

R0199

C A M B R I A

August 26, 2004

Mr. Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: **Groundwater Monitoring Report - Second Quarter 2004**
Connell Automobile Dealership
3093 Broadway
Oakland, California
ACHCSA Case No. 469
Cambria Project No. 425-1580

Alameda County
SEP 8 2004
Environmental Services



Dear Mr. Hwang:

On behalf of Messrs. George Hill and Gordon Linden, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring Report - Second Quarter 2004* for the subject site. This report describes the second quarter 2004 activities and results, and the anticipated third quarter 2004 activities.

I declare, under penalty of perjury, that the information contained in the attached report is true and correct to the best of my knowledge. If you have any questions or comments please call me at (510) 420-3303.

Sincerely,
Cambria Environmental Technology, Inc.

Bob Clark-Riddell

Bob Clark-Riddell, P.E.
Principal Engineer

Attachments: *Groundwater Monitoring Report - Second Quarter 2004*

cc: Mr. George Hill, 305 Sheridan Avenue, Piedmont, California 94611
Mr. Gordon Linden, 150 La Salle Avenue, Piedmont, California 94611
Mr. Paul Kibel, Fitzgerald, Abbott & Beardsley, LLP, 1221 Broadway, 21st Floor, Oakland, California 94612
Mr. Leroy Griffin, Hazardous Materials Manager, Fire Department - OES, 1605 MLK Jr. Way, Oakland, California 94612

**Cambria
Environmental
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GROUNDWATER MONITORING REPORT - SECOND QUARTER 2004

**Connell Automobile Dealership
3093 Broadway
Oakland, California
ACHCSA Case No. 469
Cambria Project No. 425-1580**

August 26, 2004



Prepared for:

Mr. George Hill
305 Sheridan Avenue
Piedmont, California 94611

and

Mr. Gordon Linden
150 La Salle Avenue
Piedmont, California 94611

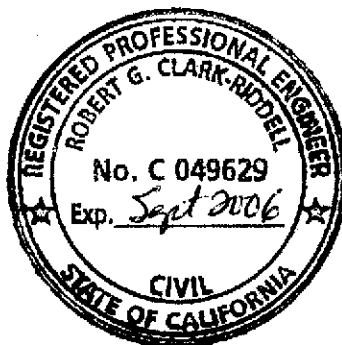
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Prepared by:

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Written by:

Matthew A. Meyers
Senior Staff Geologist



Bob Clark-Riddell, P.E.
Principal Engineer

GROUNDWATER MONITORING REPORT - SECOND QUARTER 2004

Connell Automobile Dealership
3093 Broadway
Oakland, California
ACHCSA Case No. 469
Cambria Project No. 425-1580

August 26, 2004

INTRODUCTION



As required by the Alameda County Health Care Services Agency (ACHCSA), Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring Report - Second Quarter 2004* for the subject site (Figure 1). Presented in the report are the second quarter 2004 activities and results, and the anticipated third quarter 2004 activities.

Table 1 contains water level measurement, calculated groundwater elevation data, and dissolved oxygen measurements. Table 1 also summarizes current and historical analytical results for purgeable hydrocarbons and volatile organic compounds. Table 2 presents additional hydrochemical data, including extractable hydrocarbons and semi-volatile organic compounds (SVOCs). Table 3 presents historical LUFT metals concentrations in groundwater data. Table 4 presents separate phase hydrocarbon (SPH) removal to-date data. Appendix A contains the well sampling protocol. Appendix B contains the field data sheets for this monitoring event. Appendix C contains the analytical laboratory report. Appendix D contains the GeoTracker delivery confirmation documentation.

SECOND QUARTER 2004 ACTIVITIES

Monitoring Activities

Field Activities: On May 27, 2004, Cambria gauged and inspected all program groundwater monitoring wells for SPHs and sampled select site wells in accordance with the well sampling protocol in Appendix A. Consistent with the approved sampling protocol, groundwater samples were collected from cross/downgradient wells MW-4, MW-7, MW-8, MW-9 and MW-13.

Prior to sampling, groundwater levels and SPH thickness were gauged/measured in the wells within approximately 45 minutes to evaluate groundwater elevation and flow patterns at the site. To facilitate groundwater sampling, Cambria purged three well-casing volumes of groundwater prior to sampling. Cambria recorded groundwater pH, conductivity, and temperature, and

evaluated reading stabilization. Groundwater samples were collected using clean, disposable bailers and were decanted into the appropriate containers supplied by the analytical laboratory. Samples were labeled, placed in protective foam sleeves, 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 B. The well gauging data has been submitted to the GeoTracker database (Appendix D).



Sample Analysis: Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPHg), and TPH as diesel (TPHd) and as motor oil (TPHmo) with silica gel cleanup by EPA Method 8015C; and benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) by EPA Method 8021B. Dissolved oxygen was also measured in all of the wells that were sampled (Table 1). Laboratory analyses were performed by McCampbell Analytical of Pacheco, California. Laboratory analytical results are shown in Tables 1, 2, and 3, and summarized on Figure 1. The laboratory analytical report and chain of custody are included in Appendix C. The groundwater analytical results have been submitted to the GeoTracker database (Appendix D).

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected on May 27, 2004, groundwater beneath the site generally flows toward the northeast with a gradient of 0.136 feet/foot (Figure 1). This groundwater gradient is consistent with previous quarters. Depth to water and groundwater elevation data are presented in Table 1.

Hydrocarbon Distribution in Groundwater: SPH were detected in wells MW-1, MW-6, MW-14, and MW-15, ranging from a sheen to 0.05 feet in thickness. Hydrocarbon concentrations were detected in three of the five sampled wells. The maximum TPHg, TPHd, and benzene concentrations were detected in well MW-4 at 97,000 micrograms per liter ($\mu\text{g/L}$), 23,000 $\mu\text{g/L}$, and 12,000 $\mu\text{g/L}$, respectively. No MTBE was detected in the sampled wells. The downgradient extent of the groundwater plume is characterized by onsite wells MW-7 and MW-8, and by offsite well MW-13.

Corrective Action Activities

Separate-Phase Hydrocarbon Removal: Cambria conducted SPH removal activities on April 9 and May 27, 2004. Cambria removed a total of 0.08 gallons of SPH during this quarter from wells MW-1, MW-6, and MW-14. Approximately 153.4 gallons of SPH have been removed since SPH removal activities began in December 1991. Table 4 presents the SPH thickness measurements, amount of SPH removed from the wells, and cumulative volume of SPH removal.




ANTICIPATED THIRD QUARTER 2004 ACTIVITIES

Monitoring Activities

Cambria will conduct well monitoring and sampling in accordance with the well sampling protocol in Appendix A. The monitoring program involves quarterly gauging of source area wells (MW-1, MW-6, MW-14 and MW-15) and select crossgradient/downgradient wells (MW-4, MW-7, MW-8, MW-9 and MW-13), and inspection for SPH. For wells not containing SPH, groundwater samples are collected and analyzed from the above crossgradient/downgradient wells on a quarterly basis and from source area wells on an annual basis. All groundwater samples are analyzed for TPHg, and TPHd and TPHmo (with silica gel cleanup) by modified EPA Method 8015C, and BTEX and MTBE by EPA Method 8021B. During the first quarter of each year, groundwater samples are also analyzed for semi-volatile organic compounds (SVOCs) by EPA Method 8270, for halogenated volatile organic compounds (HVOCs) by EPA Method 8010, and for LUFT metals (lead, cadmium, chromium, zinc, and nickel) by EPA Method 6010. Wells MW-2, MW-3, MW-5, MW-10, and MW-11 are no longer a part of the well sampling protocol due to the absence of hydrocarbons and/or redundant locations.

Cambria will prepare a quarterly monitoring report that will include tabulated groundwater elevation and analytical data and a potentiometric surface map. The report will also describe sampling activities and results, and anticipated activities for the following quarter.

Corrective Action Activities



Cambria will continue to perform monthly SPH removal events by hand-bailing all wells with measurable SPH. In accordance with your agency letter dated August 11, 2004, Cambria plans to submit an Interim Remedial Action Plan (IRAP) by September 11, 2004. To facilitate preparation of the IRAP Cambria will meet with the *new* tenant and the responsible parties to discuss potential remedial techniques and possible remediation system locations. Based on your letter, Cambria understands that your agency will review our request for preparation of a corrective action plan (which was previously requested by your agency), and that your agency will send correspondence regarding other corrective action tasks required before the case may be closed.

ATTACHMENTS

Figure 1 – Groundwater Elevation Contours and Hydrocarbon Concentration Map

Table 1 – Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs and DO

Table 2 – Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Table 3 – LUFT Metals in Groundwater

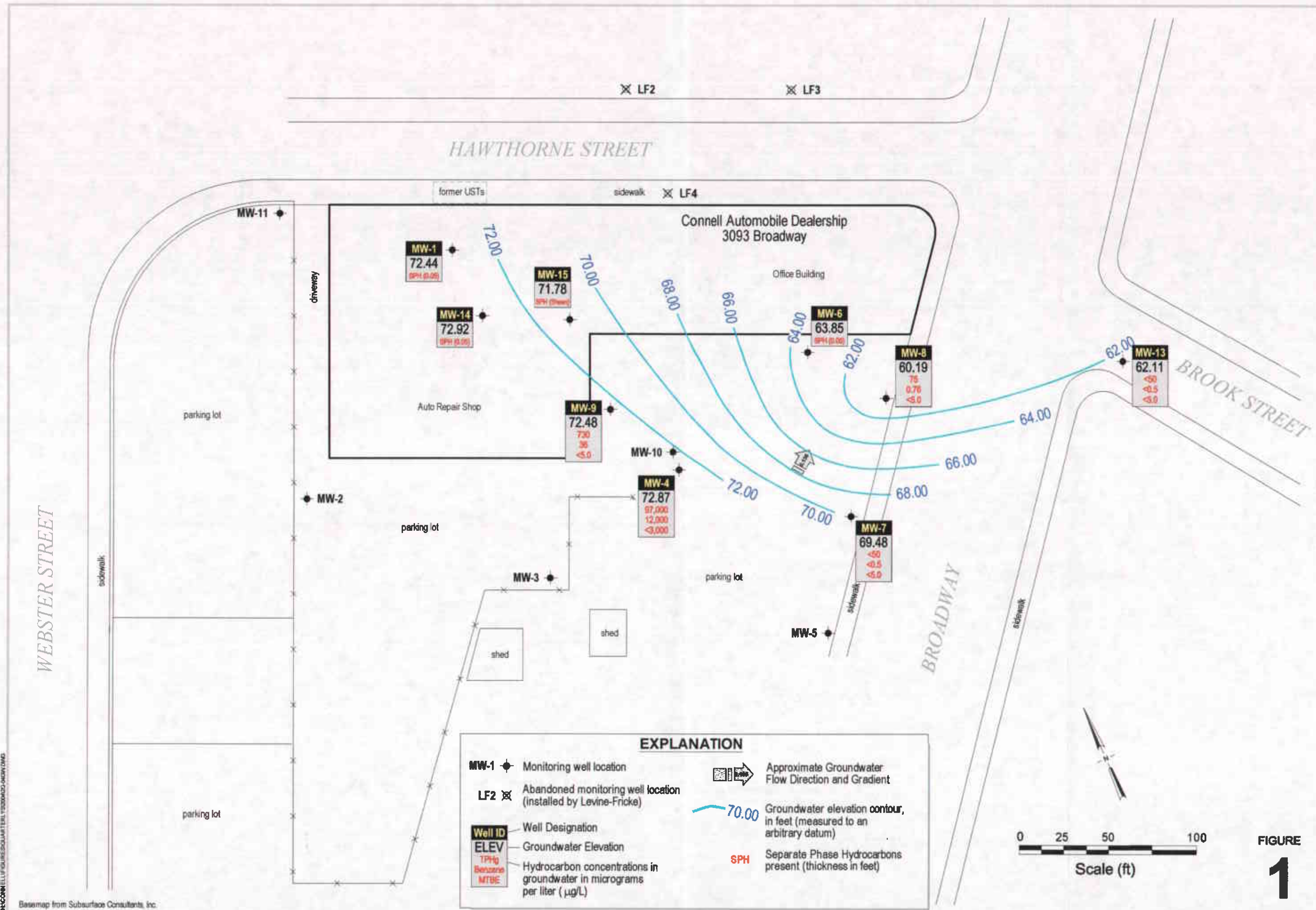
Table 4 – Separate-Phase Hydrocarbon Removal

Appendix A – Well Sampling Protocol

Appendix B – Field Data Sheets

Appendix C – Laboratory Analytical Report

Appendix D – GeoTracker Electronic Delivery Confirmations



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Basemap from Subsurface Consultants, Inc.

