

C A M B R I A

ENVIRONMENTAL  
PROTECTION

March 20, 2000

Barney Chan  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

00 MAR 27 AM 10:46

# 3737

Re: **Fourth Quarter 1999 Monitoring Report**  
Shell-branded Service Station  
630 High Street  
Oakland, California  
Incident #98995751  
Cambria Project #242-0318-002

*all wells monitored  
annually, except MW-3,  
which is monitored semi-annual  
- high MTBE.  
may need to remediate MW-3*



Dear Mr. Chan:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

#### FOURTH QUARTER 1999 ACTIVITIES

**Groundwater Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all site wells. Blaine calculated groundwater elevations and compiled the analytical data. Cambria prepared a groundwater elevation contour map (Figure 1). The Blaine report, presenting the laboratory report and supporting field documents, is included as Attachment A.

#### ANTICIPATED FIRST QUARTER 2000 ACTIVITIES

**Groundwater Monitoring:** Blaine will gauge and sample selected site wells and tabulate the data. Cambria will prepare a monitoring report. Cambria proposes to increase the sampling frequency of well MW-3 from annual to semi-annual.

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

Cambria  
Environmental  
Technology, Inc.

1144 65th Street  
Suite B  
Oakland, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170

**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**



Darryk Ataide, REA I  
Project Manager

Ailsa S. Le May, R.G.  
Senior Geologist

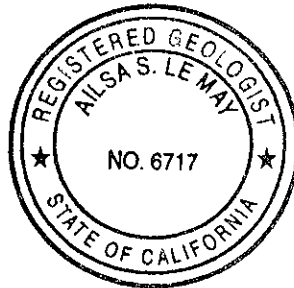


Figure: 1 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91501-7869

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**ATTACHMENT A**

Blaine Groundwater Monitoring Report  
and Field Notes

01:CAK930:FIGURES\MQMS.MP.DWG

**EXPLANATION**

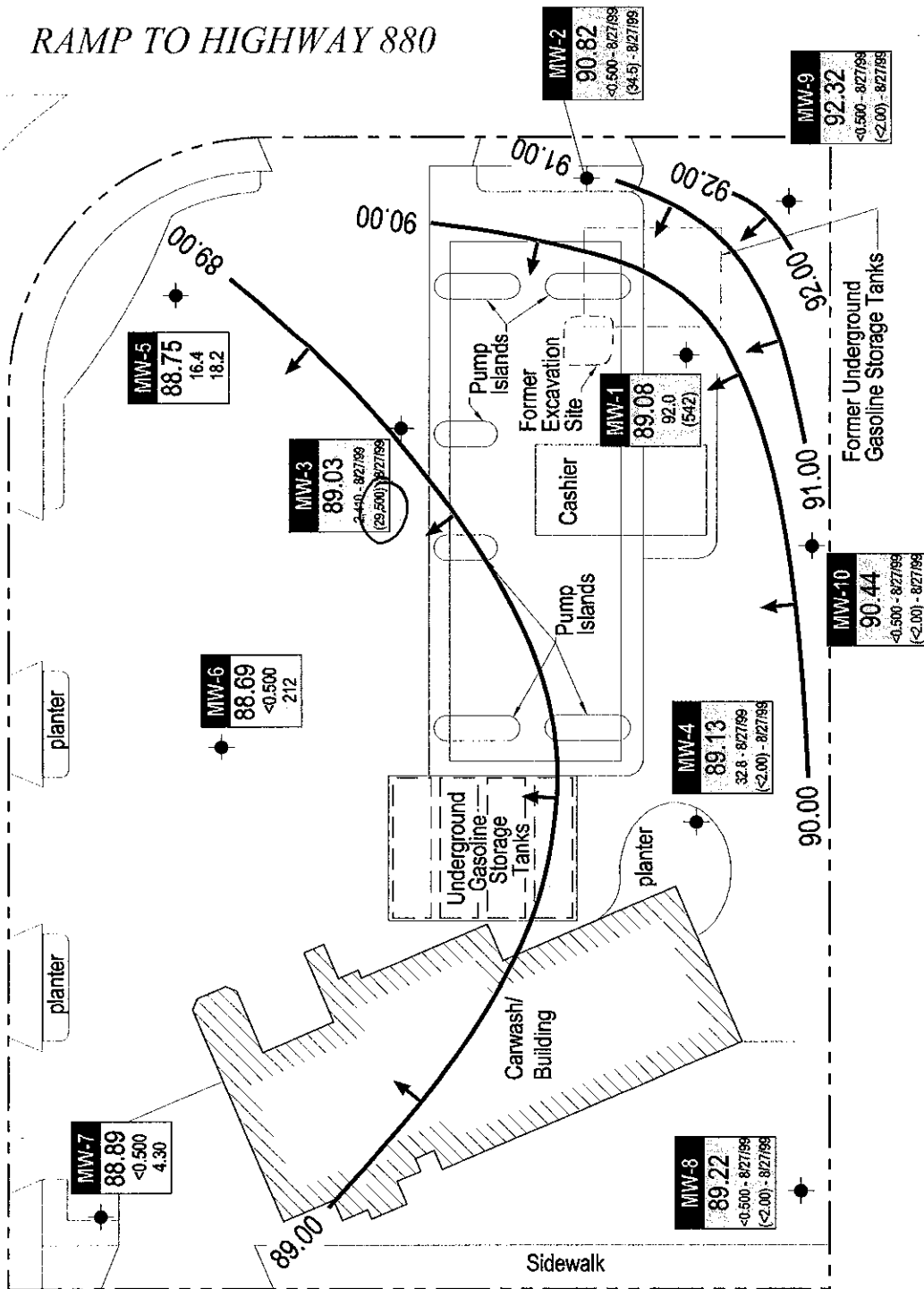
- MW-1 ● Monitoring well location
- ↑ Ground water flow direction
- XX.XX Ground water elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well	ELEV	Benz - date	MTBE - date
MW-1	89.08	92.0	(542)
MW-2	90.82	<0.500	8/27/89 (645)
MW-3	89.03	24.40	8/27/89 (29,500)
MW-4	89.13	32.8	8/27/89 (<2.00)
MW-5	88.75	16.4	18.2
MW-6	88.69	<0.500	212
MW-7	88.89	<0.500	4.30
MW-8	89.22	<0.500	8/27/89 (<2.00)
MW-9	92.32	<0.500	8/27/89 (<2.00)
MW-10	90.44	<0.500	8/27/89 (<2.00)

**Well designation**  
 Ground water elevation, in feet above msl  
 Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020; MTBE results in parentheses are analyzed by EPA Method 8260.

