CAMBRIA

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ENVIRONMENTAL PROTECTION

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January 15, 1999

Ms. Susan L. Hugo
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, #250
Alameda, California 94502-6577

Re: **Quarterly Monitoring Report - Fourth Quarter 1998**
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Dear Ms. Hugo:

This Quarterly Monitoring Report describes the recently completed activities associated with ground water monitoring and sampling at the referenced site (Plates 1 and 2). This report was prepared to meet quarterly reporting guidelines issued by the Alameda County Health Care Services Agency and the Regional Water Quality Control Board, San Francisco Bay Region.

Monitoring & Sampling Summary

Ground water monitoring and sampling for the fourth quarter of 1998 are summarized below:

- Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water levels and collected samples from Wells EW-1, MW-2 through MW-5, OMW-6, MW-8, OMW-9, OMW-10, and OMW-12 on October 20, 1998 and measured ground water levels and collected samples from Wells OMW-11 and OMW-13 on November 23, 1998. The samples were transported to Sequoia Analytical of Redwood City, California for chemical analysis.

- Ground water level measurement data collected on October 20, 1998 were evaluated and used to prepare a ground water contour map (Plate 2). Ground water flow is generally to the southwest at an approximate hydraulic gradient ranging from 0.01 to 0.03.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

270 Perkins Street
P.O. Box 259
Sonoma, CA 95476
Tel (707)935-4850
Fax (707)935-6649

Quarterly Sampling

Ground water samples collected from the wells were analyzed for Total Purgeable Petroleum Hydrocarbons quantitated as gasoline (TPPH) according to EPA Method 8015 (Modified), and benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tertiary-butyl-ether (MTBE) according to EPA Method 8020. Ground water samples collected from Wells OMW-9, OMW-11, and OMW-13 were also analyzed for Total Extractable Petroleum Hydrocarbons quantitated as diesel (TEPH) according to EPA Method 8015 (Modified). In addition, a duplicate sample was analyzed for quality control purposes.

Field monitoring data and chemical analytical data are summarized in Table 1. A chemical concentration map is presented as Plate 2. Blaine's ground water monitoring report is presented in Appendix A.

If you have any questions regarding the contents of this document, please call Joe Neely at (707) 935-4854.

Sincerely,
Cambria Environmental Technology, Inc.

JN Neely for
Aubrey K. Cool
Staff Geologist

Diane M. Lundquist, P.E.
Principal Engineer
C46725

Attachments

Table 1. Well Concentrations

Plate 1. Site Vicinity Map
Plate 2. Ground Water Contour/Chemical Concentration Map

Appendix A

Blaine Tech Services Inc. - Ground Water Monitoring Report

cc: Ms. Karen Petryna, Equiva Services LLC

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
EW-1	**Top casing elevation (ft):**			**78.26**							
06-Aug-91	NA	NA	NA	180	<50	5.4	<0.5	0.9	0.7	NA	
30-Oct-91	12.72	65.54	0.00	70	<50	2.6	<0.5	<0.5	<0.5	NA	
15-Feb-92	NA	NA	NA	<50	NA	2.1	<0.5	<0.5	<0.5	NA	
18-Mar-92	11.71	66.55	0.00	NA	NA	NA	NA	NA	NA	NA	
22-May-92	12.84	65.42	0.00	99	NA	4.1	<0.5	<0.5	<0.5	NA	
19-Aug-92	13.04	65.22	0.00	140	NA	6.6	<0.5	<0.5	<0.5	NA	
18-Nov-92	12.90	65.36	0.00	56	NA	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-93	11.28	66.98	0.00	63	NA	<0.5	<0.5	<0.5	0.9	NA	
19-May-93	12.52	65.74	0.00	60 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Aug-93	12.48	65.78	0.00	NA	NA	NA	NA	NA	NA	NA	
17-Nov-93	12.63	65.63	0.00	170	NA	17	<0.5	<0.5	<0.5	NA	
18-Feb-94	11.38	66.88	0.00	NA	NA	NA	NA	NA	NA	NA	
26-May-94	12.02	66.24	0.00	<50	NA	3.5	<0.5	<0.5	0.51	NA	
29-Aug-94	12.76	65.50	0.00	NA	NA	NA	NA	NA	NA	NA	
11-Nov-94	11.08	67.18	0.00	200	NA	13	0.88	<0.5	<0.5	NA	
03-Feb-95	10.88	67.38	0.00	NA	NA	NA	NA	NA	NA	NA	
07-May-95	11.32	66.94	0.00	90	NA	8.6	<0.5	<0.5	<0.5	NA	
02-Aug-95	11.76	66.50	0.00	NA	NA	NA	NA	NA	NA	NA	
02-Nov-95	12.80	65.46	0.00	240	NA	12	1.5	0.6	1.9	NA	
24-Feb-96	10.15	68.11	0.00	NA	NA	NA	NA	NA	NA	NA	
04-May-96	12.26	66.00	0.00	<50	NA	1.4	<0.50	<0.50	<0.50	4.1	
07-Sep-96	13.43	64.83	0.00	NA	NA	NA	NA	NA	NA	NA	
24-Nov-96	12.24	66.02	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
23-Feb-97	12.20	66.06	0.00	NA	NA	NA	NA	NA	NA	NA	
01-May-97	12.97	65.29	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	

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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
22-Jul-97	13.43	64.83	0.00	NA	NA	NA	NA	NA	NA	NA	
04-Nov-97	13.20	65.06	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	
21-Jan-98	10.52	67.74	0.00	NA	NA	NA	NA	NA	NA	NA	
11-May-98	12.35	65.91	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
11-Aug-98	12.90	65.36	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Oct-98	13.34	64.92	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
EW-1 (DUP)											
11-Feb-93	NA	NA	NA	63	NA	<0.5	<0.5	<0.5	0.8	NA	
17-Nov-93	NA	NA	NA	190	NA	17	<0.5	<0.5	<0.5	NA	
MW-2	**Top casing elevation (ft):**			**80.80**							
06-Aug-91	12.12	68.68	0.00	1200	230	59	1.1	38	56	NA	
30-Oct-91	11.70	69.10	0.00	520	300	56	<0.5	56	100	NA	
15-Feb-92	NA	NA	NA	2300	2200 (a)	87	<2.5	88	150	NA	
18-Mar-92	11.10	69.70	0.00	NA	NA	NA	NA	NA	NA	NA	
22-May-92	12.12	68.68	0.00	700	NA	24	1.0	34	48	NA	
19-Aug-92	12.18	68.62	0.00	740	NA	21	<2.5	24	26	NA	
18-Nov-92	12.03	68.77	0.00	920	NA	19	<2.5	30	51	NA	
11-Feb-93	11.15	69.65	0.00	1000	NA	25	6.0	43	73	NA	
19-May-93	11.80	69.00	0.00	570	NA	19	<0.5	37	42	NA	
18-Aug-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
17-Nov-93	12.00	68.80	0.00	250	NA	10	<1.0	26	20	NA	
18-Feb-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
26-May-94	11.61	69.19	0.00	620	NA	17	1.4	25	31	NA	
29-Aug-94	11.96	68.84	0.00	NA	NA	NA	NA	NA	NA	NA	

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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
11-Nov-94	10.74	70.06	0.00	1100	NA	28	3.1	39	65	NA	
03-Feb-95	11.58	69.22	0.00	NA	NA	NA	NA	NA	NA	NA	
07-May-95	10.98	69.82	0.00	700	NA	15	<0.5	35	39	NA	
02-Aug-95	11.90	68.90	0.00	NA	NA	NA	NA	NA	NA	NA	
02-Nov-95	12.12	68.68	0.00	140	NA	2.3	<0.5	4.4	3.7	NA	
24-Feb-96	10.25	70.55	0.00	NA	NA	NA	NA	NA	NA	NA	
04-May-96	11.30	69.50	0.00	140	NA	2.1	<0.50	4.6	4.9	6.2	
07-Sep-96	15.10	65.70	0.00	NA	NA	NA	NA	NA	NA	NA	
24-Nov-96	12.13	68.67	0.00	620	NA	9.7	<0.50	2.0	46	<2.5	
23-Feb-97	12.01	68.79	0.00	NA	NA	NA	NA	NA	NA	NA	
01-May-97	12.94	67.86	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
22-Jul-97	13.22	67.58	0.00	NA	NA	NA	NA	NA	NA	NA	
04-Nov-97	13.00	67.80	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	
21-Jan-98	10.47	70.33	0.00	NA	NA	NA	NA	NA	NA	NA	
11-May-98	12.49	68.31	0.00	59	NA	0.56	<0.50	<0.50	<0.50	<2.5	
11-Aug-98	12.82	67.98	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Oct-98	13.13	67.67	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
MW-2 (DUP)											
19-Aug-92	NA	NA	NA	840	NA	31	<2.5	36	43	NA	
18-Nov-92	NA	NA	NA	870	NA	25	<2.5	34	52	NA	
26-May-94	NA	NA	NA	600	NA	16	1.2	24	29	NA	
MW-3	**Top casing elevation (ft):**			**79.60**							
06-Aug-91	11.12	68.48	0.00	1900	470	220	57	57	260	NA	
30-Oct-91	10.93	68.67	0.00	1900	480	160	28	63	180	NA	

