

C A M B R I A

Alameda County

July 10, 2003

JUL 10 2003

Environmental Health

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

Re: **Groundwater Monitoring Report - Second Quarter 2003**
Connell Automobile Dealership
3093 Broadway
Oakland, California
Case No. 469
Cambria Project #425-1580



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 2003* for the above-referenced site. Presented in this report are the second quarter 2003 activities and anticipated third quarter 2003 activities.

If you have any questions or comments please feel free to call me at (510) 420-3307.

Sincerely,

Cambria Environmental Technology, Inc.

Mary C. Holland-Ford, R.G.
Project Geologist

Attachments: Groundwater Monitoring Report – Second Quarter 2003

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

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GROUNDWATER MONITORING REPORT - SECOND QUARTER 2003

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

July 10, 2003



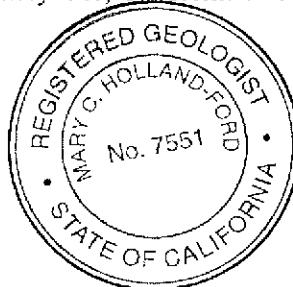
Prepared for:


Mr. George Hill
305 Sheridan Avenue
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Mr. Gordon Linden
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Piedmont, California 94611


Prepared by:

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Rowan Fennell
Staff Scientist



Mary C. Holland-Ford, R.G.
Project Geologist

C A M B R I A

GROUNDWATER MONITORING REPORT - SECOND QUARTER 2003

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

July 10, 2003

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 2003* for the above-referenced site (Figure 1). Described below are the second quarter 2003 monitoring activities and results and the anticipated third quarter 2003 activities.

SECOND QUARTER 2003 ACTIVITIES

Monitoring Activities

Field Activities: On May 28, 2003, Cambria gauged and inspected all groundwater monitoring wells for separate-phase hydrocarbons (SPH) (Figure 1). Groundwater samples were collected from wells MW-4, MW-7, MW-8, MW-9, and MW-13 as described by the well sampling protocol in Appendix A. Wells MW-1, MW-6, and MW-14 were not sampled due to the presence of SPH in the wells. Due to the absence of hydrocarbons and/or redundant locations, wells MW-2, MW-3, MW-5, MW-10, and MW-11 are no longer a part of the well sampling protocol. Field data sheets are presented in Appendix B. The well gauging data has been submitted to the Geotracker database. See Appendix D for the electronic delivery confirmations.

Sample Analysis: Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), TPH as diesel (TPHd), TPH as motor oil (TPHmo) by EPA Method 8015C, benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tertiary butyl ether (MTBE) by EPA Method 8021B, and halogenated volatile organic compounds (HVOCs) by EPA Method 8010. Dissolved oxygen was also measured in all the wells that were sampled. 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 reports and chain of custody are included in Appendix C. The groundwater sampling results have been submitted to the Geotracker database. See Appendix D for the electronic delivery confirmations.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected on May 28, 2003, groundwater beneath the site generally flows toward the northeast with a gradient of 0.017 ft/ft (Figure 1). This gradient is consistent with the previous quarter. Depth to water and groundwater elevation data are presented in Table 1.



Contaminant Distribution in Groundwater: In general, analytical results were consistent relative to the previous quarter. SPH were measured or observed in wells MW-1, MW-6, MW-14, and MW-15 (sheen). TPHg and benzene concentrations were detected in wells MW-4, MW-8, and MW-9, with the highest concentrations in well MW-4 at 110,000 micrograms per liter ($\mu\text{g/L}$), and 13,000 $\mu\text{g/L}$, respectively. TPHd was detected in wells MW-4 and MW-9, with the highest concentration in well MW-4 at 12,000 $\mu\text{g/L}$. TPHd results are likely related to gasoline as indicated in the footnotes of the laboratory analytical report. No HVOCs were detected with the exception of 1,2-DCA (in wells MW-4, MW-8, and MW-9) which is typically related to gasoline.

Corrective Action Activities

Separate-Phase Hydrocarbon Removal: Cambria conducted SPH removal activities on April 11, May 13, May 28, and June 13, 2003. During these site visits Cambria removed a total of 0.14 gallons of SPH from wells MW-1, MW-6, and MW-14. As of June 13, 2003, a total of approximately 152.70 gallons of SPH have been removed since SPH removal activities began in December 1991. Table 4 presents the SPH thickness measurements, the amount of SPH removed from the wells during each site visit, and the cumulative volume of SPH removed.

ANTICIPATED THIRD QUARTER 2003 ACTIVITIES

Monitoring Activities

Cambria will gauge all wells, check wells for SPH, and collect groundwater samples from all wells not containing SPH. Groundwater samples will be analyzed for TPHg and TPHd (with silica gel cleanup) by modified EPA Method 8015C, and BTEX and MTBE by EPA Method

8021B. Cambria will summarize groundwater monitoring and corrective action activities in the *Groundwater Monitoring Report - Third Quarter 2003*.

Corrective Action Activities



Cambria will continue to perform monthly SPH recovery events by hand-bailing all wells with measurable SPH.

Reduced Sampling

Cambria plans to implement the reduced sampling, proposed in the *Groundwater Monitoring Report – First Quarter 2003*. Based on the low or non-detectable levels of TPH_{mo}, LUFT metals, HVOCs over the past four quarters, these analyses have been removed from the well sampling protocol. Groundwater samples will also be passed through a silica gel cleanup, prior to being analyzed for TPH_d, to remove potential contributions of non-hydrocarbon organics.

ATTACHMENTS

Figure 1 – Groundwater Elevation Contour and Hydrocarbon Concentration Map

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

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

Table 3 – LUFT Metals in Groundwater

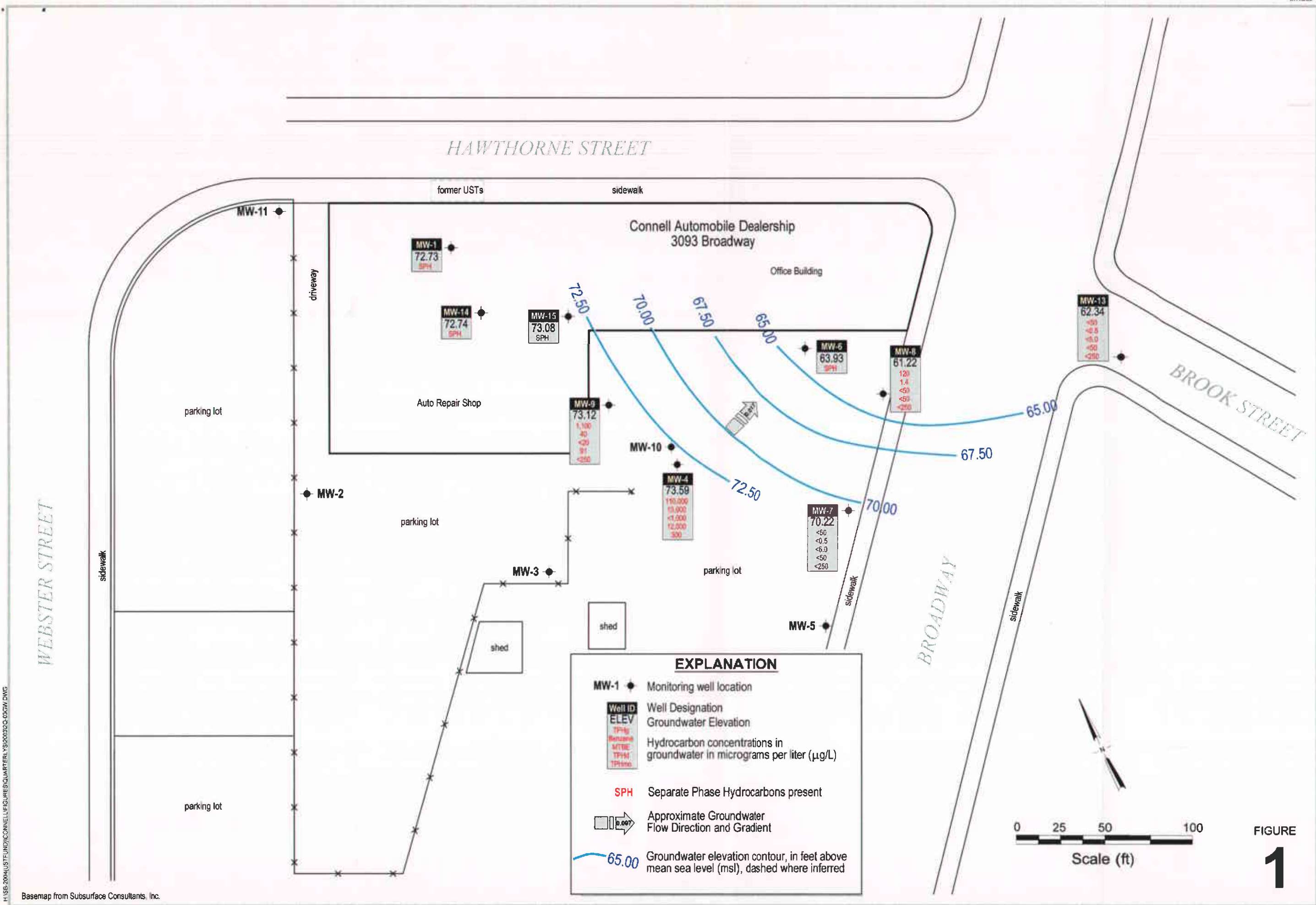
Table 4 – Liquid Phase Hydrocarbon Removal

Appendix A – Well Sampling Protocol

Appendix B – Groundwater Monitoring Field Data

Appendix C – Laboratory Analytical Report

Appendix D – Geotracker Electronic Delivery Confirmations



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Basemap from Subsurface Consultants, Inc.