HIGH STREET

RAMP TO HIGHWAY 880



JENSEN STREET

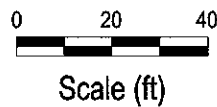


FIGURE 1

**Shell-branded Service Station**

630 High Street  
 Oakland, California  
 Incident #98995751



C A M B R I A

**Ground Water Elevation Contour Map**

November 11, 1999

**BLAINE**  
TECH SERVICES INC



1660 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE

December 17, 1999

Karen Petryna  
Equiva Services LLC  
P.O. Box 7869  
Burbank, CA 91510-7869

Fourth Quarter 1999 Groundwater Monitoring at  
Shell-branded Service Station  
630 High Street  
Oakland, CA

Monitoring performed on November 11, 1999

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Groundwater Monitoring Report 991111-F-1

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purge water (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

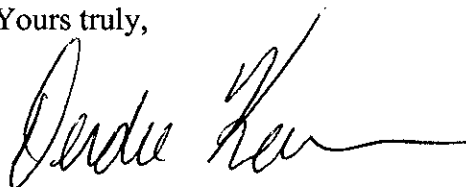
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Deidre Kerwin", with a long horizontal flourish extending to the right.

Deidre Kerwin  
Operations Manager

DK/ek

attachments: Cumulative Table of WELL CONCENTRATIONS  
Certified Analytical Report  
Field Data Sheets

cc: Anni Kreml  
Cambria Environmental Technology, Inc.  
1144 65<sup>th</sup> Street, Suite C  
Oakland, CA 94608-2411

**WELL CONCENTRATIONS**  
**Shell-Branded Service Station**  
**630 High Street**  
**Oakland, CA**  
**WIC #204-5508-5801**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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MW-1	1/29/91	11,000	21,000a	310	41	500	400	NA	NA	99.35	10.79	88.56	NA
MW-1	4/30/91	8,300	2,100	250	32	310	300	NA	NA	99.35	9.48	89.87	NA
MW-1	7/22/91	11,000	3,800	310	36	290	280	NA	NA	99.35	10.53	88.82	NA
MW-1	2/21/92	7,300	8,900b	200	36	340	270	NA	NA	99.35	8.31	91.04	NA
MW-1	5/22/92	7,600	18,000b, c	140	<50	300	140	NA	NA	99.35	10.02	89.33	NA
MW-1	7/7/92	NA	NA	NA	NA	NA	NA	NA	NA	99.35	10.06	89.29	NA
MW-1	8/20/92	9,100	5,200b	530	340	860	540	NA	NA	99.35	10.32	89.03	NA
MW-1	11/18/92	15,000	4,100b	220	50	790	340	NA	NA	99.35	10.64	88.71	NA
MW-1	2/9/93	7,000	1,200	130	23	220	160	NA	NA	99.35	8.71	90.64	NA
MW-1	6/16/93	4,800	NA	150	31	320	130	NA	NA	99.35	9.71	89.64	1.73/1.58k
MW-1	8/24/93	10,000	NA	170	27	610	170	NA	NA	99.35	10.23	89.12	1.49/1.70k
MW-1	11/23/93	7,600	NA	190	<12	430	140	NA	NA	99.35	10.48	88.87	1.77/2.80k
MW-1	2/14/94	8,000	NA	150	47	210	68	NA	NA	99.35	9.17	90.18	6.2/2.5k
MW-1	5/25/94	8,800	NA	95	<10	210	63	NA	NA	99.35	9.52	89.83	NA
MW-1	8/4/94	6,200	NA	150	14	350	180	NA	NA	99.35	10.51	88.84	NA
MW-1	11/8/94	7,600	NA	190	<10	480	200	NA	NA	99.35	10.20	89.15	NA
MW-1	2/1/95	8,200	NA	130	21	170	130	NA	NA	99.35	6.94	92.41	NA
MW-1	5/4/95	7,000	NA	130	47	190	180	NA	NA	99.35	8.40	90.95	NA
MW-1	5/16/97	5,600	NA	57	<10	26	29	84	NA	99.35	9.93	89.42	1.5
MW-1	11/3/97	6,900	NA	81	<10	32	30	170	NA	99.35	10.27	89.08	0.8/0.6k
MW-1	6/5/98	4,200	NA	68	7.6	39	69	84	NA	99.35	8.95	90.40	1.0/0.5k
MW-1	11/6/98	6,200	NA	87	<2.5	48	55	200	NA	99.35	10.69	88.66	1.2/1.8
MW-1	6/7/99	5,210	NA	33.6	21.9	7.42	<5.00	153	205	99.35	9.81	89.54	NA
MW-1	6/22/99	NA	NA	NA	NA	NA	NA	NA	NA	99.35	9.55	89.80	0.8

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**Oakland, CA**  
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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MW-1	8/27/99	6,080	NA	46.0	<20.0	<20.0	26.1	303	429	99.35	10.00	89.35	0.7/1.5
MW-1	11/11/99	7,660	NA	92.0	20.4	28.2	46.1	520	542	99.35	10.27	89.08	1.3/1.8

