

February 28, 2003

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

Re: **Fourth Quarter 2002 Monitoring Report**
Connell Automobile Dealership
3093 Broadway
Oakland, California
Site ID #469

Alameda County
MAR 19 2003
Environmental Health



Dear Mr. Seery:

On behalf of Messrs. George Hill and Gordon Linden, and as required by the Alameda County Health Care Services Agency (ACHCSA), Cambria Environmental Technology, Inc. (Cambria) has prepared this quarterly monitoring report for the above-referenced site. This report satisfies the quarterly reporting requirements prescribed by Title 23 of the California Code of Regulations Article 3 Section 2652(d). The site background, fourth quarter 2002 activities and results, and anticipated first quarter 2003 activities are presented below.

SITE BACKGROUND

Three underground storage tanks (USTs) which previously contained gasoline, diesel, and waste oil were removed from the site in December 1989. Soil and groundwater assessment has been ongoing since 1990. Between October 1996 and March 1998, operation of a soil vapor extraction (SVE) remediation system removed approximately 1,421 pounds of hydrocarbons. Manual removal of separate phase hydrocarbons (SPH) from monitoring wells has been conducted at the site since 1991.

FOURTH QUARTER 2002 ACTIVITIES AND RESULTS

Groundwater Monitoring: Cambria performed quarterly sampling activities in accordance with the sampling protocol described in Cambria's May 8, 2000 *Workplan Addendum* (Attachment A). On November 26, 2002, Cambria gauged monitoring wells MW-1, MW-4, MW-6 through MW-9, and MW-13 through MW-15, and inspected the wells for SPH. Groundwater samples were collected from wells MW-4, MW-7, MW-8, MW-9, and MW-13 and analyzed by McCampbell Analytical, a California Department of Health Services certified analytical

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laboratory. The samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPHg), TPH as diesel (TPHd), TPH as motor oil (TPHmo), benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ether (MTBE), and EPA List 8010 halogenated volatile organic compounds (HVOCs). The groundwater depths and laboratory analytical results are presented in Tables 1 and 2. Historic dissolved metals and semi-volatile organic compounds (SVOCS) data is presented in Table 3. SPH thickness and volume removed are presented in Table 4. The analytical laboratory report is included as Attachment B. Field data sheets are included as Attachment C. Groundwater depth measurements and analytical data were submitted to the State's Geotracker database. See Appendix D for electronic delivery confirmations.

Groundwater Flow Direction: Based on the November 26, 2002 depth-to-water measurements, groundwater flowed to the east with a gradient of 0.051 ft/ft. This gradient is consistent with historical trends. The groundwater elevation contours and the groundwater flow direction are shown on Figure 1.

Contaminant Distribution in Groundwater: In general, monitoring results were consistent with past results for this site. The primary contaminants of concern are benzene, 1,2 dichloroethane (1,2-DCA), naphthalene, lead and nickel. SPH were detected in four wells MW-1 (0.05 feet), MW-6 (0.03 feet), MW-14 (sheen), and MW-15 (sheen) (Figure 1). TPHg and benzene were detected in wells MW-4, MW-8 and MW-9, and TPHd was detected in the wells MW-4, MW-9, and MW-13. The maximum concentrations were detected in well MW-4 of 7,100 micrograms per liter ($\mu\text{g/L}$) TPHd, 110,000 $\mu\text{g/L}$ TPHg, and 16,000 $\mu\text{g/L}$ benzene. Concentrations of 1,2-DCA was detected in wells MW-4, MW-8, and MW-9, with a maximum detection of 250 $\mu\text{g/L}$, in well MW-9 (see Tables 1 and 2).

Separate-Phase Hydrocarbon Removal: Cambria conducted SPH removal activities on September 24, October 16, November 6, November 26, and December 9, 2002. During these site visits Cambria removed a total of 0.076 gallons (0.46 pounds) of SPH from wells MW-1, MW-6 and MW-14. Approximately 152.12 gallons (927.94 pounds) of SPH have been removed since hydrocarbon removal was initiated 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 mass of SPH removed from each well.

ANTICIPATED FIRST QUARTER 2003 ACTIVITIES

Groundwater Monitoring and Reporting: In accordance with the approved well sampling protocol, Cambria will gauge site wells MW-1, MW-4, MW-6, MW-7, MW-8, MW-9, MW-13, MW-14, and MW-15, and collect groundwater samples from wells MW-4, MW-7, MW-8, MW-9, and MW-13. Cambria will analyze groundwater samples for TPHd, TPHmo, TPHg, BTEX, MTBE, and EPA List 8010 HVOCs. During the quarter monitoring event, Cambria will also collect groundwater samples from source area wells MW-1, MW-6, MW-14 and MW-16 (if SPH is not present). Samples from *all* wells will be analyzed for SVOCs and LUFT metals in addition to the other standard hydrocarbon analytes. Cambria will also measure dissolved oxygen in all wells without SPH. Cambria will prepare a quarterly monitoring report that will include tabulated groundwater monitoring and analytical data and a potentiometric surface map.

Separate-Phase Hydrocarbon Removal: Cambria will continue to conduct monthly SPH recovery activities. The depth of the SPH recovery devices in MW-1, MW-6, and MW-14 will be adjusted, as necessary. Collected SPH will be transferred to labeled, DOT-approved steel drums pending disposal or recycling.