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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
15-Feb-92	NA	NA	NA	2300	780 (a)	170	31	59	180	NA	
18-Mar-92	10.54	69.06	0.00	NA	NA	NA	NA	NA	NA	NA	
22-May-92	10.79	68.81	0.00	1500	NA	160	20	44	140	NA	
19-Aug-92	11.23	68.37	0.00	4500	NA	210	64	89	310	NA	
18-Nov-92	11.20	68.40	0.00	2400	NA	81	14	39	140	NA	
11-Feb-93	11.00	68.60	0.00	3000	NA	200	47	90	260	NA	
19-May-93	11.16	68.44	0.00	2100	NA	240	44	100	330	NA	
18-Aug-93	11.35	68.25	0.00	NA	NA	NA	NA	NA	NA	NA	
17-Nov-93	11.10	68.50	0.00	1000	NA	110	13	60	150	NA	
18-Feb-94	10.76	68.84	0.00	NA	NA	NA	NA	NA	NA	NA	
26-May-94	11.85	67.75	0.00	1100	NA	200	17	29	58	NA	
29-Aug-94	10.40	69.20	0.00	NA	NA	NA	NA	NA	NA	NA	
11-Nov-94	10.04	69.56	0.00	870	NA	130	10	38	87	NA	
03-Feb-95	10.06	69.54	0.00	NA	NA	NA	NA	NA	NA	NA	
07-May-95	10.11	69.49	0.00	1300	NA	180	7.5	54	110	NA	
02-Aug-95	11.02	68.58	0.00	NA	NA	NA	NA	NA	NA	NA	
02-Nov-95	10.97	68.63	0.00	370	NA	36	1.8	16	21	NA	
24-Feb-96	9.61	69.99	0.00	NA	NA	NA	NA	NA	NA	NA	
04-May-96	10.40	69.20	0.00	460	NA	54	1.9	18	28	20	
07-Sep-96	13.55	66.05	0.00	NA	NA	NA	NA	NA	NA	NA	
24-Nov-96	11.83	67.77	0.00	2800	NA	290	<10	29	39	<50	
23-Feb-97	11.81	67.79	0.00	NA	NA	NA	NA	NA	NA	NA	
01-May-97	12.34	67.26	0.00	2000	NA	120	<5.0	53	14	60	
22-Jul-97	12.86	66.74	0.00	NA	NA	NA	NA	NA	NA	NA	
04-Nov-97	12.62	66.98	0.00	470	NA	120	<2.5	<2.5	7.3	<25	
21-Jan-98	10.78	68.82	0.00	NA	NA	NA	NA	NA	NA	NA	

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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
11-May-98	11.98	67.62	0.00	4400	NA	260	<10	220	36	170	
11-Aug-98	12.38	67.22	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Oct-98	12.55	67.05	0.00	1700	NA	120	<2.0	18	7.1	19	
MW-3 (DUP)											
11-Nov-94	NA	NA	NA	1000	NA	120	10	42	92	NA	
20-Oct-98	NA	NA	NA	1400	NA	120	<5.0	18	<5.0	80	
MW-4	**Top casing elevation (ft):**			**81.00**							
06-Aug-91	12.36	68.64	0.00	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	
30-Oct-91	12.02	68.98	0.00	50	<50	<0.5	<0.5	<0.5	<0.5	NA	
15-Feb-92	NA	NA	NA	90	NA	0.9	<0.5	<0.5	<0.5	NA	
18-Mar-92	11.34	69.66	0.00	NA	NA	NA	NA	NA	NA	NA	
22-May-92	12.35	68.65	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
19-Aug-92	12.41	68.59	0.00	82 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-92	12.28	68.72	0.00	85 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-93	11.65	69.35	0.00	62 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
19-May-93	11.92	69.08	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Aug-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
17-Nov-93	12.24	68.76	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Feb-94	11.69	69.31	0.00	NA	NA	NA	NA	NA	NA	NA	
26-May-94	12.00	69.00	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
11-Nov-94	11.30	69.70	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
03-Feb-95	10.99	70.01	0.00	NA	NA	NA	NA	NA	NA	NA	
07-May-95	11.69	69.31	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
02-Aug-95	11.72	69.28	0.00	NA	NA	NA	NA	NA	NA	NA	

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02-Nov-95	12.23	68.77	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
24-Feb-96	11.13	69.87	0.00	NA	NA	NA	NA	NA	NA	NA	
04-May-96	11.80	69.20	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
07-Sep-96	13.27	67.73	0.00	NA	NA	NA	NA	NA	NA	NA	
24-Nov-96	12.42	68.58	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
23-Feb-97	12.38	68.62	0.00	NA	NA	NA	NA	NA	NA	NA	
01-May-97	13.08	67.92	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
22-Jul-97	13.73	67.27	0.00	NA	NA	NA	NA	NA	NA	NA	
04-Nov-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
21-Jan-98	11.41	69.59	0.00	NA	NA	NA	NA	NA	NA	NA	
11-May-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
11-Aug-98	13.05	67.95	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Oct-98	13.30	67.70	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
MW-5	**Top casing elevation (ft):**			**81.50**							
06-Aug-91	13.02	68.48	0.00	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	
30-Oct-91	12.73	68.77	0.00	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	
15-Feb-92	NA	NA	NA	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Mar-92	12.52	68.98	0.00	NA	NA	NA	NA	NA	NA	NA	
22-May-92	13.05	68.45	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
19-Aug-92	13.04	68.46	0.00	55 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-92	12.91	68.59	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-93	12.44	69.06	0.00	59 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
19-May-93	12.84	68.66	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
17-Nov-93	12.89	68.61	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Feb-94	12.30	69.20	0.00	NA	NA	NA	NA	NA	NA	NA	

