000	180	800
MW-7	12.66	4.6	6.0	6.0

- 11.50 Groundwater elevation contour line
- Groundwater flow direction and gradient (ft./ft.)
- NS Not Sampled



H:\DOUGLAS PARKING - OAKLAND\1721 WEBSTER\FIGURES\QUARTERLY\1503M-05-MP.DWG



Base map from Piers Environmental Services

FIGURE 1

**Douglas Parking Facility**  
 1721 Webster Street  
 Oakland, California



**Groundwater Elevation Contours and  
 Hydrocarbon Concentration Map**  
 July 6, 2005

# CAMBRIA

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

Boring / Well ID	Date	Depth to Sample / Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
Groundwater Monitoring Well Samples									
MW-1	12/2/1994	19.42	9.83	ND	ND	ND	ND	ND	-
29.25	3/6/1995	20.69	9.04	ND	ND	ND	ND	ND	-
29.73	7/11/1995	20.65	9.16	ND	ND	ND	ND	ND	-
29.81	5/10/1996	20.80	9.01	ND	ND	ND	ND	ND	-
	10/2/1996	21.35	8.46	-	-	-	-	-	-
	2/28/1997	20.57	9.24	-	-	-	-	-	-
	9/16/1997	21.50	8.31	-	-	-	-	-	-
	2/5/1998	20.91	8.90	-	-	-	-	-	-
	8/11/1998	20.50	9.31	-	-	-	-	-	-
	2/8/1999	21.42	8.39	-	-	-	-	-	-
	2/24/1999	22.99	6.82	-	-	-	-	-	-
	3/3/1999	20.84	8.97	-	-	-	-	-	-
	3/10/1999	20.89	8.92	-	-	-	-	-	-
	3/17/1999	20.84	8.97	-	-	-	-	-	-
	5/4/1999	20.80	9.01	-	-	-	-	-	-
	7/20/1999	21.25	8.56	-	-	-	-	-	-
	10/5/1999	21.37	8.44	-	-	-	-	-	-
	1/7/2000	21.65	8.16	-	-	-	-	-	-
	4/6/2000	21.05	8.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/31/2000	21.13	8.68	-	-	-	-	-	-
	10/3/2000	21.69	8.12	-	-	-	-	-	-
	1/12/2001	22.00	7.81	-	-	-	-	-	-
	4/11/2001	22.16	7.65	-	-	-	-	-	-
	7/6/2001	22.57	7.24	-	-	-	-	-	-
	10/25/2001	22.71	7.10	-	-	-	-	-	-
	3/4/2002	22.53	7.28	-	-	-	-	-	-
	4/18/2002	22.81	7.00	-	-	-	-	-	-
	7/9/2002	22.95	6.86	-	-	-	-	-	-
	10/4/2002	23.13	6.68	-	-	-	-	-	-
	1/12/2003	22.05	7.76	-	-	-	-	-	-
	4/21/2003	21.17	8.64	-	-	-	-	-	-
32.75	7/21/2003	21.39	11.36	-	-	-	-	-	-
	10/2/2003	21.64	11.11	-	-	-	-	-	-
	1/15/2004	21.10	11.65	-	-	-	-	-	-
	4/5/2004	21.20	11.55	-	-	-	-	-	-
	8/9/2004	22.97	9.78	-	-	-	-	-	-
	10/7/2004	23.55	9.20	-	-	-	-	-	-
	2/7/2005	20.90	11.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2005	20.60	12.15	-	-	-	-	-	-
	7/6/2005	20.66	12.09	-	-	-	-	-	-
MW-2	12/2/1994	19.50	7.60	61,300	3,000	3,900	160	4,500	-
27.10	3/6/1995	18.49	8.61	98,000	8,400	16,000	2,000	2,600	-
27.40	7/11/1995	18.45	8.95	38,000	3,100	7,500	940	3,700	-
	5/10/1996	18.56	8.84	63,000	7,400	16,000	1,500	6,000	-
	10/2/1996	19.15	8.25	21,000	2,200	3,400	430	1,600	-
	2/28/1997	18.43	8.97	39,000	4,700	9,600	950	4,200	ND
	9/16/1997	19.26	8.14	29,000	3,300	5,800	690	2,900	<620
	2/5/1998	18.66	8.74	10,000	1,000	2,000	170	860	<330
	8/11/1998	18.41	8.99	12,000	1,200	2,300	260	1,400	300
MW-2 (cont'd)	2/8/1999	19.84	7.56	5,500	740	1,200	150	780	60
	2/17/1999	18.94	8.46	-	-	-	-	-	-
	2/24/1999	20.76	6.64	-	-	-	-	-	-
	3/3/1999	18.55	8.85	-	-	-	-	-	-
	3/10/1999	20.74	6.66	-	-	-	-	-	-
	3/17/1999	18.57	8.83	-	-	-	-	-	-
	5/4/1999	18.55	8.85	90,000	9,200	21,000	1,600	10,000	560
	7/20/1999	18.98	8.42	28,000	2,100	3,700	900	4,200	<860
	10/5/1999	19.10	8.30	11,000	870	180	30	1,400	<110