Interim Remediation: As requested by ACHCSA in a letter dated September 23, 2002, Cambria is preparing an *Interim Remediation Workplan*. This workplan has been pre-approved by the Fund, and will be submitted separately.

CLOSING

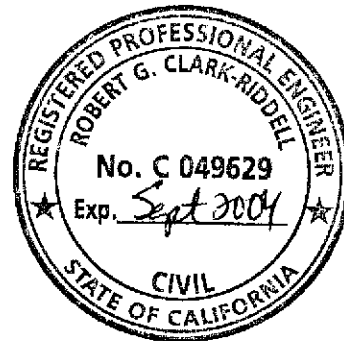
If you have any questions or comments concerning this report, please call Mary Holland-Ford at (510) 420-3307.

Sincerely,
Cambria Environmental Technology, Inc.



Mary Holland-Ford
Project Geologist

Bob Clark-Riddell, P.E.
Principal Engineer



- Figures: 1 - Groundwater Elevation Contour Map
- Tables: 1 - Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
2 - Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs
3 - LUFT Metals in Groundwater
4 - Liquid Phase Hydrocarbon Removal
- Attachments: A - Well Sampling Protocol
B - Analytical Laboratory Report
C - Field Data Sheets
D - Electronic Delivery Confirmations

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

C A M B R I A



FIGURE

HSB-2009COWELL\FIGURES\MO-0209.DWG

Basemap from Subsurface Consultants, Inc.

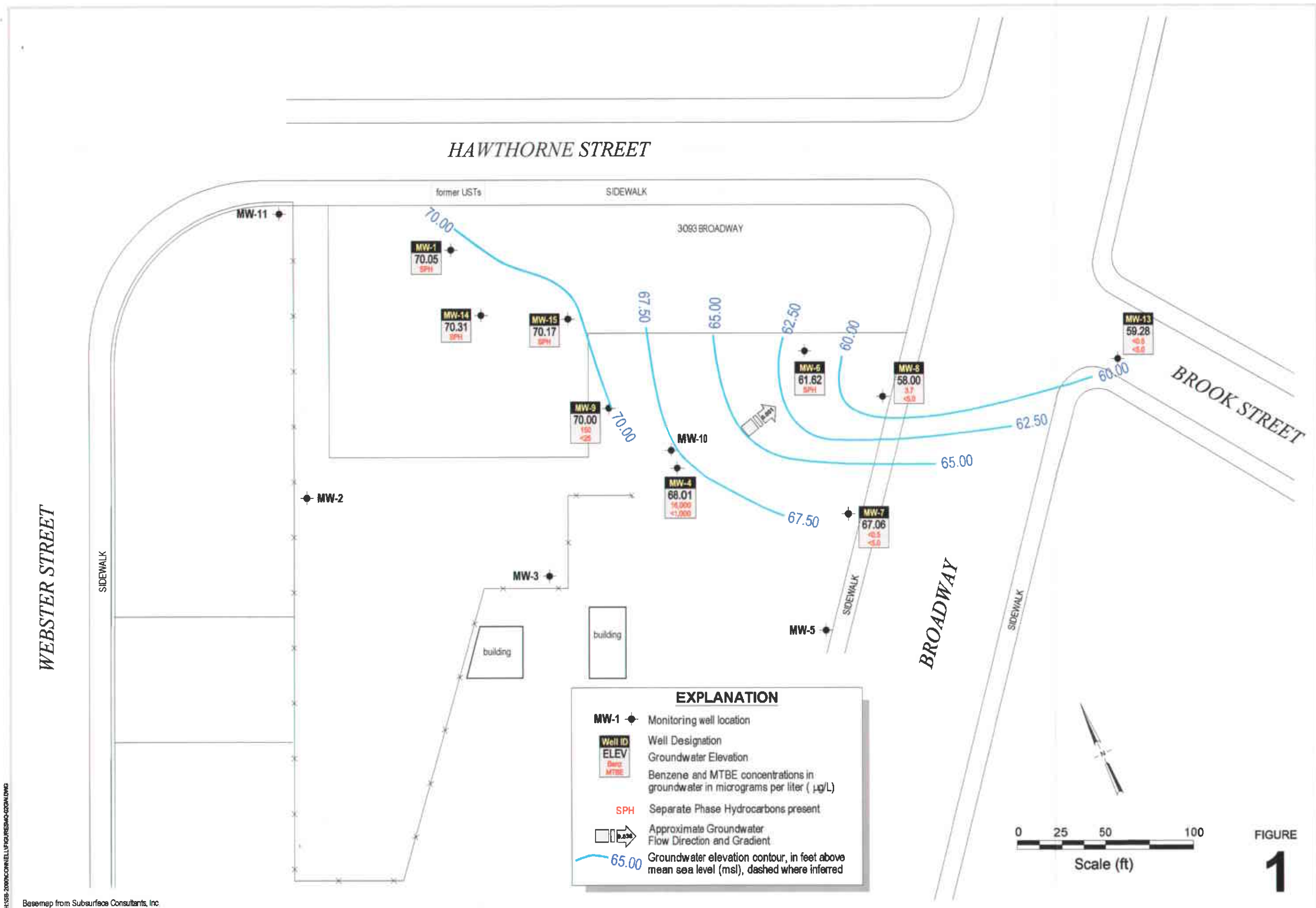
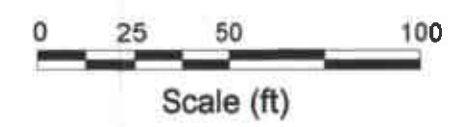