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26-May-94	12.73	68.77	0.00	<50	NA	1.8	2.4	1.3	4.9	NA	
29-Aug-94	12.88	68.62	0.00	NA	NA	NA	NA	NA	NA	NA	
11-Nov-94	12.20	69.30	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
03-Feb-95	11.78	69.72	0.00	NA	NA	NA	NA	NA	NA	NA	
07-May-95	12.47	69.03	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
02-Aug-95	12.83	68.67	0.00	NA	NA	NA	NA	NA	NA	NA	
02-Nov-95	13.02	68.48	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
24-Feb-96	12.11	69.39	0.00	NA	NA	NA	NA	NA	NA	NA	
04-May-96	13.20	68.30	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
07-Sep-96	14.24	67.26	0.00	NA	NA	NA	NA	NA	NA	NA	
24-Nov-96	13.58	67.92	0.00	<50	NA	<0.50	<0.5	<0.50	<0.50	<2.5	
23-Feb-97	13.54	67.96	0.00	NA	NA	NA	NA	NA	NA	NA	
01-May-97	14.17	67.33	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
22-Jul-97	14.35	67.15	0.00	NA	NA	NA	NA	NA	NA	NA	
04-Nov-97	14.30	67.20	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
21-Jan-98	12.86	68.64	0.00	NA	NA	NA	NA	NA	NA	NA	
11-May-98	13.89	67.61	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
11-Aug-98	14.20	67.30	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Oct-98	14.41	67.09	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
MW-5 (DUP)											
19-May-93	NA	NA	NA	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
04-Nov-97	NA	NA	NA	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
OMW-6	**Top casing elevation (ft):**			**77.90**							
06-Aug-91	10.71	67.19	0.00	26000	3600	910	420	560	1900	NA	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
30-Oct-91	10.50	67.40	0.00	20000	4600	710	240	410	1700	NA	
15-Feb-92	NA	NA	NA	35000	27000	690	420	650	3000	NA	
18-Mar-92	9.24	68.66	0.00	NA	NA	NA	NA	NA	NA	NA	
22-May-92	10.13	67.77	0.00	15000	NA	460	110	300	1600	NA	
19-Aug-92	10.16	67.74	0.00	24000	NA	600	300	460	2000	NA	
18-Nov-92	9.94	67.96	0.00	29000	NA	480	250	450	2300	NA	
11-Feb-93	9.20	68.70	0.00	24000	NA	1300	250	630	2400	NA	
19-May-93	10.64	67.86	0.00	18000	NA	750	180	520	2500	NA	
18-Aug-93	10.04	67.86	0.00	NA	NA	NA	NA	NA	NA	NA	
17-Nov-93	10.12	67.78	0.00	14000	NA	260	64	430	1900	NA	
18-Feb-94	9.65	68.25	0.00	NA	NA	NA	NA	NA	NA	NA	
26-May-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
29-Aug-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11-Nov-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
03-Feb-95	8.96	68.94	0.00	NA	NA	NA	NA	NA	NA	NA	
07-May-95	8.64	69.26	0.00	11000	NA	460	82	280	540	NA	
02-Aug-95	12.09	65.81	0.00	NA	NA	NA	NA	NA	NA	NA	
24-Feb-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
04-May-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
07-Sep-96	14.45	63.45	0.00	NA	NA	NA	NA	NA	NA	NA	
24-Nov-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
23-Feb-97	13.12	64.78	0.00	NA	NA	NA	NA	NA	NA	NA	
01-May-97	13.19	64.71	0.00	17000	NA	630	52	610	1300	380	
22-Jul-97	13.52	64.38	0.00	NA	NA	NA	NA	NA	NA	NA	
04-Nov-97	13.12	64.78	0.00	10000	NA	610	23	410	820	<100	
21-Jan-98	12.19	65.71	0.00	NA	NA	NA	NA	NA	NA	NA	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
11-May-98	12.71	65.19	0.00	14000	NA	500	32	900	1000	110	
11-Aug-98	13.18	64.72	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Oct-98	13.11	64.79	0.00	7500	NA	220	<20	290	130	120	
OMW-6 (DUP)											
07-May-95	NA	NA	NA	14000	NA	480	61	230	370	NA	
01-May-97	NA	NA	NA	20000	NA	630	54	630	1300	500	MTBE by 8260: <20 ppb
11-May-98	NA	NA	NA	14000	NA	490	<25	900	980	370	
MW-8	**Top casing elevation (ft):**			**79.91**							
06-Aug-91	13.08	66.83	0.00	90	<50	<0.5	<0.5	<0.5	<0.5	NA	
30-Oct-91	12.87	67.04	0.00	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	
15-Feb-92	NA	NA	NA	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Mar-92	11.54	68.37	0.00	NA	NA	NA	NA	NA	NA	NA	
22-May-92	12.32	67.59	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
19-Aug-92	12.58	67.33	0.00	60	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-92	12.47	67.44	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-93	11.02	68.89	0.00	76 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
19-May-93	11.78	68.13	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Aug-93	12.22	67.69	0.00	NA	NA	NA	NA	NA	NA	NA	
17-Nov-93	12.25	67.66	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Feb-94	10.56	69.35	0.00	NA	NA	NA	NA	NA	NA	NA	
26-May-94	11.30	68.61	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
29-Aug-94	11.90	68.01	0.00	NA	NA	NA	NA	NA	NA	NA	
11-Nov-94	10.12	69.79	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
03-Feb-95	11.64	68.27	0.00	NA	NA	NA	NA	NA	NA	NA	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
07-May-95	10.77	69.14	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
02-Aug-95	10.92	68.99	0.00	NA	NA	NA	NA	NA	NA	NA	
02-Nov-95	11.93	67.98	0.00	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	
24-Feb-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
04-May-96	11.66	68.25	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
07-Sep-96	9.84	70.07	0.00	NA	NA	NA	NA	NA	NA	NA	
24-Nov-96	11.53	68.38	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
23-Feb-97	11.54	68.37	0.00	NA	NA	NA	NA	NA	NA	NA	
01-May-97	12.37	67.54	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
22-Jul-97	12.73	67.18	0.00	NA	NA	NA	NA	NA	NA	NA	
04-Nov-97	12.60	67.31	0.00	50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	
21-Jan-98	9.73	70.18	0.00	NA	NA	NA	NA	NA	NA	NA	
11-May-98	11.93	67.98	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
11-Aug-98	12.35	67.56	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Oct-98	12.88	67.03	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
OMW-9	**Top casing elevation (ft):**			**77.71**							
06-Aug-91	10.38	67.33	0.00	3900	190	58	8.8	80	220	NA	
30-Oct-91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
18-Mar-92	8.76	68.95	0.00	1800 (c)	210	84	11	49	60	NA	
20-May-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
19-Aug-92	9.98	67.73	0.00	4600	22 (a)	63	<25	48	70	NA	
18-Nov-92	9.81	67.90	0.00	1800	130 (a)	30	9.2	46	61	NA	
11-Feb-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
19-May-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
18-Aug-93	9.75	67.96	0.00	NA	NA	NA	NA	NA	NA	NA	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
17-Nov-93	9.92	67.79	0.00	5900	2400 (d)	86	14	150	46	NA	
18-Feb-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
26-May-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
29-Aug-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11-Nov-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
03-Feb-95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
07-May-95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
02-Aug-95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
24-Feb-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
04-May-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
07-Sep-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well inaccessible
24-Nov-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessilbe
23-Feb-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
01-May-97	12.10	65.61	0.00	4700	1100	150	14	97	52	330	
22-Jul-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
04-Nov-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
21-Jan-98	11.32	66.39	0.00	NA	NA	NA	NA	NA	NA	NA	
11-May-98	11.95	65.76	0.00	5500	1500	220	10	160	91	110	
11-Aug-98	12.08	65.63	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Oct-98	12.03	65.68	0.00	1200	780	18	<5.0	14	6.0	48	
OMW-10	**Top casing elevation (ft):**			**77.91**							
07-Aug-91	10.00	67.91	0.00	460	<50	73	1.0	18	8.4	NA	
31-Oct-91	10.10	67.81	0.00	630	150	100	<0.5	33	26	NA	
15-Feb-92	NA	NA	NA	810	570 (a)	85	2.5	44	38	NA	
18-Mar-92	9.55	68.36	0.00	NA	NA	NA	NA	NA	NA	NA	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
21-May-92	10.41	67.50	0.00	280	NA	47	0.7	4.0	3.1	NA	
19-Aug-92	10.46	67.45	0.00	330	NA	35	<1	6.0	4.1	NA	
18-Nov-93	10.31	67.60	0.00	300	NA	30	0.8	7.1	6.3	NA	
11-Feb-93	9.68	68.23	0.00	510 (b)	NA	49	3.8	18	18	NA	
19-May-93	10.19	67.72	0.00	<50	NA	96	<0.5	3.4	1.5	NA	
18-Aug-93	10.29	67.62	0.00	NA	NA	NA	NA	NA	NA	NA	
17-Nov-93	10.32	67.59	0.00	400	NA	24	<1.0	2.8	1.9	NA	
18-Feb-94	9.30	68.61	0.00	NA	NA	NA	NA	NA	NA	NA	
26-May-94	10.14	67.77	0.00	330	NA	32	13	7.5	26	NA	
09-Aug-94	10.38	67.53	0.00	NA	NA	NA	NA	NA	NA	NA	
11-Nov-94	9.34	68.57	0.00	110	NA	7.8	<0.5	2.3	1.5	NA	
03-Feb-95	10.17	67.74	0.00	NA	NA	NA	NA	NA	NA	NA	
07-May-95	9.63	68.28	0.00	1600	NA	110	3.1	17	12	NA	
02-Aug-95	10.07	67.84	0.00	NA	NA	NA	NA	NA	NA	NA	
02-Nov-95	9.74	68.17	0.00	1200	NA	47	0.8	1.4	2.4	NA	
24-Feb-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
04-May-96	9.97	67.94	0.00	1100	NA	76	16	7.4	32	57	
07-Sep-96	13.00	64.91	0.00	NA	NA	NA	NA	NA	NA	NA	
24-Nov-96	12.56	65.35	0.00	540	NA	13	2.7	1.3	1.7	16	
23-Feb-97	12.52	65.39	0.00	NA	NA	NA	NA	NA	NA	NA	
01-May-97	13.13	64.78	0.00	910	NA	1.3	10	4.1	5.9	4.1	
22-Jul-97	13.46	64.45	0.00	NA	NA	NA	NA	NA	NA	NA	
04-Nov-97	12.08	65.83	0.00	460	NA	5.0	<0.50	1.3	2.2	<5.0	
21-Jan-98	11.77	66.14	0.00	NA	NA	NA	NA	NA	NA	NA	
11-May-98	12.86	65.05	0.00	370	NA	4.1	0.7	<0.50	0.88	5.2	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
11-Aug-98	13.20	64.71	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Oct-98	13.20	64.71	0.00	490	NA	<0.50	<0.50	1.6	2.3	5.9	
OMW-10 (DUP)											
02-Nov-95	NA	NA	NA	1300	NA	50	0.8	1.5	2.5	NA	
04-May-96	NA	NA	NA	700	NA	63	13	6.4	25	21	
24-Nov-96	NA	NA	NA	490	NA	25	<2.0	<2.0	<2.0	66	
OMW-11	**Top casing elevation (ft):**			**75.76**							
22-Nov-91	11.90	63.86	0.00	450	240	1.1	<0.5	<0.5	<0.5	NA	
15-Feb-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
18-Mar-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
20-May-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
19-Aug-92	12.06	63.70	0.00	270 (b)	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-92	12.01	63.75	0.00	400 (b)	100	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
20-May-93	11.90	63.86	0.00	200 (b)	<0.5	<0.5	<0.5	<0.5	<0.5	NA	
18-Aug-93	11.90	63.86	0.00	180 (b)	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-Nov-93	11.94	63.82	0.00	150 (b)	<50 (d)	<0.5	3.6	<0.5	<0.5	NA	
18-Feb-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
26-May-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
29-Aug-94	11.98	63.78	0.00	NA	NA	NA	NA	NA	NA	NA	
11-Nov-94	10.88	64.88	0.00	160	NA	<0.5	<0.5	<0.5	<0.5	NA	
03-Feb-95	10.62	65.14	0.00	NA	NA	NA	NA	NA	NA	NA	
05-Mar-95	NA	NA	NA	220	100	0.7	<0.5	<0.5	<0.5	NA	
07-May-95	11.49	64.27	0.00	160	<50	<0.5	<0.5	<0.5	<0.5	NA	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
02-Aug-95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
24-Feb-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
04-May-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
07-Sep-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
24-Nov-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
23-Feb-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
01-May-97	13.76	62.00	0.00	130	71	<0.50	<0.50	<0.50	0.61	<2.5	
22-Jul-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
04-Nov-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
21-Jan-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
11-May-98	13.18	62.58	0.00	100	85	<0.50	<0.50	<0.50	<0.50	<2.5	
11-Aug-98	13.50	62.26	0.00	110	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
20-Oct-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Unable to locate
23-Nov-98	11.85	63.91	0.00	1700	890	88	9.0	42	22	170	
OMW-12	**Top casing elevation (ft):**			**75.65**							
02-Dec-91	10.31	65.34	0.00	<1000	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Mar-92	8.93	66.72	0.00	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-May-92	10.26	65.39	0.00	180 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
19-Aug-92	10.53	65.12	0.00	230 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-92	10.45	65.20	0.00	220 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-93	8.90	66.75	0.00	240	NA	<0.5	<0.5	<0.5	<0.5	NA	
19-May-93	10.60	65.05	0.00	110 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Aug-93	10.28	65.37	0.00	140 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
17-Nov-93	10.24	65.41	0.00	120 (b)	NA	<0.5	<0.5	<0.5	<0.5	NA	
18-Feb-94	8.97	66.68	0.00	180 (b)	NA	1.7	2.1	0.9	4.8	NA	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
26-May-94	9.62	66.03	0.00	150	NA	<0.5	<0.5	<0.5	<0.5	NA	
29-Aug-94	10.20	65.45	0.00	110	NA	<0.5	<0.5	<0.5	<0.5	NA	
11-Nov-94	8.54	67.11	0.00	90	NA	<0.5	<0.5	<0.5	<0.5	NA	
03-Feb-95	8.28	67.37	0.00	80	NA	<0.5	<0.5	<0.5	<0.5	NA	
07-May-95	9.17	66.48	0.00	110	NA	<0.5	<0.5	<0.5	<0.5	NA	
02-Aug-95	10.06	65.59	0.00	90	NA	<0.5	<0.5	<0.5	<0.5	NA	
02-Nov-95	10.09	65.56	0.00	130	NA	<0.5	<0.5	<0.5	<0.5	NA	
24-Feb-96	7.81	67.84	0.00	80	NA	<0.5	<0.5	<0.5	<0.5	NA	
04-May-96	11.72	63.93	0.00	61	NA	<0.50	<0.50	<0.50	<0.50	<2.5	C7-C8 Chromatogram Pattern
07-Sep-96	12.65	63.00	0.00	66	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
24-Nov-96	11.54	64.11	0.00	70	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
23-Feb-97	11.53	64.12	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
01-May-97	12.17	63.48	0.00	79	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
22-Jul-97	12.48	63.17	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
04-Nov-97	12.54	63.11	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	
21-Jan-98	9.82	65.83	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
11-May-98	11.63	64.02	0.00	53	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
11-Aug-98	12.05	63.60	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
20-Oct-98	12.31	63.34	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	
OMW-12 (DUP)											
03-Feb-95	NA	NA	NA	100	NA	0.6	<0.5	0.7	1.1	NA	
02-Aug-95	NA	NA	NA	120	NA	<0.5	<0.5	<0.5	<0.5	NA	
22-Jul-97	NA	NA	NA	51	NA	<0.50	<0.50	<0.50	<0.50	<2.5	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
OMW-13	**Top casing elevation (ft):**			**76.36**							
22-Nov-91	11.96	64.40	0.00	900	1000	37	9.5	74	130	NA	
18-Mar-92	10.84	65.52	0.00	900 (c)	590 (a)	24	28	320	320	NA	
20-May-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
19-Aug-92	12.12	64.24	0.00	7000	470 (a)	180	36	150	150	NA	
18-Nov-92	12.00	64.36	0.00	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
11-Feb-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
20-May-93	12.26	64.10	0.00	9200	NA	320	83	490	950	NA	
18-Aug-93	11.75	64.61	0.00	NA	NA	NA	NA	NA	NA	NA	
17-Nov-93	11.78	64.58	0.00	38000	3800	210	<130	1000	2500	NA	
18-Feb-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
26-May-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
29-Aug-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11-Nov-94	10.28	66.08	0.00	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
03-Feb-95	10.01	66.35	0.00	1.0	NA	NA	NA	NA	NA	NA	
05-Mar-95	NA	NA	NA	9100	3900	200	9.7	200	130	NA	
07-May-95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
02-Aug-95	11.80	64.56	0.00	8000	2900	180	6.6	190	55	NA	
24-Feb-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
04-May-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
07-Sep-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
24-Nov-96	12.35	64.01	0.00	15000	7700	50	<20	74	60	<100	
23-Feb-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
01-May-97	13.83	62.53	0.00	2600	290	33	10	30	14	88	
22-Jul-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
04-Nov-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
21-Jan-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
11-May-98	13.21	63.15	0.00	10000	1400	60	17	120	23	<50	
11-Aug-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
20-Oct-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
23-Nov-98	12.85	63.51	0.00	150	790	3.2	0.72	<0.50	1.5	5.0	