Groundwater Elevation Contours and Hydrocarbon Concentration Map

May 28, 2003

Connell Automobile Dealership

3093 Broadway
Oakland, California

C A M B R I A

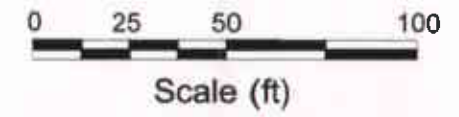


FIGURE 1

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
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)
MW-1	10/5/1990	26.40	68.08	620,000	33,000	50,000	7,900	41,000	--	2,900	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	--	1,300	--
	11/24/1992	26.63	67.85	320,000	35,000	43,000	4,200	22,000	--	1,600	ND
	4/5/1993	23.77	70.71	270,000	50,000	58,000	4,600	25,000	--	1,800	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	--	1,200	--
	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	--	930	--
	11/5/1997	25.06	69.42	240,000	42,000	48,000	3,600	18,800	<1,000	1,200	--
	2/9/1998	22.64	71.84	220,000	47,000	60,000	5,200	29,800	<1,000	1,500	ND
	5/1/1998	19.95	74.53	160,000	35,000	42,000	2,800	16,000	<1,000	1,100	ND
	11/3/1998	23.29	71.19	200,000	39,000	49,000	4,400	26,000	<500	1,200	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)	--	--	--	--	--	--	--

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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)
	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)	--	--	--	--	--	--	--
MW-2 94.81	3/1/1991	27.86	66.95	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/24/1992	27.91	66.90	<50	<0.5	1.1	<0.5	1.5	--	<1.0	ND
	4/5/1993	25.95	68.86	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/1993	25.59	69.22	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/10/1993	26.72	68.09	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/1995	25.75	69.06	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/1996	23.28	71.53	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/1997	24.58	70.23	<50	<0.5	0.7	<0.5	<0.5	--	<1.0	--
	4/29/1998	22.18	72.63	<50	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
MW-3 90.08	3/1/1991	23.17	66.91	<50	<50	0.6	<0.5	<0.5	--	<1.0	ND
	11/25/1992	23.01	67.07	50	<0.5	0.9	<0.5	2	--	<1.0	ND
	4/5/1993	22.11	67.97	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/1993	23.93	66.15	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/10/1993	23.14	66.94	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/1995	20.61	69.47	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/1996	18.43	71.65	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/1997	19.77	70.31	<50	<0.5	0.7	<0.5	<0.5	--	<1.0	--
	4/29/1998	17.92	72.16	<50	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND

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MW-4	3/1/1991	23.79	65.05	150,000	20,000	38,000	2,800	14,000	**	610	ND
88.84	10/12/1992	22.48	66.36	230,000	15,000	32,000	2,500	14,000	--	430	--
	11/24/1992	22.60	66.24	210,000	14,000	31,000	2,500	14,000	--	500	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	--	420	ND
	11/4/1996	20.13	68.71	160,000	16,000	38,000	2,700	14,000	--	380	ND
	5/8/1997	18.63	70.21	170,000	16,000	37,000	2,400	15,900	--	290	--
	11/5/1997	20.19	68.65	190,000	15,000	31,000	2,200	14,600	<400	290	--
	2/9/1998	18.28	70.56	110,000	19,000	42,000	2,500	18,300	<500	300	--
	5/1/1998	16.11	72.73	130,000	15,000	31,000	2,000	13,400	<1,000	260	ND
	88.84	8/4/1998	17.54	71.30	130,000	16,000	34,000	2,400	15,700	<400	240
11/2/1998		19.21	69.63	140,000	16,000	32,000	2,300	15,500	<400	230	ND
3/26/1999		17.51	71.33	110,000	15,000	30,000	1,600	15,000	450 ⁴	210	⁵
7/1/1999		18.80	70.04	110,000	13,000	23,000	1,600	12,000	<83	170	⁵
9/21/1999		19.85	68.99	140,000	16,000	31,000	2,400	14,800	ND	<1000	⁵
2/9/2000		19.76	69.08	140,000	16,000	28,000	2,100	14,000	<400	100	OCB: 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	<0.5	ND
8/8/2000		18.62	70.22	140,000	15,000	25,000	2,100	13,000	<300	110	ND
11/14/2000		19.63	69.21	150,000	19,000	36,000	2,900	17,000	<200	120	ND
3/1/2001		19.68	69.16	120,000	10,000	15,000	1,300	10,000	<2000	110	ND
5/7/2001	18.60	70.24	210,000	12,000	19,000	1,900	12,000	<200	100	ND	
8/1/2001	18.73	70.11	160,000	13,000	21,000	2,200	13,000	<200	84	ND	
11/5/2001	18.97	69.87	220,000	15,000	26,000	3,100	16,000	<200	72	ND	

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MW-4	2/13/2002	18.59	70.25	180,000	6,100	11,000	1,400	13,000	<200	55	MNE: 620, NE: 100
(cont'd)	5/2/2002	18.77	70.07	110,000	13,000	20,000	2,000	10,000	<1,200	87	ND
	8/4/2002	18.95	69.89	92,000	9,200	15,000	1,800	10,000	<2,000	44	ND
	11/26/2002	20.83	68.01	110,000	16,000	26,000	2,700	12,000	<1,000	56	ND
	1/20/2003	16.90	71.94	110,000	9,000	16,000	1,900	11,000	<1,200	32	ND
	5/28/2003	15.25	73.59	110,000	13,000	17,000	1,800	8,500	<1,000	50	ND
MW-5	3/15/1991	26.31	58.53	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
84.84	11/10/1992	26.83	58.01	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	4/2/1993	26.62	58.22	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/1993	26.60	58.24	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/9/1993	27.24	57.60	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/1995	27.46	57.38	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/1996	26.02	58.82	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/1997	26.76	58.08	<50	<0.5	0.5	<0.5	<0.5	--	<1.0	--
	4/29/1998	26.55	58.29	<50	<0.5	0.5	<0.5	<0.5	<2	<1.0	ND
MW-6	3/15/1991	25.82	59.80	80,000	12,000	13,000	1,100	5,400	--	1,400	DBCM: 160
85.62	10/12/1992	25.02	60.60	19,000	3,200	1,400	200	560	--	840	--
	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	71	--
86.94	5/3/1996	28.15	58.79	130,000	37,000	50,000	3,200	14,200	--	2,400	ND
	5/9/1997	26.54	60.40	1,700,000	14,000	27,000	4,000	28,200	--	1,200	--

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MW-6	11/5/1997	26.16	60.78	160,000	13,000	19,000	1,900	14,300	<200	790	--
(cont'd)	5/1/1998	22.96	62.86	130,000	15,000	23,000	1,700	13,200	<500	1,100	ND
85.82	11/3/1998	24.35	61.47	110,000	17,000	21,000	1,800	10,700	<200	990	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)	--	--	--	--	--	--	--
MW-7	3/15/1991	21.63	63.78	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
85.41	11/24/1992	21.52	63.89	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	4/2/1993	20.08	65.33	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/1993	19.59	65.82	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/9/1993	20.65	64.76	<50	<0.5	1	<0.5	1.7	--	<1.0	ND
	8/30/1995	18.78	66.63	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	--