FIGURE 1

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs, and Dissolved Oxygen

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
MW-1	10/5/1990	26.40	68.08	620,000	33,000	50,000	7,900	41,000	--	--	ND	--
94.48	3/1/1991	27.46	67.02	SPH	--	--	--	--	--	--	--	--
	10/12/1992	26.44	68.04	490,000	51,000	59,000	5,000	27,000	--	--	--	--
	11/24/1992	26.63	67.85	320,000	35,000	43,000	4,200	22,000	--	--	ND	--
	4/5/1993	23.77	70.71	270,000	50,000	58,000	4,600	25,000	--	--	ND	--
	7/21/1993	24.51	69.97	SPH	--	--	--	--	--	--	--	--
	11/9/1993	26.06	68.42	SPH	--	--	--	--	--	--	--	--
	8/30/1995	21.73	72.75	SPH	--	--	--	--	--	--	--	--
	12/4/1995	21.94	72.54	SPH	--	--	--	--	<200	--	--	--
	5/2/1996	20.65	73.83	340,000	57,000	73,000	7,200	38,000	--	--	--	--
	11/5/1996	24.29	70.19	270,000	43,000	56,000	4,500	34,000	--	--	--	--
	5/9/1997	22.79	71.69	240,000	36,000	45,000	3,300	17,900	--	--	--	--
	11/5/1997	25.06	69.42	240,000	42,000	48,000	3,600	18,800	<1,000	--	--	--
	2/9/1998	22.64	71.84	220,000	47,000	60,000	5,200	29,800	<1,000	--	ND	--
	5/1/1998	19.95	74.53	160,000	35,000	42,000	2,800	16,000	<1,000	--	ND	--
	11/3/1998	23.29	71.19	200,000	39,000	49,000	4,400	26,000	<500	--	ND	--
	3/24/1999	22.30	72.18	SPH	--	--	--	--	--	--	--	--
	7/1/1999	22.70	71.78	SPH	--	--	--	--	--	--	--	--
	9/21/1999	23.81	70.67	SPH	--	--	--	--	--	--	--	--
	2/9/2000	23.95	70.59	SPH	--	--	--	--	--	--	--	--
	5/31/2000	22.05	72.43	SPH	--	--	--	--	--	--	--	--
	8/8/2000	22.49	71.99	SPH	--	--	--	--	--	--	--	--
	11/14/2000	24.65	69.83	SPH	--	--	--	--	--	--	--	--
	3/1/2001	24.22	70.28	SPH	--	--	--	--	--	--	--	--
	5/7/2001	23.85	70.67	SPH (0.05)	--	--	--	--	--	--	--	--
	8/1/2001	23.91	70.64	SPH (0.09)	--	--	--	--	--	--	--	--
	11/5/2001	23.95	70.67	SPH (0.18)	--	--	--	--	--	--	--	--
	2/13/2002	23.15	71.39	SPH(0.07)	--	--	--	--	--	--	--	--
	5/2/2002	23.91	70.60	SPH (0.04)	--	--	--	--	--	--	--	--
	8/4/2002	24.02	70.48	SPH (0.03)	--	--	--	--	--	--	--	--
	11/26/2002	24.47	70.05	SPH (0.05)	--	--	--	--	--	--	--	--
	1/20/2003	22.37	72.14	SPH (0.04)	--	--	--	--	--	--	--	--
	5/28/2003	21.77	72.73	SPH (0.02)	--	--	--	--	--	--	--	--
	8/5/2003	23.07	71.44	SPH (0.04)	--	--	--	--	--	--	--	--

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs, and Dissolved Oxygen

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
>>MW-1 (continued)	11/10/2003	22.53	71.97	SPH (0.03)	--	--	--	--	--	--	--	--
	2/18/2004	22.61	71.91	SPH (0.05)	--	--	--	--	--	--	--	--
	5/27/2004	22.08	72.44	SPH (0.05)	--	--	--	--	--	--	--	--
MW-2 94.81	3/1/1991	27.86	66.95	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	11/24/1992	27.91	66.90	<50	<0.5	1.1	<0.5	1.5	--	--	ND	--
	4/5/1993	25.95	68.86	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	7/21/1993	25.59	69.22	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	11/10/1993	26.72	68.09	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	8/30/1995	25.75	69.06	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	5/3/1996	23.28	71.53	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	5/8/1997	24.58	70.23	<50	<0.5	0.7	<0.5	<0.5	--	--	--	--
4/29/1998	22.18	72.63	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--	
MW-3 90.08	3/1/1991	23.17	66.91	<50	<50	0.6	<0.5	<0.5	--	--	ND	--
	11/25/1992	23.01	67.07	50	<0.5	0.9	<0.5	2	--	--	ND	--
	4/5/1993	22.11	67.97	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	7/21/1993	23.93	66.15	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	11/10/1993	23.14	66.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	8/30/1995	20.61	69.47	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	5/3/1996	18.43	71.65	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	5/8/1997	19.77	70.31	<50	<0.5	0.7	<0.5	<0.5	--	--	--	--
4/29/1998	17.92	72.16	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--	
MW-4 88.84	3/1/1991	23.79	65.05	150,000	20,000	38,000	2,800	14,000	**	--	ND	--
	10/12/1992	22.48	66.36	230,000	15,000	32,000	2,500	14,000	--	--	--	--
	11/24/1992	22.60	66.24	210,000	14,000	31,000	2,500	14,000	--	--	ND	--
	4/2/1993	20.11	68.73	SPH	--	--	--	--	--	--	--	--
	7/21/1993	20.48	68.36	SPH	--	--	--	--	--	--	--	--
	11/9/1993	21.71	67.13	SPH	--	--	--	--	--	--	--	--
	8/30/1995	19.90	68.94	SPH	--	--	--	--	--	--	--	--
	12/1/1995	19.40	69.44	SPH	--	--	--	--	--	--	--	--
	5/2/1996	17.50	71.34	140,000	24,000	50,000	3,000	15,100	--	--	ND	--
11/4/1996	20.13	68.71	160,000	16,000	38,000	2,700	14,000	--	--	ND	--	

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs, and Dissolved Oxygen

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
>>MW-4	5/8/1997	18.63	70.21	170,000	16,000	37,000	2,400	15,900	--	--	--	--
(continued)	11/5/1997	20.19	68.65	190,000	15,000	31,000	2,200	14,600	<400	--	--	--
	2/9/1998	18.28	70.56	110,000	19,000	42,000	2,500	18,300	<500	--	--	--
	5/1/1998	16.11	72.73	130,000	15,000	31,000	2,000	13,400	<1,000	--	ND	--
88.84	8/4/1998	17.54	71.30	130,000	16,000	34,000	2,400	15,700	<400	--	ND	--
	11/2/1998	19.21	69.63	140,000	16,000	32,000	2,300	15,500	<400	--	ND	--
	3/26/1999	17.51	71.33	110,000	15,000	30,000	1,600	15,000	450 ⁴	--	⁵	--
	7/1/1999	18.80	70.04	110,000	13,000	23,000	1,600	12,000	<83	--	⁵	--
	9/21/1999	19.85	68.99	140,000	16,000	31,000	2,400	14,800	ND	--	⁵	3.27
	2/9/2000	19.76	69.08	140,000	16,000	28,000	2,100	14,000	<400	--	DCB: 5.9, MCB: 5.9	--
	5/31/2000	17.90	70.94	15,000	17,000	28,000	2,400	14,000	<0.5 ⁶	--	ND	--
	8/8/2000	18.62	70.22	140,000	15,000	25,000	2,100	13,000	<300	--	ND	0.60
	11/14/2000	19.63	69.21	150,000	19,000	36,000	2,900	17,000	<200	--	ND	0.32
	3/1/2001	19.68	69.16	120,000	10,000	15,000	1,300	10,000	<2000	--	ND	0.13
	5/7/2001	18.60	70.24	210,000	12,000	19,000	1,900	12,000	<200	--	ND	0.23
	8/1/2001	18.73	70.11	160,000	13,000	21,000	2,200	13,000	<200	--	ND	--
	11/5/2001	18.97	69.87	220,000	15,000	26,000	3,100	16,000	<200	--	ND	--
	2/13/2002	18.59	70.25	180,000	6,100	11,000	1,400	13,000	<200	--	2-MNE: 620, NE: 1000	0.43
	5/2/2002	18.77	70.07	110,000	13,000	20,000	2,000	10,000	<1,200	--	ND	0.21
	8/4/2002	18.95	69.89	92,000	9,200	15,000	1,800	10,000	<2,000	--	ND	0.35
	11/26/2002	20.83	68.01	110,000	16,000	26,000	2,700	12,000	<1,000	--	ND	0.29
	1/20/2003	16.90	71.94	110,000	9,000	16,000	1,900	11,000	<1,200	--	ND	0.35
	5/28/2003	15.25	73.59	110,000	13,000	17,000	1,800	8,500	<1,000	--	ND	0.59
	8/5/2003	17.05	71.79	110,000	13,000	20,000	2,200	9,800	<1,000	--	<25	0.66
	11/10/2003	16.60	72.24	130,000	14,000	23,000	2,700	12,000	<2,700	--	--	0.74
	2/18/2004	16.59	72.25	110,000	11,000	17,000	1,600	9,900	<3,500	--	--	0.46
	5/27/2004	15.97	72.87	97,000	12,000	18,000	2,100	8,900	<3,000	--	--	0.59
MW-5	3/15/1991	26.31	58.53	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
84.84	11/10/1992	26.83	58.01	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	4/2/1993	26.62	58.22	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	7/21/1993	26.60	58.24	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	11/9/1993	27.24	57.60	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	8/30/1995	27.46	57.38	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs, and Dissolved Oxygen

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
>>MW-5 (continued)	5/3/1996	26.02	58.82	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	5/8/1997	26.76	58.08	<50	<0.5	0.5	<0.5	<0.5	--	--	--	--
	4/29/1998	26.55	58.29	<50	<0.5	0.5	<0.5	<0.5	<2	--	ND	--
										--		
MW-6	3/15/1991	25.82	59.80	80,000	12,000	13,000	1,100	5,400	--	--	DBCM: 160	--
85.62	10/12/1992	25.02	60.60	19,000	3,200	1,400	200	560	--	--	--	--
	12/1/1992	28.87	56.75	SPH	--	--	--	--	--	--	--	--
	4/2/1993	26.96	58.66	SPH	--	--	--	--	--	--	--	--
	7/21/1993	26.17	59.45	SPH	--	--	--	--	--	--	--	--
	11/9/1993	27.51	58.11	SPH	--	--	--	--	--	--	--	--
	8/30/1995	28.00	57.62	SPH	--	--	--	--	--	--	--	--
	12/1/1995	27.58	58.04	SPH	--	--	--	--	<8,000,000	--	--	--
86.94	5/3/1996	28.15	58.79	130,000	37,000	50,000	3,200	14,200	--	--	ND	--
	5/9/1997	26.54	60.40	1,700,000	14,000	27,000	4,000	28,200	--	--	--	--
	11/5/1997	26.16	60.78	160,000	13,000	19,000	1,900	14,300	<200	--	--	--
	5/1/1998	22.96	62.86	130,000	15,000	23,000	1,700	13,200	<500	--	ND	--
85.82	11/3/1998	24.35	61.47	110,000	17,000	21,000	1,800	10,700	<200	--	ND	--
	3/26/1999	23.82	62.00	SPH	--	--	--	--	--	--	--	--
	7/1/1999	24.45	61.37	SPH	--	--	--	--	--	--	--	--
	9/21/1999	24.58	61.24	SPH	--	--	--	--	--	--	--	--
	2/9/2000	24.93	61.24	SPH	--	--	--	--	--	--	--	--
	5/31/2000	23.47	62.41	SPH	--	--	--	--	--	--	--	--
	8/8/2000	23.85	61.97	SPH	--	--	--	--	--	--	--	--
	11/14/2000	24.61	61.21	SPH	--	--	--	--	--	--	--	--
	3/1/2001	23.97	61.85	SPH	--	--	--	--	--	--	--	--
	5/7/2001	23.17	62.71	SPH	--	--	--	--	--	--	--	--
	8/1/2001	obstruction in well			--	--	--	--	--	--	--	--
	11/5/2001	obstruction in well			--	--	--	--	--	--	--	--
	2/13/2002	obstruction in well			--	--	--	--	--	--	--	--
	5/2/2002	23.25	62.41	SPH (0.05)	--	--	--	--	--	--	--	--
	8/4/2002	23.55	62.29	SPH (0.03)	--	--	--	--	--	--	--	--
	11/26/2002	24.22	61.62	SPH (0.03)	--	--	--	--	--	--	--	--
1/20/2003	22.49	63.36	SPH (0.04)	--	--	--	--	--	--	--	--	
5/28/2003	21.92	63.93	SPH (0.04)	--	--	--	--	--	--	--	--	

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs, and Dissolved Oxygen

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
>>MW-6	8/5/2003	23.98	61.87	SPH (0.04)	--	--	--	--	--	--	--	--
(continued)	11/10/2003	23.50	62.40	SPH (0.10)	--	--	--	--	--	--	--	--
	2/18/2004	22.21	63.64	SPH (0.04)	--	--	--	--	--	--	--	--
	5/27/2004	22.01	63.85	SPH (0.05)	--	--	--	--	--	--	--	--
MW-7	3/15/1991	21.63	63.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
85.41	11/24/1992	21.52	63.89	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	4/2/1993	20.08	65.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	7/21/1993	19.59	65.82	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	11/9/1993	20.65	64.76	<50	<0.5	1	<0.5	1.7	--	--	ND	--
	8/30/1995	18.78	66.63	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	12/1/1995	19.47	65.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	5/2/1996	17.15	68.26	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	8/8/1996	18.48	66.93	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--
	11/4/1996	18.69	66.72	<50	<1	<1	<1	<1	--	--	ND	--
	2/6/1997	17.44	67.97	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--
	5/8/1997	17.72	67.69	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	8/7/1997	18.49	66.92	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--
	11/5/1997	18.86	66.55	<50	<0.5	<0.5	<0.5	<0.5	<2	--	--	--
	2/9/1998	17.56	67.85	<50	<0.5	<0.5	<0.5	<0.5	<2	--	--	--
	4/29/1998	16.23	69.18	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--
	8/4/1998	17.24	68.17	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--
	11/2/1998	17.91	67.50	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--
	3/26/1999	16.42	68.99	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--
	7/1/1999	17.90	67.51	85	<0.5	1.1	0.55	2.5	<0.5	--	5	--
	9/21/1999	18.91	66.50	<50	0.7	1.8	<0.5	1.5	<5.0	--	ND	4.32
	2/9/2000	16.74	68.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--
	5/31/2000	16.21	69.20	<50	3	6	1	9	<0.5	--	ND	--
	8/8/2000	16.92	68.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.43
	11/14/2000	17.00	68.41	<50	<0.5	0.63	<0.5	<0.5	<5.0	--	ND	0.44
	3/1/2001	17.09	68.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	--
	5/7/2001	17.19	68.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.51
	8/1/2001	17.25	68.16	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	--
	11/5/2001	17.35	68.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	--