Abbreviations:

TPPH = Total Purgeable Petroleum Hydrocarbons carbon range C6 to C12 by Modified EPA Method 8015
(previously reported as Total Petroleum Hydrocarbons as Gasoline)

TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015

BTEX = benzene, toluene, methylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl ether by EPA Method 8020.

<x = Not detected at detection limit of x

NA = Not analyzed or not available

(DUP) = Duplicate sample

Notes:

(a) = Concentration reported as diesel is primary due to the presence of a lighter petroleum product, possible gasoline or kerosene.

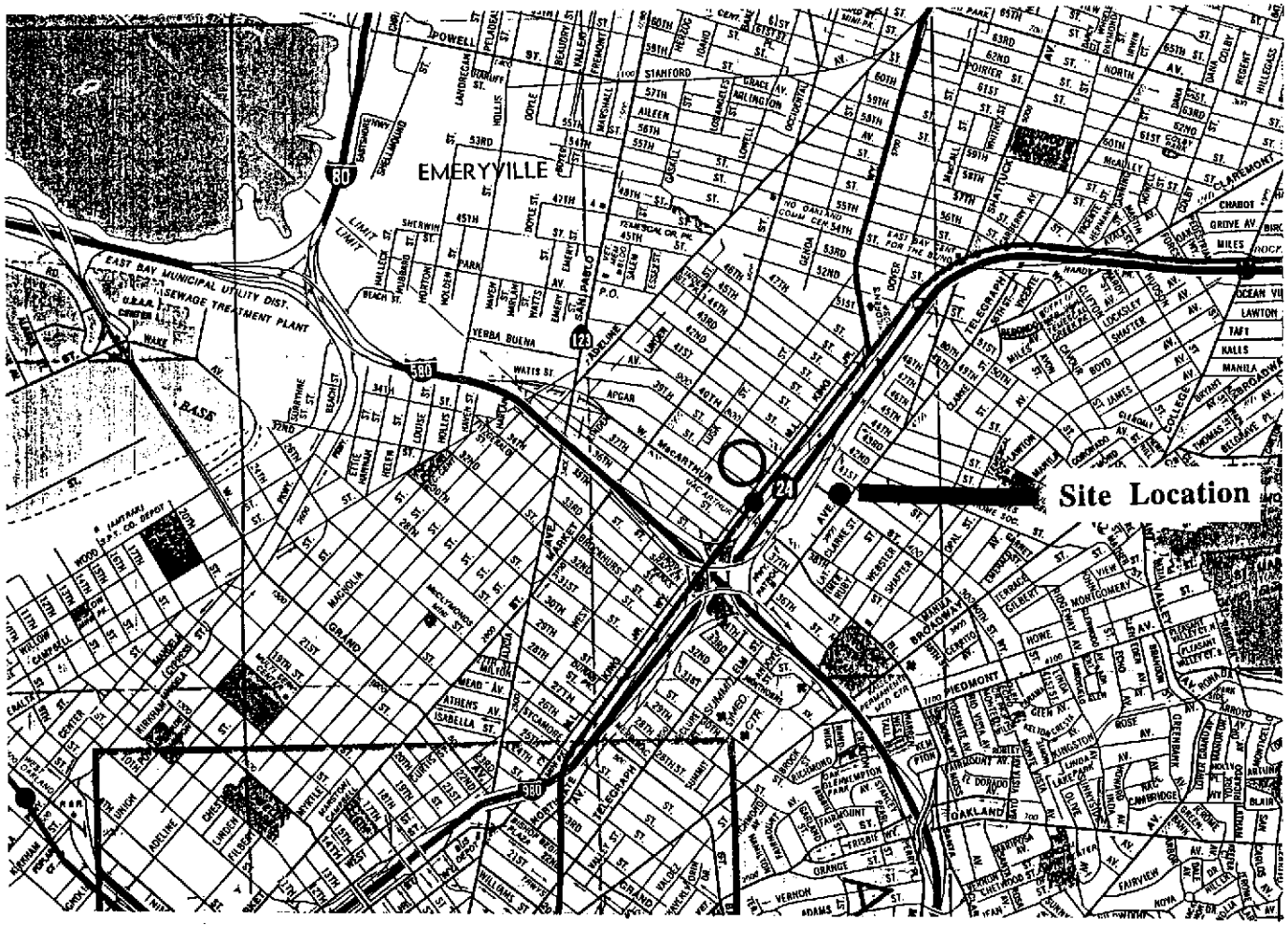
(b) = Concentration reported as gasoline is primarily due to the presence of discrete hydrocarbon peaks not indicative of gasoline.

(c) = Compounds detected and calculated as gasoline do not match the standard gasoline chromatographic pattern.

(d) = The concentrations reported as diesel are primarily due to the presence of a lighter petroleum product of hydrocarbon, range C6-C12, possibly gasoline.