FIGURE 1



C A M B R I A



TABLES

CAMBRIA

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)	←----- μg/l -----→								
				TVH	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
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)	--	--	--	--	--	--	--
	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)	--	--	--	--	--	--	--

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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)	←----- μg/l -----→								
				TVH	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
MW-4	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	ND
(cont'd)	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	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	<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
	2/13/2002	18.59	70.25	--	180,000	6,100	11,000	1,400	13,000	<200	55	2-MNE: 620, NE: 1000
	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
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	--	--	--	--	--	--	--	--

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Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	←----- µg/l -----→									
				TVH	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs	
MW-6	11/9/1993	27.51	58.11	SPH	--	--	--	--	--	--	--	--	--
(cont'd)	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	--	--
	11/5/1997	26.16	60.78	160,000	--	13,000	19,000	1,900	14,300	<200	790	--	--
85.82	5/1/1998	22.96	62.86	130,000	--	15,000	23,000	1,700	13,200	<500	1,100	--	ND
	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)	--	--	--	--	--	--	--	--
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	--	--
	12/1/1995	19.47	65.94	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--	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	Benzene	Toluene	Ethyl- benzene μg/l	Xylenes	MTBE	1,2-DCA	Other HVOCs →
MW-7	5/2/1996	17.15	68.26	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
85.41	8/8/1996	18.48	66.93	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
(cont'd)	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
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

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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	Benzene	Toluene	Ethyl- benzene μg/l	Xylenes	MTBE	1,2-DCA	Other HVOCs →
MW-8	8/30/1995	26.35	59.15	660	--	360	6.8	13	2.8	--	130	--
85.50	12/4/1995	26.72	58.78	250	--	46	0.9	4.9	<0.5	--	94	ND
(cont'd)	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
	3/1/2001	26.41	59.09	--	400	140	<0.5	<0.5	0.55	<5.0	16	ND
	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

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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)	←----- μg/l -----→								
				TVH	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
MW-9	11/24/1992	23.51	66.86	19,000	--	180	590	23	2000	--	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 ¹	5.7 ⁴	550	ND
	7/1/1999	19.95	70.42	540	--	100	7.4	26	16.9	<1.3	400	⁵
	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

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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)	←----- μg/l -----→								
				TVH	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
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	1100	5,300	<250	120	ND
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

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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)	←-----µg/l-----→								
				TVH	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
MW-13	8/8/1996	23.44	60.62	<50	--	32	<0.5	<0.5	<0.5	<2	6.4	ND
84.06	11/5/1996	24.04	60.02	<50	--	<1	<1	<1	<1	--	5.7	ND
(cont'd)	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	--
	2/9/1998	22.89	61.17	<50	--	<0.5	<0.5	<0.5	<0.5	<2	2.9	--
	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	60.13	--	<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	59.87	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	11/26/2002	24.78	59.28	--	<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	Benzene	Toluene	Ethyl- benzene μg/l	Xylenes	MTBE	1,2-DCA	Other HVOCs →
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	--	--	--	--	--	--	--
	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)	--	--	--	--	--	--	--
	11/26/2002	24.35	70.31	--	SPH (sheen)	--	--	--	--	--	--	--
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)	--	--	--	--	--	--	--
	11/26/2002	24.59	70.17	--	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	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
<i>(ft)</i>		<i>(ft)</i>	<i>(ft)</i>	←----- μg/l -----→								
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 (thickness, in feet)

<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	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene µg/l	Other SVOCs
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)	--	--	--	--	

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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 ←	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene µg/l	→ Other SVOCs
MW-2 94.81	3/1/1991	27.86	66.95	<50	--	--	--	--	--
	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 90.08	3/1/1991	23.17	66.91	<50	--	--	--	--	--
	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 88.84	3/1/1991	23.79	65.05	<500	--	--	--	--	--
	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	--	--	--	--	--	

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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)	←			2-Methyl naphthalene		Naphthalene µg/l	→	
				TEH	TPHd	TPHmo				Other SVOCs	
MW-4	11/5/1997	20.19	68.65	3,700	--	--	--	--	--	--	--
88.84	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	-18.60	--	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	--	--	--	--	--
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 ←	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene µg/l	Other SVOCs →
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	--	--	--	--	--
	5/3/1996	26.83	58.79	9,000	--	--	--	--	--
86.94	5/9/1997	26.54	60.40	53,000	--	--	--	--	--
	11/5/1997	26.16	60.78	65,000	--	--	--	--	--
85.82	5/1/1998	22.96	62.86	25,000	--	--	--	--	--
	11/3/1998	24.35	61.47	30,000	--	--	--	--	--
MW-6	3/26/1999	23.82	62.00	SPH	--	--	--	--	--
85.82	7/1/1999	24.45	61.37	SPH	--	--	--	--	--
(cont'd)	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	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)	--	--	--	--
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	--	--	--	--	--

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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 ←	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene µg/l	→ Other SVOCs
MW-7	12/1/1995	19.47	65.94	<50	--	--	--	--	--
85.41	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	--	--	--
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	--	--	--	--	--