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
 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)
MW-7	12/1/1995	19.47	65.94	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
(cont'd)	5/2/1996	17.15	68.26	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/8/1996	18.48	66.93	<50	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	11/4/1996	18.69	66.72	<50	<1	<1	<1	<1	--	<1.0	ND
	2/6/1997	17.44	67.97	<50	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	5/8/1997	17.72	67.69	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	8/7/1997	18.49	66.92	<50	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	11/5/1997	18.86	66.55	<50	<0.5	<0.5	<0.5	<0.5	<2	1	--
	2/9/1998	17.56	67.85	<50	<0.5	<0.5	<0.5	<0.5	<2	<1.0	--
	4/29/1998	16.23	69.18	<50	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	8/4/1998	17.24	68.17	<50	<0.5	<0.5	<0.5	<0.5	<2	1.1	ND
	11/2/1998	17.91	67.50	<50	<0.5	<0.5	<0.5	<0.5	<2	1.2	ND
	3/26/1999	16.42	68.99	<50	<0.5	<0.5	<0.5	<0.5	<2	ND	ND
	7/1/1999	17.90	67.51	85	<0.5	1.1	0.55	2.5	<0.5	1.0	⁵
	9/21/1999	18.91	66.50	<50	0.7	1.8	<0.5	1.5	<5.0	<5.0	ND
	2/9/2000	16.74	68.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	5/31/2000	16.21	69.20	<50	3	6	1	9	<0.5	<0.5	ND
	8/8/2000	16.92	68.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.52	ND
	11/14/2000	17.00	68.41	<50	<0.5	0.63	<0.5	<0.5	<5.0	<0.5	ND
	3/1/2001	17.09	68.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	5/7/2001	17.19	68.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	8/1/2001	17.25	68.16	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	11/5/2001	17.35	68.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	2/13/2002	17.50	67.91	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	5/2/2002	17.30	68.11	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	8/4/2002	17.58	67.83	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	11/26/2002	18.35	67.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
 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)
MW-7	1/20/2003	15.84	69.57	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
(cont'd)	5/28/2003	15.19	70.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0	ND
MW-8	10/12/1992	27.70	57.80	70	20	1	1	3	--	210	--
85.50	11/25/1992	27.62	57.88	<50	<0.5	<0.5	<0.5	<0.5	--	200	ND
	4/8/1993	26.64	58.86	490	15	45	5.1	73	--	210	ND
	7/21/1993	26.60	58.90	180	2.5	3	<0.5	1.9	--	350	ND
	11/11/1993	27.18	58.32	310	23	<0.5	<0.5	<0.5	--	240	ND
	8/30/1995	26.35	59.15	660	360	6.8	13	2.8	--	130	--
	12/4/1995	26.72	58.78	250	46	0.9	4.9	<0.5	--	94	ND
	5/3/1996	25.47	60.03	69	110	<0.5	<0.5	1.5	--	100	ND
	8/8/1996	26.41	59.09	120	11	<0.5	<0.5	<0.5	<2	93	ND
	11/5/1996	26.77	58.73	110	20	<1	1	<1	--	98	ND
	2/6/1997	25.84	59.66	67 ^{1,2}	51	<0.5	0.56	<0.5	<2	81	ND
	5/9/1997	26.39	59.11	110 ^{1,2}	59	<0.5	<0.5	<0.5	--	76	--
	8/7/1997	26.72	58.78	<50	12 ³	<0.5	<0.5	<0.5	<2	79	ND
	11/5/1997	26.82	58.68	<50	9.4	<0.5	<0.5	<0.5	<2	84	--
	2/9/1998	25.57	59.93	<50	6	<0.5	<0.5	<0.5	<2	85	--
	5/1/1998	25.64	59.86	430	490	7.1	27	26	<10	85	ND
	8/5/1998	25.96	59.54	140	19	<0.5	5.2	5.3	<2	69	ND
	11/3/1998	26.27	59.23	150	110	1.1	4.3	4.5	<2	67	ND
	3/31/1999	20.93	64.57	54	170	1.5	4.1	1.9	4.4 ⁴	5.9	1,1 DCA: 0.7 ⁵
	7/1/1999	26.59	58.91	140	58	0.9	3	2.3	<0.5	55	
	9/21/1999	26.89	58.61	670	170	2.6	11	7.9	<5	41	ND
	2/9/2000	26.60	58.90	300	60	1.2	4.8	1.2	<5.0	40	<0.5
	8/8/2000	26.43	59.07	270	56	1.2	4.1	1.0	<5.0	39	ND
	11/14/2000	26.60	58.90	330	64	1.3	3.5	0.60	<5.0	47	ND

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID <i>TOC Elev.</i> <i>(ft)</i>	Sampling Date	Depth to Groundwater <i>(ft)</i>	Groundwater Elevation <i>(ft)</i>	TVH/TPHg <i>(µg/L)</i>	Benzene <i>(µg/L)</i>	Toluene <i>(µg/L)</i>	Ethyl- benzene <i>(µg/L)</i>	Xylenes <i>(µg/L)</i>	MTBE <i>(µg/L)</i>	1,2-DCA <i>(µg/L)</i>	Other HVOCs <i>(µg/L)</i>
MW-8	3/1/2001	26.41	59.09	400	140	<0.5	<0.5	0.55	<5.0	16	ND
<i>(cont'd)</i>	5/7/2001	26.55	58.95	240	37	0.71	2.5	0.77	<5.0	48	ND
	8/1/2001	26.71	58.79	130	5.2	<0.5	<0.5	<0.5	<5.0	39	ND
	11/5/2001	26.67	58.83	140	3.3	<0.5	<0.5	<0.5	<5.0	44	ND
	2/13/2002	26.15	59.35	1,100	440	0.087	0.66	2.0	<5.0	47	ND
	5/2/2002	26.63	58.87	90	3.9	<0.5	<0.5	<0.5	<5.0	47	ND
	8/4/2002	26.80	58.70	120	2.4	0.77	<0.5	<0.5	<5.0	44	ND
	11/26/2002	27.50	58.00	85	3.7	<0.5	<0.5	<0.5	<5.0	45	ND
	1/20/2003	24.93	60.57	90	3.9	0.67	<0.5	<0.5	<5.0	44	ND
	5/28/2003	24.28	61.22	120	1.4	<0.5	<0.5	<0.5	<5.0	34	ND
MW-9	11/24/1992	23.51	66.86	19,000	180	590	23	2,000	--	340	TCM: 15
90.37	4/5/1993	21.14	69.23	2,300	48	4	0.6	13	--	600	TCM: 2
	7/21/1993	21.54	68.83	2,300	170	8.1	15	<0.5	--	1100	ND
	11/10/1993	27.53	62.84	4,400	69	7.3	21	9.7	--	900	ND
	8/30/1995	19.59	70.78	3,200	3,900	49	80	22.8	--	960	--
	12/4/1995	20.65	69.72	--	--	--	--	--	<2	--	--
	5/2/1996	18.63	71.74	<1300	2,600	<13	200	<13	--	550	ND
	11/5/1996	20.69	69.68	1,800	280	<5	65	<5	--	770	ND
	5/9/1997	19.96	70.41	1,100	160	<0.5	42	<0.5	--	690	--
	8/8/1997	20.84	69.53	570 ^{1,2}	<0.5	<0.5	<0.5	0.78 ³	<2	680	ND
	11/5/1997	21.55	68.82	490 ¹	<0.5	<0.5	6	<0.5	<2	500	--
	2/9/1998	20.21	70.16	270 ¹	48	17	5.8	<0.5	<2	520	--
	5/1/1998	19.27	71.10	550	70	<0.5	22	2.2	<2	390	ND
	8/5/1998	19.35	71.02	550 ¹	88	<0.5	13	1.9 ³	<2	420	ND
	11/2/1998	20.43	69.94	580	<0.5	<0.5	7.5 ³	1.6 ³	<2	430	ND
	3/25/1999	18.46	71.91	1,100	160	<0.5	21	2.1 ³	5.7 ⁴	550	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)
MW-9	7/1/1999	19.95	70.42	540	100	7.4	26	16.9	<1.3	400	⁵
(cont'd)	9/21/1999	21.15	69.22	2,700	320	98	88	47	<20	540	ND
	2/9/2000	21.08	69.29	1,600	81	3.6	19	18	<5.0	360	<0.5
	5/31/2000	19.11	71.26	1,500	170	13	25	<1.0	<0.5	300	ND
	8/8/2000	19.86	70.51	1,300	140	2.1	19	<0.5	<5.0	330	ND
	11/14/2000	20.90	69.47	1,700	250	2.6	44	2.1	<5.0	610	ND
	3/1/2001	20.45	69.92	1,800	170	5.6	30	2.5	<20	620	ND
	5/7/2001	19.83	70.54	1,500	120	2.6	24	<0.5	<5.0	400	ND
	8/1/2001	20.02	70.35	2,600	280	4.8	50	<0.5	<5.0	450	ND
	11/5/2001	19.85	70.52	2,200	170	4.5	100	0.54	<5.0	260	ND
	2/13/2002	19.80	70.57	1,800	98	3	58	1.5	<5.0	340	ND
	5/2/2002	19.93	70.44	1,100	82	1.4	20	<0.5	<10	330	ND
	8/4/2002	20.20	70.17	1,200	130	2.5	50	0.58	<10	360	ND
	11/26/2002	20.37	70.00	1,200	150	3.3	48	<2.5	<25	250	ND
	1/20/2003	17.93	72.44	840	110	1.2	31	0.76	<5.0	330	ND
	5/28/2003	17.25	73.12	1,100	40	1.9	3.0	<0.5	<20	200	ND
MW-10	10/12/1992	21.55	67.05	28,000	2,700	3,800	210	1,300	--	150	--
88.60	11/24/1992	21.86	66.74	130,000	9,700	19,000	1,400	8,400	--	370	ND
	4/5/1993	19.14	69.46	63,000	6,300	14,000	1,100	7,500	--	70	ND
	7/21/1993	19.79	68.81	140,000	16,000	31,000	2,200	13,000	--	700	ND
	8/30/1995	17.99	70.61	92,000	13,000	24,000	1,800	9,100	--	300	--
	5/3/1996	17.04	71.56	81,000	17,000	29,000	2,100	8,500	--	320	ND
	5/9/1997	18.36	70.24	63,000	7,400	13,000	940	4,100	--	150	--
	5/1/1998	15.84	72.76	60,000	7,100	14,000	1,100	5,300	<250	120	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)
MW-11	11/24/1992	33.65	68.41	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
102.06	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	--	<1.0	ND
	7/21/1993	31.90	70.16	160	<0.5	1.8	<0.5	<0.5	--	<1.0	ND
	11/9/1993	32.60	69.46	80	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/1995	28.92	73.14	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/1996	28.00	74.06	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/1997	29.93	72.13	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	4/29/1998	27.22	74.84	<50	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
MW-13	11/24/1992	26.05	58.01	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
84.06	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	--	<1.0	ND
	7/21/1993	24.29	59.77	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/9/1993	24.23	59.83	<50	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/1995	23.30	60.76	<50	49	<0.5	<0.5	<0.5	--	3.6	--
	12/1/1995	23.80	60.26	<50	<0.5	<0.5	<0.5	<0.5	--	4.1	ND
	5/3/1996	23.19	60.87	<50	<0.5	<0.5	<0.5	<0.5	--	4	ND
	8/8/1996	23.44	60.62	<50	32	<0.5	<0.5	<0.5	<2	6.4	ND
	11/5/1996	24.04	60.02	<50	<1	<1	<1	<1	--	5.7	ND
	2/6/1997	23.24	60.82	<50	<0.5	<0.5	<0.5	<0.5	<2	3.5	ND
	5/8/1997	23.46	60.60	<50	81	<0.5	<0.5	<0.5	--	5.5	--
	8/8/1997	23.92	60.14	<50	<0.5	<0.5	<0.5	<0.5	<2	6.8	ND
	11/5/1997	24.27	59.79	<50	<0.5	<0.5	<0.5	<0.5	<2	5.5	--