Elevations referenced to Mean Sea Level

Depth to water measured from top of casing



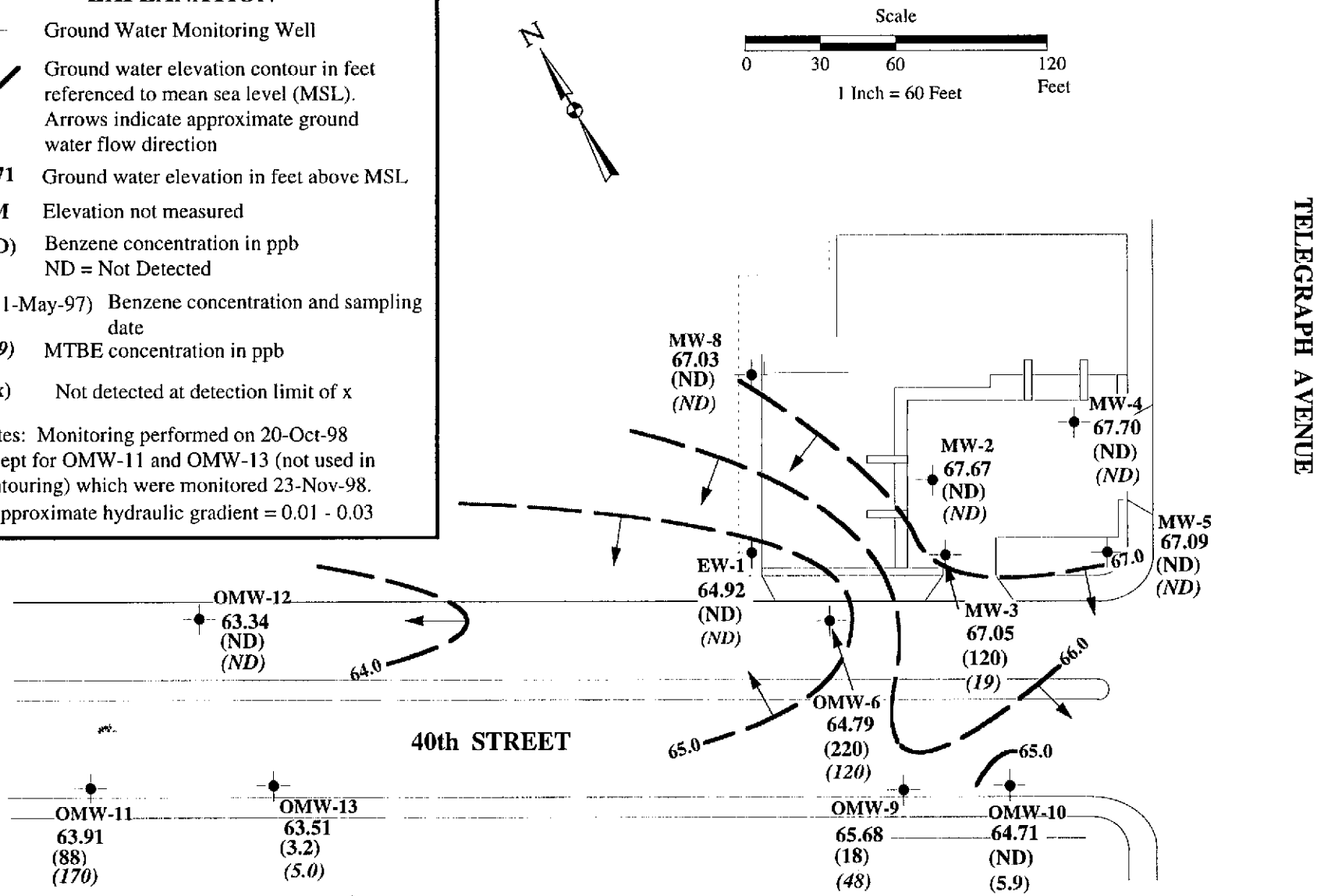
Note: Vicinity Map taken from California State AAA map.

PLATE		
1	**SITE VICINITY MAP** Former Shell Service Station 500 40th Avenue Oakland, California	CAMBRIA 289
Drawn By: JLP	Date: 5-15-95	Approved By: _____ Date: 1-12-99

EXPLANATION

- Ground Water Monitoring Well
- Ground water elevation contour in feet referenced to mean sea level (MSL). Arrows indicate approximate ground water flow direction
- **62.71** Ground water elevation in feet above MSL
- **NM** Elevation not measured
- **(ND)** Benzene concentration in ppb ND = Not Detected
- **(ND, 1-May-97)** Benzene concentration and sampling date
- ***(5.9)*** MTBE concentration in ppb
- **(<x)** Not detected at detection limit of x

Notes: Monitoring performed on 20-Oct-98 except for OMW-11 and OMW-13 (not used in contouring) which were monitored 23-Nov-98.
Approximate hydraulic gradient = 0.01 - 0.03



Base map taken from Weiss Associates Site Map.

PLATE **2**

GROUND WATER CONTOUR/CHEMICAL CONCENTRATION MAP
Former Shell Service Station
500 40th Avenue
Oakland, California

CAMBRIA
289

Drawn By: AKC Date: 07-Jan-99

Approved By: Date: 1-12-99

Appendix A

Blaine Tech Services Inc.
Ground Water Monitoring Report

BLAINE
TECH SERVICES INC

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

December 22, 1998

RECEIVED
DEC 1998
BY:

Equiva Services, L.L.C.
P.O. Box 6249
Carson, CA 90749-6249

Attn: Karen Petryna

Shell WIC #204-5508-4903
500 40th/Telegraph
Oakland, California

4th Quarter 1998
October 20 and November 23, 1998

Groundwater Monitoring Report 981020-Z-1

Blaine Tech Services, Inc. performs environmental monitoring and documentation as an independent third party. Copies of our Monitoring Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 573-0555 ext. 201.

Yours truly,

Francis Thie

attachments: Table of Well Gauging Data
Chain of Custody
Field Data Sheets
Certified Analytical Report

cc: Cambria Environmental Technology, Inc.
P.O. Box 259
Sonoma, CA 95476-0259
Attn: Joe Neely

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
EW-1	10/20/98	TOC	--	NONE	--	--	13.34	38.40
MW-2	10/20/98	TOC	--	NONE	--	--	13.13	19.55
MW-3*	10/20/98	TOC	ODOR	NONE	--	--	12.55	18.75
MW-4	10/20/98	TOC	--	NONE	--	--	13.30	15.05
MW-5	10/20/98	TOC	--	NONE	--	--	14.41	20.30
OMW-6	10/20/98	TOC	ODOR	NONE	--	--	13.11	20.20
MW-8	10/20/98	TOC	--	NONE	--	--	12.88	38.74
OMW-9	10/20/98	TOC	ODOR	NONE	--	--	12.03	17.45
OMW-10	10/20/98	TOC	--	NONE	--	--	13.20	16.03
OMW-11	10/20/98	UNABLE TO LOCATE	--	--	--	--	--	--
OMW-11	11/23/98	TOC	--	NONE	--	--	11.85	17.23
OMW-12	10/20/98	TOC	--	NONE	--	--	12.31	19.48
OMW-13	10/20/98	INACCESSIBLE	--	--	--	--	--	--
OMW-13	11/23/98	TOC	--	NONE	--	--	12.85	16.05

* Sample DUP was a duplicate sample taken at well MW-3.