MW-2	1/29/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	13.25	87.90	NA
MW-2	4/30/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	10.94	90.21	NA
MW-2	7/22/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	12.14	89.01	NA
MW-2	2/21/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	10.08	91.07	NA
MW-2	5/22/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	11.52	89.63	NA
MW-2	7/7/92	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.50	89.65	NA
MW-2	8/20/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	11.72	89.43	NA
MW-2	11/18/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	13.06	88.09	NA
MW-2	2/9/93	95	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	10.06	91.09	NA
MW-2	6/16/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	11.60	89.55	NA
MW-2	8/24/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	12.16	88.99	NA
MW-2	11/23/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	12.74	88.41	NA
MW-2	2/14/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	10.91	90.24	NA
MW-2	5/25/94	100	NA	1.2	4.9	2.3	13	NA	NA	101.15	11.06	90.09	NA
MW-2	8/4/94	NA	NA	NA	NA	NA	NA	NA	NA	101.15	12.04	89.11	NA
MW-2	11/8/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	12.38	88.77	NA
MW-2	2/1/95	NA	NA	NA	NA	NA	NA	NA	NA	101.15	8.76	92.39	NA
MW-2	5/4/95	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	10.20	90.95	NA
MW-2	5/16/97	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.28	89.87	NA
MW-2	11/3/97	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.71	89.44	NA
MW-2	6/5/98	NA	NA	NA	NA	NA	NA	NA	NA	101.15	9.85	91.30	NA
MW-2	11/6/98	NA	NA	NA	NA	NA	NA	NA	NA	101.15	12.60	88.55	NA
MW-2	6/7/99	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.03	90.12	NA



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**Oakland, CA**  
**WIC #204-5508-5801**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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MW-2	8/27/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	19.2	34.5	101.15	10.98	90.17	0.71/4.0
MW-2	11/11/99	NA	NA	NA	NA	NA	NA	NA	NA	101.15	10.33	90.82	NA

MW-3	1/29/91	2,300	410a	17	14.1	10	230	NA	NA	99.49	11.09	88.40	NA
MW-3	4/30/91	<50	260	22	4	7	17	NA	NA	99.49	9.57	89.92	NA
MW-3	7/22/91	2,000	310	51	<0.5	<0.5	<0.5	NA	NA	99.49	10.66	88.83	NA
MW-3	2/21/92	2,800	640d	15	2.8	<2.5	12	NA	NA	99.49	8.97	90.52	NA
MW-3	5/22/92	3,700	220b, c	27	11	20	110	NA	NA	99.49	9.32	90.17	NA
MW-3	7/7/92	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.22	89.27	NA
MW-3	8/20/92	13,000	340b	72	85	71	140	NA	NA	99.49	10.44	89.05	NA
MW-3	11/18/92	2,100	430b	21	3.6	11	13	NA	NA	99.49	10.79	88.70	NA
MW-3	2/9/93	3,300	83	21	5.6	6.1	<0.5	NA	NA	99.49	9.35	90.14	NA
MW-3	6/16/93	3,500e	NA	66	6	<0.5	<0.5	NA	NA	99.49	9.56	89.93	NA
MW-3	8/24/93	3,400e	NA	110	<5	<5	<5	NA	NA	99.49	10.51	88.98	NA
MW-3	11/23/93	3,000	NA	36	44	6.9	23	NA	NA	99.49	10.77	88.72	NA
MW-3	2/14/94	4,700g	NA	9.9	5.2	8.8	<5.0	NA	NA	99.49	9.61	89.88	NA
MW-3	5/25/94	1,200	NA	<10	<10	<10	<10	NA	NA	99.49	10.00	89.49	NA
MW-3	8/4/94	2,600	NA	29	<5	14	11	NA	NA	99.49	10.63	88.86	NA
MW-3	11/8/94	2,600	NA	5.5	1.5	1.9	0.9	NA	NA	99.49	11.02	88.47	NA
MW-3	2/1/95	4,600	NA	27	1.2	3.2	2.5	NA	NA	99.49	8.31	91.18	NA
MW-3	5/4/95	1,800	NA	140	11	11	16	NA	NA	99.49	8.70	90.79	NA
MW-3	5/16/97	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.30	89.19	NA
MW-3	11/3/97	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.52	88.97	NA
MW-3	6/5/98	NA	NA	NA	NA	NA	NA	NA	NA	99.49	9.18	90.31	NA
MW-3	11/6/98	NA	NA	NA	NA	NA	NA	NA	NA	99.49	11.00	88.49	NA
MW-3	6/7/99	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.93	88.56	NA

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MW-3	8/27/99	8,600	NA	2,410	135	279	1,390	26,400	29,500	99.49	10.23	89.26	0.8/0.7
MW-3	11/11/99	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.46	89.03	NA