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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)
MW-13	2/9/1998	22.89	61.17	<50	<0.5	<0.5	<0.5	<0.5	<2	2.9	--
(cont'd)	4/29/1998	22.27	61.79	<50	24	<0.5	<0.5	<0.5	<2	5.7	ND
	8/4/1998	22.75	61.31	120	200	<1	<1	<1	<4	6.2	ND
	11/3/1998	23.90	60.16	59 ¹	33	<0.5	<0.5	<0.5	<2	6.1	ND
	3/31/1999	23.11	60.95	130	0.56	<0.5	<0.5	<0.5	<2	1.4	ND
	7/1/1999	23.40	60.66	160	370	19	1.2	3.5	<1	4.2	⁵
	9/21/1999	21.91	62.15	370	150	1.0	0.8	0.8	<5.0	<5.0	ND
	2/9/2000	23.84	60.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1	<0.5
	8/8/2000	23.31	60.75	<50	<0.5	<0.5	<0.5	<0.5	<5.0	3.6	ND
	11/14/2000	24.00	60.06	<50	<0.5	0.52	<0.5	<0.5	<5.0	3.3	ND
	3/1/2001	23.93	60.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	5/7/2001	23.93	#REF!	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.3	ND
	8/1/2001	24.10	59.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	11/5/2001	24.02	60.04	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	2/13/2002	23.70	60.36	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	5/2/2002	23.97	60.09	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.54	ND
	8/4/2002	24.19	#REF!	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	11/26/2002	24.78	#REF!	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	1/20/2003	22.10	#REF!	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	5/28/2003	21.72	#REF!	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0	ND
MW-14	5/26/1998	21.67	72.99	41,000	7,100	11,000	720	3,900	<1000	440	ND
94.66	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	450	<0.5
	5/31/2000	22.09	72.57	SPH	--	--	--	--	--	--	--
	8/8/2000	22.88	71.78	SPH	--	--	--	--	--	--	--

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
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)
MW-14	11/14/2000	23.90	70.76	SPH	--	--	--	--	--	--	--
(cont'd)	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)	--	--	--	--	--	--	--
MW-15	5/26/1998	21.87	72.89	130,000	30,000	38,000	2,500	12,600	<1000	1,200	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	1,100	<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	560	ND
	5/2/2002	23.59	71.17	SPH (sheen)	--	--	--	--	--	--	--
	8/4/2002	23.65	71.11	SPH (sheen)	--	--	--	--	--	--	--

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
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)
MW-15	11/26/2002	24.59	70.17	SPH (sheen)	--	--	--	--	--	--	--
(cont'd)	1/20/2003	22.08	72.68	48,000	9,900	10,000	1,000	3,600	<1,200	170	ND
	5/28/2003	21.68	73.08	SPH (sheen)	--	--	--	--	--	--	--
Trip Blank	8/1/2001	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--
	11/5/2001	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--
	2/13/2002	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--

Abbreviations and Notes:

TOC Elev. (ft) = Top of casing elevation in feet above mean sea level
 µg/l = micrograms per liter = parts per billion = ppb
 TVH = Total Volatile Hydrocarbons
 TPHg = Total petroleum hydrocarbons as gasoline
 MTBE = Methyl tert-butyl ether
 1,2-DCA = 1,2 Dichloroethane
 HVOCs = Halogenated volatile organic compounds by EPA Method 8010
 DCB = 1, 3 Dichlorobenzene
 MCB = Chlorobenzene
 DBCM = Dibromochloromethane
 TCM = Chloroform = trichloromethane
 ND = None detected above laboratory reporting limit, see laboratory report for individual reporting limits.
 -- = Sample not analyzed
 SPH = Free product encountered in well
 <n = Chemical not present at a concentration in excess of detection limit shown

MW-1 was initially referred to as Sample 5.
 * = 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	--	--	--	--

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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	2/13/2002	23.15	71.39	--	SPH(0.07)	--	--	--	--
(cont'd)	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)	--	--	--	--
MW-2	3/1/1991	27.86	66.95	<50	--	--	--	--	--
94.81	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	--	--	--	--	--
90.08	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	--	--	--	--	--

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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	3/1/1991	23.79	65.05	<500	--	--	--	--	--
88.84	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	--	--	--	--	--
	2/9/1998	18.28	70.56	4,800	--	--	--	--	--
	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	--	--	--

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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-4	2/13/2002	18.59	70.25	--	140,000	11,000	620	1000	--
<i>(cont'd)</i>	5/2/2002	18.77	70.07	--	68,000	<25,000	--	--	--
	8/4/2002	18.95	#REF!	--	58,000	<25,000	--	--	--
	11/26/2002	20.83	#REF!	--	7,100	<250	--	--	--
	1/20/2003	16.90	#REF!	--	29,000	<2500	--	--	--
	5/28/2003	15.25	73.59	--	12,000	300	--	--	--
MW-5	3/15/1991	26.31	58.53	<50	--	--	--	--	--
<i>84.84</i>	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	--	--	--	--	--
MW-6	3/15/1991	25.82	59.80	<50	--	--	--	--	--
<i>85.62</i>	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	--	--	--	--	--
	5/3/1996	26.83	58.79	9,000	--	--	--	--	--
<i>86.94</i>	5/9/1997	26.54	60.40	53,000	--	--	--	--	--

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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	11/5/1997	26.16	60.78	65,000	--	--	--	--	--
85.82	5/1/1998	22.96	62.86	25,000	--	--	--	--	--
(cont'd)	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)	--	--	--	--
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	--	--	--	--	--

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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	5/2/1996	17.15	68.26	<50	--	--	--	--	--
(cont'd)	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	--	--	--

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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	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	--	--	--

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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	8/1/2001	26.71	58.79	--	58	<250	--	--	--
(cont'd)	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	--	--	--
	11/26/2002	27.50	58.00	--	<50	<250	--	--	--
	1/20/2003	24.93	60.57	--	63	<250	--	--	--
	5/28/2003	24.28	61.22	--	<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

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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	2/9/2000	21.08	69.29	--	320	<250	<10	<10	ND
(cont'd)	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	--	--	--
	8/4/2002	20.20	70.17	--	300	<250	--	--	--
	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	--	--	--
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	--	--	--	--	--

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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-11	7/21/1993	31.90	70.16	150	--	--	--	--	--
(cont'd)	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 84.06	11/24/1992	26.05	58.01	3,600	--	--	--	--	--
	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	--	--	--	--	--
	8/30/1995	23.30	60.76	<50	--	--	--	--	--
	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	--	--	--	--	--

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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	7/1/1999	23.40	60.66	100	--	--	<9.6	<9.6	ND
(cont'd)	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	21.72	#REF!	--	<50	<250	--	--	--
MW-14	5/26/1998	21.67	72.99	7,700	--	--	--	--	--
94.66	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)	--	--	--	--

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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-14	5/2/2002	23.51	71.17	--	SPH (0.02)	--	--	--	--
(cont'd)	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)	--	--	--	--
MW-15	5/26/1998	21.87	72.89	1,700	--	--	--	--	--
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	--	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)	--	--	--	--
	1/20/2003	22.08	72.68	--	3,700	340	--	--	--
	5/28/2003	21.68	73.08	--	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	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)
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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 µg/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	Chromium	Lead	Nickel	Zinc
		<-----ug/l----->				
MW-4	7/1/99	<5	<10	59	<20	<20
	9/21/99	<5	<10	66	<20	33
	2/9/00	<5	17	68	<50	<50
MW-7	7/1/99	<5	<10	<3	<20	<20
	9/21/99	<5	<10	<3	<20	<20
	2/9/00	<5	14	8.6	59	<50
MW-8	7/1/99	<5	<10	<3	<20	<20
	9/21/99	<5	<10	<3	<20	<20
	2/9/00	<5	<5	<5	<50	<50
MW-9	7/1/99	<5	<10	<3	34	<20
	9/21/99	<5	<10	<3	25	37
	2/9/00	<5	82	29	160	130
	3/1/01	<5	47	<5	72	<50
	5/7/01	<5	49	<5	<50	<50
	8/1/01	<5	<20	<5	<50	<50
	2/13/02	<5	--	<5	<50	<50
	1/20/03	<5	<20	<5	<50	<50
MW-13	7/1/99	<5	<10	<3	<20	<20
	9/21/99	<5	<10	<3	<20	<20
	2/9/00	<5	12	15	<50	<50
MW-14	2/9/00	<5	210	24	2,500	280
MW-15	2/9/00	<5	140	1,800	220	150
	2/13/02	<5	--	<5	<50	<50
	1/20/03	<5	<20	36	<50	<50

Abbreviations and Notes:

LUFT metals analyzed by EPA Method 6010

ug/l = micrograms per liter

-- = Not analyzed/not available

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Table 4. Liquid-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Water (ft)	LPH Thickness (ft)	Hydrocarbons Removed (gallons)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)	Notes
MW-1	12/23/1991	26.86	1.15	2.00	12.20	12.20	1
94.48	12/26/1991	26.08	0.22	0.50	3.05	15.25	1
	1/13/1992	26.53	0.66	1.00	6.10	21.35	1
	2/28/1992	27.75	0.42	2.00	12.20	33.55	1
	11/9/1993	26.06	1.17	0.50	3.05	36.60	1
	11/3/1995	23.10	0.76	0.75	4.58	41.18	1
	11/30/1995	23.38	0.70	0.25	1.53	42.70	1
	1/3/1996	23.30	0.78	0.53	3.23	45.93	1
	2/2/1996	22.96	0.84	0.75	4.58	50.51	1
	3/1/1996	21.69	0.14	0.10	0.61	51.12	1
	4/4/1996	21.11	0.00	0.00	0.00	51.12	1
	5/2/1996	20.96	0.00	0.00	0.00	51.12	1
	6/5/1996	20.98	0.04	0.10	0.61	51.73	1
	7/9/1996	21.64	0.20	0.10	0.61	52.34	1
	8/8/1996	22.43	0.33	0.05	0.31	52.64	1
	9/10/1996	23.25	0.60	0.10	0.61	53.25	1
	10/1/1996	23.58	0.60	0.25	1.53	54.78	1
	11/4/1996	24.29	0.78	0.13	0.79	55.57	1
	12/2/1996	24.63	0.88	0.26	1.59	57.16	1
	1/3/1997	24.08	0.81	0.39	2.38	59.54	1
	2/6/1997	22.46	0.30	0.01	0.06	59.60	1
	3/5/1997	23.00	0.00	0.00	0.00	59.60	1
	4/1/1997	22.29	0.20	0.01	0.06	59.66	1
	5/8/1997	22.79	0.33	0.02	0.12	59.78	1
	6/6/1997	24.33	1.69	0.26	1.59	61.37	1
	7/8/1997	24.00	0.96	0.20	1.22	62.59	1
	8/7/1997	24.58	1.29	1.00	6.10	68.69	1
	9/10/1997	24.93	1.21	1.50	9.15	77.84	1
	10/1/1997	24.89	0.86	0.26	1.59	79.42	1
	11/4/1997	25.06	0.77	0.26	1.59	81.01	1
	12/4/1997	24.76	0.54	0.19	1.16	82.17	1
	1/8/1998	23.66	0.00	0.00	0.00	82.17	1
	2/5/1998	22.64	0.00	0.00	0.00	82.17	1
	3/6/1998	20.80	0.00	0.00	0.00	82.17	1
	4/2/1998	20.31	0.00	0.00	0.00	82.17	1
	4/29/1998	19.95	0.00	0.00	0.00	82.17	1
	6/3/1998	20.41	0.00	0.00	0.00	82.17	1
	7/9/1998	20.97	0.07	0.00	0.00	82.17	1
	8/4/1998	21.40	trace	trace	0.00	82.17	1
	8/26/1998	21.85	0.10	trace	0.00	82.17	1
	11/2/1998	22.92	0.39	trace	0.00	82.17	1
	12/4/1998	23.29	0.29	0.01	0.06	82.23	1
	1/5/1999	23.51	0.42	0.03	0.18	82.41	1
	2/8/1999	23.08	0.05	0.25	1.53	83.94	1

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Table 4. Liquid-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Water (ft)	LPH Thickness (ft)	Hydrocarbons Removed (gallons)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)	Notes
MW-1	3/24/1999	21.90	0.01	0.01	0.06	84.00	1
(cont'd)	4/30/1999	21.52	0.00	0.00	0.00	84.00	1
	7/1/1999	22.70	0.03	0.01	0.06	84.06	1
	9/21/1999	23.81	0.08	0.20	1.22	85.28	1
	10/20/1999	23.90	0.10	0.01	0.06	85.34	1
	12/13/1999	24.24	trace	0.00	0.00	85.34	1
	2/9/2000	23.95	0.07	0.05	0.31	85.64	1
	2/15/2000	-	0.00	0.00	0.00	85.64	2
	2/25/2000	23.69	0.00	0.06	0.38	86.03	2
	3/3/2000	23.27	0.00	0.05	0.31	86.33	2
	3/28/2000	22.39	0.00	0.13	0.79	87.12	2
	5/2/2000	22.29	0.00	0.05	0.29	87.41	2
	5/31/2000	22.05	0.00	0.00	0.00	87.41	2
	7/3/2000	22.10	trace	0.02	0.12	87.53	2
	8/4/2000	22.40	0.00	0.01	0.06	87.59	2
	10/6/2000	23.47	0.46	0.01	0.06	87.65	1
	11/3/2000	24.14	0.78	0.00	0.00	87.65	
	12/1/2000	25.40	0.83	1.75	10.50	98.15	1,2
	1/4/2001	25.13	0.09	0.25	1.53	99.68	2
	2/2/2001	25.12	0.03	0.13	0.79	100.47	2
	4/3/2001	23.19	0.24	0.10	0.61	101.08	
	5/4/2001	23.31	0.47	0.00	0.00	101.08	
	5/7/2001	23.85	0.05	0.03	0.16	101.24	2
	6/11/2001	23.77	0.67	0.00	0.00	101.24	2
	5/2/2002	23.41	0.46	0.01	0.04	101.28	
	6/14/2002	23.95	0.03	0.01	0.04	101.32	2
	8/4/2002	24.02	0.03	0.01	0.06	101.39	2
	9/24/2002	24.59	0.01	0.003	0.02	101.40	2
	10/16/2002	25.08	0.03	0.003	0.02	101.42	2
	11/6/2002	25.71	0.08	0.005	0.03	101.45	2
	11/26/2002	24.47	0.05	0.003	0.02	101.47	2
	12/9/2002	24.08	0.07	0.009	0.06	101.52	2
	1/17/2003	22.14	0.07	0.005	0.03	101.56	1,2
	1/27/2003	22.55	0.02	0.003	0.02	101.57	2
	3/5/2003	23.53	0.02	0.25	1.53	103.10	1,2
	4/11/2003	23.11	0.03	0.007	0.04	103.14	1,2
	5/13/2003	22.95	0.02	0.007	0.04	103.18	1,2
	5/28/2003	21.77	0.02	0.008	0.05	103.23	1,2
	6/13/2003	21.84	0.03	0.013	0.08	103.31	1,2
MW-4	12/23/1991	22.63	0.98	2.50	15.25	15.25	1
88.84	12/26/1991	22.52	0.96	6.00	36.60	51.85	1
	1/10/1992	22.74	0.99	5.00	30.50	82.35	1
	2/28/1992	22.00	0.67	4.00	24.40	106.75	1
	3/11/1992	21.71	0.55	3.50	21.35	128.10	1

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Table 4. Liquid-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling TOC Elev. (ft)	Depth to Water (ft)	LPH Thickness (ft)	Hydrocarbons Removed (gallons)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)	Notes
MW-4	3/13/1992	21.56	0.49	3.50	21.35	149.45	1
(cont'd)	3/17/1992	25.46	0.44	2.25	13.73	163.18	1
	3/18/1992	21.38	0.44	2.50	15.25	178.43	1
	3/19/1992	21.33	0.48	1.50	9.15	187.58	1
	3/23/1992	21.29	0.42	4.00	24.40	211.98	1
	3/24/1992	21.31	0.38	1.50	9.15	221.13	1
	3/25/1992	21.17	0.36	1.00	6.10	227.23	1
	3/26/1992	21.08	0.35	1.00	6.10	233.33	1
	3/27/1992	20.92	0.26	0.50	3.05	236.38	1
	3/31/1992	21.15	0.44	0.50	3.05	239.43	1
	4/1/1992	20.90	0.24	0.25	1.53	240.95	1
	4/2/1992	20.90	0.17	0.13	0.79	241.74	1
	4/6/1992	--	--	0.13	0.79	242.54	1
	4/10/1992	20.91	0.33	0.25	1.53	244.06	1
	4/13/1992	21.04	0.42	0.25	1.53	245.59	1
	4/20/1992	20.74	0.19	0.13	0.79	246.38	1
	5/4/1992	20.83	0.33	0.13	0.79	247.17	1
	5/18/1992	21.33	0.23	0.13	0.79	247.97	1
	5/26/1992	20.83	0.17	0.13	0.79	248.76	1
	6/1/1992	20.85	0.19	0.06	0.37	249.12	1
	6/29/1992	21.38	0.53	0.25	1.53	250.65	1
	7/29/1992	21.69	0.56	1.11	6.77	257.42	1
	8/28/1992	21.35	0.63	1.68	10.25	267.67	1
	4/3/1993	20.11	0.51	0.13	0.79	268.46	1
	11/9/1993	20.48	0.52	0.03	0.18	268.64	1
	8/30/1995	21.71	0.63	1.75	10.68	279.32	1
	10/2/1995	19.90	2.20	0.50	3.05	282.37	1
	11/3/1995	18.76	0.57	0.25	1.53	283.89	1
	11/30/1995	19.17	0.65	0.25	1.53	285.42	1
	1/3/1996	19.45	0.44	0.05	0.31	285.72	1
	2/2/1996	19.50	0.32	0.10	0.61	286.33	1
	3/1/1996	19.31	0.20	0.20	1.22	287.55	1
	4/4/1996	17.53	0.18	0.20	1.22	288.77	1
	5/2/1996	17.50	0.25	0.20	1.22	289.99	1
	6/5/1996	17.67	0.39	0.15	0.92	290.91	1
	7/9/1996	18.29	0.50	0.16	0.98	291.89	1
	8/8/1996	18.84	0.00	0.00	0.00	291.89	1
	9/10/1996	19.31	0.34	0.05	0.31	292.19	1
	10/1/1996	19.51	0.29	0.05	0.31	292.50	1
	11/4/1996	20.13	0.35	0.02	0.12	292.62	1
	12/2/1996	20.23	0.33	0.02	0.12	292.74	1
	1/3/1997	19.33	0.10	0.02	0.12	292.86	1
	2/6/1997	18.13	0.01	0.01	0.06	292.92	1
	4/30/1999	17.28	trace	0.00	0.00	292.92	1
	2/9/2000	19.76	0.00	0.00	0.00	292.92	1