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
EW-1									
11/17/93	--	170	17	ND	ND	ND	--	--	--
05/26/94	--	ND	3.5	ND	ND	0.51	--	--	--
11/11/94	--	200	13	0.88	ND	ND	--	--	--
05/07/95	--	90	8.6	ND	ND	ND	--	--	--
10/12/95	--	240	12	1.5	0.6	1.9	--	--	--
05/04/96	--	ND	1.4	ND	ND	ND	4.1	--	--
11/24/96	--	ND	ND	ND	ND	ND	ND	--	--
05/01/97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/04/97	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--
05/11/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
10/20/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
MW-2									
11/17/93	--	250	10	<1.0	26	20	--	--	--
05/26/94	--	620	17	1.4	25	31	--	--	--
05/26/94	Duplicate	600	16	1.2	24	29	--	--	--
11/11/94	--	1100	28	3.1	39	65	--	--	--
05/07/95	--	700	15	ND	35	39	--	--	--
11/02/95	--	140	2.3	ND	4.4	3.7	--	--	--
05/04/96	--	140	2.1	ND	4.6	4.9	6.2	--	--
11/24/96	--	620	9.7	ND	2	46	ND	--	--
05/01/97	ODOR	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/04/97	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--
05/11/98	--	59	0.56	<0.5	<0.5	<0.5	<2.5	--	--
10/20/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
MW-3									
11/17/93	--	1000	110	13	60	150	--	--	--
05/26/94	--	1100	200	17	29	58	--	--	--
11/11/94	--	870	130	10	38	87	--	--	--
11/11/94	Duplicate	1000	120	10	42	92	--	--	--
05/07/95	--	1300	180	7.5	54	110	--	--	--
11/02/95	--	370	36	1.8	16	21	--	--	--
05/04/96	--	460	54	1.9	18	28	20	--	--
11/24/96	--	2800	290	ND	29	39	ND	--	--
05/01/97	ODOR	2000	120	<5.0	53	14	60	--	--
11/04/97	--	470	120	<2.5	<2.5	7.3	<25	--	--
05/11/98	ODOR	4400	260	<10	220	36	170	--	--
10/20/98	ODOR	1700	120	<2.0	18	7.1	19	--	--
10/20/98	Duplicate	1400	120	<5.0	18	<5.0	80	--	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
MW-4									
11/17/93	--	ND	ND	ND	ND	ND	--	--	--
05/26/94	--	ND	ND	ND	ND	ND	--	--	--
11/11/94	--	ND	ND	ND	ND	ND	--	--	--
05/07/95	--	ND	ND	ND	ND	ND	--	--	--
11/02/95	--	ND	ND	ND	ND	ND	--	--	--
05/04/96	--	ND	ND	ND	ND	ND	ND	--	--
11/24/96	--	ND	ND	ND	ND	ND	ND	--	--
05/01/97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/04/97	INACCESSIBLE	--	--	--	--	--	--	--	--
05/11/98	INACCESSIBLE	--	--	--	--	--	--	--	--
10/20/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
MW-5									
11/17/93	--	ND	ND	ND	ND	ND	--	--	--
05/26/94	--	ND	1.8	2.4	1.3	4.9	--	--	--
11/11/94	--	ND	ND	ND	ND	ND	--	--	--
05/07/95	--	ND	ND	ND	ND	ND	--	--	--
11/02/95	--	ND	ND	ND	ND	ND	--	--	--
05/04/96	--	ND	ND	ND	ND	ND	ND	--	--
11/24/96	--	ND	ND	ND	ND	ND	ND	--	--
05/01/97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/04/97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/04/97	Duplicate	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
05/11/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
10/20/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
MW-8									
11/17/93	--	ND	ND	ND	ND	ND	--	--	--
05/26/94	--	ND	ND	ND	ND	ND	--	--	--
11/11/94	--	ND	ND	ND	ND	ND	--	--	--
05/07/95	--	ND	ND	ND	ND	ND	--	--	--
11/02/95	--	ND	ND	ND	ND	ND	--	--	--
05/04/96	--	ND	ND	ND	ND	ND	ND	--	--
11/24/96	--	ND	ND	ND	ND	ND	ND	--	--
05/01/97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/04/97	--	50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--
05/11/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
10/20/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
OMW-6									
11/17/93	--	14000	260	64	430	1900	--	--	--
05/26/94	INACCESSIBLE	--	--	--	--	--	--	--	--
05/07/95	--	11000	460	82	280	540	--	--	--
05/07/95	Duplicate	14000	480	61	230	370	--	--	--
11/02/95	INACCESSIBLE	--	--	--	--	--	--	--	--
05/04/96	INACCESSIBLE	--	--	--	--	--	--	--	--
11/24/96	INACCESSIBLE	--	--	--	--	--	--	--	--
05/01/97	ODOR	17000	630	52	610	1300	380	--	--
05/01/97	Duplicate	20000	630	54	630	1300	500	--	--
05/01/97	Confirmation run	--	--	--	--	--	<20	--	--
11/04/97	--	10000	610	23	410	820	400	--	--
05/11/98	ODOR	14000	500	32	900	1000	110	--	--
05/11/98	Duplicate	14000	490	<25	900	980	370	--	--
10/20/98	ODOR	7500	220	<20	290	130	120	--	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
OMW-9									
11/17/93	--	5900	86	14	150	46	--	2400	--
05/26/94	INACCESSIBLE	--	--	--	--	--	--	--	--
02/03/95	INACCESSIBLE	--	--	--	--	--	--	--	--
05/07/95	INACCESSIBLE	--	--	--	--	--	--	--	--
11/02/95	INACCESSIBLE	--	--	--	--	--	--	--	--
05/04/96	INACCESSIBLE	--	--	--	--	--	--	--	--
11/24/96	INACCESSIBLE	--	--	--	--	--	--	--	--
05/01/97	ODOR	4700	150	14	97	52	330	1100	--
11/04/97	INACCESSIBLE	--	--	--	--	--	--	--	--
05/11/98	ODOR/SHEEN	5500	220	10	160	91	110	1500	--
10/20/98	ODOR	1200	18	<5.0	14	6.0	48	780	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
OMW-10									
11/17/93	--	400	24	<1.0	2.8	1.9	--	--	--
05/26/94	--	330	32	13	7.5	26	--	--	--
11/11/94	--	110	7.8	ND	2.3	1.5	--	--	--
05/07/95	--	1600	110	3.1	17	12	--	--	--
11/02/95	--	1200	47	0.8	1.4	2.4	--	--	--
11/02/95	Duplicate	1300	50	0.8	1.5	2.5	--	--	--
05/04/96	--	1100	76	16	7.4	32	57	--	--
05/04/96	Duplicate	700	63	13	6.4	25	21	--	--
11/24/96	--	540	13	2.7	1.3	1.7	16	--	--
11/24/96	Duplicate	490	25	ND	ND	ND	66	--	--
05/01/97	--	910	1.3	10	4.1	5.9	4.1	--	--
11/04/97	ODOR	460	5.0	<0.5	1.3	2.2	<5.0	--	--
05/11/98	--	370	4.1	0.70	<0.5	0.88	5.2	--	--
10/20/98	--	490	<0.5	<0.5	1.6	2.3	5.9	--	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
OMW-11									
08/18/93	--	180	ND	ND	ND	ND	--	ND	--
11/17/93	--	150	ND	3.6	ND	ND	--	ND	--
02/18/94	INACCESSIBLE	--	--	--	--	--	--	--	--
05/26/94	INACCESSIBLE	--	--	--	--	--	--	--	--
11/11/94	--	160	ND	ND	ND	ND	--	100	--
02/03/95	INACCESSIBLE	--	--	--	--	--	--	--	--
03/05/95	--	220	0.7	ND	ND	ND	--	100	--
05/07/95	--	160	ND	ND	ND	ND	--	ND	--
11/02/95	INACCESSIBLE	--	--	--	--	--	--	--	--
05/04/96	INACCESSIBLE	--	--	--	--	--	--	--	--
09/07/96	INACCESSIBLE	--	--	--	--	--	--	--	--
11/24/96	INACCESSIBLE	--	--	--	--	--	--	--	--
02/24/97	INACCESSIBLE	--	--	--	--	--	--	--	--
05/01/97	--	130	<0.5	<0.5	<0.5	0.61	<2.5	71	--
07/22/97	INACCESSIBLE	--	--	--	--	--	--	--	--
11/04/97	INACCESSIBLE	--	--	--	--	--	--	--	--
05/11/98	--	100	<0.5	<0.5	<0.5	<0.5	<2.5	85	--
08/11/98	--	110	<0.5	<0.5	<0.5	<0.5	<2.5	<50	--
10/20/98	UNABLE TO LOCATE	--	--	--	--	--	--	--	--
11/23/98	--	1700	88	9.0	42	22	170	890	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
OMW-12									
08/18/93	--	140	ND	ND	ND	ND	--	--	--
11/17/93	--	120	ND	ND	ND	ND	--	--	--
02/18/94	--	180	1.7	2.1	0.9	4.8	--	--	--
05/26/94	--	150	ND	ND	ND	ND	--	--	--
08/29/94	--	110	ND	ND	ND	ND	--	--	--
11/11/94	--	90	ND	ND	ND	ND	--	--	--
02/03/95	--	80	0.6	0.7	ND	1.2	--	--	--
02/03/95	Duplicate	100	0.6	0.7	ND	1.1	--	--	--
05/07/95	--	110	ND	ND	ND	ND	--	--	--
08/02/95	--	90	ND	ND	ND	ND	--	--	--
08/02/95	Duplicate	120	ND	ND	ND	ND	--	--	--
11/02/95	--	130	ND	ND	ND	ND	--	--	--
02/24/96	--	130	ND	ND	ND	ND	--	--	--
05/04/96	--	61	ND	ND	ND	ND	ND	--	--
09/07/96	--	66	ND	ND	ND	ND	ND	--	--
11/24/96	--	70	ND	ND	ND	ND	ND	--	--
02/24/97	--	ND	ND	ND	ND	ND	ND	--	--
05/01/97	--	79	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
07/22/97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
07/22/97	Duplicate	51	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/04/97	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--
01/21/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
05/11/98	--	53	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
08/11/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
10/20/98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

Cumulative Table of Analytical Results

DATE	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH Diesel	Total Oil & Grease
OMW-13									
11/17/93	--	38000	210	<130	1000	2500	--	3800	--
02/18/94	INACCESSIBLE	--	--	--	--	--	--	--	--
05/26/94	INACCESSIBLE	--	--	--	--	--	--	--	--
02/03/95	INACCESSIBLE	--	--	--	--	--	--	--	--
03/05/95	--	9100	200	9.7	200	130	--	3900	--
05/07/95	INACCESSIBLE	--	--	--	--	--	--	--	--
08/02/95	--	8000	180	6.6	190	55	--	2900	--
11/02/95	INACCESSIBLE	--	--	--	--	--	--	--	--
05/04/96	INACCESSIBLE	--	--	--	--	--	--	--	--
09/07/96	INACCESSIBLE	--	--	--	--	--	--	--	--
11/24/96	--	15000	50	ND	74	60	ND	7700	--
02/24/97	INACCESSIBLE	--	--	--	--	--	--	--	--
05/01/97	ODOR	2600	33	10	30	14	88	290	--
07/22/97	INACCESSIBLE	--	--	--	--	--	--	--	--
11/04/97	INACCESSIBLE	--	--	--	--	--	--	--	--
05/11/98	ODOR/SHEEN	10000	60	17	120	23	<50	1400	--
10/20/98	INACCESSIBLE	--	--	--	--	--	--	--	--
11/23/98	--	150	3.2	0.72	<0.5	1.5	5.0	790	--
E.B.									
11/17/93	--	ND	ND	ND	ND	ND	--	--	--
05/26/94	--	ND	ND	ND	ND	ND	--	--	--
11/11/94	--	ND	ND	ND	ND	ND	--	--	--
02/03/95	--	ND	ND	ND	ND	ND	--	--	--
05/07/95	--	ND	ND	ND	ND	ND	--	--	--
08/02/95	--	ND	ND	ND	ND	ND	--	--	--
11/02/95	--	ND	ND	ND	ND	ND	--	--	--
05/04/96	--	ND	ND	ND	ND	ND	2.9	--	--
11/24/96	--	ND	ND	ND	ND	ND	2.9	--	--
05/01/97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell 500 40th/Telegraph