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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	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene µg/l	Other SVOCs
MW-8	8/8/1996	26.41	59.09	250	--	--	--	--	--
85.50	11/5/1996	26.77	58.73	<50	--	--	--	--	--
(cont'd)	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	--	--	--
	11/26/2002	27.50	58.00	--	<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	--	--	--	--	--

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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	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene	Other SVOCs
TOC Elev. (ft)				←				μg/l	→
MW-9	8/8/1997	20.84	69.53	480	--	--	--	--	--
90.37	11/5/1997	21.55	68.82	370	--	--	--	--	--
(cont'd)	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	--	--	--
	8/4/2002	20.20	70.17	--	300	<250	--	--	--
	11/26/2002	20.37	70.00	--	270	<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 ←	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene µg/l	Other SVOCs →
MW-11	7/21/1993	31.90	70.16	150	--	--	--	--	--
102.06	11/9/1993	32.60	69.46	60	--	--	--	--	--
(cont'd)	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	--	--	--	--	--
	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	--	--	--	--	--
	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

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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	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene µg/l	Other SVOCs
MW-13	5/31/2000	22.97	61.09	--	<50	<500	--	--	--
84.06	11/14/2000	24.00	60.06	--	65	<250	--	--	--
(cont'd)	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	--	--	--
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)	--	--	--	--
	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)	--	--	--	--

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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	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene $\mu\text{g/l}$	Other SVOCs
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	Benzoic Acid: 74; m &/or p-Creosol: 68
	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)	--	--	--	--

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

$\mu\text{g/l}$ = micrograms per liter = parts per billion = ppb

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

< n = Not detected above n $\mu\text{g/l}$

-- = 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	7/1/1999	<5	<10	59	<20	<20	<20	
	9/21/1999	<5	<10	66	<20	33	33	
	2/9/2000	<5	17	68	<50	<50	<50	
MW-7	7/1/1999	<5	<10	<3	<20	<20	<20	
	9/21/1999	<5	<10	<3	<20	<20	<20	
	2/9/2000	<5	14	8.6	59	<50	<50	
MW-8	7/1/1999	<5	<10	<3	<20	<20	<20	
	9/21/1999	<5	<10	<3	<20	<20	<20	
	2/9/2000	<5	<5	<5	<50	<50	<50	
MW-9	7/1/1999	<5	<10	<3	34	<20	<20	
	9/21/1999	<5	<10	<3	25	37	37	
	2/9/2000	<5	82	29	160	130	130	
	3/1/2001	<5	47	<5	72	<50	<50	
	5/7/2001	<5	49	<5	<50	<50	<50	
	8/1/2001	<5	<20	<5	<50	<50	<50	
	2/13/2002	<5	--	<5	<50	<50	<50	
MW-13	7/1/1999	<5	<10	<3	<20	<20	<20	
	9/21/1999	<5	<10	<3	<20	<20	<20	
	2/9/2000	<5	12	15	<50	<50	<50	
MW-14	2/9/2000	<5	210	24	2,500	280	280	
MW-15	2/9/2000	<5	140	1,800	220	150	150	
	2/13/2002	<5	--	<5	<50	<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
MW-1	1/5/1999	23.51	0.42	0.03	0.18	82.41	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
<i>(cont'd)</i>	2/8/1999	23.08	0.05	0.25	1.53	83.94	1
	3/24/1999	21.90	0.01	0.01	0.06	84.00	1
	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	0.007	0.04	101.43	2	
10/16/2002	25.08	0.09	0.011	0.06	101.49	2	
11/6/2002	25.71	0.08	0.005	0.03	101.52	2	
11/26/2002	24.47	0.05	0.003	0.02	101.54	2	
12/9/2002	24.08	0.07	0.009	0.06	101.60	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
	3/13/1992	21.56	0.49	3.50	21.35	149.45	1
	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

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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
<i>TOC Elev.</i>	<i>Date</i>	<i>Water</i>	<i>Thickness</i>	<i>Removed</i>	<i>Removed</i>	<i>Hydrocarbons</i>	
<i>(ft)</i>		<i>(ft)</i>	<i>(ft)</i>	<i>(gallons)</i>	<i>(lbs)</i>	<i>Removed (lbs)</i>	
MW-4	3/23/1992	21.29	0.42	4.00	24.40	211.98	1
<i>(cont'd)</i>	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
	2/15/2000	--	0.00	0.00	0.00	292.92	2
	2/25/2000	19.30	0.00	0.00	0.00	292.92	2

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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	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	
2/2/1996	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	

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

Well ID	Sampling TOC Elev.	Depth to Water	LPH Thickness	Hydrocarbons Removed	Hydrocarbons Removed	Cumulative Hydrocarbons Removed (lbs)	Notes
(ft)	Date	(ft)	(ft)	(gallons)	(lbs)		
MW-6	3/5/1997	24.20	0.00	NM	NM	NM	4
(cont'd)	4/1/1997	24.04	0.00	NM	NM	NM	4
85.82	5/8/1997	26.54	1.88	0.40	2.44	511.24	1
	6/6/1997	25.33	0.21	0.03	0.18	511.42	1
	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
85.82	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

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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	1/4/2001	24.65	0.17	0.00	0.00	526.83	5
(cont'd)	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	
	5/7/2001	--	--	0.08	0.48	529.45	
	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	0.13	0.005	0.03	529.68	1
	11/26/2002	24.22	0.03	0.003	0.02	529.70	1, 3
	12/9/2002	23.97	0.05	0.021	0.13	529.82	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
94.66	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	
	5/7/2001	23.45	0.02	0.01	0.05	2.93	2
	6/11/2001	23.40	0.00	0.00	0.00	2.93	