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

Well ID	Sampling TOC Elev. (ft)	Depth to Water (ft)	LPH Thickness (ft)	Hydrocarbons Removed (gallons)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)	Notes
MW-4	2/15/2000	--	0.00	0.00	0.00	292.92	2
(cont'd)	2/25/2000	19.30	0.00	0.00	0.00	292.92	2
MW-6	12/23/1991	28.40	3.21	7.50	45.75	45.75	1
85.62	12/26/1991	27.25	1.67	2.00	12.20	57.95	1
	1/10/1992	27.23	0.90	1.00	6.10	64.05	1
	2/4/1992	27.71	2.04	2.00	12.20	76.25	1
	2/28/1992	27.92	3.00	3.00	18.30	94.55	1
	3/10/1992	27.16	2.06	2.75	16.78	111.33	1
	3/12/1992	25.96	0.52	2.00	12.20	123.53	1
	3/23/1992	26.34	1.09	1.00	6.10	129.63	1
	3/30/1992	25.73	0.35	0.50	3.05	132.68	1
	4/10/1992	25.29	0.05	0.25	1.53	134.20	1
	4/13/1992	25.52	0.21	0.13	0.79	134.99	1
	4/20/1992	25.38	0.10	0.13	0.79	135.79	1
	5/4/1992	25.40	--	0.13	0.79	136.58	1
	5/8/1992	25.50	0.17	0.06	0.37	136.95	1
	5/26/1992	25.46	0.13	0.13	0.79	137.74	1
	6/1/1992	25.46	0.09	0.06	0.37	138.10	1
	6/29/1992	25.59	0.14	0.19	1.16	139.26	1
	7/29/1992	26.90	1.71	0.60	3.66	142.92	1
	8/28/1992	25.09	2.62	2.40	14.64	157.56	1
	12/2/1992	--	--	0.00	0.00	157.56	1
	4/3/1993	26.96	2.86	1.75	10.68	168.24	1
	11/9/1993	27.51	3.06	0.83	5.06	173.30	1
	8/30/1995	28.00	7.96	4.50	27.45	200.75	1
	10/2/1995	28.24	6.14	4.00	24.40	225.15	1
	11/3/1995	28.39	6.13	3.00	18.30	243.45	1
	11/30/1995	26.91	3.44	2.50	15.25	258.70	1
	1/3/1996	27.58	4.41	2.50	15.25	273.95	1
	2/2/1995	27.58	4.37	5.00	30.50	304.45	1
	3/1/1996	27.96	5.15	4.00	24.40	328.85	1
	4/4/1996	27.96	5.41	5.00	30.50	359.35	1
	5/2/1996	26.83	4.66	4.50	27.45	386.80	1
	6/5/1996	27.15	5.17	4.00	24.40	411.20	1
	7/9/1996	27.08	4.86	4.50	27.45	438.65	1
	8/8/1996	26.71	4.05	4.00	24.40	463.05	1
	9/10/1996	26.83	3.82	3.50	21.35	484.40	1
	10/1/1996	26.96	3.77	4.00	24.40	508.80	1
	11/4/1996	--	--	NM	NM	NM	4
86.94	12/2/1996	--	--	NM	NM	NM	4
	1/3/1997	--	--	NM	NM	NM	4
	2/6/1997	25.08	0.20	NM	NM	NM	4
	3/5/1997	24.20	0.00	NM	NM	NM	4
	4/1/1997	24.04	0.00	NM	NM	NM	4

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

Well ID TOC Elev. (ft)	Sampling Date	Depth to Water (ft)	LPH Thickness (ft)	Hydrocarbons Removed (gallons)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)	Notes
MW-6	5/8/1997	26.54	1.88	0.40	2.44	511.24	1
(cont'd)	6/6/1997	25.33	0.21	0.03	0.18	511.42	1
85.82	7/8/1997	25.30	0.07	0.00	0.00	511.42	1
	8/7/1997	25.52	0.00	0.00	0.00	511.42	1
	9/10/1997	25.76	0.00	0.00	0.00	511.42	1
	10/1/1997	25.12	0.00	0.00	0.00	511.42	1
	11/4/1997	26.16	0.18	0.02	0.12	511.55	1
	12/4/1997	26.08	0.16	0.05	0.31	511.85	1
	1/8/1998	25.79	0.10	0.66	4.03	515.88	1
	2/5/1998	25.31	0.89	NM	NM	NM	4
	3/6/1998	24.63	0.46	0.04	0.24	516.12	1
	4/2/1998	24.45	0.59	0.10	0.61	516.73	1
	4/29/1998	22.96	0.55	0.09	0.55	517.28	1
	6/3/1998	22.81	0.41	0.03	0.18	517.46	1
	7/9/1998	23.04	0.35	0.05	0.31	517.77	1
	8/4/1998	23.29	0.35	0.04	0.24	518.01	1
	8/26/1998	23.50	0.31	0.01	0.06	518.07	1
	11/2/1998	24.24	0.43	0.02	0.12	518.20	1
	12/4/1998	24.35	0.32	0.01	0.06	518.26	1
	1/5/1999	24.51	0.40	0.03	0.18	518.44	1
	2/8/1999	24.00	0.03	0.13	0.76	519.20	1
	3/24/1999	23.82	0.19	0.03	0.18	519.38	1
	4/30/1999	23.60	1.13	0.10	0.61	519.99	1
	7/1/1999	24.45	0.42	0.06	0.38	520.38	1
	7/27/1999	25.35	0.24	0.06	0.38	520.76	1
	8/19/1999	24.87	0.24	0.06	0.37	521.12	1
	9/21/1999	24.58	0.10	0.20	1.22	522.34	1
	10/20/1999	25.05	0.17	0.20	1.22	523.56	1
	12/13/1999	25.08	0.10	0.06	0.37	523.93	1
	2/9/2000	24.93	0.44	0.25	1.53	525.45	1
	2/15/2000	--	0.00	0.07	0.43	525.88	3
	2/25/2000	24.23	0.00	0.01	0.06	525.94	3
	3/3/2000	24.00	0.00	0.00	0.01	525.95	3
	3/28/2000	23.54	0.00	0.05	0.31	526.26	3
	5/2/2000	23.52	0.06	0.03	0.15	526.41	3
	5/31/2000	23.39	0.08	0.00	0.00	526.41	3
	7/3/2000	23.61	trace	0.02	0.12	526.53	3
	8/4/2000	23.80	0.10	0.01	0.06	526.59	3
	10/6/2000	24.22	0.04	0.01	0.06	526.65	
	11/3/2000	24.30	0.09	0.00	0.00	526.65	
	12/1/2000	24.38	0.07	0.03	0.18	526.83	2, 3
	1/4/2001	24.65	0.17	0.00	0.00	526.83	5
	2/2/2001	24.72	0.22	0.25	1.53	528.36	3
	4/3/2001	23.90	0.06	0.05	0.31	528.67	
	5/4/2001	23.95	0.07	0.05	0.31	528.97	

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

Well ID TOC Elev. (ft)	Sampling Date	Depth to Water (ft)	LPH Thickness (ft)	Hydrocarbons Removed (gallons)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)	Notes
MW-6	5/7/2001	--	--	0.08	0.48	529.45	
(cont'd)	6/11/2001	24.25	0.10	0.00	0.00	529.45	
	5/2/2002	23.25	0.01	0.00	0.02	529.47	2
	6/14/2002	23.17	0.07	0.01	0.04	529.51	1
	8/4/2002	23.55	0.03	0.01	0.06	529.57	1
	9/24/2002	23.98	0.02	0.007	0.04	529.61	1
	10/16/2002	24.20	0.09	0.005	0.03	529.65	1
	11/6/2002	25.78	0.07	0.005	0.03	529.68	1
	11/26/2002	24.22	0.03	0.009	0.06	529.74	1, 3
	12/9/2002	23.97	0.05	0.021	0.13	529.86	1, 3
	1/17/2003	21.30	0.06	0.013	0.08	529.94	1, 3
	1/27/2003	22.49	0.02	0.016	0.10	530.04	1, 3
	3/5/2003	24.35	0.06	0.013	0.08	530.12	1, 3
	4/11/2003	24.05	0.07	0.029	0.18	530.30	3
	5/13/2003	23.98	0.03	0.016	0.10	530.40	3
	5/28/2003	21.92	0.04	0.021	0.13	530.53	1, 3
	6/13/2003	21.98	0.06	0.020	0.12	530.65	1, 3
MW-9 90.37	8/8/1996	19.89	0.35	0.10	0.61	0.61	1
MW-14 94.66	12/4/1998	23.42	0.23	0.01	0.06	0.06	1
	1/5/1999	23.36	0.12	0.01	0.06	0.12	1
	2/8/1999	23.17	trace	0.01	0.06	0.18	1
	3/24/1999	22.08	trace	trace	0.00	0.18	1
	4/30/1999	21.17	0.01	trace	0.00	0.18	1
	7/1/1999	22.95	0.04	trace	0.00	0.18	1
	9/21/1999	24.26	trace	trace	0.00	0.18	1
	10/20/1999	24.10	0.00	0.00	0.00	0.18	1
	2/9/2000	24.13	0.00	0.00	0.00	0.18	1
	2/15/2000	--	0.00	0.00	0.00	0.18	1
	2/25/2000	--	0.00	0.00	0.00	0.18	2
	3/3/2000	23.27	0.00	0.05	0.31	0.49	2
	3/28/2000	22.40	0.00	0.13	0.76	1.25	2
	5/2/2000	22.22	0.00	0.04	0.24	1.49	2
	5/31/2000	22.09	0.00	0.00	0.00	1.49	2
	7/3/2000	22.35	trace	0.01	0.06	1.55	2
	8/4/2000	22.78	0.00	0.03	0.18	1.73	2
	10/6/2000	23.48	0.00	0.00	0.00	1.73	
	11/3/2000	23.60	0.00	0.00	0.00	1.73	
	12/1/2000	23.90	0.04	0.04	0.24	1.97	1, 2
	1/4/2001	24.10	0.00	0.00	0.00	1.97	
	2/2/2001	24.27	0.00	0.10	0.61	2.58	2
	4/3/2001	23.06	0.00	0.05	0.31	2.89	
	5/4/2001	23.05	0.00	0.00	0.00	2.89	