MW-4	1/29/91	2,600	1,300	83	<0.5	<0.5	110	NA	NA	99.24	10.76	88.48	NA
MW-4	4/30/91	2,600	750	22	4	7	17	NA	NA	99.24	9.45	89.79	NA
MW-4	7/22/91	4,300	1,200	120	<0.5	<0.5	10	NA	NA	99.24	10.34	88.90	NA
MW-4	2/21/92	2,000	8,300b	31	6.3	3.5	6.6	NA	NA	99.24	7.60	91.64	NA
MW-4	5/22/92	3,600	3,400b, c	55	5	3	10	NA	NA	99.24	9.90	89.34	NA
MW-4	7/7/92	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.02	89.22	NA
MW-4	8/20/92	3,100	3,400	100	45	14	45	NA	NA	99.24	10.32	88.92	NA
MW-4	11/18/92	2,200	1,400	32	12	4.2	24	NA	NA	99.24	10.51	88.73	NA
MW-4	2/9/93	1,500	180	1.1	<0.5	<0.5	<0.5	NA	NA	99.24	8.13	91.11	NA
MW-4	6/16/93	1,100	NA	120	47	5.1	19	NA	NA	99.24	9.60	89.64	1.86/4.82k
MW-4	8/24/93	2,700	NA	46	11	25	0.97	NA	NA	99.24	10.05	89.19	1.46/1.27k
MW-4	11/23/93	2,500	NA	23	5.7	3.7	16	NA	NA	99.24	10.25	89.99	5.29/6.59k
MW-4	2/14/94	1,500	NA	12	7.8	<2.5	<2.5	NA	NA	99.24	8.83	90.41	2.1/1.9k
MW-4	5/25/94	810	NA	20	<2	<2	4	NA	NA	99.24	9.64	89.60	NA
MW-4	8/4/94	2,300	NA	99	15	6.3	24	NA	NA	99.24	10.62	88.62	NA
MW-4	11/8/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.24	9.28	89.96	NA
MW-4	2/1/95	960	NA	5.6	2.2	2.6	2.8	NA	NA	99.24	6.52	92.72	NA
MW-4	5/4/95	960	NA	20	4.7	3.7	5.6	NA	NA	99.24	8.40	90.84	NA
MW-4	5/16/97	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.35	89.89	NA
MW-4	11/3/97	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.17	89.07	NA
MW-4	6/5/98	NA	NA	NA	NA	NA	NA	NA	NA	99.24	8.85	90.39	NA
MW-4	11/6/98	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.17	89.07	NA
MW-4	6/7/99	NA	NA	NA	NA	NA	NA	NA	NA	99.24	11.06	88.18	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-4	8/27/99	1,520	NA	32.8	6.25	<2.50	5.65	61.5	<2.00	99.24	10.25	88.99	1.0/1.4
MW-4	11/11/99	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.11	89.13	NA
MW-5	1/29/91	3,100	720	86	<0.5	24	28	NA	NA	100.08	11.72	88.36	NA
MW-5	4/30/91	<50	90	46	<0.5	9	9	NA	NA	100.08	10.45	89.63	NA
MW-5	7/22/91	1,700	300	23	<0.5	6,700	10,000	NA	NA	100.08	11.43	88.65	NA
MW-5	2/21/92	240	180h	1	<0.5	<0.5	1	NA	NA	100.08	9.24	90.84	NA
MW-5	5/22/92	6,200	7,100b, c	6	95	56	99	NA	NA	100.08	10.97	89.11	NA
MW-5	7/7/92	NA	NA	NA	NA	NA	NA	NA	NA	100.08	10.98	89.10	NA
MW-5	8/20/92	7,400	120b	56	95	91	150	NA	NA	100.08	11.14	88.94	NA
MW-5	11/18/92	3,300	320b	27	<12.5	20	470	NA	NA	100.08	11.21	88.87	NA
MW-5	2/9/93	160	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.08	10.01	90.07	NA
MW-5	6/16/93	140	NA	0.8	<0.5	<0.5	<0.5	NA	NA	100.08	11.05	89.03	1.53/2.72k
MW-5	8/24/93	1,000	NA	7.9	<1	2.2	<1.5	NA	NA	100.08	11.32	88.76	2.69/1.41k
MW-5	11/23/93	2,000	NA	67	15	11	33	NA	NA	100.08	11.35	88.73	8.20/3.09k
MW-5	2/14/94	660	NA	1.3	<0.5	0.5	0.7	NA	NA	100.08	10.34	89.74	2.0/1.9k
MW-5	5/25/94	670	NA	0.65	<0.5	2.6	<0.5	NA	NA	100.08	10.54	89.54	NA
MW-5	8/4/94	700	NA	5	<0.5	1.2	<0.5	NA	NA	100.08	11.50	88.58	NA
MW-5	11/8/94	810	NA	4.2	<0.5	1.5	0.8	NA	NA	100.08	11.24	88.84	NA
MW-5	2/1/95	110	NA	7	<0.5	<0.5	<0.5	NA	NA	100.08	9.05	91.03	NA
MW-5	5/4/95	260	NA	3.1	1.3	2	1.5	NA	NA	100.08	10.35	89.73	NA
MW-5	5/16/97	440	NA	2.4	3.1	1.6	3.3	7.1	NA	100.08	11.21	88.87	2.9
MW-5	11/3/97	1,400	NA	34	<2.5	2.8	4.4	33	NA	100.08	11.43	88.65	3.0/1.2k
MW-5	6/5/98	230	NA	3.6	0.5	<0.50	1.3	34	NA	100.08	10.35	89.73	3.2/1.4k
MW-5	11/6/98	1800	NA	29	<0.50	3.8	7.1	26	NA	100.08	11.89	88.19	2.6/3.0
MW-5	6/7/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	19.5	NA	100.08	10.28	89.80	NA

**WELL CONCENTRATIONS**  
**Shell-Branded Service Station**  
**630 High Street**  
**Oakland, CA**  
**WIC #204-5508-5801**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-5	6/22/99	NA	NA	NA	NA	NA	NA	NA	NA	100.08	10.74	89.34	0.6
MW-5	8/27/99	254	NA	5.09	1.08	<0.500	<0.500	9.97	12.0	100.08	11.01	89.07	NA
MW-5	11/11/99	549	NA	16.4	3.29	2.18	3.16	18.2	NA	100.08	11.33	88.75	2.3/2.7
MW-6	1/29/91	<50	860	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	10.23	88.33	NA
MW-6	4/30/91	<50	1,100	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	9.15	89.41	NA
MW-6	7/22/91	<50	1,200	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	10.10	88.46	NA
MW-6	2/21/92	<50	60d	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	7.15	91.41	NA
MW-6	5/22/92	<50	650c	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	9.55	89.01	NA
MW-6	7/7/92	NA	NA	NA	NA	NA	NA	NA	NA	98.56	9.53	89.03	NA
MW-6	8/20/92	140e	510c	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	9.84	88.72	NA
MW-6	11/18/92	200e	350	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	10.03	88.53	NA
MW-6	2/9/93	14,000e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	7.91	90.65	NA
MW-6	6/16/93	5,700e	NA	<0.5	22	<0.5	34	NA	NA	98.56	8.74	89.82	8.46/9.73k
MW-6	8/24/93	4,300e	NA	<12.5	<12.5	<12.5	<12.5	NA	NA	98.56	9.66	88.90	2.15/1.52k
MW-6	11/23/93	3,300e	NA	<12	<12	<12	<12	NA	NA	98.56	9.86	88.70	3.86/6.75k
MW-6	2/14/94	14,000e	NA	<12.5	<12.5	<12.5	<12.5	NA	NA	98.56	8.27	90.29	2.3/5.2k
MW-6	5/25/94	<1,000i	NA	<10	<10	<10	<10	NA	NA	98.56	8.89	89.67	NA
MW-6	8/4/94	250j	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	10.10	88.46	NA
MW-6	11/8/94	4,600e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	8.98	89.58	NA
MW-6	2/1/95	710	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	7.07	91.49	NA
MW-6	5/4/95	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	8.56	90.00	NA
MW-6	5/16/97	<500	NA	<5.0	<5.0	<5.0	<5.0	1,700	NA	98.56	9.57	88.99	6.2
MW-6	11/3/97	<500	NA	<5.0	<5.0	<5.0	<5.0	990	NA	98.56	9.76	88.80	1.4/1.0k
MW-6	6/5/98	<50	NA	<0.50	<0.50	<0.50	<0.50	590	NA	98.56	8.50	90.06	1.5/1.1k
MW-6	11/6/98	<250	NA	<2.5	<2.5	<2.5	<2.5	810	NA	98.56	10.00	88.56	2.0/1.4