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs, and Dissolved Oxygen

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
>>MW-7	2/13/2002	17.50	67.91	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.80
(continued)	5/2/2002	17.30	68.11	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.31
	8/4/2002	17.58	67.83	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.37
	11/26/2002	18.35	67.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.28
	1/20/2003	15.84	69.57	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.61
	5/28/2003	15.19	70.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.74
	8/5/2003	17.00	68.41	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	0.61
	11/10/2003	16.54	68.87	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	0.65
	2/18/2004	16.47	68.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	0.74
	5/27/2004	15.93	69.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	0.65
MW-8	10/12/1992	27.70	57.80	70	20	1	1	3	--	--	--	--
85.50	11/25/1992	27.62	57.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	4/8/1993	26.64	58.86	490	15	45	5.1	73	--	--	ND	--
	7/21/1993	26.60	58.90	180	2.5	3	<0.5	1.9	--	--	ND	--
	11/11/1993	27.18	58.32	310	23	<0.5	<0.5	<0.5	--	--	ND	--
	8/30/1995	26.35	59.15	660	360	6.8	13	2.8	--	--	--	--
	12/4/1995	26.72	58.78	250	46	0.9	4.9	<0.5	--	--	ND	--
	5/3/1996	25.47	60.03	69	110	<0.5	<0.5	1.5	--	--	ND	--
	8/8/1996	26.41	59.09	120	11	<0.5	<0.5	<0.5	<2	--	ND	--
	11/5/1996	26.77	58.73	110	20	<1	1	<1	--	--	ND	--
	2/6/1997	25.84	59.66	67	51	<0.5	0.56	<0.5	<2	--	ND	--
	5/9/1997	26.39	59.11	110	59	<0.5	<0.5	<0.5	--	--	--	--
	8/7/1997	26.72	58.78	<50	12	<0.5	<0.5	<0.5	<2	--	ND	--
	11/5/1997	26.82	58.68	<50	9.4	<0.5	<0.5	<0.5	<2	--	--	--
	2/9/1998	25.57	59.93	<50	6	<0.5	<0.5	<0.5	<2	--	--	--
	5/1/1998	25.64	59.86	430	490	7.1	27	26	<10	--	ND	--
	8/5/1998	25.96	59.54	140	19	<0.5	5.2	5.3	<2	--	ND	--
	11/3/1998	26.27	59.23	150	110	1.1	4.3	4.5	<2	--	ND	--
	3/31/1999	20.93	64.57	54	170	1.5	4.1	1.9	4.4	--	1,1 DCA: 0.7	--
	7/1/1999	26.59	58.91	140	58	0.9	3	2.3	<0.5	--	⁵	--
	9/21/1999	26.89	58.61	670	170	2.6	11	7.9	<5	--	ND	2.61
	2/9/2000	26.60	58.90	300	60	1.2	4.8	1.2	<5.0	--	<0.5	--
	8/8/2000	26.43	59.07	270	56	1.2	4.1	1.0	<5.0	--	ND	0.25

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs, and Dissolved Oxygen

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
>>MW-8 (continued)	11/14/2000	26.60	58.90	330	64	1.3	3.5	0.60	< 5.0	--	ND	0.51
	3/1/2001	26.41	59.09	400	140	<0.5	<0.5	0.55	<5.0	--	ND	--
	5/7/2001	26.55	58.95	240	37	0.71	2.5	0.77	<5.0	--	ND	0.49
	8/1/2001	26.71	58.79	130	5.2	<0.5	<0.5	<0.5	<5.0	--	ND	--
	11/5/2001	26.67	58.83	140	3.3	<0.5	<0.5	<0.5	<5.0	--	ND	--
	2/13/2002	26.15	59.35	1,100	440	0.087	0.66	2.0	<5.0	--	ND	0.71
	5/2/2002	26.63	58.87	90	3.9	<0.5	<0.5	<0.5	<5.0	--	ND	0.37
	8/4/2002	26.80	58.70	120	2.4	0.77	<0.5	<0.5	<5.0	--	ND	0.44
	11/26/2002	27.50	58.00	85	3.7	<0.5	<0.5	<0.5	<5.0	--	ND	0.48
	1/20/2003	24.93	60.57	90	3.9	0.67	<0.5	<0.5	<5.0	--	ND	0.65
	5/28/2003	24.28	61.22	120	1.4	<0.5	<0.5	<0.5	<5.0	--	ND	0.71
	8/5/2003	26.51	58.99	150 ^f	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	0.67
	11/10/2003	26.04	59.46	50	0.84	<0.5	<0.5	<0.5	<5.0	--	--	0.70
	2/18/2004	25.97	59.53	52	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	0.69
	5/27/2004	25.31	60.19	75	0.76	<0.5	<0.5	<0.5	<5.0	--	--	0.98
MW-9 90.37	11/24/1992	23.51	66.86	19,000	180	590	23	2,000	--	--	TCM: 15	--
	4/5/1993	21.14	69.23	2,300	48	4	0.6	13	--	--	TCM: 2	--
	7/21/1993	21.54	68.83	2,300	170	8.1	15	<0.5	--	--	ND	--
	11/10/1993	27.53	62.84	4,400	69	7.3	21	9.7	--	--	ND	--
	8/30/1995	19.59	70.78	3,200	3,900	49	80	22.8	--	--	--	--
	12/4/1995	20.65	69.72	--	--	--	--	--	<2	--	--	--
	5/2/1996	18.63	71.74	<1300	2,600	<13	200	<13	--	--	ND	--
	11/5/1996	20.69	69.68	1,800	280	<5	65	<5	--	--	ND	--
	5/9/1997	19.96	70.41	1,100	160	<0.5	42	<0.5	--	--	--	--
	8/8/1997	20.84	69.53	570 ^{1,2}	<0.5	<0.5	<0.5	0.78 ³	<2	--	ND	--
	11/5/1997	21.55	68.82	490 ¹	<0.5	<0.5	6	<0.5	<2	--	--	--
	2/9/1998	20.21	70.16	270 ¹	48	17	5.8	<0.5	<2	--	--	--
	5/1/1998	19.27	71.10	550	70	<0.5	22	2.2	<2	--	ND	--
	8/5/1998	19.35	71.02	550 ¹	88	<0.5	13	1.9 ³	<2	--	ND	--
	11/2/1998	20.43	69.94	580	<0.5	<0.5	7.5 ³	1.6 ³	<2	--	ND	--
3/25/1999	18.46	71.91	1,100	160	<0.5	21	2.1 ³	5.7 ⁴	--	ND	--	
7/1/1999	19.95	70.42	540	100	7.4	26	16.9	<1.3	--	⁵	--	
9/21/1999	21.15	69.22	2,700	320	98	88	47	<20	--	ND	5.86	

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 Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
>>MW-9 (continued)	2/9/2000	21.08	69.29	1,600	81	3.6	19	18	<5.0	--	<0.5	--
	5/31/2000	19.11	71.26	1,500	170	13	25	<1.0	<0.5	--	ND	--
	8/8/2000	19.86	70.51	1,300	140	2.1	19	<0.5	<5.0	--	ND	2.4
	11/14/2000	20.90	69.47	1,700	250	2.6	44	2.1	<5.0	--	ND	0.29
	3/1/2001	20.45	69.92	1,800	170	5.6	30	2.5	<20	--	ND	0.31
	5/7/2001	19.83	70.54	1,500	120	2.6	24	<0.5	<5.0	--	ND	0.18
	8/1/2001	20.02	70.35	2,600	280	4.8	50	<0.5	<5.0	--	ND	--
	11/5/2001	19.85	70.52	2,200	170	4.5	100	0.54	<5.0	--	ND	--
	2/13/2002	19.80	70.57	1,800	98	3	58	1.5	<5.0	--	ND	0.53
	5/2/2002	19.93	70.44	1,100	82	1.4	20	<0.5	<10	--	ND	0.28
	8/4/2002	20.20	70.17	1,200	130	2.5	50	0.58	<10	--	ND	0.51
	11/26/2002	20.37	70.00	1,200	150	3.3	48	<2.5	<25	--	ND	0.53
	1/20/2003	17.93	72.44	840	110	1.2	31	0.76	<5.0	--	ND	0.31
	5/28/2003	17.25	73.12	1,100	40	1.9	3.0	<0.5	<20	--	ND	0.60
	8/5/2003	19.03	71.34	1,100 ^a	62	0.99	25	<0.5	<5.0	--	<10	0.54
	11/10/2003	18.65	71.72	1,500	120	7.6	41	<1.0	<10	--	--	0.62
	2/18/2004	18.41	71.96	820	50	1.2	19	<0.5	<5.0	--	--	0.58
5/27/2004	17.89	72.48	730	36	2.0	11	1.6	<5.0	--	--	0.90	
MW-10 88.60	10/12/1992	21.55	67.05	28,000	2,700	3,800	210	1,300	--	--	--	--
	11/24/1992	21.86	66.74	130,000	9,700	19,000	1,400	8,400	--	--	ND	--
	4/5/1993	19.14	69.46	63,000	6,300	14,000	1,100	7,500	--	--	ND	--
	7/21/1993	19.79	68.81	140,000	16,000	31,000	2,200	13,000	--	--	ND	--
	8/30/1995	17.99	70.61	92,000	13,000	24,000	1,800	9,100	--	--	--	--
	5/3/1996	17.04	71.56	81,000	17,000	29,000	2,100	8,500	--	--	ND	--
	5/9/1997	18.36	70.24	63,000	7,400	13,000	940	4,100	--	--	--	--
5/1/1998	15.84	72.76	60,000	7,100	14,000	1,100	5,300	<250	--	ND	--	
MW-11 102.06	11/24/1992	33.65	68.41	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	12/8/92***	33.37	68.69	<50	<0.1	<0.1	<0.1	<0.1	--	--	--	--
	12/8/1992	33.37	68.69	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	4/5/1993	31.03	71.03	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	7/21/1993	31.90	70.16	160	<0.5	1.8	<0.5	<0.5	--	--	ND	--
11/9/1993	32.60	69.46	80	<0.5	<0.5	<0.5	<0.5	--	--	ND	--	

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Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
>>MW-11 (continued)	8/30/1995	28.92	73.14	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	5/3/1996	28.00	74.06	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	5/8/1997	29.93	72.13	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	4/29/1998	27.22	74.84	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--
MW-13 84.06	11/24/1992	26.05	58.01	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	12/8/92***	25.08	58.98	<50	<0.1	<0.1	<0.1	<0.1	--	--	--	--
	12/8/1992	25.08	58.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	4/5/1993	24.64	59.42	<50	<0.5	0.9	<0.5	<0.5	--	--	ND	--
	7/21/1993	24.29	59.77	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	11/9/1993	24.23	59.83	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	8/30/1995	23.30	60.76	<50	49	<0.5	<0.5	<0.5	--	--	--	--
	12/1/1995	23.80	60.26	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	5/3/1996	23.19	60.87	<50	<0.5	<0.5	<0.5	<0.5	--	--	ND	--
	8/8/1996	23.44	60.62	<50	32	<0.5	<0.5	<0.5	<2	--	ND	--
	11/5/1996	24.04	60.02	<50	<1	<1	<1	<1	--	--	ND	--
	2/6/1997	23.24	60.82	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--
	5/8/1997	23.46	60.60	<50	81	<0.5	<0.5	<0.5	--	--	--	--
	8/8/1997	23.92	60.14	<50	<0.5	<0.5	<0.5	<0.5	<2	--	ND	--
	11/5/1997	24.27	59.79	<50	<0.5	<0.5	<0.5	<0.5	<2	--	--	--
	2/9/1998	22.89	61.17	<50	<0.5	<0.5	<0.5	<0.5	<2	--	--	--
	4/29/1998	22.27	61.79	<50	24	<0.5	<0.5	<0.5	<2	--	ND	--
	8/4/1998	22.75	61.31	120	200	<1	<1	<1	<4	--	ND	--
	11/3/1998	23.90	60.16	59 ¹	33	<0.5	<0.5	<0.5	<2	--	ND	--
	3/31/1999	23.11	60.95	130	0.56	<0.5	<0.5	<0.5	<2	--	ND	--
7/1/1999	23.40	60.66	160	370	19	1.2	3.5	<1	--	⁵	--	
9/21/1999	21.91	62.15	370	150	1.0	0.8	0.8	<5.0	--	ND	3.76	
2/9/2000	23.84	60.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	
8/8/2000	23.31	60.75	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	1.76	
11/14/2000	24.00	60.06	<50	<0.5	0.52	<0.5	<0.5	<5.0	--	ND	0.49	
3/1/2001	23.93	60.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	--	
5/7/2001	23.93	60.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.59	
8/1/2001	24.10	59.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	--	
11/5/2001	24.02	60.04	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	--	

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs, and Dissolved Oxygen

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
>>MW-13 (continued)	2/13/2002	23.70	60.36	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.55
	5/2/2002	23.97	60.09	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.63
	8/4/2002	24.19	59.87	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.31
	11/26/2002	24.78	59.28	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.47
	1/20/2003	22.10	61.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.53
	5/28/2003	21.72	62.34	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	0.75
	8/5/2003	23.99	60.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	0.59
	11/10/2003	23.47	60.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	0.70
	2/18/2004	22.58	61.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	0.52
	5/27/2004	21.95	62.11	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	0.84
MW-14 94.66	5/26/1998	21.67	72.99	41,000	7,100	11,000	720	3,900	<1000	--	ND	--
	7/1/1999	22.95	71.71	SPH	--	--	--	--	--	--	--	--
	9/21/1999	24.26	70.40	SPH	--	--	--	--	--	--	--	--
	2/9/2000	24.13	70.53	92,000	12,000	17,000	1,300	8,700	<140	--	<0.5	--
	5/31/2000	22.09	72.57	SPH	--	--	--	--	--	--	--	--
	8/8/2000	22.88	71.78	SPH	--	--	--	--	--	--	--	--
	11/14/2000	23.90	70.76	SPH	--	--	--	--	--	--	--	--
	3/1/2001	23.97	70.69	SPH	--	--	--	--	--	--	--	--
	5/7/2001	23.45	71.23	SPH (sheen)	--	--	--	--	--	--	--	--
	8/1/2001	23.57	71.12	SPH (0.06)	--	--	--	--	--	--	--	--
	11/5/2001	23.50	71.18	SPH (0.03)	--	--	--	--	--	--	--	--
	2/13/2002	22.99	71.70	SPH (0.04)	--	--	--	--	--	--	--	--
	5/2/2002	23.51	71.17	SPH (0.02)	--	--	--	--	--	--	--	--
	8/4/2002	23.61	71.06	SPH (0.01)	--	--	--	--	--	--	--	--
	1/20/2003	22.35	72.31	SPH (sheen)	--	--	--	--	--	--	--	--
	5/28/2003	21.95	72.74	SPH (0.04)	--	--	--	--	--	--	--	--
	8/5/2003	23.03	71.66	SPH (0.04)	--	--	--	--	--	--	--	--
	11/10/2003	22.70	72.02	SPH (0.07)	--	--	--	--	--	--	--	--
	2/18/2004	22.37	72.32	SPH (0.04)	--	--	--	--	--	--	--	--
	5/27/2004	21.78	72.92	SPH (0.05)	--	--	--	--	--	--	--	--