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Table 4. Liquid-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling	Depth to	LPH	Hydrocarbons	Hydrocarbons	Cumulative	Notes
TOC Elev.	Date	Water	Thickness	Removed	Removed	Hydrocarbons	
(ft)		(ft)	(ft)	(gallons)	(lbs)	Removed (lbs)	
MW-14	5/7/2001	23.45	0.02	0.01	0.05	2.93	2
(cont'd)	6/11/2001	23.40	0.00	0.00	0.00	2.93	
	5/2/2002	23.51	0.02	0.003	0.02	2.95	2
	6/14/2002	23.88	0.01	0.003	0.02	2.97	2
	8/4/2002	23.61	0.01	0.004	0.02	2.99	2
	9/24/2002	24.07	0.01	0.007	0.04	3.03	2
	10/16/2002	24.29	trace	0.007	0.04	3.07	2
	11/6/2002	25.85	0.00	0.00	0.00	3.07	2
	11/26/2002	24.35	trace	0.00	0.00	3.07	2
	12/9/2002	24.05	trace	0.00	0.00	3.07	2
	1/17/2003	22.09	0.00	0.00	0.00	3.07	2
	1/27/2003	22.60	0.00	0.00	0.00	3.07	2
	3/5/2003	23.63	0.00	0.13	0.79	3.86	1,2
	4/11/2003	23.63	0.02	0.003	0.02	3.88	1,2
	5/13/2003	23.11	0.03	0.003	0.02	3.90	1,2
	5/28/2003	21.95	0.04	0.007	0.04	3.94	1,2
	6/13/2003	22.05	0.03	0.004	0.02	3.96	1,2
Total SPH Removed (lbs):						931.44	

Abbreviations and Notes:

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

-- = Not measured or not applicable

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

1 = LPH removed by manual bailing

2 = LPH removed from well by absorbent sock

3 = LPH removed from well by passive skimmer

4 = vapor extraction system operating in well

5 = No product removed; skimmer adjusted incorrectly and filled with water.

Liquid-phase hydrocarbons (LPH) converted from volume to weight using the relation 1 gallon LPH = 6.1 pounds.

APPENDIX A

Well Sampling Protocol

ATTACHMENT 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
MW-6			(SVOCs, LUFT Metals also)
MW-14			
MW-15			
Down-Gradient/Cross-Gradient Wells			
MW-4	Quarterly	Quarterly	TPHd, TPHmo, TPHg, BTEX, MTBE, HVOCs, DO
MW-7			(SVOCs and LUFT Metals- 1 st qtr only)
MW-8			
MW-9			
MW-13			
1. Per the May 3, 1999, ACHCSA letter to Messrs. Hill and Linden, monitoring wells MW-2, MW-3, MW-5, MW-10, and MW-11 were dropped from the monitoring program. 2. To simplify the protocol, LUFT Metals will be analyzed annually (first quarter) for all sampled wells.			

APPENDIX B

Groundwater Monitoring Field Data

Groundwater Monitoring Field Sheet

Well ID	Time	DTP	DTW	Product Thickness	Amount of Product Removed	Casing Diam.	Comment
MW-1	9:55	21.75	21.77	0.02	30ml		
MW-4	9:45		15.25				
MW-6	10:00	21.88	21.92	0.04	80ml		60ml removed from skimmer 20ml hand bailed
MW-7	9:35		15.19				
MW-8	9:40		24.28				
MW-9	9:50		17.25				
MW-13	9:30		21.72				
MW-14	10:15	21.91	21.95	0.03	25ml		
MW-15	10:20	light sheen	21.68				removed sheen

Project Name: Connell

Project Number/Task: 425-1580/118

Measured By: S. Hill

Date: 5-28-07

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: MHF	Well ID: MW-4
Project Number: 425-1580	Date: 5-28-03	Well Yield:
Site Address: 3093 Broadway Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SG
Initial Depth to Water: 15.25	Total Well Depth: 24.00	Water Column Height: 8.75
Volume/ft: 0.16	1 Casing Volume: 1.40	3 Casing Volumes: 4.20
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 4
Start Purge Time: 13:25	Stop Purge Time: 13:39	Total Time: 14mins

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
13:30	1.5	19.1	7.10	914	
13:35	3	19.2	7.11	949	
13:40	4	19.3	7.13	962	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
			1 Amb	np	TPHd / TPHmo	
MW-4	5-28-03	13:45	400a	HCl	TPH, BTEX, ATBE, HVO's	

WELL SAMPLING FORM

Project Name: <u>Connell</u>	Cambria Mgr: <u>MHF</u>	Well ID: <u>MW-7</u>
Project Number: <u>425-1580</u>	Date: <u>5-28-03</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>15.19</u>	Total Well Depth: <u>30.00</u>	Water Column Height: <u>14.81</u>
Volume/ft: <u>0.16</u>	1 Casing Volume: <u>2.36</u>	3 Casing Volumes: <u>7.1</u>
Purging Device: <u>disposable bailer</u>	Did Well Dewater?: <u>no</u>	Total Gallons Purged: <u>7</u>
Start Purge Time: <u>11:40</u>	Stop Purge Time: <u>11:59</u>	Total Time: <u>14 mins</u>

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>11:45</u>	<u>2.5</u>	<u>19.3</u>	<u>7.10</u>	<u>1464</u>	
<u>11:50</u>	<u>5</u>	<u>19.3</u>	<u>7.14</u>	<u>1520</u>	
<u>11:55</u>	<u>7</u>	<u>19.3</u>	<u>7.13</u>	<u>1699</u>	

Fe = mg/L ORP = mV DO = 0.74 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<u>MW-7</u>	<u>5-28-03</u>	<u>12:00</u>	<u>1 Amb</u> <u>400a</u>	<u>NP</u> <u>HCl</u>	<u>TPHd / TPHmo</u> <u>TPH, BTEX, MTBE, HVO's</u>	

WELL SAMPLING FORM

Project Name: <u>Connell</u>	Cambria Mgr: <u>MHF</u>	Well ID: <u>MW-8</u>
Project Number: <u>425-1580</u>	Date: <u>5-28-03</u>	Well Yield:
Site Address: <u>3093 Broadway</u> <u>Oakland, Ca</u>	Sampling Method: <u>disposable bailer</u>	Well Diameter: <u>6" pvc</u>
		Technician(s): <u>SG</u>
Initial Depth to Water: <u>24.28</u>	Total Well Depth: <u>39.40</u>	Water Column Height: <u>15.12</u>
Volume/ft: <u>1.47</u>	1 Casing Volume: <u>27.22</u>	3 Casing Volumes: <u>66.67</u>
Purging Device: <u>whal pump</u>	Did Well Dewater?: <u>NO</u>	Total Gallons Purged: <u>67</u>
Start Purge Time: <u>12:15</u>	Stop Purge Time: <u>13:04</u>	Total Time: 12:04 <u>48mins</u>

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>12:25</u>	<u>22</u>	<u>19.3</u>	<u>7.32</u>	<u>611</u>	
<u>12:45</u>	<u>44</u>	<u>19.1</u>	<u>7.29</u>	<u>690</u>	
<u>13:05</u>	<u>66</u>	<u>19.2</u>	<u>7.25</u>	<u>645</u>	

Fe = mg/L ORP = mV DO = 0.71 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<u>MW-8</u>	<u>5-28-03</u>	<u>13:10</u>	<u>1 Amb</u> <u>400a</u>	<u>np</u> <u>HCl</u>	<u>TPHd / TPHmo</u> <u>TPH_g BTEX MTBE HVOC's</u>	

WELL SAMPLING FORM

Project Name: <u>Connell</u>	Cambria Mgr: <u>MHF</u>	Well ID: <u>MW-9</u>
Project Number: <u>425-1580</u>	Date: <u>5-28-03</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>17.25</u>	Total Well Depth: <u>30.50</u>	Water Column Height: <u>13.25</u>
Volume/ft: <u>0.16</u>	1 Casing Volume: <u>2.12</u>	3 Casing Volumes: <u>6.36</u>
Purging Device: <u>disposable bailer</u>	Did Well Dewater?: <u>no</u>	Total Gallons Purged: <u>6</u>
Start Purge Time: <u>14:00</u>	Stop Purge Time: <u>14:14</u>	Total Time: <u>14 mins</u>

: 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>14:05</u>	<u>2</u>	<u>19.4</u>	<u>7.13</u>	<u>920</u>	
<u>14:10</u>	<u>4</u>	<u>19.2</u>	<u>7.18</u>	<u>997</u>	
<u>14:15</u>	<u>6</u>	<u>19.1</u>	<u>7.15</u>	<u>981</u>	