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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-14	5/2/2002	23.51	0.02	0.003	0.02	2.95	2
(cont'd)	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	0.00	0.00	2.99	2
	10/16/2002	24.29	0.01	0.00	0.00	2.99	2
	11/6/2002	25.85	0.00	0.00	0.00	2.99	2
	11/26/2002	24.35	trace	0.00	0.00	2.99	2
	12/9/2002	24.05	trace	0.00	0.00	2.99	2
MW-15	9/20/1999	24.12	trace	trace	0.00	0.00	1
94.76	10/20/1999	24.40	0.00	0.00	0.00	0.00	1
	12/13/1999	24.61	0.00	0.00	0.00	0.00	1

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.

C A M B R I A



ATTACHMENT 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 (SVOCs, LUFT Metals also)
MW-6			
MW-14			
MW-15			
Down-Gradient/Cross-Gradient Wells			
MW-4	Quarterly	Quarterly	TPHd, TPHmo, TPHg, BTEX, MTBE, HVOCs, DO (SVOCs 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 Linden, 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>			

C A M B R I A



ATTACHMENT B

Analytical Laboratory Report



McC Campbell Analytical Inc.

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Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #450-1580-110; Connell	Date Sampled: 11/26/02
		Date Received: 11/27/02
	Client Contact: Mary Holland Ford	Date Reported: 12/05/02
	Client P.O.:	Date Completed: 12/05/02

WorkOrder: 0211484

December 05, 2002

Dear Mary:

Enclosed are:

- 1). the results of 5 analyzed samples from your #450-1580-110; 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



McC Campbell Analytical Inc.

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Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #450-1580-110; Connell	Date Sampled: 11/26/02
		Date Received: 11/27/02
	Client Contact: Mary Holland Ford	Date Extracted: 12/03/02-12/04/02
	Client P.O.:	Date Analyzed: 12/03/02-12/04/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0211484

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-4	W	110,000,a	ND<1000	16,000	26,000	2700	12,000	200	---#
002A	MW-7	W	ND	ND	ND	ND	ND	ND	1	111
003A	MW-8	W	85,a	ND	3.7	ND	ND	ND	1	113
004A	MW-9	W	1200,a	ND<25	150	3.3	48	ND<2.5	5	102
005A	MW-13	W	ND	ND	ND	ND	ND	ND	1	91.7

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

*water and vapor samples are reported in µg/L, soil and sludge samples in mg/kg, wipe samples in µg/wipe, and TCLP extracts in µg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



McC Campbell Analytical Inc.

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Cambria Env. Technology
6262 Hollis St.
Emeryville, CA 94608

Client Project ID: #450-1580-110; Connell
Client Contact: Mary Holland Ford
Client P.O.:

Date Sampled: 11/26/02
Date Received: 11/27/02
Date Extracted: 11/27/02
Date Analyzed: 11/27/02-12/06/02

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0211484

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0211484-001B	MW-4	W	7100,d	ND	1	104
0211484-002B	MW-7	W	ND	ND	1	101
0211484-003B	MW-8	W	ND	ND	1	102
0211484-004B	MW-9	W	270,d	ND	1	101
0211484-005B	MW-13	W	66,b	ND	1	105
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	250	µg/L	
		S	NA	NA	mg/Kg	

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent / mineral spirit.



Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #450-1580-110; Connell	Date Sampled: 11/26/02
		Date Received: 11/27/02
	Client Contact: Mary Holland Ford	Date Extracted: 12/02/02-12/03/02
	Client P.O.:	Date Analyzed: 12/02/02-12/03/02

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

Extraction Method: SW5030B

Analytical Method: SW8021B

Work Order: 0211484

Lab ID	0211484-001C	0211484-002C	0211484-003C	0211484-004C	Reporting Limit for DF = 1	
Client ID	MW-4	MW-7	MW-8	MW-9		
Matrix	W	W	W	W		
DF	50	1	5	20	S	W
Compound	Concentration				µg/kg	µg/L
Bromodichloromethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
Bromoform	ND<25	ND	ND<2.5	ND<10	NA	0.5
Bromomethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
Carbon Tetrachloride	ND<25	ND	ND<2.5	ND<10	NA	0.5
Chlorobenzene	ND<25	ND	ND<2.5	ND<10	NA	0.5
Chloroethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
2-Chloroethyl vinyl ether	ND<25	ND	ND<2.5	ND<10	NA	0.5
Chloroform	ND<25	ND	ND<2.5	ND<10	NA	0.5
Chloromethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
Dibromochloromethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
1,2-Dichlorobenzene	ND<25	ND	ND<2.5	ND<10	NA	0.5
1,3-Dichlorobenzene	ND<25	ND	ND<2.5	ND<10	NA	0.5
1,4-Dichlorobenzene	ND<25	ND	ND<2.5	ND<10	NA	0.5
Dichlorodifluoromethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
1,1-Dichloroethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
1,2-Dichloroethane	56	ND	45	250	NA	0.5
1,1-Dichloroethene	ND<25	ND	ND<2.5	ND<10	NA	0.5
cis-1,2-Dichloroethene	ND<25	ND	ND<2.5	ND<10	NA	0.5
trans-1,2-Dichloroethene	ND<25	ND	ND<2.5	ND<10	NA	0.5
1,2-Dichloropropane	ND<25	ND	ND<2.5	ND<10	NA	0.5
cis-1,3-Dichloropropene	ND<25	ND	ND<2.5	ND<10	NA	0.5
trans-1,3-Dichloropropene	ND<25	ND	ND<2.5	ND<10	NA	0.5
Methylene chloride	ND<25	ND	ND<2.5	ND<10	NA	0.5
1,1,2,2-Tetrachloroethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
Tetrachloroethene	ND<25	ND	ND<2.5	ND<10	NA	0.5
1,1,1-Trichloroethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
1,1,2-Trichloroethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
Trichloroethene	ND<25	ND	ND<2.5	ND<10	NA	0.5
Trichlorofluoromethane	ND<25	ND	ND<2.5	ND<10	NA	0.5
Vinyl Chloride	ND<25	ND	ND<2.5	ND<10	NA	0.5