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

Boring / Well ID	Date	Depth to Sample / Water	Groundwater Elevation	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
30.40	1/7/2000	19.41	7.99	15,000	1,300	2,100	440	1,800	<14
	4/6/2000	18.80	8.60	17,000	1,800	3,100	500	2,200	<50
	7/31/2000	18.87	8.53	17,000	1,500	2,700	430	2,100	<200
	10/3/2000	19.45	7.95	27,000	2,500	4,000	660	2,900	<50
	1/12/2001	19.80	7.60	25,000	2,700	4,100	670	3,000	<200
	4/11/2001	20.03	7.37	97,000	9,500	21,000	2,200	7,900	<200
	7/6/2001	20.19	7.21	3,500	500	150	11	420	<5.0
	10/25/2001	20.35	7.05	3,800	620	230	70	400	<50
	3/4/2002	20.37	7.03	46,000	7,300	12,000	870	3,200	<500
	4/18/2002	20.15	7.25	68,000	5,100	8,900	1,100	4,000	<1,000
	7/9/2002	21.09	6.31	1,000	200	8.9	0.67	82	<10
	10/4/2002	21.28	6.12	270	100	3.4	0.53	10	<5.0
	1/12/2003	20.59	6.81	67,000	7,600	13,000	1,400	5,600	<500
	4/21/2003	19.98	7.42	78,000	7,700	12,000	1,900	6,900	<500
	7/21/2003	20.08	10.32	1,800	360	16	<5.0	190	<50
	10/2/2003	20.41	9.99	4,000	790	110	60	350	<50
	1/15/2004	19.93	10.47	8,100	6.1	23	44	530	<50
	4/5/2004	18.99	11.41	14,000	1,600	2,100	550	2,500	<500
	8/9/2004	19.79	10.61	1,200	210	16	14	100	<20
	10/7/2004	20.26	10.14	1,100	2.3	9.8	2.9	36	<5.0
	2/7/2005	18.80	11.60	45,000	4,400	4,800	1,400	5,800	<200
4/5/2005	18.40	12.00	34,000	3,700	3,600	1,200	5,300	<500 (<5.0)	
7/6/2005	18.48	11.92	24,000,a	1,600	1,700	570	2,800	<500	
MW-3	12/2/1994	22.15	7.35	394,000	1,200	ND	1,800	4,000	-
29.50	3/6/1995	20.09	9.16	21,000	400	150	24	62	-
29.25	7/11/1995	19.99	9.57	12,000	ND	10	16	99	-
29.56	5/10/1996	20.24	9.32	8,600	ND	7.6	16	84	-
	10/2/1996	20.90	8.66	11,000	ND	7.4	19	92	-
	2/28/1997	20.12	9.44	6,000	ND	4.4	17	88	50
	9/16/1997	20.97	8.59	6,500	<0.5	0.69	1.2	6.7	<5.0
	2/5/1998	20.39	9.17	5,400	<0.5	6.3	15	86	<63
	8/11/1998	19.95	9.61	2,700	<0.5	3.5	3.2	12	<10
	2/8/1999	20.58	8.98	6,100	<0.5	8.1	18	80	<140
	2/17/1999	20.53	9.03	-	-	-	-	-	-
	2/24/1999	22.53	7.03	-	-	-	-	-	-
	3/3/1999	20.28	9.28	-	-	-	-	-	-
	3/10/1999	22.45	7.11	-	-	-	-	-	-
	3/17/1999	20.26	9.30	-	-	-	-	-	-
	5/4/1999	20.24	9.32	11,000	<2	<2	9.8	140	<10
	7/20/1999	20.68	8.88	11,000	<0.5	3.1	13	88	<80
	10/5/1999	20.81	8.75	31,000	62	<0.5	21	170	<90
	1/7/2000	21.09	8.47	13,000	<0.5	<2	21	140	<80
	4/6/2000	20.48	9.08	5,300	1.5	1.4	9.8	60	<30
	7/31/2000	20.62	8.94	7,100	3.5	1.0	12	66	<5.0
	10/3/2000	21.13	8.43	8,000	<0.5	3.3	11	70	<40
	1/12/2001	21.45	8.11	11,000	4.3	6.7	11	73	<70
	4/11/2001	21.69	7.87	10,000	<0.5	<0.5	11	65	<10
	7/6/2001	21.60	7.96	13,000	5.3	1.6	11	58	<5.0
	10/25/2001	21.70	7.86	11,000	<0.5	3.0	15	70	<10
	3/4/2002	21.65	7.91	1,900	1.3	0.8	<0.5	15	<5.0
	4/18/2002	21.77	7.79	1,500	1.0	0.97	1.3	5.8	<5
MW-3 (cont'd)	7/9/2002	22.03	7.53	13,000	6.8	5.7	13	59	<90
	10/4/2002	22.15	7.41	8,400	<10	<10	<10	42	<100
	1/12/2003	21.13	8.43	9,000	9.5	5.1	8.5	46	<90
	4/21/2003	20.63	8.93	10,000	<5.0	<5.0	8.5	32	<50
32.56	7/21/2003	20.68	11.88	9,600	<2.5	<2.5	7.4	39	48 (<1.0)
	10/2/2003	20.99	11.57	12,000	<5.0	<5.0	10	40	<90
	1/15/2004	20.74	11.82	13,000	37	41	78	930	<50
	4/5/2004	20.59	11.97	4,500	<1.7	<1.7	<1.7	12	<17
	8/9/2004	22.18	10.38	2,100	<1.0	3.7	<1.0	8.1	<10