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs, and Dissolved Oxygen

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)	
MW-15	5/26/1998	21.87	72.89	130,000	30,000	38,000	2,500	12,600	<1000	--	ND	--	
94.76	7/1/1999	22.25	72.51	SPH	--	--	--	--	--	--	--	--	
	9/21/1999	24.12	70.64	SPH	--	--	--	--	--	--	--	--	
	2/9/2000	24.42	70.34	180,000	32,000	37,000	2,800	14,000	<200	--	<0.5	--	
	5/31/2000	22.40	72.36	SPH	--	--	--	--	--	--	--	--	
	8/8/2000	23.17	71.59	SPH	--	--	--	--	--	--	--	--	
	11/14/2000	24.15	70.61	SPH	--	--	--	--	--	--	--	--	
	3/1/2001	23.99	70.77	SPH	--	--	--	--	--	--	--	--	
	5/7/2001	23.50	71.26	SPH (sheen)	--	--	--	--	--	--	--	--	--
	8/1/2001	23.62	71.14	SPH (sheen)	--	--	--	--	--	--	--	--	--
	11/5/2001	23.65	71.11	SPH (sheen)	--	--	--	--	--	--	--	--	--
	2/13/2002	23.09	71.67	68,000	9,300	8,500	760	2,600	<200	--	ND	0.59	
	5/2/2002	23.59	71.17	SPH (sheen)	--	--	--	--	--	--	--	--	--
	8/4/2002	23.65	71.11	SPH (sheen)	--	--	--	--	--	--	--	--	--
	11/26/2002	24.59	70.17	SPH (sheen)	--	--	--	--	--	--	--	--	--
	1/20/2003	22.08	72.68	48,000	9,900	10,000	1,000	3,600	<1,200	--	ND	0.24	
	5/28/2003	21.68	73.08	SPH (sheen)	--	--	--	--	--	--	--	--	--
	8/5/2003	24.05	70.71	SPH (sheen)	--	--	--	--	--	--	--	--	--
	11/10/2003	23.68	71.08	SPH (sheen)	--	--	--	--	--	--	--	--	--
	2/18/2004	23.51	71.25	25,000	5,200	3,600	390	1,100	<1,000	--	--	0.63	
	5/27/2004	22.98	71.78	SPH (sheen)	--	--	--	--	--	--	--	--	--

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons, HVOCs, and Dissolved Oxygen

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH/TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	Other HVOCs (µg/L)	DO (mg/L)
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Abbreviations and Notes:

TOC Elev. (ft) = Top of casing elevation, surveyed to an arbitrary datum (measured in feet)

µg/L = micrograms per liter = parts per billion = ppb

-- = Not measured or not analyzed

ND = Not detected above laboratory reporting limit, see laboratory report for individual reporting limits

SPH = Separate-phase hydrocarbons encountered in well (value in parentheses is thickness in feet)

TVH = Total Volatile Hydrocarbons

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015; value in parentheses by EPA Method 8260

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B; value in parentheses by EPA Method 8260

MTBE = Methyl tertiary butyl ether by EPA Method 8021B; values in parentheses by EPA Method 8260

See laboratory analytical reports for notes.

1,2-DCA = 1,2 Dichloroethane by EPA Method 8010

HVOCs = Halogenated volatile organic compounds by EPA Method 8010

DCB = 1, 3 Dichlorobenzene

MCB = Chlorobenzene

DBCM = Dibromochloromethane

TCM = Chloroform = trichloromethane

DO = Dissolved oxygen, measured in the field.

<n = Chemical not present at a concentration in excess of detection limit shown.

* = Suspect laboratory contamination contributing to test result.

** = Fuel fingerprint analysis indicates MTBE is not present in the free product sample collected from this well.

*** = Duplicate sample sent to a different chemical laboratory.

1 = Sample exhibits fuel pattern which does not resemble standard

2 = Lighter hydrocarbons than indicated standard

3 = Presence of this compound confirmed by second column, however, the confirmation concentration differed from the reported result by more than a factor of two.

4 = Detection may potentially be a false positive, to be checked during the next event.

5 = One or more of the following substances found: Acetone, 1,2-Dibromoethane, 1,3,5-Trimethylbenzene, 2-Chlorotoluene, 1,2,4-Trimethylbenzene, n-Butylbenzene, and Naphthalene.

See laboratory results for details.

6 = Confirmed by GC/MS.

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Other SVOCs (µg/L)
MW-1	10/5/1990	26.40	68.08	<500	--	--	--	--	--
94.48	3/1/1991	27.46	67.02	SPH	--	--	--	--	--
	10/12/1992	26.44	68.04	--	--	--	--	--	--
	11/24/1992	26.63	67.85	4,600	--	--	--	--	--
	4/5/1993	23.77	70.71	25,000	--	--	--	--	--
	7/21/1993	24.51	69.97	SPH	--	--	--	--	--
	11/9/1993	26.06	68.42	SPH	--	--	--	--	--
	8/30/1995	21.73	72.75	SPH	--	--	630	1,200	ND
	12/4/1995	21.94	72.54	SPH	--	--	--	--	--
	5/2/1996	20.65	73.83	32,000	--	--	250	640	ND
	11/5/1996	24.29	70.19	--	--	--	--	--	--
	5/9/1997	22.79	71.69	28,000	--	--	280	650	ND
	11/5/1997	25.06	69.42	28,000	--	--	720	1,500	ND
	2/9/1998	22.64	71.84	27,000	--	--	160	570	ND
	5/1/1998	19.95	74.53	29,000	--	--	--	--	--
	5/27/1998	--	--	--	--	--	120	630	ND
	11/3/1998	23.29	71.19	37,000	--	--	500	1,100	ND
	3/24/1999	22.30	72.18	SPH	--	--	--	--	--
	7/1/1999	22.70	71.78	SPH	--	--	--	--	--
	9/21/1999	23.81	70.67	SPH	--	--	--	--	--
	2/9/2000	23.95	70.59	--	SPH	--	--	--	--
	5/31/2000	22.05	72.43	--	SPH	--	--	--	--
	11/14/2000	24.65	69.83	--	SPH	--	--	--	--
	3/1/2001	24.22	70.28	--	SPH	--	--	--	--
	5/7/2001	23.85	70.67	--	SPH	--	--	--	--
	8/1/2001	23.91	70.64	--	SPH	--	--	--	--
	11/5/2001	23.95	70.67	--	SPH	--	--	--	--
	2/13/2002	23.15	71.39	--	SPH (0.07)	--	--	--	--
	5/2/2002	23.91	70.60	--	SPH (0.04)	--	--	--	--
	8/4/2002	24.02	70.48	--	SPH (0.03)	--	--	--	--
	11/26/2002	24.47	70.05	--	SPH (0.05)	--	--	--	--
	1/20/2003	22.37	72.14	--	SPH (0.04)	--	--	--	--
	5/28/2003	21.77	72.73	--	SPH (0.02)	--	--	--	--
	8/5/2003	23.07	71.44	--	SPH (0.04)	--	--	--	--
	11/10/2003	22.53	71.97	--	SPH (0.03)	--	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID <i>TOC Elev.</i> <i>(ft)</i>	Sampling Date	Depth to water <i>(ft)</i>	Groundwater Elevation <i>(ft)</i>	TEH <i>(µg/L)</i>	TPHd <i>(µg/L)</i>	TPHmo <i>(µg/L)</i>	2-Methyl naphthalene <i>(µg/L)</i>	Naphthalene <i>(µg/L)</i>	Other SVOCs <i>(µg/L)</i>
MW-1	2/18/2004	22.61	71.91	--	SPH (0.05)	--	--	--	--
<i>(cont'd)</i>	5/27/2004	22.08	72.44	--	SPH (0.05)	--	--	--	--
MW-2	3/1/1991	27.86	66.95	<50	--	--	--	--	--
<i>94.81</i>	11/24/1992	27.91	66.90	<50	--	--	--	--	--
	4/5/1993	25.95	68.86	870	--	--	--	--	--
	7/21/1993	25.59	69.22	<50	--	--	--	--	--
	11/10/1993	26.72	68.09	240	--	--	--	--	--
	8/30/1995	25.75	69.06	150	--	--	--	--	--
	5/3/1996	23.28	71.53	<50	--	--	--	--	--
	5/8/1997	24.58	70.23	<50	--	--	--	--	--
	4/29/1998	22.18	72.63	<47	--	--	--	--	--
MW-3	3/1/1991	23.17	66.91	<50	--	--	--	--	--
<i>90.08</i>	11/25/1992	23.01	67.07	160	--	--	--	--	--
	4/5/1993	22.11	67.97	<50	--	--	--	--	--
	7/21/1993	23.93	66.15	<50	--	--	--	--	--
	11/10/1993	23.14	66.94	<50	--	--	--	--	--
	8/30/1995	20.61	69.47	<50	--	--	--	--	--
	5/3/1996	18.43	71.65	<50	--	--	--	--	--
	5/8/1997	19.77	70.31	<50	--	--	--	--	--
	4/29/1998	17.92	72.16	<47	--	--	--	--	--
MW-4	3/1/1991	23.79	65.05	<500	--	--	--	--	--
<i>88.84</i>	10/12/1992	22.48	66.36	--	--	--	--	--	--
	11/24/1992	22.60	66.24	1,600	--	--	--	--	--
	4/2/1993	20.11	68.73	SPH	--	--	--	--	--
	7/21/1993	20.48	68.36	SPH	--	--	--	--	--
	11/9/1993	21.71	67.13	SPH	--	--	--	--	--
	8/30/1995	19.90	68.94	SPH	--	--	--	--	--
	12/1/1995	19.40	69.44	SPH	--	--	--	--	--
	5/2/1996	17.50	71.34	9,200	--	--	--	--	--
	11/4/1996	20.13	68.71	4,700	--	--	--	--	--
	5/8/1997	18.63	70.21	5,100	--	--	--	--	--
	11/5/1997	20.19	68.65	3,700	--	--	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Other SVOCs (µg/L)
MW-4	2/9/1998	18.28	70.56	4,800	--	--	--	--	--
(cont'd)	5/1/1998	16.11	72.73	5,000	--	--	--	--	--
	8/4/1998	17.54	71.30	3,500	--	--	--	--	--
	11/2/1998	19.21	69.63	7,200	--	--	--	--	--
	3/26/1999	17.51	71.33	14,000	--	--	--	--	--
	7/1/1999	18.80	70.04	17,000	--	--	370	860	ND
	9/21/1999	19.85	68.99	14,000	--	--	360	820	ND
	2/9/2000	19.76	69.08	--	12,000	1,000	290	700	ND
	5/31/2000	17.90	70.94	--	14,000 **	<500	--	--	--
	11/14/2000	19.63	69.21	--	8,000	290	--	--	--
	3/1/2001	19.68	69.16	--	57,000	2,800	210	510	ND
	5/7/2001	18.60	70.24	--	56,000	3,600	--	--	--
	8/1/2001	18.73	70.11	--	42,000	6,700	--	--	--
	11/5/2001	18.97	69.87	--	49,000	14,000	--	--	--
	2/13/2002	18.59	70.25	--	140,000	11,000	620	1000	--
	5/2/2002	18.77	70.07	--	68,000	<25,000	--	--	--
	8/4/2002	18.95	69.89	--	58,000	<25,000	--	--	--
	11/26/2002	20.83	68.01	--	7,100	<250	--	--	--
	1/20/2003	16.90	71.94	--	29,000	<2500	--	--	--
	5/28/2003	15.25	73.59	--	12,000	300	--	--	--
	8/5/2003	17.05	71.79	--	6,600	<250	--	--	--
	11/10/2003	16.60	72.24	--	15,000	--	--	--	--
	2/18/2004	16.59	72.25	--	16,000	--	--	--	--
	5/27/2004	15.97	72.87	--	23,000	<2,500	--	--	--
MW-5	3/15/1991	26.31	58.53	<50	--	--	--	--	--
84.84	11/10/1992	26.83	58.01	50	--	--	--	--	--
	4/2/1993	26.62	58.22	<50	--	--	--	--	--
	7/21/1993	26.60	58.24	190	--	--	--	--	--
	11/9/1993	27.24	57.60	170	--	--	--	--	--
	8/30/1995	27.46	57.38	180	--	--	--	--	--
	5/3/1996	26.02	58.82	<50	--	--	--	--	--
	5/8/1997	26.76	58.08	<50	--	--	--	--	--
	4/29/1998	26.55	58.29	<47	--	--	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Other SVOCs (µg/L)
MW-6	3/15/1991	25.82	59.80	<50	--	--	--	--	--
85.62	10/12/1992	25.02	60.60	--	--	--	--	--	--
	12/1/1992	28.87	56.75	SPH	--	--	--	--	--
	4/2/1993	26.96	58.66	SPH	--	--	--	--	--
	7/21/1993	26.17	59.45	SPH	--	--	--	--	--
	11/9/1993	27.51	58.11	SPH	--	--	--	--	--
	8/30/1995	28.00	57.62	SPH	--	--	--	--	--
	12/1/1995	27.58	58.04	SPH	--	--	--	--	--
86.94	5/3/1996	26.83	58.79	9,000	--	--	--	--	--
	5/9/1997	26.54	60.40	53,000	--	--	--	--	--
85.82	11/5/1997	26.16	60.78	65,000	--	--	--	--	--
	5/1/1998	22.96	62.86	25,000	--	--	--	--	--
	11/3/1998	24.35	61.47	30,000	--	--	--	--	--
	3/26/1999	23.82	62.00	SPH	--	--	--	--	--
	7/1/1999	24.45	61.37	SPH	--	--	--	--	--
	9/21/1999	24.58	61.24	SPH	--	--	--	--	--
	2/9/2000	24.93	61.24	--	SPH	--	--	--	--
	5/31/2000	23.47	62.41	--	SPH	--	--	--	--
	11/14/2000	24.61	61.21	--	SPH	--	--	--	--
	3/1/2001	23.97	61.85	--	SPH	--	--	--	--
	5/7/2001	23.17	-23.11	--	SPH	--	--	--	--
	8/1/2001		obstruction in well	--	--	--	--	--	--
	11/5/2001		obstruction in well	--	--	--	--	--	--
	2/13/2002		obstruction in well	--	--	--	--	--	--
	5/2/2002	23.25	62.41	--	SPH (0.05)	--	--	--	--
	8/4/2002	23.55	62.29	--	SPH (0.03)	--	--	--	--
	11/26/2002	24.22	61.62	--	SPH (0.03)	--	--	--	--
1/20/2003	22.49	63.36	--	SPH (0.04)	--	--	--	--	
5/28/2003	21.92	63.93	--	SPH (0.04)	--	--	--	--	
8/5/2003	23.98	61.87	--	SPH (0.04)	--	--	--	--	
11/10/2003	23.50	62.40	--	SPH (0.10)	--	--	--	--	
2/18/2004	22.21	63.64	--	SPH (0.04)	--	--	--	--	
5/27/2004	22.01	63.85	--	SPH (0.05)	--	--	--	--	