Enclosed are the results from samples received at Sequoia Analytical on October 21, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9810F37 -01	LIQUID, EW-1	10/20/98	Purgeable TPH/BTEX/MTBE
9810F37 -02	LIQUID, MW-2	10/20/98	Purgeable TPH/BTEX/MTBE
9810F37 -03	LIQUID, MW-3	10/20/98	Purgeable TPH/BTEX/MTBE
9810F37 -04	LIQUID, MW-4	10/20/98	Purgeable TPH/BTEX/MTBE
9810F37 -05	LIQUID, MW-5	10/20/98	Purgeable TPH/BTEX/MTBE
9810F37 -06	LIQUID, OMW-6	10/20/98	Purgeable TPH/BTEX/MTBE
9810F37 -07	LIQUID, MW-8	10/20/98	Purgeable TPH/BTEX/MTBE
9810F37 -08	LIQUID, OMW-9	10/20/98	Purgeable TPH/BTEX/MTBE
9810F37 -08	LIQUID, OMW-9	10/20/98	TPHD_W Extractable TPH
9810F37 -09	LIQUID, OMW-10	10/20/98	Purgeable TPH/BTEX/MTBE
9810F37 -10	LIQUID, OMW-12	10/20/98	Purgeable TPH/BTEX/MTBE
9810F37 -11	LIQUID, DUP	10/20/98	Purgeable TPH/BTEX/MTBE

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell 500 40th/Telegraph
Sample Descript: EW-1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9810F37-01

Sampled: 10/20/98
Received: 10/21/98

Analyzed: 10/25/98
Reported: 11/03/98

QC Batch Number: GC102598BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 10/20/98
1680 Rogers Avenue	Sample Descript: MW-2	Received: 10/21/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/98
Attention: Fran Thie	Lab Number: 9810F37-02	Reported: 11/03/98

QC Batch Number: GC102598BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell 500 40th/Telegraph
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9810F37-03

Sampled: 10/20/98
Received: 10/21/98

Analyzed: 10/26/98
Reported: 11/03/98

QC Batch Number: GC102698BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**200**	**1700**
Methyl t-Butyl Ether	**10**	**19**
Benzene	**2.0**	**120**
Toluene	2.0	N.D.
Ethyl Benzene	**2.0**	**18**
Xylenes (Total)	**2.0**	**7.1**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	127

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 10/20/98
1680 Rogers Avenue	Sample Descript: MW-4	Received: 10/21/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/98
Attention: Fran Thie	Lab Number: 9810F37-04	Reported: 11/03/98

QC Batch Number: GC102598BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 10/20/98
1680 Rogers Avenue	Sample Descript: MW-5	Received: 10/21/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/98
Attention: Fran Thie	Lab Number: 9810F37-05	Reported: 11/03/98

QC Batch Number: GC102598BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	86

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Renner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 10/20/98
1680 Rogers Avenue	Sample Descript: OMW-6	Received: 10/21/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/98
Attention: Fran Thie	Lab Number: 9810F37-06	Reported: 11/03/98

QC Batch Number: GC102598BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**2000**	**7500**
Methyl t-Butyl Ether	**100**	**120**
Benzene	**20**	**220**
Toluene	20	N.D.
Ethyl Benzene	**20**	**290**
Xylenes (Total)	**20**	**130**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 10/20/98
1680 Rogers Avenue	Sample Descript: MW-8	Received: 10/21/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/98
Attention: Fran Thie	Lab Number: 9810F37-07	Reported: 11/03/98

QC Batch Number: GC102598BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	88

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 10/20/98
1680 Rogers Avenue	Sample Descript: OMW-9	Received: 10/21/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/98
Attention: Fran Thie	Lab Number: 9810F37-08	Reported: 11/03/98

QC Batch Number: GC102598BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**1200**
Methyl t-Butyl Ether	**25**	**48**
Benzene	**5.0**	**18**
Toluene	5.0	N.D.
Ethyl Benzene	**5.0**	**14**
Xylenes (Total)	**5.0**	**6.0**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	82

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 10/20/98
1680 Rogers Avenue	Sample Descript: OMW-9	Received: 10/21/98
San Jose, CA 95112	Matrix: LIQUID	Extracted: 10/26/98
	Analysis Method: EPA 8015 Mod	Analyzed: 10/30/98
Attention: Fran Thie	Lab Number: 9810F37-08	Reported: 11/03/98

QC Batch Number: GC1026980HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**780**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	104

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 10/20/98
1680 Rogers Avenue	Sample Descript: OMW-10	Received: 10/21/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/26/98
Attention: Fran Thie	Lab Number: 9810F37-09	Reported: 11/03/98

QC Batch Number: GC102698BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**490**
Methyl t-Butyl Ether	**2.5**	**5.9**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**1.6**
Xylenes (Total)	**0.50**	**2.3**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	136 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Renner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 10/20/98
1680 Rogers Avenue	Sample Descript: OMW-12	Received: 10/21/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/98
Attention: Fran Thie	Lab Number: 9810F37-10	Reported: 11/03/98

QC Batch Number: GC102598BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 10/20/98
1680 Rogers Avenue	Sample Descript: DUP	Received: 10/21/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/98
Attention: Fran Thie	Lab Number: 9810F37-11	Reported: 11/03/98

QC Batch Number: GC102598BTEX30A
Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**1400**
Methyl t-Butyl Ether	**25**	**80**
Benzene	**5.0**	**120**
Toluene	5.0	N.D.
Ethyl Benzene	**5.0**	**18**
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 500 40th/Telegraph

QC Sample Group: 9810F37-03, -09

Reported: Nov 3, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015
Analyst:	MM/GR
ANALYTE	Gasoline

QC Batch #: GC102698BTEX02A

Sample No.:	GW9810A18-12
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
Instrument I.D.#:	GCHP02
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	250
Matrix Spike, ug/L:	300
% Recovery:	122
Matrix pike Duplicate, ug/L:	300
% Recovery:	118
elative % Difference:	3.3
RPD Control Limits:	0-25

LCS Batch#: GWLCS102698A

Date Prepared:	10/26/98
Date Analyzed:	10/26/98
Instrument I.D.#:	GCHP02
Conc. Spiked, ug/L:	250
LCS Recovery, ug/L:	210
LCS % Recovery:	84

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 500 40th/Telegraph

QC Sample Group: 9810F37-11

Reported: Nov 3, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid			
Method:	EPA 8020			
Analyst:	AM			
ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
QC Batch #:	GC102598BTEX30A			
Sample No.:	GW9810A19-16C			
Date Prepared:	10/24/98	10/24/98	10/24/98	10/24/98
Date Analyzed:	10/24/98	10/24/98	10/24/98	10/24/98
Instrument I.D.#:	GCHP30	GCHP30	GCHP30	GCHP30
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	10.0	10.0	10.0	32
% Recovery:	100.0	100.0	100.0	107
Matrix pike Duplicate, ug/L:	10.0	10.0	10.0	32
% Recovery:	100.0	100.0	100.0	107
elative % Difference:	0.0	0.0	0.0	0.0
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#:	GC102598BTEX30A			
Date Prepared:	10/25/98	10/25/98	10/25/98	10/25/98
Date Analyzed:	10/25/98	10/25/98	10/25/98	10/25/98
Instrument I.D.#:	GCHP30	GCHP30	GCHP30	GCHP30
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	10.0	11	11	32
LCS % Recovery:	100.0	110	110	107

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Reggy Renner
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 500 40th/Telegraph

QC Sample Group: 9810F37-08

Reported: Nov 3, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	G.WARDLE
ANALYTE	Diesel

QC Batch #: GC1026980HBPEXZ

Sample No.:	9810G54-1
Date Prepared:	10/26/98
Date Analyzed:	10/29/98
Instrument I.D.#:	GCHP4B
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	900
% Recovery:	90
Matrix pike Duplicate, ug/L:	910
% Recovery:	91
elative % Difference:	1.1
RPD Control Limits:	0-50

LCS Batch#: BLK102698ZS

Date Prepared:	10/26/98
Date Analyzed:	10/29/98
Instrument I.D.#:	GCHP4B
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	90
LCS % Recovery:	9.0

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
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Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 500 40th/Telegraph

QC Sample Group: 9810F37-01-02, -04-08, -1

Reported: Nov 3, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid			
Method:	EPA 8020			
Analyst:	AM			
ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
QC Batch #:	GC102598BTEX17A			
Sample No.:	GW9810A62-02C			
Date Prepared:	10/24/98	10/24/98	10/24/98	10/24/98
Date Analyzed:	10/24/98	10/24/98	10/24/98	10/24/98
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	11	11	11	31
% Recovery:	110	110	110	103
Matrix pike Duplicate, ug/L:	11	10.0	9.7	27
% Recovery:	110	100.0	97	90
elative % Difference:	0.0	9.5	13	13
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#:	GC102598BTEX17A			
Date Prepared:	10/25/98	10/25/98	10/25/98	10/25/98
Date Analyzed:	10/25/98	10/25/98	10/25/98	10/25/98
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	10.0	10.0	11	29
LCS % Recovery:	100.0	100.0	110	97

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Received: 10/21/98
1680 Rogers Avenue		
San Jose, CA 95112	Lab Proj. ID: 9810F37	Reported: 11/03/98
Attention: Fran Thie		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of_____ pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPPH: Sample 9810F37-09 had high surrogate recovery, due to matrix effect.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 981020-Z1