**WELL CONCENTRATIONS**  
**Shell-Branded Service Station**  
**630 High Street**  
**Oakland, CA**  
**WIC #204-5508-5801**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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MW-6	6/7/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	71.5	NA	98.56	9.35	89.21	NA
MW-6	6/22/99	NA	NA	NA	NA	NA	NA	NA	NA	98.56	9.20	89.36	1.9
MW-6	8/27/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	197	276	98.56	9.52	89.04	1.5/7.8
MW-6	11/11/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	212	NA	98.56	9.87	88.69	1.4/1.7

MW-7	1/29/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.91	88.62	NA
MW-7	4/30/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.38	89.15	NA
MW-7	7/22/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	9.13	88.40	NA
MW-7	2/21/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	6.87	90.66	NA
MW-7	5/22/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.08	89.45	NA
MW-7	7/7/92	NA	NA	NA	NA	NA	NA	NA	NA	97.53	8.82	88.71	NA
MW-7	8/20/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.89	88.64	NA
MW-7	11/18/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	9.54	87.99	NA
MW-7	2/9/93	72	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	7.84	89.69	NA
MW-7	6/16/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	7.80	89.73	NA
MW-7	8/24/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.51	89.02	NA
MW-7	11/23/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.70	88.83	NA
MW-7	2/14/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	7.52	90.01	NA
MW-7	5/25/94	<50	NA	<0.5	0.63	<0.5	0.93	NA	NA	97.53	9.04	88.49	NA
MW-7	8/4/94	NA	NA	NA	NA	NA	NA	NA	NA	97.53	9.80	87.83	NA
MW-7	11/8/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.45	89.08	NA
MW-7	2/1/95	NA	NA	NA	NA	NA	NA	NA	NA	97.53	5.51	92.02	NA
MW-7	5/4/95	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.34	89.19	NA
MW-7	5/16/97	<50	NA	<0.50	<0.50	<0.50	<0.50	2.7	NA	97.53	8.80	88.73	2.8
MW-7	11/3/97	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	97.53	8.95	88.58	1.6/1.2k
MW-7	6/5/98	<50	NA	<0.50	<0.50	<0.50	<0.50	4.3	NA	97.53	7.75	89.78	1.5/1.1k

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-7	11/6/98	<50	NA	<0.50	<0.50	<0.50	<0.50	4.5	NA	97.53	9.20	88.33	4.1/2.2
MW-7	6/7/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	97.53	8.39	89.14	NA
MW-7	6/22/99	NA	NA	NA	NA	NA	NA	NA	NA	97.53	8.43	89.10	0.4
MW-7	6/22/99	NA	NA	NA	NA	NA	NA	NA	NA	97.53	8.43	89.10	0.4
MW-7	8/27/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	4.33	97.53	8.82	88.71	1.3/1.9
MW-7	11/11/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	4.30	NA	97.53	8.64	88.89	1.1/1.0
MW-8	1/29/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	8.47	88.66	NA
MW-8	4/30/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	7.64	89.49	NA
MW-8	7/22/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	8.36	88.77	NA
MW-8	2/21/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	6.54	90.59	NA
MW-8	5/22/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	7.68	89.45	NA
MW-8	7/7/92	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.16	88.97	NA
MW-8	8/20/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	8.25	88.88	NA
MW-8	11/18/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	8.32	88.81	NA
MW-8	2/9/93	63	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	5.58	91.55	NA
MW-8	6/16/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	7.19	89.94	NA
MW-8	8/24/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	7.98	89.15	NA
MW-8	11/23/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	8.09	89.04	NA
MW-8	2/14/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	9.42	87.71	NA
MW-8	5/25/94	<50	NA	<0.5	1.1	<0.5	2.5	NA	NA	97.13	7.18	89.95	NA
MW-8	8/4/94	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.51	88.62	NA
MW-8	11/8/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	6.24	90.89	NA
MW-8	2/1/95	NA	NA	NA	NA	NA	NA	NA	NA	97.13	3.94	93.19	NA
MW-8	5/4/95	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	5.04	92.09	NA
MW-8	5/16/97	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.65	89.48	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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MW-8	11/3/97	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.03	90.10	NA
MW-8	6/5/98	NA	NA	NA	NA	NA	NA	NA	NA	97.13	6.47	90.66	NA
MW-8	11/6/98	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.27	88.86	NA
MW-8	6/7/99	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.69	88.44	NA
MW-8	8/27/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	97.13	7.82	89.31	1.5/2.0
MW-8	11/11/99	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.91	89.22	NA

MW-9	1/29/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.27	91.45	NA
MW-9	4/30/91	<50	<50	0.6	<0.5	<0.5	1.1	NA	NA	99.72	7.62	92.10	NA
MW-9	7/22/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.48	91.24	NA
MW-9	2/21/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	6.91	92.81	NA
MW-9	5/22/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.64	91.08	NA
MW-9	7/7/92	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.55	92.17	NA
MW-9	8/20/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	7.38	92.34	NA
MW-9	11/18/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	10.17	89.55	NA
MW-9	2/9/93	290	110	6	<0.5	<0.5	<0.5	NA	NA	99.72	6.89	92.83	NA
MW-9	6/16/93	90e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.74	90.98	1.51/2.17k
MW-9	8/24/93	50e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.32	91.40	2.86/2.74k
MW-9	11/23/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.17	91.55	3.41/3.78k
MW-9	2/14/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	7.67	92.05	4.6/5.2k
MW-9	5/25/94	56	NA	1.3	4	1.4	8.3	NA	NA	99.72	7.89	91.83	NA
MW-9	8/4/94	NA	NA	NA	NA	NA	NA	NA	NA	99.72	9.76	89.96	NA
MW-9	11/8/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	7.75	91.97	NA
MW-9	2/1/95	NA	NA	NA	NA	NA	NA	NA	NA	99.72	5.66	94.06	NA
MW-9	5/4/95	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	7.40	92.32	NA
MW-9	5/16/97	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.72	92.00	NA