Surrogate Recoveries (%)

%SS:	104	105	106	102	
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.



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Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #450-1580-110; Connell	Date Sampled: 11/26/02
		Date Received: 11/27/02
	Client Contact: Mary Holland Ford	Date Extracted: 12/02/02-12/03/02
	Client P.O.:	Date Analyzed: 12/02/02-12/03/02

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

Extraction Method: SW5030B

Analytical Method: SW8021B

Work Order: 0211484

Lab ID	0211484-005C	Reporting Limit for DF = 1	
Client ID	MW-13	S	W
Matrix	W		
DF	I	Concentration	
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	NA	0.5
Trichlorofluoromethane	ND	NA	0.5
Vinyl Chloride	ND	NA	0.5
Surrogate Recoveries (%)			
%SS:	105		
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: 0211484

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 5084		Spiked Sample ID: 0211472-018A				
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(gas)	ND	60	103	106	3.02	103	106	3.09	80	120
MTBE	ND	10	91	97.4	6.80	91.5	94.2	2.98	80	120
Benzene	ND	10	95.4	97	1.75	102	106	3.90	80	120
Toluene	ND	10	102	104	2.02	94.3	97.8	3.57	80	120
Ethylbenzene	ND	10	105	107	1.99	100	103	2.60	80	120
Xylenes	ND	30	103	110	6.25	96.7	100	3.39	80	120
%SS:	107	100	98.6	99.9	1.33	100	100	0.0517	80	120

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.

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.

% 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.



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QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0211484

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 5092		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	98.5	94.9	3.71	70	130
%SS:	N/A	100	N/A	N/A	N/A	116	115	0.969	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.

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.

% 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.



QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0211484

EPA Method: SW8021B		Extraction: SW5030B			BatchID: 5076		Spiked Sample ID: 0211492-009A			
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
Chlorobenzene	ND	10	100	98.1	2.24	96.2	98.5	2.35	70	130
1,1-Dichloroethene	ND	10	115	105	9.19	114	114	0.0254	70	130
Trichloroethene	ND	10	102	99.1	3.26	94.3	95.5	1.26	70	130
%SS:	104	100	101	102	1.10	97.8	98.4	0.562	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.

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.

% 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.

McC Campbell Analytical Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0211484

Client:

Cambria Env. Technology
 6262 Hollis St.
 Emeryville, CA 94608

TEL: (510) 450-1983
 FAX: (510) 450-8295
 ProjectNo: #450-1580-110; Connell
 PO:

Date Received: 11/27/02
 Date Printed: 11/27/02

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests			
					SW8015C	SW8021B	8021B/8015	
0211484-001	MW-4	Water	11/26/02 3:35:00 PM	<input type="checkbox"/>	B	C	A	
0211484-002	MW-7	Water	11/26/02 2:35:00 PM	<input type="checkbox"/>	B	C	A	
0211484-003	MW-8	Water	11/26/02 2:00:00 PM	<input type="checkbox"/>	B	C	A	
0211484-004	MW-9	Water	11/26/02 4:10:00 PM	<input type="checkbox"/>	B	C	A	
0211484-005	MW-13	Water	11/26/02 12:50:00 PM	<input type="checkbox"/>	B	C	A	

Prepared by: _____

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.

cefe

0211484

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: Mrsy Holland Ford Bill To: Cambria Env. Tech

Company: Cambria Environmental Technology Inc.

6262 Hollis Street

Emeryville, CA 94608

E-mail:

Tele: 510-~~450~~-1982

Fax: 510-450-8295

Project #: 425-1580-180

Project Name: Connell

Project Location: 3093 Broadway Oakland, Ca

Sampler Signature: L. Hall

Analysis Request

Other

Comments

BTEX & TPH as Gas (502/8020 + 8015)/MTBE
TPH as Diesel (8015) / MD

Total Petroleum Oil & Grease (5520 E&F/R&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

HVOC'S

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									
<u>MW-4</u>		<u>11-26-02</u>	<u>15:35</u>	<u>7</u>	<u>VOC Amb</u>	X					X	X											
<u>MW-7</u>		<u>11-26-02</u>	<u>14:35</u>	<u>7</u>	<u>VOC Amb</u>	X					X	X											
<u>MW-8</u>		<u>11-26-02</u>	<u>14:00</u>	<u>7</u>	<u>VOC Amb</u>	X					X	X											
<u>MW-9</u>		<u>11-26-02</u>	<u>16:10</u>	<u>7</u>	<u>VOC Amb</u>	X					X	X											
<u>MW-13</u>		<u>11-26-02</u>	<u>12:50</u>	<u>7</u>	<u>VOC Amb</u>	X					X	X											