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Other SVOCs (µg/L)
MW-7	3/15/1991	21.63	63.78	<50	--	--	--	--	--
85.41	11/24/1992	21.52	63.89	<50	--	--	--	--	--
	4/2/1993	20.08	65.33	<50	--	--	--	--	--
	7/21/1993	19.59	65.82	150	--	--	--	--	--
	11/9/1993	20.65	64.76	200	--	--	--	--	--
	8/30/1995	18.78	66.63	170	--	--	--	--	--
	12/1/1995	19.47	65.94	<50	--	--	--	--	--
	5/2/1996	17.15	68.26	<50	--	--	--	--	--
	8/8/1996	18.48	66.93	<50	--	--	--	--	--
	11/4/1996	18.69	66.72	<50	--	--	--	--	--
	2/6/1997	17.44	67.97	<50	--	--	--	--	--
	5/8/1997	17.72	67.69	<50	--	--	--	--	--
	8/7/1997	18.49	66.92	<50	--	--	--	--	--
	11/5/1997	18.86	66.55	<50	--	--	--	--	--
	2/9/1998	17.56	67.85	<50	--	--	--	--	--
	4/29/1998	16.23	69.18	<47	--	--	--	--	--
	8/4/1998	17.24	68.17	<50	--	--	--	--	--
	11/2/1998	17.91	67.50	<50	--	--	--	--	--
	3/26/1999	16.42	68.99	<50	--	--	--	--	--
	7/1/1999	17.90	67.51	<50	--	--	<10	<10	ND
	9/21/1999	18.91	66.50	<48	--	--	<9.5	<9.5	ND
	2/9/2000	16.74	68.67	--	<50	<250	<10	<10	ND
	5/31/2000	16.21	69.20	--	<50	<500	--	--	--
	11/14/2000	17.00	68.41	--	<50	<250	--	--	--
	3/1/2001	17.09	68.32	--	<50	<250	<10	<10	ND
	5/7/2001	17.19	68.22	--	<50	<250	--	--	--
	8/1/2001	17.25	68.16	--	<50	<250	--	--	--
	11/5/2001	17.35	68.06	--	<50	<250	--	--	--
	2/13/2002	17.50	67.91	--	<50	<250	--	--	--
	5/2/2002	17.30	68.11	--	<50	<250	--	--	--
	8/4/2002	17.58	67.83	--	<50	<250	--	--	--
11/26/2002	18.35	67.06	--	<50	<250	--	--	--	
1/20/2003	15.84	69.57	--	83	<250	--	--	--	
5/28/2003	15.19	70.22	--	<50	<250	--	--	--	
8/5/2003	17.00	68.41	--	<50	<250	--	--	--	

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Other SVOCs (µg/L)
MW-7	11/10/2003	16.54	68.87	--	<50	--	--	--	--
(cont'd)	2/18/2004	16.47	68.94	--	<50	--	--	--	--
	5/27/2004	15.93	69.48	--	<50	<250	--	--	--
MW-8	10/12/1992	27.70	57.80	--	--	--	--	--	--
85.50	11/25/1992	27.62	57.88	170	--	--	--	--	--
	4/8/1993	26.64	58.86	100	--	--	--	--	--
	7/21/1993	26.60	58.90	90	--	--	--	--	--
	11/11/1993	27.18	58.32	170	--	--	--	--	--
	8/30/1995	26.35	59.15	240	--	--	--	--	--
	12/4/1995	26.72	58.78	<50	--	--	--	--	--
	5/3/1996	25.47	60.03	94	--	--	--	--	--
	8/8/1996	26.41	59.09	250	--	--	--	--	--
	11/5/1996	26.77	58.73	<50	--	--	--	--	--
	2/6/1997	25.84	59.66	130	--	--	--	--	--
	5/9/1997	26.39	59.11	120	--	--	--	--	--
	8/7/1997	26.72	58.78	150	--	--	--	--	--
	11/5/1997	26.82	58.68	110	--	--	--	--	--
	2/9/1998	25.57	59.93	75	--	--	--	--	--
	5/1/1998	25.64	59.86	210	--	--	--	--	--
	8/5/1998	25.96	59.54	260	--	--	--	--	--
	11/3/1998	26.27	59.23	190	--	--	--	--	--
	3/31/1999	20.93	64.57	200	--	--	--	--	--
	7/1/1999	26.59	58.91	170	--	--	<9.6	<9.6	ND
	9/21/1999	26.89	58.61	420	--	--	<9.4	<9.4	ND
	2/9/2000	26.60	58.90	--	120	280	<10	<10	ND
	5/31/2000	26.16	59.34	--	160 **	<500	--	--	--
	11/14/2000	26.60	58.90	--	150	<250	--	--	--
	3/1/2001	26.41	59.09	--	54	<250	<10	<10	Phenol: 25
	5/7/2001	26.55	58.95	--	<50	<250	--	--	--
	8/1/2001	26.71	58.79	--	58	<250	--	--	--
	11/5/2001	26.67	58.83	--	84	<250	--	--	--
	2/13/2002	26.15	59.35	--	83	<250	--	--	--
	5/2/2002	26.63	58.87	--	<50	<250	--	--	--
	8/4/2002	26.80	58.70	--	260	<250	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Other SVOCs (µg/L)
MW-8	11/26/2002	27.50	58.00	--	<50	<250	--	--	--
(cont'd)	1/20/2003	24.93	60.57	--	63	<250	--	--	--
	5/28/2003	24.28	61.22	--	<50	<250	--	--	--
	8/5/2003	26.51	58.99	--	2,700	380	--	--	--
	11/10/2003	26.04	59.46	--	<50	--	--	--	--
	2/18/2004	25.97	59.53	--	<50	--	--	--	--
	5/27/2004	25.31	60.19	--	<50	<250	--	--	--
MW-9	11/24/1992	23.51	66.86	320	--	--	--	--	--
90.37	4/5/1993	21.14	69.23	920	--	--	--	--	--
	7/21/1993	21.54	68.83	450	--	--	--	--	--
	11/10/1993	27.53	62.84	450	--	--	--	--	--
	8/30/1995	19.59	70.78	680	--	--	--	--	--
	12/4/1995	20.65	69.72	--	--	--	--	--	--
	5/2/1996	18.63	71.74	710	--	--	--	--	--
	11/5/1996	20.69	69.68	420	--	--	--	--	--
	5/9/1997	19.96	70.41	490	--	--	--	--	--
	8/8/1997	20.84	69.53	480	--	--	--	--	--
	11/5/1997	21.55	68.82	370	--	--	--	--	--
	2/9/1998	20.21	70.16	410	--	--	--	--	--
	5/1/1998	19.27	71.10	450	--	--	--	--	--
	8/5/1998	19.35	71.02	630	--	--	--	--	--
	11/2/1998	20.43	69.94	500	--	--	--	--	--
	3/25/1999	18.46	71.91	630	--	--	--	--	--
	7/1/1999	19.95	70.42	570	--	--	<9.5	<9.5	ND
	9/21/1999	21.15	69.22	770	--	--	<9.4	<9.4	ND
	2/9/2000	21.08	69.29	--	320	<250	<10	<10	ND
	5/31/2000	19.11	71.26	--	390 **	<500	--	--	--
	11/14/2000	20.90	69.47	--	160	<250	--	--	--
	3/1/2001	20.45	69.92	--	220	<250	<10	<10	ND
	5/7/2001	19.83	-19.83	--	290	<250	--	--	--
	8/1/2001	20.02	70.35	--	460	<250	--	--	--
	11/5/2001	19.85	70.52	--	230	<250	--	--	--
	2/13/2002	19.80	70.57	--	210	<250	--	--	--
	5/2/2002	19.93	70.44	--	250	<250	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Other SVOCs (µg/L)
MW-9	8/4/2002	20.20	70.17	--	300	<250	--	--	--
(cont'd)	11/26/2002	20.37	70.00	--	270	<250	--	--	--
	1/20/2003	17.93	72.44	--	350	<250	--	--	--
	5/28/2003	17.25	73.12	--	91	<250	--	--	--
	8/5/2003	19.03	71.34	--	210	<250	--	--	--
	11/10/2003	18.65	71.72	--	250	--	--	--	--
	2/18/2004	18.41	71.96	--	250	--	--	--	--
	5/27/2004	17.89	72.48	--	160	<250	--	--	--
MW-10	10/12/1992	21.55	67.05	--	--	--	--	--	--
88.60	11/24/1992	21.86	66.74	1,300	--	--	--	--	--
	4/5/1993	19.14	69.46	5,000	--	--	--	--	--
	7/21/1993	19.79	68.81	20,000	--	--	--	--	--
	8/30/1995	17.99	70.61	5,900	--	--	--	--	--
	5/3/1996	17.04	71.56	5,600	--	--	--	--	--
	5/9/1997	18.36	70.24	2,500	--	--	--	--	--
	5/1/1998	15.84	72.76	2,000	--	--	--	--	--
MW-11	11/24/1992	33.65	68.41	220	--	--	--	--	--
102.06	12/8/92*	33.37	68.69	140	--	--	--	--	--
	12/8/1992	33.37	68.69	120	--	--	--	--	--
	4/5/1993	31.03	71.03	<50	--	--	--	--	--
	7/21/1993	31.90	70.16	150	--	--	--	--	--
	11/9/1993	32.60	69.46	60	--	--	--	--	--
	8/30/1995	28.92	73.14	240	--	--	--	--	--
	5/3/1996	28.00	74.06	<50	--	--	--	--	--
	5/8/1997	29.93	72.13	<50	--	--	--	--	--
	4/29/1998	27.22	74.84	<47	--	--	--	--	--
MW-13	11/24/1992	26.05	58.01	3,600	--	--	--	--	--
84.06	12/8/92*	25.08	58.98	210	--	--	--	--	--
	12/8/1992	25.08	58.98	100	--	--	--	--	--
	4/5/1993	24.64	59.42	<50	--	--	--	--	--
	7/21/1993	24.29	59.77	<50	--	--	--	--	--
	11/9/1993	24.23	59.83	160	--	--	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Other SVOCs (µg/L)
MW-13	8/30/1995	23.30	60.76	<50	--	--	--	--	--
(cont'd)	12/1/1995	23.80	60.26	<50	--	--	--	--	--
	5/3/1996	23.19	60.87	<50	--	--	--	--	--
	8/8/1996	23.44	60.62	<50	--	--	--	--	--
	11/5/1996	24.04	60.02	<50	--	--	--	--	--
	2/6/1997	23.24	60.82	<50	--	--	--	--	--
	5/8/1997	23.46	60.60	<50	--	--	--	--	--
	8/8/1997	23.92	60.14	<50	--	--	--	--	--
	11/5/1997	24.27	59.79	<50	--	--	--	--	--
	2/9/1998	22.89	61.17	<50	--	--	--	--	--
	4/29/1998	22.27	61.79	<47	--	--	--	--	--
	8/4/1998	22.75	61.31	78	--	--	--	--	--
	11/3/1998	23.90	60.16	<50	--	--	--	--	--
	3/31/1999	23.11	60.95	<48	--	--	--	--	--
	7/1/1999	23.40	60.66	100	--	--	<9.6	<9.6	ND
	9/21/1999	21.91	62.15	<48	--	--	<9.4	<9.4	ND
	2/9/2000	23.84	60.22	--	<50	<250	<10	<10	ND
	5/31/2000	22.97	61.09	--	<50	<500	--	--	--
	11/14/2000	24.00	60.06	--	65	<250	--	--	--
	3/1/2001	23.93	60.13	--	<50	<250	<10	<10	ND
	5/7/2001	23.93	60.13	--	<50	<250	--	--	--
	8/1/2001	24.10	59.96	--	<50	<250	--	--	--
	11/5/2001	24.02	60.04	--	350	610	--	--	--
	2/13/2002	23.70	60.36	--	<50	<250	--	--	--
	5/2/2002	23.97	60.09	--	<50	<250	--	--	--
	8/4/2002	24.19	59.87	--	810	310	--	--	--
	11/26/2002	24.78	59.28	--	66	<250	--	--	--
	1/20/2003	22.10	61.96	--	<50	<250	--	--	--
	5/28/2003	17.25	62.34	--	<50	<250	--	--	--
	8/5/2003	23.99	60.07	--	<50	<250	--	--	--
	11/10/2003	23.47	60.59	--	<50	--	--	--	--
	2/18/2004	22.58	61.48	--	<50	--	--	--	--
	5/27/2004	21.95	62.11	--	<50	<250	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID <i>TOC Elev.</i> <i>(ft)</i>	Sampling Date	Depth to water <i>(ft)</i>	Groundwater Elevation <i>(ft)</i>	TEH <i>(µg/L)</i>	TPHd <i>(µg/L)</i>	TPHmo <i>(µg/L)</i>	2-Methyl naphthalene <i>(µg/L)</i>	Naphthalene <i>(µg/L)</i>	Other SVOCs <i>(µg/L)</i>
MW-14 94.66	5/26/1998	21.67	72.99	7,700	--	--	--	--	--
	7/1/1999	22.95	71.71	SPH	--	--	--	--	--
	9/21/1999	24.26	70.40	SPH	--	--	--	--	--
	2/9/2000	24.13	70.53	--	14,000	1,500	290	600	ND
	5/31/2000	22.09	72.57	--	SPH	--	--	--	--
	11/14/2000	23.90	70.76	--	SPH	--	--	--	--
	3/1/2001	23.97	70.69	--	SPH	--	--	--	--
	5/7/2001	23.45	71.23	--	SPH	--	--	--	--
	8/1/2001	23.57	71.12	--	SPH	--	--	--	--
	11/5/2001	23.50	71.18	--	SPH	--	--	--	--
	2/13/2002	22.99	71.70	--	SPH (0.04)	--	--	--	--
	5/2/2002	23.51	71.17	--	SPH (0.02)	--	--	--	--
	8/4/2002	23.61	71.06	--	SPH (0.01)	--	--	--	--
	11/26/2002	24.35	70.31	--	SPH (sheen)	--	--	--	--
	1/20/2003	22.35	72.31	--	SPH (sheen)	--	--	--	--
	5/28/2003	21.95	72.74	--	SPH (0.04)	--	--	--	--
	8/5/2003	23.03	71.66	--	SPH (0.04)	--	--	--	--
	11/10/2003	22.70	72.02	--	SPH (0.07)	--	--	--	--
	2/18/2004	22.37	72.32	--	SPH (0.04)	--	--	--	--
	5/27/2004	21.78	72.92	--	SPH (0.05)	--	--	--	--
MW-15 94.76	5/26/1998	21.87	72.89	1,700	--	--	--	--	--
	7/1/1999	22.25	72.51	SPH	--	--	--	--	--
	9/21/1999	24.12	70.64	SPH	--	--	--	--	--
	2/9/2000	24.42	70.34	--	4,000	1,200	50	270	ND
	5/31/2000	22.40	72.36	--	SPH	--	--	--	--
	11/14/2000	24.15	70.61	--	SPH	--	--	--	--
	3/1/2001	23.99	70.77	--	SPH	--	--	--	--
	5/7/2001	23.50	71.26	--	SPH	--	--	--	--
	8/1/2001	23.62	71.14	--	SPH	--	--	--	--
	11/5/2001	23.65	71.11	--	SPH (sheen)	--	--	--	--
	2/13/2002	23.09	71.67	--	3,100	<250	17	68	ND*
	5/2/2002	23.59	71.17	--	SPH (sheen)	--	--	--	--
	8/4/2002	23.65	71.11	--	SPH (sheen)	--	--	--	--
11/26/2002	24.59	70.17	--	SPH (sheen)	--	--	--	--	