Date:
Page 1 of 2

Site Address: 500 40th/Telegraph, Oakland, CA

WIC#: 204-5508-4903

Shell Engineer: Alex Perez
Phone No.: (925) 335-5027
Fax #: 335-5016

Consultant Name & Address: Blaine Tech Services, Inc.
1680 Rogers Ave., San Jose, CA 95112-1105

Consultant Contact: Fran Thie
Phone No.: (408) 573-0555
Fax #: 573-7771

Comments: 9810F37

Sampled by: Jeremy

Printed Name:

LAB: Sequoia

CHECK ONE (1) BOX ONLY | CT/DT
- G.W. Monitoring ☐ 4461
- Site Investigation ☐ 4441
- Soil Classify/Disposal ☐ 4442
- Water Classify/Disposal ☐ 4443
- Soil/Air Rem. or Sys. O & M ☐ 4452
- Water Rem. or Sys. O & M ☐ 4453
- Other ☐

TURN AROUND TIME
- 24 hours ☐
- 48 hours ☐
- 15 days ☐ (Normal)
- Other ☐

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: BTS

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020, MTBE			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
EW-1	10/20			W		3						X							01	
MW-2	↓			↓		↓						X							02	
MW-3												X							03	
MW-4												X							04	
MW-5												X							05	
MW-6												X							06	
MW-8												X							07	
MW-9						5		X				X							08	

Relinquished By (signature):	Printed Name:	Date/Time	Received (signature):	Printed Name:	Date/Time
[signature]	Jeremy Roberts	Date: 10/21/98 Time: 10:10	Steve Ten	Steve Ten	Date: 10/21/98 Time: 10:10
[signature]		Date: 10/21/98 Time:			Date: Time:
		Date: Time:	Jim Downs	DOWNS	Date: 21 11 54 Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 981020-22

Date:
Page 2 of 2

Site Address: 500 40th/Telegraph, Oakland, CA

WIC#: 204-5508-4903

Shell Engineer: Alex Perez
Phone No.: (925) 335-5027
Fax #: 335-5016

Consultant Name & Address: Blaine Tech Services, Inc.
1680 Rogers Ave., San Jose, CA 95112-1105

Consultant Contact: Fran Thie
Phone No.: (408) 573-0555
Fax #: 573-7771

Comments: 9810F37

Sampled by: Jeremy

Printed Name:

LAB: Severn

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020/MTBE			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-10	10/21			W		3						X							09	
MW-12	↓			↓		↓						X							10	
DUP	↓			↓		↓						X							11	

CHECK ONE (1) BOX ONLY | CT/DT
- G.W. Monitoring ☐ 4441
- Site Investigation ☐ 4441
- Soil Classify/Disposal ☐ 4442
- Water Classify/Disposal ☐ 4443
- Soil/Air Rem. or Sys. O & M ☐ 4452
- Water Rem. or Sys. O & M ☐ 4453
- Other ☐

TURN AROUND TIME
- 24 hours ☐
- 48 hours ☐
- 15 days ☐ (Normal)
- Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: BTS

	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:
Relinquished By (signature):	Jeremy Robert	10/21/98	10:10	Received (signature): Steve Ten	Printed Name: Steve Ten	10/21/98	10:10
Relinquished By (signature):	Printed Name:	Date: 10/21/98	Time:	Received (signature):	Printed Name:	Date:	Time:
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name: DOWNS	Date:	Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Shell Oil Co. Chain of Custody

21 11 54

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell 500 40th/Telegraph

Enclosed are the results from samples received at Sequoia Analytical on November 24, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9811G28 -01	LIQUID, OMW-11	11/23/98	TPHD_W Extractable TPH
9811G28 -01	LIQUID, OMW-11	11/23/98	TPPH/BTEX/MTBE (Concord)
9811G28 -02	LIQUID, OMW-13	11/23/98	TPHD_W Extractable TPH
9811G28 -02	LIQUID, OMW-13	11/23/98	TPPH/BTEX/MTBE (Concord)

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 11/23/98
1680 Rogers Avenue	Sample Descript: OMW-11	Received: 11/24/98
San Jose, CA 95112	Matrix: LIQUID	Extracted: 12/03/98
	Analysis Method: EPA 8015 Mod	Analyzed: 12/08/98
Attention: Fran Thie	Lab Number: 9811G28-01	Reported: 12/10/98

QC Batch Number: GC1203980HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**890**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	86

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Benner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 11/23/98
1680 Rogers Avenue	Sample Descript: OMW-11	Received: 11/24/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 12/02/98
Attention: Fran Thie	Lab Number: 9811G28-01	Reported: 12/10/98

QC Batch Number: GC120298BTEX04A
Instrument ID: GCHP4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**1700**
Methyl t-Butyl Ether	**25**	**170**
Benzene	**5.0**	**88**
Toluene	**5.0**	**9.0**
Ethyl Benzene	**5.0**	**42**
Xylenes (Total)	**5.0**	**22**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	112

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 11/23/98
1680 Rogers Avenue	Sample Descript: OMW-13	Received: 11/24/98
San Jose, CA 95112	Matrix: LIQUID	Extracted: 12/03/98
	Analysis Method: EPA 8015 Mod	Analyzed: 12/05/98
Attention: Fran Thie	Lab Number: 9811G28-02	Reported: 12/10/98

QC Batch Number: GC1203980HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**790**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	112

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Porner
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Sampled: 11/23/98
1680 Rogers Avenue	Sample Descript: OMW-13	Received: 11/24/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 12/02/98
Attention: Fran Thie	Lab Number: 9811G28-02	Reported: 12/10/98

QC Batch Number: GC120298BTEX04A
Instrument ID: GCHP4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**150**
Methyl t-Butyl Ether	**2.5**	**5.0**
Benzene	**0.50**	**3.2**
Toluene	**0.50**	**0.72**
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**1.5**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	117

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services, Inc.	Client Project ID:	Shell 500 40th/Telgraph	
1680 Rogers Ave.	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9811G28 -01-02	Reported: Dec 14, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC120298802004A	GC120298802004A	GC120298802004A	GC120298802004A	GC120298802004A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8112031	8112031	8112031	8112031	8112031
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/2/98	12/2/98	12/2/98	12/2/98	12/2/98
Analyzed Date:	12/2/98	12/2/98	12/2/98	12/2/98	12/2/98
Instrument I.D.#:	HP4	HP4	HP4	HP4	HP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	430 µg/L
Result:	24	20	21	70	350
MS % Recovery:	120	100	105	117	81
Dup. Result:	22	18	19	65	390
MSD % Recov.:	110	90	95	108	91
RPD:	8.7	10.5	10	7.4	10.8
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS120298	LCS120298	LCS120298	LCS120298	LCS120298
Prepared Date:	12/2/98	12/2/98	12/2/98	12/2/98	12/2/98
Analyzed Date:	12/2/98	12/2/98	12/2/98	12/2/98	12/2/98
Instrument I.D.#:	HP4	HP4	HP4	HP4	HP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	430 µg/L
LCS Result:	23	19	20	70	350
LCS % Recov.:	115	95	100	117	81
MS/MSD Control Limits	60-140	60-140	60-140	60-140	
LCS Control Limits	70-130	70-130	70-130	70-130	60-140

SEQUOIA ANALYTICAL
Elap #1271

Peggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 500 40th/Telegraph

QC Sample Group: 9811G28-01-02

Reported: Dec 10, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	A. PORTER
ANALYTE	Diesel

QC Batch #: GC1203980HBPEXZ

Sample No.:	9811G81-02
Date Prepared:	12/3/98
Date Analyzed:	12/7/98
Instrument I.D.#:	GCHP5A
Sample Conc., ug/L:	150
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	1400
% Recovery:	125
Matrix pike Duplicate, ug/L:	1200
% Recovery:	105
elative % Difference:	17
RPD Control Limits:	0-50

LCS Batch#: BLK120398ZS

Date Prepared:	12/3/98
Date Analyzed:	12/5/98
Instrument I.D.#:	GCHP5A
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	940
LCS % Recovery:	94

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Blaine Tech Services	Client Proj. ID: Shell 500 40th/Telegraph	Received: 11/24/98
1680 Rogers Avenue		
San Jose, CA 95112	Lab Proj. ID: 9811G28	Reported: 12/10/98
Attention: Fran Thie		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 20 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

981128

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 981123-L1

Date: 11-23-98
Page 1 of 1

Site Address: 500 40th/Telegraph, Oakland, CA

SAP #: 204-5508-4903

Shell Engineer: Alex Perez
Phone No.: (925) 335-5027
Fax #: 335-5016

Consultant Name & Address: Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112-1105

Consultant Contact: Fran Thie
Phone No.: (408) 573-0555
Fax #: 573-7771

Comments:

Sampled by: [signature]

Printed Name: LAD GILCHRIST

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring	4461
Site Investigation	4441
Soil Classify/Disposal	4442
Water Classify/Disposal	4443
Soil/Air Rem. or Sys. O & M	4452
Water Rem. or Sys. O & M	4453
Other	

TURN AROUND TIME: 24 hours ☐ 48 hours ☐ 15 days ☐ (Normal) Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: ____

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602); Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020 MTBE; Asbestos; Container Size; Preparation Used; Composite Y/N

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
OMW-11	11/23			X		5	01	
OMW-13	11/23			X		5	02	

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
[signature]	LAD GILCHRIST	11-24	11:00	[signature]	CHARLES ARMSTRONG	11-24	11:00
[signature]	CHARLES ARMSTRONG	11-24					
				[signature]	E.C. BLANCO	11-24	1379

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Bill Of Lading or Chain of Custody