Relinquished By: L. Hall Date: 11-27-02 Time: 4:30

Received By: secure location

Relinquished By: D. Roth Date: 11/27/02 Time: 12:35

Received By: D. Roth 235

Relinquished By: D. Roth 235 Date: 11/27 Time: 14:10

Received By: Melissa Valle

Remarks:

ICBP <input checked="" type="checkbox"/>	PRESERVATION APPROPRIATE <input checked="" type="checkbox"/>	VOAS <input checked="" type="checkbox"/>	CGC <input type="checkbox"/>	METALS <input type="checkbox"/>
GOOD CONDITION <input checked="" type="checkbox"/>	CONTAINERS <input checked="" type="checkbox"/>	PRESERVED IN LAB <input type="checkbox"/>		
HEAD SPACE ABSENT <input type="checkbox"/>				
DECHLORINATED IN LAB <input type="checkbox"/>				

* for MW-4 + MW-13 GBTX + HVOC'S cancelled on another COC

C A M B R I A



ATTACHMENT C

Field Data Sheets

Product Removal Form Connell Automobile Dealership, Oakland, CA

By: J. Gull Date: 11-6-02

Project and Task #: 425-1580-011

Well	Treatment	Time	Gallons Removed*	DTW/ DTP	Comments
MW-1	SoakEase	11:30	≈ 20ml	25.71/ 25.83	10 ml squeezed from sock
MW-6	Skimmer	13:30	≈ 20ml	25.78/ 25.85	installed skimmer
MW-14	SoakEase	16:30	≈ 0.0ml	25.85/ —	waited and bailed slowly but no sign recovery even after purge

* If SoakEase is removed, wring out used sock into bucket and estimate vol. removed. Saturated socks theoretically hold about 1 quart (0.25 gal) of product. Skimmer receptacle holds about 1/2 quart (0.14 gal) of product.

Notes

No. of Product Drums Onsite: 2

Drum capacity available: almost empty

Groundwater Monitoring Field Sheet

Well ID	Time	DTP	DTW	Product Thickness	Amount of Product Removed	Casing Diam.	Comment
MW-1	11:45	24.42	24.47	0.05			
MW-4	11:20		20.83				
MW-6	12:00	24.19	24.22	0.03			
MW-7	11:15		18.35				
MW-8	11:10		27.50				
MW-9	11:25		20.37				
MW-13	11:00		24.78				
MW-14	11:50	not measurable	24.35	—			heavy sheen can be seen not measurable but SPH is present
MW-15	11:55	sheen	24.59	—			

Project Name: Connell

Project Number/Task: 425-1580

Measured By: J. Hill

Date: 11-26-02

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: MHF	Well ID: MW-4
Project Number: 425-1580	Date: 11/26 /02	Well Yield:
Site Address: 3093 Broadway Oakland, CA	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): SG
Initial Depth to Water: 20.83	Total Well Depth: 24.00	Water Column Height: 3.17
Volume/ft: 0.16	1 Casing Volume: 0.50	3 Casing Volumes: 1.50
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 1.50
Start Purge Time: 14:50	Stop Purge Time: 15:29	Total Time: 39mins

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.	pH	Cond.	Comments
15:05	.50	19.9	7.17	781	
15:20	1.00	20.1	7.23	720	
15:30	1.50	20.3	7.25	755	
					DO = 0.29 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-4	11/26/02	15:35	6VOAs 1 Amber	HCL	TPHg BTEX MTBE HVOC'S TPHd/mo	8015/8020

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: MHF	Well ID: MW-7
Project Number: 425-1580	Date: 11/26 /02	Well Yield:
Site Address: 3093 Broadway Oakland, CA	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): SG
Initial Depth to Water: 18.35	Total Well Depth: 30.00	Water Column Height: 11.65
Volume/ft: 0.16	1 Casing Volume: 1.86	3 Casing Volumes: 5.59
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 6
Start Purge Time: 14:15	Stop Purge Time: 14:29	Total Time: 14min

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.	pH	Cond.	Comments
14:20	2	20.4	7.29	849	
14:29	4	19.9	7.31	1028	
14:30	6	20.1	7.38	1072	
					DO = 0.28mg/l

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-7	11/26/02	14:35	6VOAs 1 Amber	HCL	TPHg BTEX MTBE HVOC'S TPHd/mo	8015/8020

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: MHF	Well ID: MW-8
Project Number: 425-1580	Date: 11/26 /02	Well Yield:
Site Address: 3093 Broadway Oakland, CA	Sampling Method:	Well Diameter: 6" pvc
	Disposable bailer	Technician(s): SG
Initial Depth to Water: 27.50	Total Well Depth: 39.40	Water Column Height: 11.90
Volume/ft: 1.47	1 Casing Volume: 17.49	3 Casing Volumes: 52.47
Purging Device: disposable bailer ^{whal pump}	Did Well Dewater?: NO	Total Gallons Purged: 53
Start Purge Time: 13:10	Stop Purge Time: 13:54	Total Time: 44 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.	pH	Cond.	Comments
13:30	18	19.5	7.19	1374	
13:45	36	19.6	7.23	1380	
13:55	53	19.8	7.21	1469	
					DO=0.18 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-8	11/26/02	14:00	6VOAs 1 Amber	HCL	TPHg BTEX MTBE HVOC'S TPHd/mo	8015/8020