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

Boring / Well ID	Date	Depth to Sample / Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
TOC	10/7/2004	22.79	9.77	2,400	6.5	26	7.5	89	<15
	2/7/2005	20.35	12.21	6,800	2.2	5.6	2.0	12	<30
	4/5/2005	19.95	12.61	6,100	2.3	2.6	1.3	8.3	<45 (<0.5)
	7/6/2005	19.93	12.63	4,500a	<1.0	1.5	1.0	8.3	<10
MW-4 25.29	5/10/1996	16.98	8.31	14,000	ND	1,200	720	3,100	-
	10/2/1996	17.65	7.64	12,000	ND	650	580	2,200	-
	2/28/1997	16.80	8.49	13,000	ND	1,100	750	2,700	110
	9/17/1997	17.93	7.36	13,000	<2.5	820	750	2,900	<190
	2/5/1998	16.78	8.51	13,000	<1.0	690	690	2,900	<170
	8/11/1998	16.59	8.70	15,000	<5	360	520	1,900	280
	2/8/1999	17.10	8.19	9,800	<5	680	770	2,200	300
	2/24/1999	18.95	6.34	-	-	-	-	-	-
	3/3/1999	16.80	8.49	-	-	-	-	-	-
	3/10/1999	16.86	8.43	-	-	-	-	-	-
	3/17/1999	16.82	8.47	-	-	-	-	-	-
	5/4/1999	16.86	8.43	11,000	46	600	620	1,900	<100
	7/20/1999	17.30	7.99	13,000	<0.5	470	7.0	2,000	<150
	10/5/1999	17.43	7.86	18,000	4.4	720	800	2,100	<120
	1/7/2000	17.78	7.51	18,000	<2	930	990	2,700	<30
	4/6/2000	17.17	8.12	8,000	31	390	530	1,300	<10
	7/31/2000	17.21	8.08	6,200	13	170	460	850	<10
	10/3/2000	18.00	7.29	14,000	42	820	730	2,000	<50
	1/12/2001	18.20	7.09	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/11/2001	18.31	6.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	18.35	6.94	470	2.3	1.6	0.81	4.3	<5.0
	10/25/2001	18.47	6.82	110	0.70	<0.5	<0.5	3.3	<5.0
	3/4/2002	18.43	6.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/18/2002	18.61	6.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/9/2002	19.50	5.79	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/4/2002	19.83	5.46	310	2.0	2.9	13	16	<0.5
	1/12/2003	19.07	6.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/21/2003	18.71	6.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0
28.29	7/21/2003	18.81	9.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/2/2003	19.02	9.27	59	0.78	<0.5	1.1	0.91	<5.0
	1/15/2004	18.68	9.61	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2004	17.41	10.88	6,200	29	250	450	730	<100
	8/9/2004	19.07	9.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/7/2004	19.65	8.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/7/2005	17.21	11.08	8,700	48	340	550	720	<100
	4/5/2005	16.78	11.51	6,900	27	290	520	660	<170 (<0.5)
	7/6/2005	16.98	11.31	5600c,d	<5.0	130	470	480	<50
	MW-5 21.97	5/10/1996	14.60	7.37	ND	ND	ND	ND	ND
10/2/1996		15.25	6.72	ND	ND	ND	ND	ND	-
2/28/1997		14.31	7.66	ND	ND	ND	ND	ND	ND
9/17/1997		15.18	6.79	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0
2/5/1998		13.64	8.33	<50	<0.5	<0.5	<0.5	<0.5	<5.0
8/11/1998		13.92	8.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0
2/8/1999		14.19	7.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0
2/24/1999		16.18	5.79	-	-	-	-	-	-
3/3/1999		14.23	7.74	-	-	-	-	-	-
3/10/1999		14.32	7.65	-	-	-	-	-	-
MW-5 (cont'd)	3/17/1999	14.25	7.72	-	-	-	-	-	-
	5/4/1999	14.41	7.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/20/1999	14.44	7.53	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/5/1999	14.79	7.18	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/7/2000*	15.23	6.74	-	-	-	-	-	-