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Other SVOCs (µg/L)
MW-15	1/20/2003	22.08	72.68	--	3,700	340	--	--	--
(cont'd)	5/28/2003	21.68	73.08	--	SPH (sheen)	--	--	--	--
	8/5/2003	24.05	70.71	--	SPH (sheen)	--	--	--	--
	11/10/2003	23.68	71.08	--	SPH (sheen)	--	--	--	--
	2/18/2004	23.51	71.25	--	1,100	--	--	--	--
	5/27/2004	22.98	71.78	--	SPH (sheen)	--	--	--	--

Abbreviations and Notes:

TOC Elev. (ft) = Top of casing elevation, surveyed to an arbitrary datum

TEH = Total extractable hydrocarbons

TPHd = Total petroleum hydrocarbons as diesel

TPHmo = Total petroleum hydrocarbons as motor oil

SVOCs = Semi-volatile organic compounds

Other SVOC's = All other compounds analyzed by EPA Method 8270

µg/l = micrograms per liter = parts per billion = ppb

ND = None detected above laboratory reporting limit, see laboratory report for individual reporting limits

ND* = not detected except for benzoic acid 74; creosol: 68

< n = Not detected above n ug/l

-- = Not analyzed/not available

* = Duplicate sample sent to a different chemical laboratory

** = Does not match diesel pattern

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Table 3. LUFT Metals in Groundwater

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling Date	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Nickel (µg/L)	Zinc (µg/L)
MW-4	7/1/1999	<5	<10	59	<20	<20
	9/21/1999	<5	<10	66	<20	33
	2/9/2000	<5	17	68	<50	<50
MW-7	7/1/1999	<5	<10	<3	<20	<20
	9/21/1999	<5	<10	<3	<20	<20
	2/9/2000	<5	14	8.6	59	<50
MW-8	7/1/1999	<5	<10	<3	<20	<20
	9/21/1999	<5	<10	<3	<20	<20
	2/9/2000	<5	<5	<5	<50	<50
MW-9	7/1/1999	<5	<10	<3	34	<20
	9/21/1999	<5	<10	<3	25	37
	2/9/2000	<5	82	29	160	130
	3/1/2001	<5	47	<5	72	<50
	5/7/2001	<5	49	<5	<50	<50
	8/1/2001	<5	<20	<5	<50	<50
	2/13/2002	<5	--	<5	<50	<50
	1/20/2003	<5	<20	<5	<50	<50
MW-13	7/1/1999	<5	<10	<3	<20	<20
	9/21/1999	<5	<10	<3	<20	<20
	2/9/2000	<5	12	15	<50	<50
MW-14	2/9/2000	<5	210	24	2,500	280
MW-15	2/9/2000	<5	140	1,800	220	150
	2/13/2002	<5	--	<5	<50	<50
	1/20/2003	<5	<20	36	<50	<50

Abbreviations and Notes:

LUFT metals analyzed by EPA Method 6010

µg/l = micrograms per liter

-- = Not analyzed/not available

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Table 4. Separate-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID <i>TOC Elev.</i> <i>(ft)</i>	Date Sampled	Depth to Groundwater <i>(feet)</i>	SPH Thickness <i>(feet)</i>	SPH Removed <i>(gallons)</i>	Cumulative SPH Removed <i>(gallons)</i>	Notes
MW-1	12/23/1991	26.86	1.15	2.00	2.00	1
94.48	12/26/1991	26.08	0.22	0.50	2.50	1
	1/13/1992	26.53	0.66	1.00	3.50	1
	2/28/1992	27.75	0.42	2.00	5.50	1
	11/9/1993	26.06	1.17	0.50	6.00	1
	11/3/1995	23.10	0.76	0.75	6.75	1
	11/30/1995	23.38	0.70	0.25	7.00	1
	1/3/1996	23.30	0.78	0.53	7.53	1
	2/2/1996	22.96	0.84	0.75	8.28	1
	3/1/1996	21.69	0.14	0.10	8.38	1
	4/4/1996	21.11	0.00	0.00	8.38	1
	5/2/1996	20.96	0.00	0.00	8.38	1
	6/5/1996	20.98	0.04	0.10	8.48	1
	7/9/1996	21.64	0.20	0.10	8.58	1
	8/8/1996	22.43	0.33	0.05	8.63	1
	9/10/1996	23.25	0.60	0.10	8.73	1
	10/1/1996	23.58	0.60	0.25	8.98	1
	11/4/1996	24.29	0.78	0.13	9.11	1
	12/2/1996	24.63	0.88	0.26	9.37	1
	1/3/1997	24.08	0.81	0.39	9.76	1
	2/6/1997	22.46	0.30	0.01	9.77	1
	3/5/1997	23.00	0.00	0.00	9.77	1
	4/1/1997	22.29	0.20	0.01	9.78	1
	5/8/1997	22.79	0.33	0.02	9.80	1
	6/6/1997	24.33	1.69	0.26	10.06	1
	7/8/1997	24.00	0.96	0.20	10.26	1
	8/7/1997	24.58	1.29	1.00	11.26	1
	9/10/1997	24.93	1.21	1.50	12.76	1
	10/1/1997	24.89	0.86	0.26	13.02	1
	11/4/1997	25.06	0.77	0.26	13.28	1
	12/4/1997	24.76	0.54	0.19	13.47	1
	1/8/1998	23.66	0.00	0.00	13.47	1
	2/5/1998	22.64	0.00	0.00	13.47	1
	3/6/1998	20.80	0.00	0.00	13.47	1
	4/2/1998	20.31	0.00	0.00	13.47	1
	4/29/1998	19.95	0.00	0.00	13.47	1
	6/3/1998	20.41	0.00	0.00	13.47	1
	7/9/1998	20.97	0.07	0.00	13.47	1
	8/4/1998	21.40	trace	0.00	13.47	1
	8/26/1998	21.85	0.10	0.00	13.47	1
	11/2/1998	22.92	0.39	0.00	13.47	1
	12/4/1998	23.29	0.29	0.01	13.48	1

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Table 4. Separate-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Date Sampled	Depth to Groundwater (feet)	SPH Thickness (feet)	SPH Removed (gallons)	Cumulative SPH Removed (gallons)	Notes
MW-1	1/5/1999	23.51	0.42	0.03	13.51	1
(cont'd)	2/8/1999	23.08	0.05	0.25	13.76	1
	3/24/1999	21.90	0.01	0.01	13.77	1
	4/30/1999	21.52	0.00	0.00	13.77	1
	7/1/1999	22.70	0.03	0.01	13.78	1
	9/21/1999	23.81	0.08	0.20	13.98	1
	10/20/1999	23.90	0.10	0.01	13.99	1
	12/13/1999	24.24	trace	0.00	13.99	1
	2/9/2000	23.95	0.07	0.05	14.04	1
	2/15/2000	--	0.00	0.00	14.04	2
	2/25/2000	23.69	0.00	0.06	14.10	2
	3/3/2000	23.27	0.00	0.05	14.15	2
	3/28/2000	22.39	0.00	0.13	14.28	2
	5/2/2000	22.29	0.00	0.05	14.32	2
	5/31/2000	22.05	0.00	0.00	14.32	2
	7/3/2000	22.10	trace	0.02	14.34	2
	8/4/2000	22.40	0.00	0.01	14.35	2
	10/6/2000	23.47	0.46	0.01	14.36	1
	11/3/2000	24.14	0.78	0.00	14.36	
	12/1/2000	25.40	0.83	1.75	16.11	1,2
	1/4/2001	25.13	0.09	0.25	16.36	2
	2/2/2001	25.12	0.03	0.13	16.49	2
	4/3/2001	23.19	0.24	0.10	16.59	
	5/4/2001	23.31	0.47	0.00	16.59	
	5/7/2001	23.85	0.05	0.03	16.62	2
	6/11/2001	23.77	0.67	0.00	16.62	2
	5/2/2002	23.41	0.46	0.01	16.62	
	6/14/2002	23.95	0.03	0.01	16.63	2
	8/4/2002	24.02	0.03	0.01	16.64	2
	9/24/2002	24.59	0.01	0.003	16.64	2
	10/16/2002	25.08	0.03	0.003	16.64	2
	11/6/2002	25.71	0.08	0.005	16.65	2
	11/26/2002	24.47	0.05	0.003	16.65	2
	12/9/2002	24.08	0.07	0.009	16.66	2
	1/17/2003	22.14	0.07	0.005	16.67	1, 2
	1/27/2003	22.55	0.02	0.003	16.67	2
	3/5/2003	23.53	0.02	0.25	16.92	1, 2
	4/11/2003	23.11	0.03	0.007	16.93	1, 2
	5/13/2003	22.95	0.02	0.007	16.93	1, 2
	5/28/2003	21.77	0.02	0.008	16.94	1, 2
	6/13/2003	21.84	0.03	0.013	16.95	1, 2
	7/24/2003	23.19	0.05	0.003	16.96	1, 2

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Table 4. Separate-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID <i>TOC Elev.</i> <i>(ft)</i>	Date Sampled	Depth to Groundwater <i>(feet)</i>	SPH Thickness <i>(feet)</i>	SPH Removed <i>(gallons)</i>	Cumulative SPH Removed <i>(gallons)</i>	Notes
MW-1	8/5/2003	23.07	0.04	0.013	16.97	1, 2
<i>(cont'd)</i>	9/12/2003	23.74	0.05	0.021	16.99	1, 2
	10/10/2003	23.90	0.06	0.026	17.02	1, 2
	11/10/2003	22.53	0.03	0.016	17.03	1, 2
	11/21/2003	23.12	0.02	0.026	17.06	1, 2
	12/4/2003	22.95	0.03	0.026	17.09	1, 2
	1/23/2004	22.40	0.04	0.018	17.10	1, 2
	2/6/2004	22.74	0.05	0.017	17.12	1, 2
	2/18/2004	22.61	0.05	0.018	17.14	1, 2
	3/28/2004	22.81	0.01	0.001	17.14	1, 2
	4/9/2004	22.61	0.00	0.000	17.14	1, 2
	5/27/2004	22.08	0.05	0.009	17.15	1, 2
MW-4	12/23/1991	22.63	0.98	2.50	2.50	1
88.84	12/26/1991	22.52	0.96	6.00	8.50	1
	1/10/1992	22.74	0.99	5.00	13.50	1
	2/28/1992	22.00	0.67	4.00	17.50	1
	3/11/1992	21.71	0.55	3.50	21.00	1
	3/13/1992	21.56	0.49	3.50	24.50	1
	3/17/1992	25.46	0.44	2.25	26.75	1
	3/18/1992	21.38	0.44	2.50	29.25	1
	3/19/1992	21.33	0.48	1.50	30.75	1
	3/23/1992	21.29	0.42	4.00	34.75	1
	3/24/1992	21.31	0.38	1.50	36.25	1
	3/25/1992	21.17	0.36	1.00	37.25	1
	3/26/1992	21.08	0.35	1.00	38.25	1
	3/27/1992	20.92	0.26	0.50	38.75	1
	3/31/1992	21.15	0.44	0.50	39.25	1
	4/1/1992	20.90	0.24	0.25	39.50	1
	4/2/1992	20.90	0.17	0.13	39.63	1
	4/6/1992	--	--	0.13	39.76	1
	4/10/1992	20.91	0.33	0.25	40.01	1
	4/13/1992	21.04	0.42	0.25	40.26	1
	4/20/1992	20.74	0.19	0.13	40.39	1
	5/4/1992	20.83	0.33	0.13	40.52	1
	5/18/1992	21.33	0.23	0.13	40.65	1
	5/26/1992	20.83	0.17	0.13	40.78	1
	6/1/1992	20.85	0.19	0.06	40.84	1
	6/29/1992	21.38	0.53	0.25	41.09	1
	7/29/1992	21.69	0.56	1.11	42.20	1
	8/28/1992	21.35	0.63	1.68	43.88	1
	4/3/1993	20.11	0.51	0.13	44.01	1
	11/9/1993	20.48	0.52	0.03	44.04	1
	8/30/1995	21.71	0.63	1.75	45.79	1