Fe = mg/L ORP = mV DO = 0.60 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
			<u>1 Amb</u>	<u>np</u>	<u>TPHd / TPHmo</u>	
<u>MW-9</u>	<u>5-28-03</u>	<u>14:20</u>	<u>400a</u>	<u>HCl</u>	<u>TPH, BTEX, MTBE, HVO's</u>	

WELL SAMPLING FORM

Project Name: <u>Connell</u>	Cambria Mgr: <u>MHF</u>	Well ID: <u>MW-13</u>
Project Number: <u>425-1580</u>	Date: <u>5-28-03</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>21.72</u>	Total Well Depth: <u>39.45</u>	Water Column Height: <u>17.73</u>
Volume/ft: <u>0.16</u>	1 Casing Volume: <u>2.83</u>	3 Casing Volumes: <u>8.51</u>
Purging Device: <u>disposable bailer</u>	Did Well Dewater?: <u>no</u>	Total Gallons Purged: <u>8</u>
Start Purge Time: <u>10:55</u>	Stop Purge Time: <u>11:09</u>	Total Time: <u>14 mins</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>11:00</u>	<u>3</u>	<u>19.3</u>	<u>7.29</u>	<u>1049</u>	
<u>11:05</u>	<u>6</u>	<u>19.5</u>	<u>7.31</u>	<u>970</u>	
<u>11:10</u>	<u>8</u>	<u>19.5</u>	<u>7.33</u>	<u>922</u>	

Fe = mg/L ORP = mV DO = 0.75 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
			<u>1 Amb</u>	<u>np</u>	<u>TPHd / TPHmo</u>	
<u>MW-13</u>	<u>5-28-03</u>	<u>11:15</u>	<u>400a</u>	<u>HCl</u>	<u>TPH, BTEX MTBE HVOCs</u>	

APPENDIX C

Laboratory Analytical Report



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #425-1580-118; Connell	Date Sampled: 05/28/03
		Date Received: 05/30/03
	Client Contact: Mary C. Holland-Ford	Date Reported: 06/06/03
	Client P.O.:	Date Completed: 06/06/03

WorkOrder: 0305509

June 06, 2003

Dear Mary:

Enclosed are:

- 1). the results of 5 analyzed samples from your #425-1580-118; 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



Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #425-1580-118; Connell	Date Sampled: 05/28/03
		Date Received: 05/30/03
	Client Contact: Mary C. Holland-Ford	Date Extracted: 06/07/03-06/09/03
	Client P.O.:	Date Analyzed: 06/07/03-06/09/03

Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8021B

Work Order: 0305509

Lab ID	0305509-001C	0305509-002C	0305509-003C	0305509-004C	Reporting Limit for DF=1	
Client ID	MW-4	MW-7	MW-8	MW-9	S	W
Matrix	W	W	W	W		
DF	50	1	2	10		
Compound	Concentration				µg/kg	µg/L
Bromodichloromethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Bromoform	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Bromomethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Carbon Tetrachloride	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Chlorobenzene	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Chloroethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
2-Chloroethyl vinyl ether	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Chloroform	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Chloromethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Dibromochloromethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
1,2-Dichlorobenzene	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
1,3-Dichlorobenzene	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
1,4-Dichlorobenzene	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Dichlorodifluoromethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
1,1-Dichloroethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
1,2-Dichloroethane	50	ND	34	200	NA	0.5
1,1-Dichloroethene	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
cis-1,2-Dichloroethene	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
trans-1,2-Dichloroethene	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
1,2-Dichloropropane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
cis-1,3-Dichloropropene	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
trans-1,3-Dichloropropene	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Methylene chloride	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
1,1,2,2-Tetrachloroethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Tetrachloroethene	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
1,1,1-Trichloroethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
1,1,2-Trichloroethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Trichloroethene	ND<25	ND<1.0	ND<2.5	ND<5.5	NA	0.5
Trichlorofluoromethane	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Vinyl Chloride	ND<25	ND	ND<1.0	ND<5.0	NA	0.5
Surrogate Recoveries (%)						
%SS:	99.5	98.4	94.8	94.1		
Comments	h					

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #425-1580-118; Connell	Date Sampled: 05/28/03
		Date Received: 05/30/03
	Client Contact: Mary C. Holland-Ford	Date Extracted: 06/07/03-06/09/03
	Client P.O.:	Date Analyzed: 06/07/03-06/09/03

Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8021B

Work Order: 0305509

Lab ID	0305509-005C	Reporting Limit for DF=1	
Client ID	MW-13	S	W
Matrix	W		
DF	1		
Compound	Concentration		
		µg/kg	µg/L
Bromodichloromethane	ND	NA	0.5
Bromoform	ND	NA	0.5
Bromomethane	ND	NA	0.5
Carbon Tetrachloride	ND	NA	0.5
Chlorobenzene	ND	NA	0.5
Chloroethane	ND	NA	0.5
2-Chloroethyl vinyl ether	ND	NA	0.5
Chloroform	ND	NA	0.5
Chloromethane	ND	NA	0.5
Dibromochloromethane	ND	NA	0.5
1,2-Dichlorobenzene	ND	NA	0.5
1,3-Dichlorobenzene	ND	NA	0.5
1,4-Dichlorobenzene	ND	NA	0.5
Dichlorodifluoromethane	ND	NA	0.5
1,1-Dichloroethane	ND	NA	0.5
1,2-Dichloroethane	ND	NA	0.5
1,1-Dichloroethene	ND	NA	0.5
cis-1,2-Dichloroethene	ND	NA	0.5
trans-1,2-Dichloroethene	ND	NA	0.5
1,2-Dichloropropane	ND	NA	0.5
cis-1,3-Dichloropropene	ND	NA	0.5
trans-1,3-Dichloropropene	ND	NA	0.5
Methylene chloride	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND	NA	0.5
Tetrachloroethene	ND	NA	0.5
1,1,1-Trichloroethane	ND	NA	0.5
1,1,2-Trichloroethane	ND	NA	0.5
Trichloroethene	ND<1.0	NA	0.5
Trichlorofluoromethane	ND	NA	0.5
Vinyl Chloride	ND	NA	0.5

Surrogate Recoveries (%)

%SS:	104		
Comments			

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0305509

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 7134			Spiked Sample ID: 0305509-005A			
Compound	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	97.8	97.4	0.420	97.9	97.5	0.396	70	130
MTBE	ND	10	97	97.4	0.426	96.1	98.4	2.37	70	130
Benzene	ND	10	92.9	94.2	1.38	92.6	93.3	0.781	70	130
Toluene	ND	10	97.3	98.9	1.64	96.8	98.3	1.53	70	130
Ethylbenzene	ND	10	98.9	100	1.11	99.2	99.3	0.0948	70	130
Xylenes	ND	30	103	107	3.17	107	103	3.17	70	130
%SS:	101	100	100	100	0	98.3	99.1	0.824	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 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.



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QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0305509

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 7094			Spiked Sample ID: N/A		
Compound	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	99.7	99.6	0.115	70	130
%SS:	N/A	100	N/A	N/A	N/A	101	101	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.



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QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0305509

EPA Method: SW8021B		Extraction: SW5030B		BatchID: 7135		Spiked Sample ID: 0305509-005C				
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Chlorobenzene	ND	10	99.4	98.8	0.605	92	92.5	0.527	70	130
1,1-Dichloroethene	ND	10	99.8	98.1	1.72	111	121	8.42	70	130
Trichloroethene	ND<1.0	10	88.5	79.4	9.64	88.3	93.4	5.62	70	130
%SS:	104	100	98.2	98.9	0.710	95.9	94.2	1.80	70	130
<p>All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE</p>										

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.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

McC Campbell Analytical Inc.



110 Second Avenue South, #D7
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 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0305509

Client:

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

TEL: (510) 450-1983
 FAX: (510) 450-8295
 ProjectNo: #425-1580-118; Connell
 PO:

Date Received: 5/30/03

Date Printed: 5/30/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests			
					<	SW8015C	SW8021B	N8021B/8015C
0305509-001	MW-4	Water	5/28/03 1:45:00 PM	<input type="checkbox"/>	A	B	C	A
0305509-002	MW-7	Water	5/28/03 12:00:00 PM	<input type="checkbox"/>		B	C	A
0305509-003	MW-8	Water	5/28/03 1:10:00 PM	<input type="checkbox"/>		B	C	A
0305509-004	MW-9	Water	5/28/03 2:30:00 PM	<input type="checkbox"/>		B	C	A
0305509-005	MW-13	Water	5/28/03 11:15:00 AM	<input type="checkbox"/>		B	C	A

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.

APPENDIX D

Geotracker Electronic Delivery Confirmations

AB2886 Electronic Delivery

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UPLOADING A GEO_WELL FILE

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

Submittal Title: Connell 2QM03 geo_well
Submittal Date/Time: 7/3/2003 12:17:05 PM
Confirmation Number: 7942188858

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(AUTH_RP)

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AB2886 Electronic Delivery

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Your EDF file has been successfully uploaded!

Confirmation Number: 9757978379

Date/Time of Submittal: 7/3/2003 12:19:25 PM

Facility Global ID: T0600100406

Facility Name: CONNELL OLDSMOBILE

Submittal Title: Connell 2QM03

Submittal Type: GW Monitoring Report

Logged in as CAMBRIA-EM
(AUTH_RP)

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UPLOADING A GEO_MAP FILE

YOUR IMAGE UPLOAD WAS SUCCESSFUL!

Facility Name: CONNELL OLDSMOBILE
Global ID: T0600100406
Submittal Type: GEO_MAP
Submittal Date/Time: 7/8/2003 2:53:31 PM
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