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MW-9	11/3/97	NA	NA	NA	NA	NA	NA	NA	NA	99.72	6.93	92.79	NA
MW-9	6/5/98	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.23	92.49	NA
MW-9	11/6/98	NA	NA	NA	NA	NA	NA	NA	NA	99.72	9.91	89.81	NA
MW-9	6/7/99	NA	NA	NA	NA	NA	NA	NA	NA	99.72	9.03	90.69	NA
MW-9	8/27/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	99.72	7.45	92.27	3.5/4.3
MW-9	11/11/99	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.40	92.32	NA

MW-10	1/29/91	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	10.81	88.18	NA
MW-10	4/30/91	<50	460	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	8.79	90.20	NA
MW-10	7/22/91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.94	89.05	NA
MW-10	2/21/92	<50	120	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.11	89.88	NA
MW-10	5/22/92	<50	310	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.14	89.85	NA
MW-10	7/7/92	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.87	89.12	NA
MW-10	8/20/92	<50	460	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.30	89.69	NA
MW-10	11/18/92	<50	470	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	10.21	88.78	NA
MW-10	2/9/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	7.63	91.36	NA
MW-10	6/16/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	8.57	90.42	NA
MW-10	8/24/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.61	89.38	NA
MW-10	11/23/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	10.10	88.89	NA
MW-10	2/14/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.01	89.98	NA
MW-10	5/25/94	<50	NA	<0.5	1.1	<0.5	1.4	NA	NA	98.99	8.84	90.15	NA
MW-10	8/4/94	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.82	89.17	NA
MW-10	11/8/94	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.40	89.59	NA
MW-10	2/1/95	NA	NA	NA	NA	NA	NA	NA	NA	98.99	6.78	92.21	NA
MW-10	5/4/95	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.00	91.99	NA
MW-10	5/16/97	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	8.66	90.33	NA



**WELL CONCENTRATIONS**  
**Shell-Branded Service Station**  
**630 High Street**  
**Oakland, CA**  
**WIC #204-5508-5801**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-10	11/3/97	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.37	89.62	NA
MW-10	6/5/98	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.27	91.72	NA
MW-10	11/6/98	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.48	89.51	NA
MW-10	6/7/99	NA	NA	NA	NA	NA	NA	NA	NA	98.99	8.72	90.27	NA
MW-10	8/27/99	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	98.99	8.62	90.37	1.6/1.6
MW-10	11/11/99	NA	NA	NA	NA	NA	NA	NA	NA	98.99	8.55	90.44	NA

Abbreviations:

TPPH= Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

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

MTBE = methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not Applicable

n/n = Pre-purge/Post-purge D.O.'s

**WELL CONCENTRATIONS**  
**Shell-Branded Service Station**  
**630 High Street**  
**Oakland, CA**  
**WIC #204-5508-5801**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Notes:

- a =Compounds detected and calculated as TEPH do not match the diesel standard; pattern is characteristic of weathered diesel.
- b =Concentration reported as TEPH is primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.
- c =Concentration reported as TEPH is primarily due to a heavier petroleum product, possibly motor oil or aged diesel fuel.
- d =Compounds detected within the TEPH range are not characteristic of the standard diesel chromatographic pattern.
- e =Concentration reported as TPPH is primarily due to the presence of a discrete hydrocarbon peak not indicative of gasoline.
- f =26 ug/L benzene detected using EPA Method 8240.
- g =The concentration reported as TPPH is due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
- h =Compounds detected and calculated as TPPH appear to be the less volatile constituents of gasoline.
- i =Sample diluted due to high-non hydrocarbon peak.
- j =The positive result has an atypical pattern for gasoline analysis.
- k =Field measurement of DO concentrations before and after well purging.



December 5, 1999

Leah Davis  
Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose, CA 95112

RE: Equiva 630 High Street, Oakland/M911286

Dear Leah Davis

Enclosed are the results of analyses for sample(s) received by the laboratory on November 12, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kimyai  
Project Manager D.M.

CA ELAP Certificate Number 1210





Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose, CA 95112

Project: Equiva  
Project Number: 630 High Street  
Project Manager: Leah Davis

Sampled: 11/11/99  
Received: 11/12/99  
Reported: 12/5/99

**ANALYTICAL REPORT FOR M911286**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M911286-01	Water	11/11/99
MW-5	M911286-02	Water	11/11/99
MW-6	M911286-03	Water	11/11/99
MW-7	M911286-04	Water	11/11/99





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 630 High Street Project Manager: Leah Davis	Sampled: 11/11/99 Received: 11/12/99 Reported: 12/5/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT  
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<b><u>M911286-01</u></b>				
<b>MW-1</b>							<b><u>Water</u></b>	
Purgeable Hydrocarbons	9110767	10/24/99	11/24/99		500	7660	ug/l	1,D
Benzene	"	"	"		5.00	92.0	"	D
Toluene	"	"	"		5.00	20.4	"	D
Ethylbenzene	"	"	"		5.00	28.2	"	D
Xylenes (total)	"	"	"		5.00	46.1	"	D
Methyl tert-butyl ether	"	"	"		25.0	520	"	D
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		125	%	
				<b><u>M911286-02</u></b>				
<b>MW-5</b>							<b><u>Water</u></b>	
Purgeable Hydrocarbons	9110767	10/24/99	11/24/99		100	549	ug/l	1,D
Benzene	"	"	"		1.00	16.4	"	D
Toluene	"	"	"		1.00	3.29	"	D
Ethylbenzene	"	"	"		1.00	2.18	"	D
Xylenes (total)	"	"	"		1.00	3.16	"	D
Methyl tert-butyl ether	"	"	"		5.00	18.2	"	D
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		137	%	2
				<b><u>M911286-03</u></b>				
<b>MW-6</b>							<b><u>Water</u></b>	
Purgeable Hydrocarbons	9110767	10/24/99	11/24/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	212	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		123	%	
				<b><u>M911286-04</u></b>				
<b>MW-7</b>							<b><u>Water</u></b>	
Purgeable Hydrocarbons	9110669	11/22/99	11/22/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	4.30	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		89.3	%	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 630 High Street Project Manager: Leah Davis	Sampled: 11/11/99 Received: 11/12/99 Reported: 12/5/99
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**MTBE by EPA Method 8260A  
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>MW-1</u>				<u>M911286-01</u>			<u>Water</u>	
Methyl tert-butyl ether	9120002	11/30/99	12/1/99		50.0	542	ug/l	D
Surrogate: 1,2-Dichloroethane-d4	"	"	"	70.0-130		97.9	%	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 630 High Street Project Manager: Leah Davis	Sampled: 11/11/99 Received: 11/12/99 Reported: 12/5/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
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**Batch: 9110669**