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Table 4. Separate-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Date Sampled	Depth to Groundwater (feet)	SPH Thickness (feet)	SPH Removed (gallons)	Cumulative SPH Removed (gallons)	Notes
MW-4	10/2/1995	19.90	2.20	0.50	46.29	1
(cont'd)	11/3/1995	18.76	0.57	0.25	46.54	1
	11/30/1995	19.17	0.65	0.25	46.79	1
	1/3/1996	19.45	0.44	0.05	46.84	1
	2/2/1996	19.50	0.32	0.10	46.94	1
	3/1/1996	19.31	0.20	0.20	47.14	1
	4/4/1996	17.53	0.18	0.20	47.34	1
	5/2/1996	17.50	0.25	0.20	47.54	1
	6/5/1996	17.67	0.39	0.15	47.69	1
	7/9/1996	18.29	0.50	0.16	47.85	1
	8/8/1996	18.84	0.00	0.00	47.85	1
	9/10/1996	19.31	0.34	0.05	47.90	1
	10/1/1996	19.51	0.29	0.05	47.95	1
	11/4/1996	20.13	0.35	0.02	47.97	1
	12/2/1996	20.23	0.33	0.02	47.99	1
	1/3/1997	19.33	0.10	0.02	48.01	1
	2/6/1997	18.13	0.01	0.01	48.02	1
	4/30/1999	17.28	trace	0.00	48.02	1
	2/9/2000	19.76	0.00	0.00	48.02	1
	2/15/2000	--	0.00	0.00	48.02	2
	2/25/2000	19.30	0.00	0.00	48.02	2
MW-6	12/23/1991	28.40	3.21	7.50	7.50	1
85.62	12/26/1991	27.25	1.67	2.00	9.50	1
	1/10/1992	27.23	0.90	1.00	10.50	1
	2/4/1992	27.71	2.04	2.00	12.50	1
	2/28/1992	27.92	3.00	3.00	15.50	1
	3/10/1992	27.16	2.06	2.75	18.25	1
	3/12/1992	25.96	0.52	2.00	20.25	1
	3/23/1992	26.34	1.09	1.00	21.25	1
	3/30/1992	25.73	0.35	0.50	21.75	1
	4/10/1992	25.29	0.05	0.25	22.00	1
	4/13/1992	25.52	0.21	0.13	22.13	1
	4/20/1992	25.38	0.10	0.13	22.26	1
	5/4/1992	25.40	--	0.13	22.39	1
	5/8/1992	25.50	0.17	0.06	22.45	1
	5/26/1992	25.46	0.13	0.13	22.58	1
	6/1/1992	25.46	0.09	0.06	22.64	1
	6/29/1992	25.59	0.14	0.19	22.83	1
	7/29/1992	26.90	1.71	0.60	23.43	1
	8/28/1992	25.09	2.62	2.40	25.83	1
	12/2/1992	--	--	0.00	25.83	1

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Table 4. Separate-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID <i>TOC Elev.</i> <i>(ft)</i>	Date Sampled	Depth to Groundwater <i>(feet)</i>	SPH Thickness <i>(feet)</i>	SPH Removed <i>(gallons)</i>	Cumulative SPH Removed <i>(gallons)</i>	Notes
MW-6	4/3/1993	26.96	2.86	1.75	27.58	1
<i>(cont'd)</i>	11/9/1993	27.51	3.06	0.83	28.41	1
	8/30/1995	28.00	7.96	4.50	32.91	1
	10/2/1995	28.24	6.14	4.00	36.91	1
	11/3/1995	28.39	6.13	3.00	39.91	1
	11/30/1995	26.91	3.44	2.50	42.41	1
	1/3/1996	27.58	4.41	2.50	44.91	1
	2/2/1996	27.58	4.37	5.00	49.91	1
	3/1/1996	27.96	5.15	4.00	53.91	1
	4/4/1996	27.96	5.41	5.00	58.91	1
	5/2/1996	26.83	4.66	4.50	63.41	1
	6/5/1996	27.15	5.17	4.00	67.41	1
	7/9/1996	27.08	4.86	4.50	71.91	1
	8/8/1996	26.71	4.05	4.00	75.91	1
	9/10/1996	26.83	3.82	3.50	79.41	1
	10/1/1996	26.96	3.77	4.00	83.41	1
	11/4/1996	--	NM	0.00	83.41	4
86.94	12/2/1996	--	NM	0.00	83.41	4
	1/3/1997	--	NM	0.00	83.41	4
	2/6/1997	25.08	0.20	0.00	83.41	4
	3/5/1997	24.20	0.00	0.00	83.41	4
	4/1/1997	24.04	0.00	0.00	83.41	4
	5/8/1997	26.54	1.88	0.40	83.81	1
	6/6/1997	25.33	0.21	0.03	83.44	1
85.82	7/8/1997	25.30	0.07	0.00	83.41	1
	8/7/1997	25.52	0.00	0.00	83.41	1
	9/10/1997	25.76	0.00	0.00	83.41	1
	10/1/1997	25.12	0.00	0.00	83.41	1
	11/4/1997	26.16	0.18	0.02	83.43	1
	12/4/1997	26.08	0.16	0.05	83.86	1
	1/8/1998	25.79	0.10	0.66	84.10	1
	2/5/1998	25.31	0.89	0.00	84.10	4
	3/6/1998	24.63	0.46	0.04	84.14	1
	4/2/1998	24.45	0.59	0.10	84.24	1
	4/29/1998	22.96	0.55	0.09	84.33	1
	6/3/1998	22.81	0.41	0.03	84.36	1
	7/9/1998	23.04	0.35	0.05	84.41	1
	8/4/1998	23.29	0.35	0.04	84.45	1
	8/26/1998	23.50	0.31	0.01	84.46	1
	11/2/1998	24.24	0.43	0.02	84.48	1
	12/4/1998	24.35	0.32	0.01	84.49	1
	1/5/1999	24.51	0.40	0.03	84.52	1

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Table 4. Separate-Phase Hydrocarbon Removal
 Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Date Sampled	Depth to Groundwater (feet)	SPH Thickness (feet)	SPH Removed (gallons)	Cumulative SPH Removed (gallons)	Notes
MW-6	2/8/1999	24.00	0.03	0.13	84.65	1
(cont'd)	3/24/1999	23.82	0.19	0.03	84.68	1
	4/30/1999	23.60	1.13	0.10	84.78	1
	7/1/1999	24.45	0.42	0.06	84.84	1
	7/27/1999	25.35	0.24	0.06	84.90	1
	8/19/1999	24.87	0.24	0.06	84.96	1
	9/21/1999	24.58	0.10	0.20	85.16	1
	10/20/1999	25.05	0.17	0.20	85.36	1
	12/13/1999	25.08	0.10	0.06	85.42	1
	2/9/2000	24.93	0.44	0.25	85.67	1
	2/15/2000	--	0.00	0.07	85.74	3
	2/25/2000	24.23	0.00	0.01	85.75	3
	3/3/2000	24.00	0.00	0.00	85.75	3
	3/28/2000	23.54	0.00	0.05	85.80	3
	5/2/2000	23.52	0.06	0.03	85.83	3
	5/31/2000	23.39	0.08	0.00	85.83	3
	7/3/2000	23.61	trace	0.02	85.85	3
	8/4/2000	23.80	0.10	0.01	85.86	3
	10/6/2000	24.22	0.04	0.01	85.87	
	11/3/2000	24.30	0.09	0.00	85.87	
	12/1/2000	24.38	0.07	0.03	85.90	2, 3
	1/4/2001	24.65	0.17	0.00	85.90	5
	2/2/2001	24.72	0.22	0.25	86.15	3
	4/3/2001	23.90	0.06	0.05	86.20	
	5/4/2001	23.95	0.07	0.05	86.25	
	5/7/2001	--	--	0.08	86.33	
	6/11/2001	24.25	0.10	0.00	86.33	
	5/2/2002	23.25	0.01	0.00	86.33	2
	6/14/2002	23.17	0.07	0.01	86.34	1
	8/4/2002	23.55	0.03	0.01	86.35	1
	9/24/2002	23.98	0.02	0.007	86.35	1
	10/16/2002	24.20	0.09	0.005	86.36	1
	11/6/2002	25.78	0.07	0.005	86.36	1
	11/26/2002	24.22	0.03	0.009	86.37	1, 3
	12/9/2002	23.97	0.05	0.021	86.39	1, 3
	1/17/2003	21.30	0.06	0.013	86.41	1, 3
	1/27/2003	22.49	0.02	0.016	86.42	1, 3
	3/5/2003	24.35	0.06	0.013	86.44	1, 3
	4/11/2003	24.05	0.07	0.029	86.46	3
	5/13/2003	23.98	0.03	0.016	86.48	3
	5/28/2003	21.92	0.04	0.021	86.50	1, 3
	6/13/2003	21.98	0.06	0.020	86.52	1, 3

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Table 4. Separate-Phase Hydrocarbon Removal
 Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Date Sampled	Depth to Groundwater (feet)	SPH Thickness (feet)	SPH Removed (gallons)	Cumulative SPH Removed (gallons)	Notes
MW-6	7/24/2003	24.11	0.07	0.040	86.56	1, 3
(cont'd)	8/5/2003	23.98	0.04	0.021	86.58	1, 3
	9/12/2003	24.53	0.06	0.026	86.61	1, 3
	10/10/2003	24.88	0.10	0.026	86.64	1, 3
	11/10/2003	23.50	0.10	0.032	86.67	1, 3
	11/21/2003	23.81	0.06	0.026	86.69	1, 3
	12/4/2003	23.61	0.08	0.029	86.72	1, 3
	1/23/2004	23.09	0.10	0.026	86.75	1, 3
	2/6/2004	22.39	0.05	0.021	86.77	1, 3
	2/18/2004	22.21	0.04	0.018	86.79	1, 3
	3/28/2004	23.91	0.06	0.013	86.80	1, 3
	4/9/2004	23.89	0.03	0.026	86.83	1, 3
	5/27/2004	22.01	0.05	0.037	86.87	1, 3
MW-9 90.37	8/8/1996	19.89	0.35	0.10	0.61	1
MW-14 94.66	12/4/1998	23.42	0.23	0.01	0.01	1
	1/5/1999	23.36	0.12	0.01	0.02	1
	2/8/1999	23.17	trace	0.01	0.03	1
	3/24/1999	22.08	trace	0.00	0.03	1
	4/30/1999	21.17	0.01	0.00	0.03	1
	7/1/1999	22.95	0.04	0.00	0.03	1
	9/21/1999	24.26	trace	0.00	0.03	1
	10/20/1999	24.10	0.00	0.00	0.03	1
	2/9/2000	24.13	0.00	0.00	0.03	1
	2/15/2000	--	0.00	0.00	0.03	1
	2/25/2000	--	0.00	0.00	0.03	2
	3/3/2000	23.27	0.00	0.05	0.08	2
	3/28/2000	22.40	0.00	0.13	0.21	2
	5/2/2000	22.22	0.00	0.04	0.25	2
	5/31/2000	22.09	0.00	0.00	0.25	2
	7/3/2000	22.35	trace	0.01	0.26	2
	8/4/2000	22.78	0.00	0.03	0.29	2
	10/6/2000	23.48	0.00	0.00	0.29	
	11/3/2000	23.60	0.00	0.00	0.29	
	12/1/2000	23.90	0.04	0.04	0.33	1, 2
	1/4/2001	24.10	0.00	0.00	0.33	
	2/2/2001	24.27	0.00	0.10	0.43	2
	4/3/2001	23.06	0.00	0.05	0.48	
	5/4/2001	23.05	0.00	0.00	0.48	
	5/7/2001	23.45	0.02	0.01	0.48	2
	6/11/2001	23.40	0.00	0.00	0.48	
	5/2/2002	23.51	0.02	0.003	0.49	2

CAMBRIA

Table 4. Separate-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Date Sampled	Depth to Groundwater (feet)	SPH Thickness (feet)	SPH Removed (gallons)	Cumulative SPH Removed (gallons)	Notes
MW-14	6/14/2002	23.88	0.01	0.003	0.49	2
(cont'd)	8/4/2002	23.61	0.01	0.004	0.49	2
	9/24/2002	24.07	0.01	0.007	0.50	2
	10/16/2002	24.29	trace	0.007	0.51	2
	11/6/2002	25.85	0.00	0.00	0.51	2
	11/26/2002	24.35	trace	0.00	0.51	2
	12/9/2002	24.05	trace	0.00	0.51	2
	1/17/2003	22.09	0.00	0.00	0.51	2
	1/27/2003	22.60	0.00	0.00	0.51	2
	3/5/2003	23.63	0.00	0.13	0.64	1,2
	4/11/2003	23.63	0.02	0.003	0.64	1,2
	5/13/2003	23.11	0.03	0.003	0.64	1,2
	5/28/2003	21.95	0.04	0.007	0.65	1,2
	6/13/2003	22.05	0.03	0.004	0.65	1,2
	7/24/2003	23.10	0.02	0.003	0.65	1,2
	8/5/2003	23.03	0.04	0.011	0.66	1,2
	9/12/2003	23.81	0.06	0.013	0.68	1,2
	10/10/2003	24.03	0.05	0.021	0.70	1,2
	11/10/2003	22.70	0.07	0.013	0.71	1,2
	11/21/2003	22.85	0.05	0.013	0.73	1,2
	12/4/2003	22.69	0.02	0.008	0.73	1,2
	1/23/2004	22.05	0.04	0.011	0.74	1,2
	2/6/2004	22.49	0.04	0.013	0.76	1,2
	2/18/2004	22.37	0.04	0.013	0.77	1,2
	3/28/2004	22.79	0.00	0.001	0.77	1,2
	4/9/2004	22.81	0.00	0.000	0.77	1,2
	5/27/2004	21.78	0.05	0.011	0.78	1,2
Total SPH Removed (gallons):					153.39	

Abbreviations and Notes:

TOC Elev. (ft) = Top of casing elevation, surveyed to an arbitrary datum (measured in feet)

SPH = Separate-phase hydrocarbons

-- = Not measured or not applicable

NM = Not Measured. Product was being removed by vapor extraction at time of measurement.

1 = SPH removed by manual bailing

2 = SPH removed from well by absorbent sock

3 = SPH removed from well by passive skimmer

4 = Vapor extraction system operating in well

5 = No product removed; skimmer adjusted incorrectly.

APPENDIX A

Well Sampling Protocol

Well Sampling Protocol - May 8, 2000 Workplan Addendum			
Well	Gauging Frequency	Sampling Frequency	Analytes
Source Area Wells			
MW-1	Quarterly	Annually (1st Qtr)	TPHd, TPHmo, TPHg, BTEX, MTBE, HVOCs, DO (SVOCs, LUFT Metals also)
MW-6			
MW-14			
MW-15			
Down-Gradient/Cross-Gradient Wells			
MW-4	Quarterly	Quarterly	TPHd, TPHmo, TPHg, BTEX, MTBE, DO (SVOCs, HVOCs, and LUFT Metals- 1 st qtr only)
MW-7			
MW-8			
MW-9			
MW-13			
<p>1. Per the May 3, 1999, ACHCSA letter to Messrs. Hill and Linder, monitoring wells MW-2, MW-3, MW-5, MW-10, and MW-11 were dropped from the monitoring program.</p> <p>2. To simplify the protocol, LUFT Metals will be analyzed annually (first quarter) for all sampled wells.</p> <p>3. For cost control purposes, Cambria has reduced the frequency for HVOC sample analysis for the cross/downgradient wells from quarterly to annually. This is the only deviation from the approved monitoring program. If the County does not concur with this modification, please request resumption of quarterly analysis for HVOCs by EPA Method 8010 for the select cross/downgradient wells.</p>			

SPH REMOVAL FIELD SHEET

Well ID	Time	DTP	DTW	Thickness	Volume Removed	Casing Diam.	Comments
MW-1	1:10	-	22.61	-	2ml		Smells of product
MW-6	1:30	-	23.89	-	100ml		Thick Sheen
MW-14	1:20	-	22.81	-	0ml		Smells of product

COPY

Project Name: Cowell

Project Number: 425-1580

Technician: T. Fulmer

Date: 4/9/04

Groundwater Monitoring Field Sheet

Well ID	Time	DTP	DTW	Product Thickness	Amount of Product Removed	Casing Diam.	Comment
MW-1	11:50		22.08	0.05	35ml		
MW-4	12:10		15.97				
MW-6	12:00		22.01	0.05	140ml		bailed ^{SAM} 30ml removed 110ml from skimmer
MW-7	11:35		15.93				
MW-8	11:40		25.31				
MW-9	11:45		17.89				
MW-13	11:30		21.95				
MW-14	11:55		21.78	0.05	40ml		
MW-15	11:45		22.98		heavy sheen		

Project Name: Connell

Project Number/Task: 425-1580-126

Measured By: S. [Signature]

Date: 5-27-04

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: GM	Well ID: MW-4
Project Number: 425-1580	Date: 5-27-04	Well Yield:
Site Address: 3093 Broadway Oakland, CA	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SG
Initial Depth to Water: 15.97	Total Well Depth: 24.00	Water Column Height: 8.03
Volume/ft: 0.16	1 Casing Volume: 1.28	3 Casing Volumes: 3.85
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 4
Start Purge Time: 4:00	Stop Purge Time: 4:14	Total Time: 14 mins

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

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
4:05	1.5	18.7	7.01	659	
4:10	3	18.9	6.97	890	
4:15	4	19.0	6.99	1022	

Fe = **mg/L** **ORP =** **mV** **DO = 0.59** **mg/L**

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-4	5-27-04	4:20				

WELL SAMPLING FORM

Project Name: <u>Connell</u>	Cambria Mgr: <u>GHI</u>	Well ID: <u>MW-7</u>
Project Number: <u>425-1580</u>	Date: <u>5-27-04</u>	Well Yield:
Site Address: <u>3093 Broadway</u> <u>Oakland, CA</u>	Sampling Method: <u>disposable bailer</u>	Well Diameter: <u>2" pvc</u>
		Technician(s): <u>SG</u>
Initial Depth to Water: <u>15.93</u>	Total Well Depth: <u>30.00</u>	Water Column Height: <u>14.07</u>
Volume/ft: <u>0.16</u>	1 Casing Volume: <u>2.25</u>	3 Casing Volumes: <u>6.75</u>
Purging Device: <u>disposable bailer</u>	Did Well Dewater?: <u>NO</u>	Total Gallons Purged: <u>7</u>
Start Purge Time: <u>1:15</u>	Stop Purge Time: <u>1:29</u>	Total Time: <u>14mins</u>

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

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
<u>1:20</u>	<u>2.5</u>	<u>19.0</u>	<u>7.03</u>	<u>971</u>	
<u>1:25</u>	<u>5</u>	<u>18.9</u>	<u>7.17</u>	<u>939</u>	
<u>1:30</u>	<u>7</u>	<u>19.1</u>	<u>7.14</u>	<u>1052</u>	

Fe = mg/L ORP = mV DO = 0.65 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<u>MW-7</u>	<u>5-27-04</u>	<u>1:25</u>				

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: GM	Well ID: MW-8
Project Number: 425-1580	Date: 5-27-04	Well Yield:
Site Address: 3093 Broadway Oakland, CA	Sampling Method: disposable bailer	Well Diameter: 6" pvc
		Technician(s): SG
Initial Depth to Water: 25.31	Total Well Depth: 39.50	Water Column Height: 16.19
Volume/ft: 1.47	1 Casing Volume: 23.79	3 Casing Volumes: 71.39
Purging Device: 4" pvc bailer	Did Well Dewater?: no	Total Gallons Purged: 70
Start Purge Time: 2:00	Stop Purge Time: 2:59	Total Time: 59mins

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

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
2:20	25	19.2	7.07	1055	
2:40	50	19.4	6.99	903	
3:00	70	19.6	7.01	897	

Fe = mg/L ORP = mV DO = **0.98** mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-8	5-27-04	3:05				

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: GH	Well ID: MW-9
Project Number: 425-1580	Date: 5-27-04	Well Yield:
Site Address: 3093 Broadway Oakland, CA	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SL
Initial Depth to Water: 17.89	Total Well Depth: 30.50	Water Column Height: 12.61
Volume/ft: 0.16	1 Casing Volume: 2.01	3 Casing Volumes: 6.03
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 6
Start Purge Time: 3:20	Stop Purge Time: 3:34	Total Time: 14 mins

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

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
3:25	2	19.3	6.94	620	
3:30	4	19.7	7.00	542	
3:35	6	19.7	6.99	595	

Fe = **mg/L** **ORP =** **mV** **DO = 0.40** **mg/L**

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-9	5-27-04	3:40				

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: GH	Well ID: MW-13
Project Number: 425-1580	Date: 5-27-04	Well Yield:
Site Address: 3093 Broadway Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SCA
Initial Depth to Water: 21.95	Total Well Depth: 39.45	Water Column Height: 17.50
Volume/ft: 0.16	1 Casing Volume: 2.80	3 Casing Volumes: 8.40
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 8
Start Purge Time: 12:40	Stop Purge Time: 12:54	Total Time: 14 mins

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

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
12:45	2.5	17.9	7.04	650	
12:50	6	18.1	6.99	693	
12:55	8	18.2	7.01	710	

Fe = **mg/L** **ORP =** **mV** **DO = 0.84 mg/L**

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-13	5-27-04	1:00				

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

FILE COPY

CHAIN OF CUSTODY RECORD

TURN AROUND TIME:
RUSH 24 HOUR 48 HOUR 5 DAY
EDF Required? Yes No

Report To: Greechen Hellman Bill To: Cambria Env. Tech

Company: Cambria Environmental Technology Inc.

5900 Hollis Street STE-A

Emeryville, CA 94608

E-mail:

Tele: 510-420-3305

Fax: 510-420-9170

Project #: 425-1580-126

Project Name: Cannell

Project Location: 3093 Broadway, Oakland, CA

Sampler Signature: A. Hill

Analysis Request

Other

Comments

BTEX & TPH as Gas (602/8020 + 8015) MTBE
 TPH as Diesel (8015) *with 50cc clean up*
 Total Petroleum Oil & Grease (5520 E&F/B&F)
 Total Petroleum Hydrocarbons (418.1)
 EPA 601 / 8010
 BTEX ONLY (EPA 602 / 8020)
 EPA 608 / 8080
 EPA 608 / 8080 PCB's ONLY
 EPA 624 / 8240 / 8260
 EPA 625 / 8270
 PAH's / PNA's by EPA 625 / 8270 / 8310
 CAM-17 Metals
 LUFT 5 Metals
 Lead (7240/7421/239.2/6010)
 RCI

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015) <i>with 50cc clean up</i>	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments			
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other																				
MW-4		5-27-04	4:20	4	408 4ml	X					X	X	X	X																				
MW-7			1:35	4		X					X	X	X	X																				
MW-8			3:05	4		X					X	X	X	X																				
MW-9			3:40	4		X					X	X	X	X																				
MW-13		5/27	1:00	4	408 4ml	X					X	X	X	X																				

Relinquished By: <u>A. Hill</u>	Date: <u>5-27-04</u>	Time: <u>7:00</u>	Received By: <u>Secure location</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:



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: #425-1580-126; Connell	Date Sampled: 05/27/04
		Date Received: 05/28/04
	Client Contact: Gretchen Hellmann	Date Reported: 06/07/04
	Client P.O.:	Date Completed: 06/07/04

WorkOrder: 0405495

June 07, 2004

Dear Gretchen:

Enclosed are:

- 1). the results of 5 analyzed samples from your #425-1580-126; Connell 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

Matrix: W

WorkOrder: 0405495

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 11755		Spiked Sample ID: 0406004-002A				
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	101	101	0	98.8	100	1.53	70	130
MTBE	ND	10	113	115	1.89	111	112	0.803	70	130
Benzene	ND	10	110	112	2.12	113	112	0.504	70	130
Toluene	ND	10	105	106	1.49	108	106	1.97	70	130
Ethylbenzene	ND	10	111	112	0.498	112	112	0	70	130
Xylenes	ND	30	100	100	0	100	100	0	70	130
%SS:	105	10	102	102	0	105	104	0.295	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

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

£ 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.



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

QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0405495

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 11756			Spiked Sample ID: N/A		
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	96.5	97.2	0.753	70	130
%SS:	N/A	2500	N/A	N/A	N/A	103	103	0	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										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

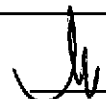
% Recovery = $100 * (MS - Sample) / (Amount\ Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = 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.

DHS Certification No. 1644

 QA/QC Officer

McC Campbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

WorkOrder: 0405495

ClientID: CETE

Report to:

Gretchen Hellmann
 Cambria Env. Technology
 5900 Hollis St, Suite A
 Emeryville, CA 94608

TEL: (510) 420-0700
 FAX: (510) 420-9170
 ProjectNo: #425-1580-126; Connell
 PO:

Bill to:

Accounts Payable
 Cambria Env. Technology
 5900 Hollis St, Ste. A
 Emeryville, CA 94608

Requested TAT: 5 days

Date Received: 5/28/04

Date Printed: 5/28/04

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0405495-001	MW-4	Water	5/27/04 4:20:00 PM	<input type="checkbox"/>	A	A	B													
0405495-002	MW-7	Water	5/27/04 1:35:00 PM	<input type="checkbox"/>	A		B													
0405495-003	MW-8	Water	5/27/04 3:05:00 PM	<input type="checkbox"/>	A		B													
0405495-004	MW-9	Water	5/27/04 3:40:00 PM	<input type="checkbox"/>	A		B													
0405495-005	MW-13	Water	5/27/04 1:00:00 PM	<input type="checkbox"/>	A		B													

Test Legend:

1	G-MBTEX_W	2	PREF REPORT	3	TPH(DMO)WSG_W	4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

cele

0405495

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME:

RUSH 24 HOUR 48 HOUR 5 DAY

EDF Required? Yes No

Report To: Gretchen Hellman Bill To: Cambria Env. Tech

Company: Cambria Environmental Technology Inc.

5900 Hollis Street STE-A

Emeryville, CA 94608

E-mail:

Tele: 510-420-3305

Fax: 510-420-9170

Project #: 425-1580-126

Project Name: Connell

Project Location: 3093 Broadway, Oakland, CA

Sampler Signature: [Signature]

Analysis Request

Other

Comments

- BTEX & TPH as Gas (602/8020 + 8015) / MTBE
- TPH as Diesel (8015)
- Total Petroleum Oil & Grease (5520 E&H/B&F)
- Total Petroleum Hydrocarbons (418.1)
- EPA 601 / 8010
- BTEX ONLY (EPA 602 / 8020)
- EPA 608 / 8080
- EPA 608 / 8080 PCB's ONLY
- EPA 624 / 8240 / 8260
- EPA 625 / 8270
- PAH's / PNA's by EPA 625 / 8270 / 8310
- CAM-17 Metals
- LUFT 5 Metals
- Lead (7240/7421/239 2/6010)
- RCI

with si cleanup
clean up

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED								
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other					
MW-4		5-27-04	4:20	4	VOG APR	X					X	X							
MW-7			1:35	4		X					X	X							
MW-8			3:05	4		X					X	X							
MW-9			3:40	4		X					X	X							
MW-13		5/27	1:00	4	X	X					X	X							

+1
+1
+1
+1
+1

Relinquished By: <u>[Signature]</u>	Date: <u>5-27-04</u>	Time: <u>7:00</u>	Received By: <u>Secure location</u>
Relinquished By: <u>[Signature]</u>	Date: <u>5/28/04</u>	Time: <u>7:45</u>	Received By: <u>[Signature]</u>
Relinquished By: <u>[Signature]</u>	Date: <u>5/28</u>	Time: <u>6:45</u>	Received By: <u>[Signature]</u>

Remarks:

ICE/C

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

PRESERVATION VOAS O&G METALS OTHER

APPROPRIATE CONTAINERS PRESERVED IN LAB

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Confirmation Number: 7256306171
Date/Time of Submittal: 8/9/2004 2:53:00 PM
Facility Global ID: T0600100406
Facility Name: CONNELL OLDSMOBILE
Submittal Title: 2nd Qtr 2004, GW Analytical Data
Submittal Type: GW Monitoring Report

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

CONNELL OLDSMOBILE 3093 BROADWAY OAKLAND, CA 94611	Regional Board - Case #: 01-0447 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 469 ALAMEDA COUNTY LOP - (UNK)
---	---

CONF #	TITLE	QUARTER
7256306171	2nd Qtr 2004, GW Analytical Data	Q2 2004
SUBMITTED BY	SUBMIT DATE	STATUS
Matt Meyers	8/9/2004	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	SW8015B,SW8021F
TESTED FOR REQUIRED ANALYTES?	N

MISSING PARAMETERS NOT TESTED:

- SW8015B REQUIRES ETBE TO BE TESTED
- SW8015B REQUIRES TAME TO BE TESTED
- SW8015B REQUIRES DIPE TO BE TESTED
- SW8015B REQUIRES TBA TO BE TESTED
- SW8015B REQUIRES DCA12 TO BE TESTED
- SW8015B REQUIRES EDB TO BE 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
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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?	Y
- LAB METHOD BLANK	Y

- MATRIX SPIKE N
- MATRIX SPIKE DUPLICATE N
- 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

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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CONTACT SITE ADMINISTRATOR.

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Oakland

Submittal Date/Time: 8/9/2004 2:57:06 PM

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