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: MHF	Well ID: MW-9
Project Number: 425-1580	Date: 11/26 /02	Well Yield:
Site Address: 3093 Broadway Oakland, CA	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): SG
Initial Depth to Water: 20.37	Total Well Depth: 30.50	Water Column Height: 10.13
Volume/ft: 0.16	1 Casing Volume: 1.62	3 Casing Volumes: 4.86
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 5
Start Purge Time: 15:50	Stop Purge Time: 16:04	Total Time: 14mins

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.	pH	Cond.	Comments
15:55	1.5	19.7	7.34	429	
16:00	3.0	19.9	7.38	840	
16:05	5.0	19.9	7.25	895	
					DO = 0.53 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-9	11/26/02	16:10	6VOAs 1 Amber	HCL	TPHg BTEX MTBE HVOC'S TPHd/mo	8015/8020

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: MHF	Well ID: MW-13
Project Number: 425-1580	Date: 11/26 /02	Well Yield:
Site Address: 3093 Broadway Oakland, CA	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): SG
Initial Depth to Water: 24.78	Total Well Depth: 39.45	Water Column Height: 14.67
Volume/ft: 0.16	1 Casing Volume: 2.34	3 Casing Volumes: 7.0
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 7
Start Purge Time: 12:30	Stop Purge Time: 12:44	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.	pH	Cond.	Comments
12:35	2.5	19.7	7.24	1012	
12:40	5.0	20.1	7.11	1070	
12:45	7.0	20.0	7.15	1125	
					DO = 0.47 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-13	11/26/02	12:50	6VOAs 1 Amber	HCL	TPHg BTEX MTBE HVOC'S TPHd/mo	8015/8020

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: Mary Holland Food Bill To: Cambria Env. Tech

Company: Cambria Environmental Technology Inc.

6262 Hollis Street

Emeryville, CA 94608

E-mail:

Tele: 510-~~450~~-1982

Fax: 510-450-8295

Project #: 425-1580-100

Project Name: Connell

Project Location: 3093 Broadway Oakland, Ca

Sampler Signature: S. Hall

Analysis Request

Other

Comments

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) / MB	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		11-26-02	15:35	7	1000 Amb	X						X	X																									
MW-7		11-26-02	14:35	7	1000 Amb	X						X	X																									
MW-8		11-26-02	14:00	7	1000 Amb	X						X	X																									
MW-9		11-26-02	16:10	7	1000 Amb	X						X	X																									
MW-13		11-26-02	12:50	7	1000 Amb	X						X	X																									

Relinquished By:	Date:	Time:	Received By:
<u>S. Hall</u>	<u>11-27-02</u>	<u>4:30</u>	<u>secure location</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:

Product Removal Form Connell Automobile Dealership, Oakland, CA

By: [Signature] Date: 12-9-02
 Project and Task #: 425-1580-011

Well	Treatment	Time	Gallons Removed*	DTW/DTP	Comments
MW-1	SoakEase	6:30	35ml	24.08 24.08	~35ml soft bailed
MW-6	Skimmer	7:30	~80ml	23.97 23.98	~20ml bailed 60ml emptied skimmer
MW-14	SoakEase	8:30	~0:0	24.05 no sept	sheen removed sheen

* If SoakEase is removed, wring out used sock into bucket and estimate vol. removed. Saturated socks theoretically hold about 1 quart (0.25 gal) of product. Skimmer receptacle holds about 1/2 quart (0.14 gal) of product.

Notes

No. of Product Drums Onsite: 2 (1) 5gal (1) 5gal
 Drum capacity available: almost empty

C A M B R I A



ATTACHMENT D

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: 4th Qtr 2002 Groundwater Depth Data for 3093 Broadway in
Oakland
Submittal Date/Time: 2/28/2003 5:07:03 PM
**Confirmation
Number:** 1475224137

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Your EDF file has been successfully uploaded!

Confirmation Number: 7588297128

Date/Time of Submittal: 2/20/2003 4:34:12 PM

Facility Global ID: T0600100406

Facility Name: CONNELL OLDSMOBILE

Submittal Title: 4QM02

Submittal Type: GW Monitoring Report

Logged in as CAMBRIA-EM (AUTH_RP)

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Submittal Report For CONNELL OLDSMOBILE:

page 1 of 1

<u>Title</u>	<u>Type</u>	<u>Submitted</u>	<u>Submittal Status</u>	<u>Confirmation #</u>	
2QM02	GWM_R	2/20/2003	AWAITING APPROVAL	8524841904	Delete Submittal
3QM02	GWM_R	2/20/2003	AWAITING APPROVAL	3700450718	Delete Submittal
4QM02	GWM_R	2/20/2003	AWAITING APPROVAL	7588297128	Delete Submittal
1QM03	GWM_R	2/20/2003	AWAITING APPROVAL	1073899149	Delete Submittal
4th Qtr 2002 Groundwater Depth Data for 3093 Broadway in Oakland	GEO_WELL	2/28/2003	AWAITING APPROVAL	1475224137	Delete Submittal

Logged in as CAMBRIA-EM (AUTH_RP)

CONTACT SITE ADMINISTRATOR.