**Date Prepared: 11/22/99**

**Extraction Method: EPA 5030B [P/T]**

**Blank**

**9110669-BLK1**

Purgeable Hydrocarbons	11/22/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.15	"	70.0-130	91.5			

**LCS**

**9110669-BS1**

Benzene	11/22/99	10.0		11.1	ug/l	70.0-130	111			
Toluene	"	10.0		10.4	"	70.0-130	104			
Ethylbenzene	"	10.0		10.5	"	70.0-130	105			
Xylenes (total)	"	30.0		31.5	"	70.0-130	105			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.38	"	70.0-130	83.8			

**Matrix Spike**

**9110669-MS1**

**M911286-04**

Benzene	11/22/99	10.0	ND	9.87	ug/l	60.0-140	98.7			
Toluene	"	10.0	ND	9.90	"	60.0-140	99.0			
Ethylbenzene	"	10.0	ND	10.0	"	60.0-140	100			
Xylenes (total)	"	30.0	ND	29.8	"	60.0-140	99.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.66	"	70.0-130	86.6			

**Matrix Spike Dup**

**9110669-MSD1**

**M911286-04**

Benzene	11/22/99	10.0	ND	9.50	ug/l	60.0-140	95.0	25.0	3.82	
Toluene	"	10.0	ND	9.49	"	60.0-140	94.9	25.0	4.23	
Ethylbenzene	"	10.0	ND	9.53	"	60.0-140	95.3	25.0	4.81	
Xylenes (total)	"	30.0	ND	28.6	"	60.0-140	95.3	25.0	4.11	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.72	"	70.0-130	87.2			

**Batch: 9110767**

**Date Prepared: 10/24/99**

**Extraction Method: EPA 5030B [P/T]**

**Blank**

**9110767-BLK1**

Purgeable Hydrocarbons	11/24/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.8	"	70.0-130	108			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 630 High Street Project Manager: Leah Davis	Sampled: 11/11/99 Received: 11/12/99 Reported: 12/5/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Date	Spike	Sample	QC	Units	Reporting Limit	Recov.	RPD	RPD	Notes*
	Analyzed	Level	Result	Result		Recov. Limits	%	Limit	%	
<b><u>LCS</u></b>										
	<b><u>9110767-BS1</u></b>									
Benzene	11/24/99	10.0		11.0	ug/l	70.0-130	110			
Toluene	"	10.0		10.9	"	70.0-130	109			
Ethylbenzene	"	10.0		11.1	"	70.0-130	111			
Xylenes (total)	"	30.0		33.7	"	70.0-130	112			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.92	"	70.0-130	99.2			
<b><u>Matrix Spike</u></b>										
	<b><u>9110767-MS1</u></b>		<b><u>M911286-03</u></b>							
Benzene	11/24/99	10.0	ND	11.1	ug/l	60.0-140	111			
Toluene	"	10.0	ND	11.0	"	60.0-140	110			
Ethylbenzene	"	10.0	ND	11.1	"	60.0-140	111			
Xylenes (total)	"	30.0	ND	30.4	"	60.0-140	101			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.0	"	70.0-130	110			
<b><u>Matrix Spike Dup</u></b>										
	<b><u>9110767-MSD1</u></b>		<b><u>M911286-03</u></b>							
Benzene	11/24/99	10.0	ND	11.4	ug/l	60.0-140	114	25.0	2.67	
Toluene	"	10.0	ND	11.3	"	60.0-140	113	25.0	2.69	
Ethylbenzene	"	10.0	ND	11.5	"	60.0-140	115	25.0	3.54	
Xylenes (total)	"	30.0	ND	34.8	"	60.0-140	116	25.0	13.8	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.8	"	70.0-130	118			







Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 630 High Street Project Manager: Leah Davis	Sampled: 11/11/99 Received: 11/12/99 Reported: 12/5/99
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**MTBE by EPA Method 8260A/Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9120002</b>			<b>Date Prepared: 11/30/99</b>			<b>Extraction Method: EPA 5030B [P/T]</b>				
<b>Blank</b>										
Methyl tert-butyl ether	11/30/99			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		8.79	"	70.0-130	87.9			
<b>Blank</b>										
Methyl tert-butyl ether	12/1/99			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		8.97	"	70.0-130	89.7			
<b>Blank</b>										
Methyl tert-butyl ether	12/2/99			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		8.70	"	70.0-130	87.0			
<b>LCS</b>										
Methyl tert-butyl ether	11/30/99	10.0		8.36	ug/l	70.0-130	83.6			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		8.65	"	70.0-130	86.5			
<b>LCS</b>										
Methyl tert-butyl ether	12/1/99	10.0		8.57	ug/l	70.0-130	85.7			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		8.34	"	70.0-130	83.4			
<b>LCS</b>										
Methyl tert-butyl ether	12/2/99	10.0		8.50	ug/l	70.0-130	85.0			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		8.41	"	70.0-130	84.1			
<b>Matrix Spike</b>										
Methyl tert-butyl ether	11/30/99	1000	466	1160	ug/l	70.0-130	69.4			3,D
Surrogate: 1,2-Dichloroethane-d4	"	10.0		8.51	"	70.0-130	85.1			
<b>Matrix Spike Dup</b>										
Methyl tert-butyl ether	11/30/99	1000	466	1250	ug/l	70.0-130	78.4	25.0	12.2	D
Surrogate: 1,2-Dichloroethane-d4	"	10.0		8.66	"	70.0-130	86.6			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 630 High Street Project Manager: Leah Davis	Sampled: 11/11/99 Received: 11/12/99 Reported: 12/5/99
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**Notes and Definitions**

#	Note
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- D Data reported from a dilution.
- 1 Chromatogram Pattern: Gasoline C6-C12
- 2 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 3 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference



# BLAINE

TECH SERVICES INC.