	4/6/2000	14.74	7.23	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/31/2000	14.52	7.45	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/3/2000	15.37	6.60	<50	<0.5	<0.5	<0.5	<0.5	<5.0



# CAMBRIA

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

Boring / Well ID	Date	Depth to Sample / Water (ft)	Groundwater Elevation (ft)	TPHg ( $\mu\text{g/L}$ )	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethylbenzene ( $\mu\text{g/L}$ )	Xylenes ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )
24.99	1/12/2001	15.70	6.27	6,400	13	290	450	1,100	<40
	4/11/2001	15.78	6.19	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	15.97	6.00	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/25/2001	16.05	5.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/4/2002	16.21	5.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/18/2002	16.59	5.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/9/2002	16.94	5.03	170	1.0	0.65	2.1	4.0	<15
	10/4/2002	17.14	4.83	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/12/2003	16.58	5.39	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/21/2003	15.90	6.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/21/2003	16.03	8.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/2/2003	16.33	8.66	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/15/2004	16.21	8.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2004	15.01	9.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/9/2004	16.85	8.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/7/2004	17.48	7.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/7/2005	16.52	8.47	<50	<0.5	<0.5	<0.5	<0.5	<5.0
4/5/2005	14.45	10.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0 (<0.5)	
7/6/2005	14.85	10.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
MW-6	6/30/2003	19.60	11.39	68,000	950	6,000	2,400	10,000	<1,000
30.99	7/21/2003	19.67	11.32	120,000	170	1,400	1,100	10,000	<1,000
	10/2/2003	19.97	11.02	16,000	7.6	200	38	1,800	<100
	1/15/2004	19.55	11.44	14,000	48	51	94	1,100	<50
	4/5/2004	19.17	11.82	24,000	180	900	430	1,800	<500
	8/9/2004	20.98	10.01	5,300	6.4	25	5.3	69	<17 (<0.5)
	10/7/2004	21.52	9.47	5,600	11	58	18	210	<50 (<0.5)
	2/7/2005	19.00	11.99	31,000	120	620	310	1,200	<500
	4/5/2005	18.60	12.39	21,000	170	1,100	350	1,300	<500 (<5.0)
	7/6/2005	18.56	12.43	26,000 a,b	130	920	320	1,200	<500
MW-7	6/30/2003	21.40	11.71	170	<0.5	2.1	2.0	8.7	<5.0
33.11	7/21/2003	21.44	11.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/2/2003	21.73	11.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/15/2004	21.57	11.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2004	20.84	12.27	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/9/2004	22.68	10.43	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/7/2004	23.27	9.84	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/7/2005	20.60	12.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2005	20.22	12.89	<50	<0.5	0.75	<0.5	<0.5	<5.0 (<0.5)
	7/6/2005	20.25	12.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Trip Blank	01/12/01	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/11/2001	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/4/2002	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/2/2003	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0

# CAMBRIA

**Table 1 - Groundwater Elevation and Analytical Data.**

Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID	Date	Depth to Sample / Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
<i>TOC</i>									

**Notes and Abbreviations:**

TOC = Top of casing elevations in feet above mean sea level

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

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B

MTBE = Methyl tertiary butyl ether by EPA Method 8021B, and by EPA Method 8260 in parenthesis

µg/L = Micrograms per liter

<n = Not detected in sample above n µg/L

ND = Not detected

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.

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

On July 31, 2003, Virgil Chavez Land Surveying of Vallejo, California surveyed monitoring wells using a benchmark in the top of the curb near the SW return of the NW corner of 34th and Broadway.

See laboratory analytical report for the laboratory's TPH chromatogram description notes.

a= unmodified or weakly modified gasoline significant; b= lighter than water immiscible sheen/ product is present

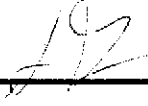
c= heavier gasoline range compounds are significant (aged gasoline?); d= no recognisable pattern

## **APPENDIX A**

Groundwater Monitoring Field Data Sheets



## WELL GAUGING SHEET

<b>Client:</b> Cambria Environmental Technology Inc.						
<b>Site</b> <b>Address:</b> 1721 Webster Street Oakland, CA						
<b>Date:</b> 7/6/2005			<b>Signature:</b> 			
Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1	6:55		20.66		26.66	
MW-2	1:45		18.48		25.94	
MW-3	1:50		19.93		26.85	
MW-4	1:35		16.98		29.50	
MW-5	1:30		14.85		24.49	
MW-6	1:55		18.56		25.80	
MW-7	1:40		20.25		28.49	







## WELL SAMPLING FORM

<b>Date:</b>		7/6/2005				
<b>Client:</b>		Cambria Environmental Technology Inc.				
<b>Site Address:</b>		1721 Webster Street Oakland, CA				
<b>Well ID:</b>		MW-4				
<b>Well Diameter:</b>		2"				
<b>Purging Device:</b>		Disposable Bailer				
<b>Sampling Method:</b>		Disposable Bailer				
<b>Total Well Depth:</b>		29.50	<b>Fe=</b> <b>mg/L</b>			
<b>Depth to Water:</b>		16.98	<b>ORP=</b> <b>mV</b>			
<b>Water Column Height:</b>		12.52	<b>DO=</b> <b>mg/L</b>			
<b>Gallons/ft:</b>		0.16				
<b>1 Casing Volume (gal):</b>		2.00	<b>COMMENTS:</b> odor			
<b>3 Casing Volumes (gal):</b>		6.01				
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>			<b>pH</b>	<b>COND. (µS)</b>
2:35	2.0	23.4	6.98	740		
2:40	4.0	23.7	7.05	712		
2:45	6.0	23.7	7.02	732		
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>
MW-4	7/6/2005	2:50	Voa	HCl, ICE	TPHg, BTEX, MTBE	8015, 8020
<b>Signature:</b>						



## WELL SAMPLING FORM

<b>Date:</b>		7/6/2005				
<b>Client:</b>		Cambria Environmental Technology Inc.				
<b>Site Address:</b>		1721 Webster Street Oakland, CA				
<b>Well ID:</b>		MW-5				
<b>Well Diameter:</b>		2"				
<b>Purging Device:</b>		Disposable Bailer				
<b>Sampling Method:</b>		Disposable Bailer				
<b>Total Well Depth:</b>		24.49	<b>Fe=</b> <b>mg/L</b>			
<b>Depth to Water:</b>		14.85	<b>ORP=</b> <b>mV</b>			
<b>Water Column Height:</b>		9.64	<b>DO=</b> <b>mg/L</b>			
<b>Gallons/ft:</b>		0.16				
<b>1 Casing Volume (gal):</b>		1.54	<b>COMMENTS:</b> slightly turbid			
<b>3 Casing Volumes (gal):</b>		4.63				
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>			<b>pH</b>	<b>COND. (µS)</b>
2:10	1.5	23.9			7.01	529
2:15	3.1	24.3			6.93	541
2:20	4.6	24.1	6.95	558		
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>
MW-5	7/6/2005	2:25	Voa	HCl, ICE	TPHg, BTEX, MTBE	8015, 8020
				<b>Signature:</b>		






## WELL SAMPLING FORM

<b>Date:</b>		7/6/2005				
<b>Client:</b>		Cambria Environmental Technology Inc.				
<b>Site Address:</b>		1721 Webster Street Oakland, CA				
<b>Well ID:</b>		MW-6				
<b>Well Diameter:</b>		2"				
<b>Purging Device:</b>		Disposable Bailer				
<b>Sampling Method:</b>		Disposable Bailer				
<b>Total Well Depth:</b>		25.80		<b>Fe=</b> <b>mg/L</b>		
<b>Depth to Water:</b>		18.56		<b>ORP=</b> <b>mV</b>		
<b>Water Column Height:</b>		7.24		<b>DO=</b> <b>mg/L</b>		
<b>Gallons/ft:</b>		0.16				
<b>1 Casing Volume (gal):</b>		1.16		<b>COMMENTS:</b> turbid		
<b>3 Casing Volumes (gal):</b>		3.48				
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>	<b>pH</b>			
4:45	1.2	23.9	7.04	847		
4:50	2.3	23.8	6.99	795		
4:55	3.5	23.8	6.97	809		
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>
MW-6	7/6/2005	5:00	Voa	HCl, ICE	TPHg, BTEX, MTBE	8015, 8020
				<b>Signature:</b>		



## WELL SAMPLING FORM

<b>Date:</b>		7/6/2005					
<b>Client:</b>		Cambria Environmental Technology Inc.					
<b>Site Address:</b>		1721 Webster Street Oakland, CA					
Well ID:		MW-7					
Well Diameter:		2"					
Purging Device:		Disposable Bailer					
Sampling Method:		Disposable Bailer					
Total Well Depth:		28.49		Fe= mg/L			
Depth to Water:		20.25		ORP= mV			
Water Column Height:		8.24		DO= mg/L			
Gallons/ft:		0.16					
1 Casing Volume (gal):		1.32		<b>COMMENTS:</b> Turbid			
3 Casing Volumes (gal):		3.96					
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>	<b>pH</b>				<b>COND. (µS)</b>
3:00	1.3	24.3	7.19				510
3:05	2.6	24.5	7.11	528			
3:10	4.0	24.6	7.14	533			
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>	
MW-7	7/6/2005	3:15	Voa	HCl, ICE	TPHg, BTEX, MTBE	8015, 8020	
				<b>Signature:</b> 			

## **APPENDIX B**

Laboratory Analytical Report



# McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
Website: www.mcccampbell.com E-mail: main@mcccampbell.com

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #580-0197; Douglas Parking	Date Sampled: 07/06/05
		Date Received: 07/07/05
	Client Contact: Subbarao Nagulapaty	Date Reported: 07/14/05
	Client P.O.:	Date Completed: 07/14/05

**WorkOrder: 0507091**

July 14, 2005

Dear Subbarao:

Enclosed are:

- 1). the results of 6 analyzed samples from your #580-0197; 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. McC Campbell 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,

Angela Rydelius, Lab Manager





QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0507091

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 17045			Spiked Sample ID: 0507091-006A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>E</sup>	ND	60	104	112	7.52	94.7	96.2	1.60	70 - 130	70 - 130
MTBE	ND	10	116	115	0.673	96.2	97	0.837	70 - 130	70 - 130
Benzene	ND	10	109	106	3.10	84.6	85.3	0.816	70 - 130	70 - 130
Toluene	ND	10	107	104	2.24	86	87.1	1.29	70 - 130	70 - 130
Ethylbenzene	ND	10	111	108	2.97	88.7	89.3	0.644	70 - 130	70 - 130
Xylenes	ND	30	96.3	95.3	1.04	90.3	90	0.370	70 - 130	70 - 130
%SS:	102	10	107	106	0.492	92	95	2.36	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 17045 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507091-001A	7/06/05 3:45 PM	7/12/05	7/12/05 5:56 AM	0507091-002A	7/06/05 4:25 PM	7/13/05	7/13/05 12:09 PM
0507091-003A	7/06/05 2:50 PM	7/14/05	7/14/05 9:51 AM	0507091-004A	7/06/05 2:25 PM	7/12/05	7/12/05 12:03 PM
0507091-005A	7/06/05 5:00 PM	7/12/05	7/12/05 8:38 AM	0507091-006A	7/06/05 3:15 PM	7/12/05	7/12/05 12:37 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.

<sup>E</sup> 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.

QA/QC Officer







## **APPENDIX C**

### **GeoTracker Electronic Delivery Confirmations**

## Electronic Submittal Information

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### UPLOADING A GEO\_WELL FILE

**Processing is complete. No errors were found!  
Your file has been successfully submitted!**

**Submittal Title:** 3rd Qtr 2005 GeoWell data

**Submittal Date/Time:** 10/7/2005 12:43:07 PM

**Confirmation Number:** 7263096451

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## Electronic Submittal Information

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**Confirmation Number:** 2169723689  
**Date/Time of Submittal:** 10/7/2005 12:45:36 PM  
**Facility Global ID:** T0600100140  
**Facility Name:** DOUGLAS PARKING COMPANY  
**Submittal Title:** 3rd Qtr 2005 Groundwater Monitoring Report  
**Submittal Type:** Risk Assessment Report

[Click here to view the detections report for this upload.](#)

<b>DOUGLAS PARKING COMPANY</b> 1721 WEBSTER ST OAKLAND, CA 94612	<b>Regional Board - Case #: 01-0151</b> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <b>Local Agency (lead agency) - Case #: 4070</b> ALAMEDA COUNTY LOP - (AG)
--	---

CONF #	TITLE	QUARTER
2169723689	3rd Qtr 2005 Groundwater Monitoring Report	Q3 2005
<b>SUBMITTED BY</b>	<b>SUBMIT DATE</b>	<b>STATUS</b>
Matt Meyers	10/7/2005	PENDING REVIEW

**SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
SAMPLE MATRIX TYPES	WATER

**METHOD QA/QC REPORT**

METHODS USED	SW8021F
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- SW8021F REQUIRES ETBE TO BE TESTED	
- SW8021F REQUIRES TAME TO BE TESTED	
- SW8021F REQUIRES DIPE TO BE TESTED	
- SW8021F REQUIRES TBA TO BE TESTED	
- SW8021F REQUIRES DCA12 TO BE TESTED	
- SW8021F REQUIRES EDB TO BE TESTED	
LAB NOTE DATA QUALIFIERS	N

**QA/QC FOR 8021/8260 SERIES SAMPLES**

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y

**WATER SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

**SOIL SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

**FIELD QC SAMPLES**

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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**Title:** Groundwater Monitoring Report - Third Quarter 2005  
**Document Type:** Monitoring Report - Quarterly  
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