1880 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

CHAIN OF CUSTODY

991111 F1

CLIENT  
Equiva - Karen Petryna

SITE  
630 High Street  
Oakland, CA

SAMPLE I.D.	Date	Time	MATRIX		CONTAINERS		C = COMPOSITE ALL CONTAINERS	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010
			S = SOIL W = H2O	TOTAL	HCL VOAS								
MW-1	11-11-99	1005	W	3				X	X				01
MW-5		945						X	X				02
MW-6		920						X	X				03
MW-7		857						X	X				04

CONDUCT ANALYSIS TO DETECT

LAB SEQUOIA

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

EPA  RWQCB REGION

LIA

OTHER

M911284

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995751

Send report to Blaine Tech Services

Attn: Ann Pember

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
* Confirm Highest MTBE Hit by 8260			

SAMPLING COMPLETED 11-11-99 1005

SAMPLING PERFORMED BY MIKE STEWART

RELEASED BY [Signature] DATE 11-12-99 TIME 12:25

RECEIVED BY [Signature] DATE 11/12/99 TIME 12:24

RELEASED BY [Signature] DATE 11/12/99 TIME 13:32

RECEIVED BY [Signature] DATE 11/12/99 TIME 13:32

SHIPPED VIA DATE SENT TIME SENT COOLER #



# EQUIVA WELL MONITORING DATA SHEET

Project #: <u>991111 F1</u>	Job # <u>204-5508-5801</u>
Sampler: <u>MIKE S.</u>	Date: <u>11-11-99</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>1321</u>	Depth to Water: <u>10.27</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer      Sampling Method:  Bailer  
 Middleburg       Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

Other: \_\_\_\_\_

<u>2.3</u>	X	<u>3</u>	=	<u>7.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
957	72.1	6.8	2059	93	3	1.3 DO. mg/L
959	71.7	6.8	2063	86	5	0002
1002	71.5	6.8	2061	89	7	1.8 DO mg/L
						Foam Reaction with HCL in UOA's

Did well dewater? Yes  No       Gallons actually evacuated: 7

Sampling Time: 1005      Sampling Date: 11-11-99

Sample I.D.: MW-1      Laboratory: Sequoia BC Other \_\_\_\_\_

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

# EQUIVA WELL MONITORING DATA SHEET

Project #: <u>99111 E1</u>	Job #: <u>204-5508-5801</u>
Sampler: <u>Mike S.</u>	Date: <u>11-11-99</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>17.80</u>	Depth to Water: <u>11.33</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer      Sampling Method:  Bailer  
 Middleburg       Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

<u>4.2</u>	x	<u>3</u>	=	<u>12.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Concentrations
<u>939</u>	<u>71.5</u>	<u>6.9</u>	<u>877</u>	<u>40</u>	<u>5</u>	<u>0.0 mg/l</u> <u>2.3</u>
<u>940</u>	<u>71.3</u>	<u>6.8</u>	<u>913</u>	<u>33</u>	<u>10</u>	
<u>941</u>	<u>71.7</u>	<u>6.8</u>	<u>923</u>	<u>31</u>	<u>13</u>	<u>0.0 mg/l</u> <u>2.7</u>

Did well dewater? Yes  No  Gallons actually evacuated: 13

Sampling Time: 945      Sampling Date: 11-11-99

Sample I.D.: MW-5      Laboratory: Sequoia BC Other \_\_\_\_\_

Analyzed for:  TPH-G    BTEX    MTBE   TPH-D   Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## EQUIVA WELL MONITORING DATA SHEET

Project #: <u>99111 F1</u>	Job # <u>204-5508-5801</u>
Sampler: <u>MIKE S.</u>	Date: <u>11-11-99</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u>    </u>
Total Well Depth: <u>19.45</u>	Depth to Water: <u>9.87</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer      Sampling Method:  Bailer  
 Middleburg       Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

Other: \_\_\_\_\_

<u>6.2</u>	x	<u>3</u>	=	<u>18.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>913</u>	<u>73.6</u>	<u>7.1</u>	<u>913</u>	<u>30</u>	<u>7</u>	<u>DO. <sup>mg/l</sup> 1.4</u>
<u>914</u>	<u>73.1</u>	<u>7.0</u>	<u>927</u>	<u>22</u>	<u>14</u>	
<u>915</u>	<u>72.7</u>	<u>7.0</u>	<u>929</u>	<u>19</u>	<u>19</u>	<u>DO. <sup>mg/l</sup> 1.7</u>

Did well dewater? Yes  No  Gallons actually evacuated: 19

Sampling Time: 920 Sampling Date: 11-11-99

Sample I.D.: MW-6 Laboratory: (Sequoia) BC Other \_\_\_\_\_

Analyzed for: (TPH-D) (BTEX) (MTBE) TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

# EQUIVA WELL MONITORING DATA SHEET

Project #: <del>99</del> 99111 F1	Job # <del>204-5508</del> - 204-5508-580
Sampler: Mike S.	Date: 11-11-99
Well I.D.: MW-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 19.40	Depth to Water: 8.64
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer      Sampling Method:  Bailer  
 Middleburg       Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

6.9	x	3	=	20.9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
850	69.5	7.3	1047	69	7	DO. <sup>mg/l</sup> 1.1
851	69.7	7.2	1048	71	14	
852	69.3	7.2	<del>1048</del> 1053	55	21	DO. <sup>mg/l</sup> 1.0

Did well dewater? Yes  No  Gallons actually evacuated: 21

Sampling Time: ~~850~~ 857      Sampling Date: 11-11-99

Sample I.D.: MW-7      Laboratory: Sequoia BC Other \_\_\_\_\_

Analyzed for: TPH-S BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV