

CAMBRIA

RO264

CIVIL AND ENVIRONMENTAL
PROTECTION

99 APR 20 PM 1:26

LOP 36B

April 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 - First Quarter 1999**
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 first quarter of 1999 is summarized below:

- Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water levels in Wells EW-1, MW-2 through MW-5, OMW-6, MW-8, OMW-9, OMW-10, and OMW-12 and collected a sample from OMW-12 on February 8, 1999. The sample was transported to Sequoia Analytical of Redwood City, California for chemical analysis.
- Ground water level measurement data collected on February 8, 1999 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 0.02 to 0.03.

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.

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

C A M B R I A

A chemical concentration map is presented as Plate 2. Field monitoring data and chemical analytical data are presented in a summary table in Blaine's ground water monitoring report (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.



Thomas Magney
Project Geologist

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



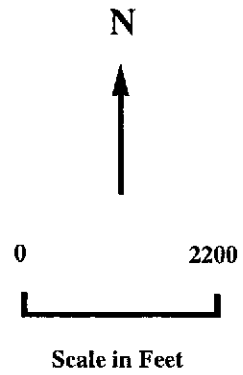
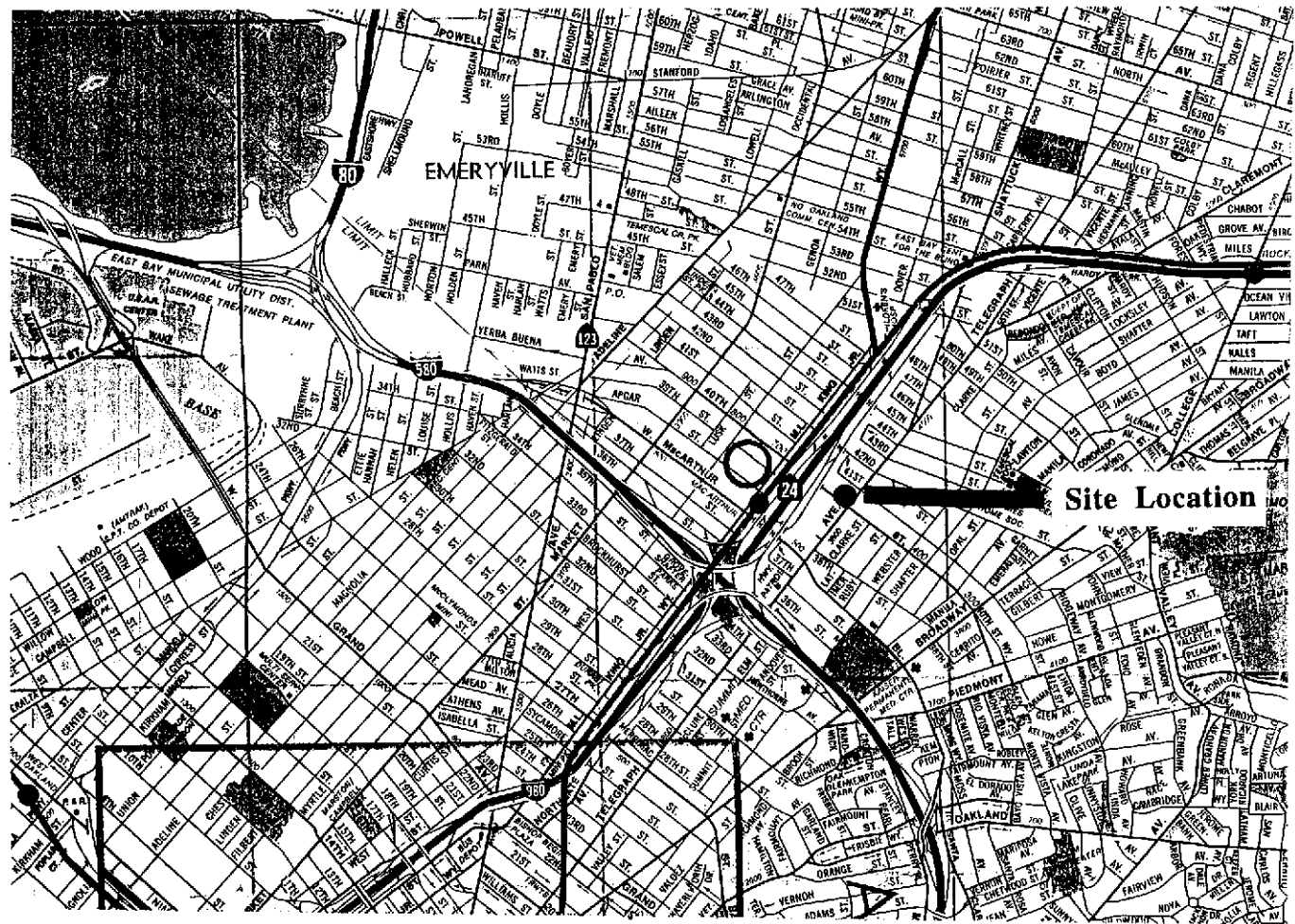
Attachments

- 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



Note: Vicinity Map taken from California State AAA map.

PLATE
1

SITE VICINITY MAP
Former Shell Service Station
500 40th Avenue
Oakland, California

CAMBRIA
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Drawn By: JLP

Date: 5-15-95

Approved By: *rlh*

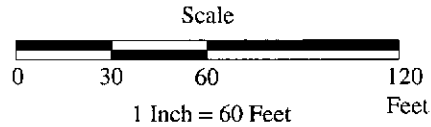
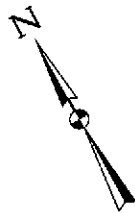
Date: 4-15-99

EXPLANATION

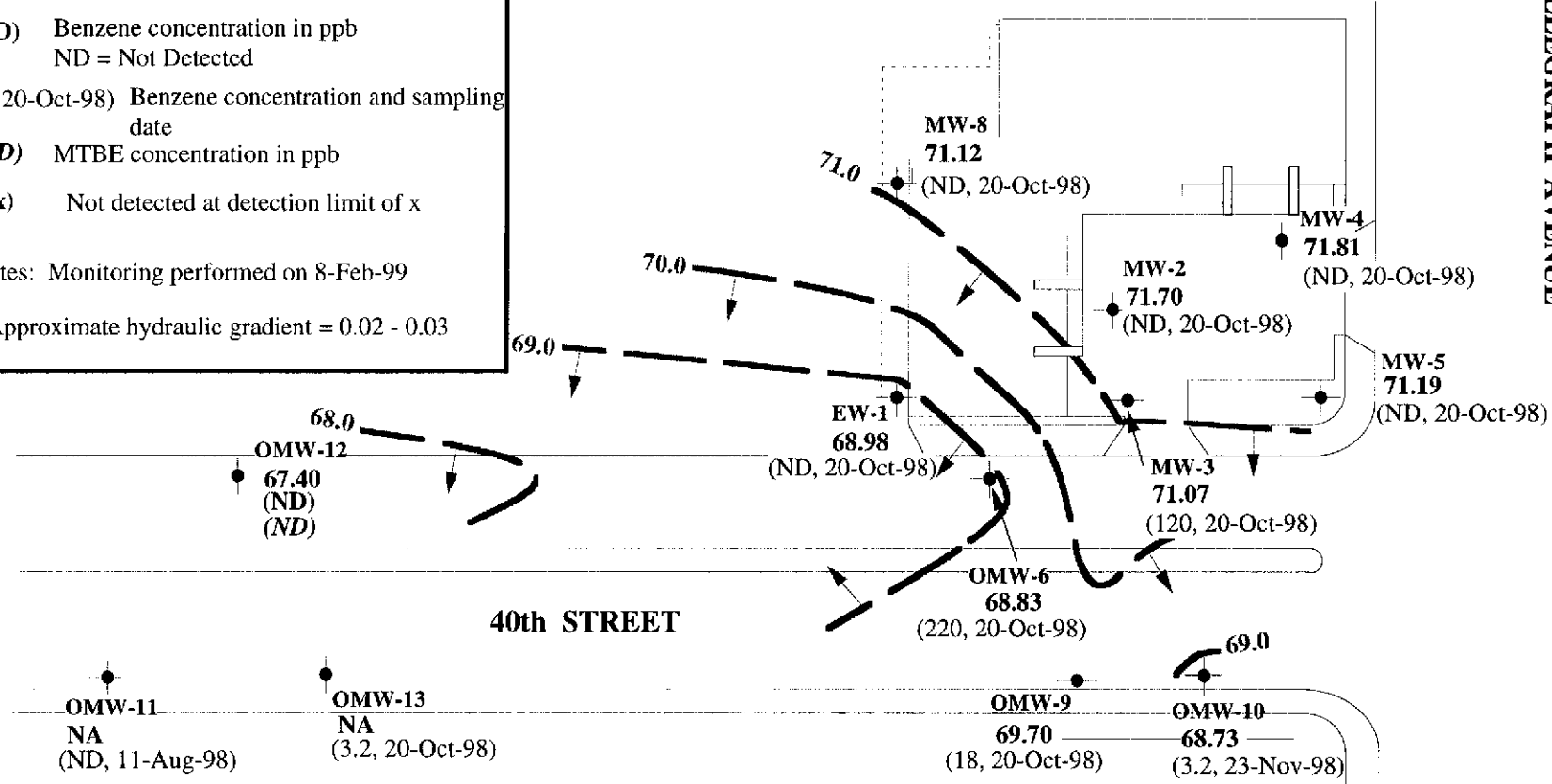
- Ground Water Monitoring Well
- Ground water elevation contour in feet referenced to mean sea level (MSL). Arrows indicate approximate ground water flow direction
- 67.41 Ground water elevation in feet above MSL
- NM Elevation not measured
- (ND) Benzene concentration in ppb
ND = Not Detected
- (ND, 20-Oct-98) Benzene concentration and sampling date
- (ND) MTBE concentration in ppb
- (<x) Not detected at detection limit of x

Notes: Monitoring performed on 8-Feb-99

Approximate hydraulic gradient = 0.02 - 0.03



TELEGRAPH AVENUE



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

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Drawn By: TNM

Date: 15-Apr-99

Approved By: *[Signature]*

Date: 4-15-99

Appendix A

**Blaine Tech Services Inc.
Ground Water Monitoring Report**

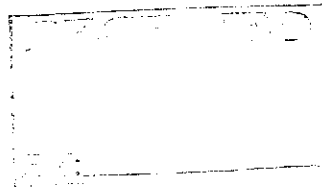
BLAINE
TECH SERVICES INC.



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

March 30, 1999

Karen Petryna
Equiva Services LLC
P.O. Box 6249
Carson, CA 90749-6249



First Quarter 1999 Groundwater Monitoring at
Shell-branded Service Station
500 40th/Telegraph
Oakland, CA

Monitoring performed on February 8, 1999

Groundwater Monitoring Report **990208-C-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, appropriate 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. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

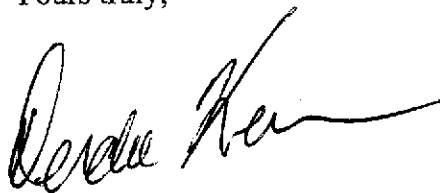
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Deidre Kerwin
Operations Manager

DK/lid

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
500 40th/Telegraph
Oakland, CA
Wic #204-5508-4903

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)	SPH Thickness (ft.)
EW-1	08/06/1991	180	<50	5.4	<0.5	0.9	0.7	NA	NA	78.26	NA	NA	NA
EW-1	10/30/1991	70	<50	2.6	<0.5	<0.5	<0.5	NA	NA	78.26	12.72	65.54	0.00
EW-1	02/15/1992	<50	NA	2.1	<0.5	<0.5	<0.5	NA	NA	78.26	NA	NA	NA
EW-1	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	78.26	11.71	66.55	0.00
EW-1	05/22/1992	99	NA	4.1	<0.5	<0.5	<0.5	NA	NA	78.26	12.84	65.42	0.00
EW-1	08/19/1992	140	NA	6.6	<0.5	<0.5	<0.5	NA	NA	78.26	13.04	65.22	0.00
EW-1	11/18/1992	56	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	78.26	12.90	65.36	0.00
EW-1	02/11/1993	63	NA	<0.5	<0.5	<0.5	0.9	NA	NA	78.26	11.28	66.98	0.00
EW-1	05/19/1993	60a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	78.26	12.52	65.74	0.00
EW-1	08/18/1993	NA	NA	NA	NA	NA	NA	NA	NA	78.26	12.48	65.78	0.00
EW-1	11/17/1993	170	NA	17	<0.5	<0.5	<0.5	NA	NA	78.26	12.63	65.63	0.00
EW-1	02/18/1994	NA	NA	NA	NA	NA	NA	NA	NA	78.26	11.38	66.88	0.00
EW-1	05/26/1994	<50	NA	3.5	<0.5	<0.5	0.51	NA	NA	78.26	12.02	66.24	0.00
EW-1	08/29/1994	NA	NA	NA	NA	NA	NA	NA	NA	78.26	12.76	65.50	0.00
EW-1	11/11/1994	200	NA	13	0.88	<0.5	<0.5	NA	NA	78.26	11.08	67.18	0.00
EW-1	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	78.26	10.88	67.38	0.00
EW-1	05/07/1995	90	NA	8.6	<0.5	<0.5	<0.5	NA	NA	78.26	11.32	66.94	0.00
EW-1	08/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	78.26	11.76	66.50	0.00
EW-1	11/02/1995	240	NA	12	1.5	0.6	1.9	NA	NA	78.26	12.80	65.46	0.00
EW-1	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	78.26	10.15	68.11	0.00
EW-1	05/04/1996	<50	NA	1.4	<0.50	<0.50	<0.50	4.1	NA	78.26	12.26	66.00	0.00
EW-1	09/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	78.26	13.43	64.83	0.00
EW-1	11/24/1996	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	78.26	12.24	66.02	0.00
EW-1	02/23/1997	NA	NA	NA	NA	NA	NA	NA	NA	78.26	12.20	66.06	0.00
EW-1	05/01/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	78.26	12.97	65.29	0.00

WELL CONCENTRATIONS
Shell-branded Service Station
500 40th/Telegraph
Oakland, CA
Wic #204-5508-4903

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)	SPH Thickness (ft.)
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EW-1	07/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	78.26	13.43	64.83	0.00
EW-1	11/04/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	NA	78.26	13.20	65.06	0.00
EW-1	01/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	78.26	10.52	67.74	0.00
EW-1	05/11/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	78.26	12.35	65.91	0.00
EW-1	08/11/1998	NA	NA	NA	NA	NA	NA	NA	NA	78.26	12.90	65.36	0.00
EW-1	10/20/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	78.26	13.34	64.92	0.00
EW-1	02/08/1999	NA	NA	NA	NA	NA	NA	NA	NA	78.26	9.28	68.98	0.00

EW-1 (D)	02/11/1993	63	NA	<0.5	<0.5	<0.5	0.8	NA	NA	78.26	NA	NA	NA
EW-1 (D)	11/17/1993	190	NA	17	<0.5	<0.5	<0.5	NA	NA	78.26	NA	NA	NA

MW-2	08/06/1991	1200	230	59	1.1	38	56	NA	NA	80.80	12.12	68.68	0.00
MW-2	10/30/1991	520	300	56	<0.5	56	100	NA	NA	80.80	11.70	69.10	0.00
MW-2	02/15/1992	2300	2200a	87	<2.5	88	150	NA	NA	80.80	NA	NA	NA
MW-2	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	80.80	11.10	69.70	0.00
MW-2	05/22/1992	700	NA	24	1.0	34	48	NA	NA	80.80	12.12	68.68	0.00
MW-2	08/19/1992	740	NA	21	<2.5	24	26	NA	NA	80.80	12.18	68.62	0.00
MW-2	11/18/1992	920	NA	19	<2.5	30	51	NA	NA	80.80	12.03	68.77	0.00
MW-2	02/11/1993	1000	NA	25	6.0	43	73	NA	NA	80.80	11.15	69.65	0.00
MW-2	05/19/1993	570	NA	19	<0.5	37	42	NA	NA	80.80	11.80	69.00	0.00
MW-2	08/18/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	80.80	NA	NA	NA
MW-2	11/17/1993	250	NA	10	<1.0	26	20	NA	NA	80.80	12.00	68.80	0.00
MW-2	02/18/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	80.80	NA	NA	NA
MW-2	05/26/1994	620	NA	17	1.4	25	31	NA	NA	80.80	11.61	69.19	0.00
MW-2	08/29/1994	NA	NA	NA	NA	NA	NA	NA	NA	80.80	11.96	68.84	0.00
MW-2	11/11/1994	1100	NA	28	3.1	39	65	NA	NA	80.80	10.74	70.06	0.00

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MW-2	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	80.80	11.58	69.22	0.00
MW-2	05/07/1995	700	NA	15	<0.5	35	39	NA	NA	80.80	10.98	69.82	0.00
MW-2	08/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	80.80	11.90	68.90	0.00
MW-2	11/02/1995	140	NA	2.3	<0.5	4.4	3.7	NA	NA	80.80	12.12	68.68	0.00
MW-2	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	80.80	10.25	70.55	0.00
MW-2	05/04/1996	140	NA	2.1	<0.50	4.6	4.9	6.2	NA	80.80	11.30	69.50	0.00
MW-2	09/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	80.80	15.10	65.70	0.00
MW-2	11/24/1996	620	NA	9.7	<0.50	2.0	46	<2.5	NA	80.80	12.13	68.67	0.00
MW-2	02/23/1997	NA	NA	NA	NA	NA	NA	NA	NA	80.80	12.01	68.79	0.00
MW-2	05/01/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	80.80	12.94	67.86	0.00
MW-2	07/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	80.80	13.22	67.58	0.00
MW-2	11/04/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	NA	80.80	13.00	67.80	0.00
MW-2	01/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	80.80	10.47	70.33	0.00
MW-2	05/11/1998	59	NA	0.56	<0.50	<0.50	<0.50	<2.5	NA	80.80	12.49	68.31	0.00
MW-2	08/11/1998	NA	NA	NA	NA	NA	NA	NA	NA	80.80	12.82	67.98	0.00
MW-2	10/20/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	80.80	13.13	67.67	0.00
MW-2	02/08/1999	NA	NA	NA	NA	NA	NA	NA	NA	80.80	9.10	71.70	0.00

MW-2 (D)	08/19/1992	840	NA	31	<2.5	36	43	NA	NA	80.80	NA	NA	NA
MW-2 (D)	11/18/1992	870	NA	25	<2.5	34	52	NA	NA	80.80	NA	NA	NA
MW-2 (D)	05/26/1994	600	NA	16	1.2	24	29	NA	NA	80.80	NA	NA	NA

MW-3	08/06/1991	1900	470	220	57	57	260	NA	NA	79.60	11.12	68.48	0.00
MW-3	10/30/1991	1900	480	160	28	63	180	NA	NA	79.60	10.93	68.67	0.00
MW-3	02/15/1992	2300	780a	170	31	59	180	NA	NA	79.60	NA	NA	NA
MW-3	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	79.60	10.54	69.06	0.00

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MW-3	05/22/1992	1500	NA	160	20	44	140	NA	NA	79.60	10.79	68.81	0.00
MW-3	08/19/1992	4500	NA	210	64	89	310	NA	NA	79.60	11.23	68.37	0.00
MW-3	11/18/1992	2400	NA	81	14	39	140	NA	NA	79.60	11.20	68.40	0.00
MW-3	02/11/1993	3000	NA	200	47	90	260	NA	NA	79.60	11.00	68.60	0.00
MW-3	05/19/1993	2100	NA	240	44	100	330	NA	NA	79.60	11.16	68.44	0.00
MW-3	08/18/1993	NA	NA	NA	NA	NA	NA	NA	NA	79.60	11.35	68.25	0.00
MW-3	11/17/1993	1000	NA	110	13	60	150	NA	NA	79.60	11.10	68.50	0.00
MW-3	02/18/1994	NA	NA	NA	NA	NA	NA	NA	NA	79.60	10.76	68.84	0.00
MW-3	05/26/1994	1100	NA	200	17	29	58	NA	NA	79.60	11.85	67.75	0.00
MW-3	08/29/1994	NA	NA	NA	NA	NA	NA	NA	NA	79.60	10.40	69.20	0.00
MW-3	11/11/1994	870	NA	130	10	38	87	NA	NA	79.60	10.04	69.56	0.00
MW-3	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	79.60	10.06	69.54	0.00
MW-3	05/07/1995	1300	NA	180	7.5	54	110	NA	NA	79.60	10.11	69.49	0.00
MW-3	08/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	79.60	11.02	68.58	0.00
MW-3	11/02/1995	370	NA	36	1.8	16	21	NA	NA	79.60	10.97	68.63	0.00
MW-3	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	79.60	9.61	69.99	0.00
MW-3	05/04/1996	460	NA	54	1.9	18	28	20	NA	79.60	10.40	69.20	0.00
MW-3	09/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	79.60	13.55	66.05	0.00
MW-3	11/24/1996	2800	NA	290	<10	29	39	<50	NA	79.60	11.83	67.77	0.00
MW-3	02/23/1997	NA	NA	NA	NA	NA	NA	NA	NA	79.60	11.81	67.79	0.00
MW-3	05/01/1997	2000	NA	120	<5.0	53	14	60	NA	79.60	12.34	67.26	0.00
MW-3	07/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	79.60	12.86	66.74	0.00
MW-3	11/04/1997	470	NA	120	<2.5	<2.5	7.3	<25	NA	79.60	12.62	66.98	0.00
MW-3	01/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	79.60	10.78	68.82	0.00
MW-3	05/11/1998	4400	NA	260	<10	220	36	170	NA	79.60	11.98	67.62	0.00
MW-3	08/11/1998	NA	NA	NA	NA	NA	NA	NA	NA	79.60	12.38	67.22	0.00

WELL CONCENTRATIONS
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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)	SPH Thickness (ft.)
MW-3	10/20/1998	1700	NA	120	<2.0	18	7.1	19	NA	79.60	12.55	67.05	0.00
MW-3	02/08/1999	NA	NA	NA	NA	NA	NA	NA	NA	79.60	8.53	71.07	0.00
MW-3 (D)	11/11/1994	1000	NA	120	10	42	92	NA	NA	79.60	NA	NA	NA
MW-3 (D)	10/20/1998	1400	NA	120	<5.0	18	<5.0	80	NA	79.60	NA	NA	NA
MW-4	08/06/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	12.36	68.64	0.00
MW-4	10/30/1991	50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	12.02	68.98	0.00
MW-4	02/15/1992	90	NA	0.9	<0.5	<0.5	<0.5	NA	NA	81.00	NA	NA	NA
MW-4	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	81.00	11.34	69.66	0.00
MW-4	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	12.35	68.65	0.00
MW-4	08/19/1992	82a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	12.41	68.59	0.00
MW-4	11/18/1992	85a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	12.28	68.72	0.00
MW-4	02/11/1993	62a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	11.65	69.35	0.00
MW-4	05/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	11.92	69.08	0.00
MW-4	08/18/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	81.00	NA	NA	NA
MW-4	11/17/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	12.24	68.76	0.00
MW-4	02/18/1994	NA	NA	NA	NA	NA	NA	NA	NA	81.00	11.69	69.31	0.00
MW-4	05/26/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	12.00	69.00	0.00
MW-4	11/11/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	11.30	69.70	0.00
MW-4	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	81.00	10.99	70.01	0.00
MW-4	05/07/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	11.69	69.31	0.00
MW-4	08/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	81.00	11.72	69.28	0.00
MW-4	11/02/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.00	12.23	68.77	0.00
MW-4	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	81.00	11.13	69.87	0.00
MW-4	05/04/1996	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	81.00	11.80	69.20	0.00

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MW-4	09/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	81.00	13.27	67.73	0.00
MW-4	11/24/1996	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	81.00	12.42	68.58	0.00
MW-4	02/23/1997	NA	NA	NA	NA	NA	NA	NA	NA	81.00	12.38	68.62	0.00
MW-4	05/01/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	81.00	13.08	67.92	0.00
MW-4	07/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	81.00	13.73	67.27	0.00
MW-4	11/04/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	81.00	NA	NA	NA
MW-4	01/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	81.00	11.41	69.59	0.00
MW-4	05/11/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	81.00	NA	NA	NA
MW-4	08/11/1998	NA	NA	NA	NA	NA	NA	NA	NA	81.00	13.05	67.95	0.00
MW-4	10/20/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	81.00	13.30	67.70	0.00
MW-4	02/08/1999	NA	NA	NA	NA	NA	NA	NA	NA	81.00	9.19	71.81	0.00
MW-5	08/06/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	13.02	68.48	0.00
MW-5	10/30/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	12.73	68.77	0.00
MW-5	02/15/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	NA	NA	NA
MW-5	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	81.50	12.52	68.98	0.00
MW-5	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	13.05	68.45	0.00
MW-5	08/19/1992	55a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	13.04	68.46	0.00
MW-5	11/18/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	12.91	68.59	0.00
MW-5	02/11/1993	59a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	12.44	69.06	0.00
MW-5	05/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	12.84	68.66	0.00
MW-5	11/17/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	12.89	68.61	0.00
MW-5	02/18/1994	NA	NA	NA	NA	NA	NA	NA	NA	81.50	12.30	69.20	0.00
MW-5	05/26/1994	<50	NA	1.8	2.4	1.3	4.9	NA	NA	81.50	12.73	68.77	0.00
MW-5	08/29/1994	NA	NA	NA	NA	NA	NA	NA	NA	81.50	12.88	68.62	0.00
MW-5	11/11/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	12.20	69.30	0.00

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MW-5	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	81.50	11.78	69.72	0.00
MW-5	05/07/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	12.47	69.03	0.00
MW-5	08/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	81.50	12.83	68.67	0.00
MW-5	11/02/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	13.02	68.48	0.00
MW-5	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	81.50	12.11	69.39	0.00
MW-5	05/04/1996	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	81.50	13.20	68.30	0.00
MW-5	09/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	81.50	14.24	67.26	0.00
MW-5	11/24/1996	<50	NA	<0.50	<0.5	<0.50	<0.50	<2.5	NA	81.50	13.58	67.92	0.00
MW-5	02/23/1997	NA	NA	NA	NA	NA	NA	NA	NA	81.50	13.54	67.96	0.00
MW-5	05/01/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	81.50	14.17	67.33	0.00
MW-5	07/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	81.50	14.35	67.15	0.00
MW-5	11/04/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	81.50	14.30	67.20	0.00
MW-5	01/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	81.50	12.86	68.64	0.00
MW-5	05/11/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	81.50	13.89	67.61	0.00
MW-5	08/11/1998	NA	NA	NA	NA	NA	NA	NA	NA	81.50	14.20	67.30	0.00
MW-5	10/20/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	81.50	14.41	67.09	0.00
MW-5	02/08/1999	NA	NA	NA	NA	NA	NA	NA	NA	81.50	10.31	71.19	0.00

MW-5 (D)	05/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	81.50	NA	NA	NA
MW-5 (D)	11/04/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	81.50	NA	NA	NA

OMW-6	08/06/1991	26000	3600	910	420	560	1900	NA	NA	77.90	10.71	67.19	0.00
OMW-6	10/30/1991	20000	4600	710	240	410	1700	NA	NA	77.90	10.50	67.40	0.00
OMW-6	02/15/1992	35000	27000	690	420	650	3000	NA	NA	77.90	NA	NA	NA
OMW-6	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	77.90	9.24	68.66	0.00
OMW-6	05/22/1992	15000	NA	460	110	300	1600	NA	NA	77.90	10.13	67.77	0.00

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OMW-6	08/19/1992	24000	NA	600	300	460	2000	NA	NA	77.90	10.16	67.74	0.00
OMW-6	11/18/1992	29000	NA	480	250	450	2300	NA	NA	77.90	9.94	67.96	0.00
OMW-6	02/11/1993	24000	NA	1300	250	630	2400	NA	NA	77.90	9.20	68.70	0.00
OMW-6	05/19/1993	18000	NA	750	180	520	2500	NA	NA	77.90	10.64	67.86	0.00
OMW-6	08/18/1993	NA	NA	NA	NA	NA	NA	NA	NA	77.90	10.04	67.86	0.00
OMW-6	11/17/1993	14000	NA	260	64	430	1900	NA	NA	77.90	10.12	67.78	0.00
OMW-6	02/18/1994	NA	NA	NA	NA	NA	NA	NA	NA	77.90	9.65	68.25	0.00
OMW-6	05/26/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	77.90	NA	NA	NA
OMW-6	08/29/1994	NA	NA	NA	NA	NA	NA	NA	NA	77.90	NA	NA	NA
OMW-6	11/11/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	77.90	NA	NA	NA
OMW-6	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	77.90	8.96	68.94	0.00
OMW-6	05/07/1995	11000	NA	460	82	280	540	NA	NA	77.90	8.64	69.26	0.00
OMW-6	08/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	77.90	12.09	65.81	0.00
OMW-6	02/24/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	77.90	NA	NA	NA
OMW-6	05/04/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	77.90	NA	NA	NA
OMW-6	09/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	77.90	14.45	63.45	0.00
OMW-6	11/24/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	77.90	NA	NA	NA
OMW-6	02/23/1997	NA	NA	NA	NA	NA	NA	NA	NA	77.90	13.12	64.78	0.00
OMW-6	05/01/1997	17000	NA	630	52	610	1300	380	NA	77.90	13.19	64.71	0.00
OMW-6	07/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	77.90	13.52	64.38	0.00
OMW-6	11/04/1997	10000	NA	610	23	410	820	<100	NA	77.90	13.12	64.78	0.00
OMW-6	01/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	77.90	12.19	65.71	0.00
OMW-6	05/11/1998	14000	NA	500	32	900	1000	110	NA	77.90	12.71	65.19	0.00
OMW-6	08/11/1998	NA	NA	NA	NA	NA	NA	NA	NA	77.90	13.18	64.72	0.00
OMW-6	10/20/1998	7500	NA	220	<20	290	130	120	NA	77.90	13.11	64.79	0.00
OMW-6	02/08/1999	NA	NA	NA	NA	NA	NA	NA	NA	77.90	9.07	68.83	0.00

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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)	SPH Thickness (ft.)
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OMW-6 (D)	05/07/1995	14000	NA	480	61	230	370	NA	NA	77.90	NA	NA	NA
OMW-6 (D)	05/01/1997	20000	NA	630	54	630	1300	500	<20	77.90	NA	NA	NA
OMW-6 (D)	05/11/1998	14000	NA	490	<25	900	980	370	NA	77.90	NA	NA	NA

MW-8	08/06/1991	90	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	13.08	66.83	0.00
MW-8	10/30/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	12.87	67.04	0.00
MW-8	02/15/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	NA	NA	NA
MW-8	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	79.91	11.54	68.37	0.00
MW-8	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	12.32	67.59	0.00
MW-8	08/19/1992	60	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	12.58	67.33	0.00
MW-8	11/18/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	12.47	67.44	0.00
MW-8	02/11/1993	76a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	11.02	68.89	0.00
MW-8	05/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	11.78	68.13	0.00
MW-8	08/18/1993	NA	NA	NA	NA	NA	NA	NA	NA	79.91	12.22	67.69	0.00
MW-8	11/17/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	12.25	67.66	0.00
MW-8	02/18/1994	NA	NA	NA	NA	NA	NA	NA	NA	79.91	10.56	69.35	0.00
MW-8	05/26/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	11.30	68.61	0.00
MW-8	08/29/1994	NA	NA	NA	NA	NA	NA	NA	NA	79.91	11.90	68.01	0.00
MW-8	11/11/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	10.12	69.79	0.00
MW-8	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	79.91	11.64	68.27	0.00
MW-8	05/07/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	10.77	69.14	0.00
MW-8	08/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	79.91	10.92	68.99	0.00
MW-8	11/02/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	79.91	11.93	67.98	0.00
MW-8	02/24/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	79.91	NA	NA	NA
MW-8	05/04/1996	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	79.91	11.66	68.25	0.00

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MW-8	09/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	79.91	9.84	70.07	0.00
MW-8	11/24/1996	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	79.91	11.53	68.38	0.00
MW-8	02/23/1997	NA	NA	NA	NA	NA	NA	NA	NA	79.91	11.54	68.37	0.00
MW-8	05/01/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	79.91	12.37	67.54	0.00
MW-8	07/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	79.91	12.73	67.18	0.00
MW-8	11/04/1997	50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	NA	79.91	12.60	67.31	0.00
MW-8	01/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	79.91	9.73	70.18	0.00
MW-8	05/11/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	79.91	11.93	67.98	0.00
MW-8	08/11/1998	NA	NA	NA	NA	NA	NA	NA	NA	79.91	12.35	67.56	0.00
MW-8	10/20/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	79.91	12.88	67.03	0.00
MW-8	02/08/1999	NA	NA	NA	NA	NA	NA	NA	NA	79.91	8.79	71.12	0.00
OMW-9	08/06/1991	3900	190	58	8.8	80	220	NA	NA	77.71	10.38	67.33	0.00
OMW-9	10/30/1991	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	03/18/1992	1800a	210	84	11	49	60	NA	NA	77.71	8.76	68.95	0.00
OMW-9	05/20/1992	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	08/19/1992	4600	22a	63	<25	48	70	NA	NA	77.71	9.98	67.73	0.00
OMW-9	11/18/1992	1800	130a	30	9.2	46	61	NA	NA	77.71	9.81	67.90	0.00
OMW-9	02/11/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	05/19/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	08/18/1993	NA	NA	NA	NA	NA	NA	NA	NA	77.71	9.75	67.96	0.00
OMW-9	11/17/1993	5900	2400a	86	14	150	46	NA	NA	77.71	9.92	67.79	0.00
OMW-9	02/18/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	05/26/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	08/29/1994	NA	NA	NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	11/11/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA

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OMW-9	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	05/07/1995	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	08/02/1995	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	02/24/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	05/04/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	09/07/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	11/24/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	02/23/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	05/01/1997	4700	1100	150	14	97	52	330	NA	77.71	12.10	65.61	0.00
OMW-9	07/22/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	11/04/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	77.71	NA	NA	NA
OMW-9	01/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	77.71	11.32	66.39	0.00
OMW-9	05/11/1998	5500.0	1500	220	10	160	91	110	NA	77.71	11.95	65.76	0.00
OMW-9	08/11/1998	NA	NA	NA	NA	NA	NA	NA	NA	77.71	12.08	65.63	0.00
OMW-9	10/20/1998	1200	780	18	<5.0	14	6.0	48	NA	77.71	12.03	65.68	0.00
OMW-9*	11/23/1998	1700	890	88	9.0	42	22	170	NA	77.71	11.85	65.86	0.00
OMW-9	02/08/1999	NA	NA	NA	NA	NA	NA	NA	NA	77.71	8.01	69.70	0.00
OMW-10	08/07/1991	460	<50	73	1.0	18	8.4	NA	NA	77.91	10.00	67.91	0.00
OMW-10	10/31/1991	630	150	100	<0.5	33	26	NA	NA	77.91	10.10	67.81	0.00
OMW-10	02/15/1992	810	570a	85	2.5	44	38	NA	NA	77.91	NA	NA	NA
OMW-10	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	77.91	9.55	68.36	0.00
OMW-10	05/21/1992	280	NA	47	0.7	4.0	3.1	NA	NA	77.91	10.41	67.50	0.00
OMW-10	08/19/1992	330	NA	35	<1	6.0	4.1	NA	NA	77.91	10.46	67.45	0.00
OMW-10	11/18/1993	300	NA	30	0.8	7.1	6.3	NA	NA	77.91	10.31	67.60	0.00
OMW-10	02/11/1993	510a	NA	49	3.8	18	18	NA	NA	77.91	9.68	68.23	0.00

WELL CONCENTRATIONS
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500 40th/Telegraph
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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)	SPH Thickness (ft.)
OMW-10	05/19/1993	<50	NA	96	<0.5	3.4	1.5	NA	NA	77.91	10.19	67.72	0.00
OMW-10	08/18/1993	NA	NA	NA	NA	NA	NA	NA	NA	77.91	10.29	67.62	0.00
OMW-10	11/17/1993	400	NA	24	<1.0	2.8	1.9	NA	NA	77.91	10.32	67.59	0.00
OMW-10	02/18/1994	NA	NA	NA	NA	NA	NA	NA	NA	77.91	9.30	68.61	0.00
OMW-10	05/26/1994	330	NA	32	13	7.5	26	NA	NA	77.91	10.14	67.77	0.00
OMW-10	08/09/1994	NA	NA	NA	NA	NA	NA	NA	NA	77.91	10.38	67.53	0.00
OMW-10	11/11/1994	110	NA	7.8	<0.5	2.3	1.5	NA	NA	77.91	9.34	68.57	0.00
OMW-10	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	77.91	10.17	67.74	0.00
OMW-10	05/07/1995	1600	NA	110	3.1	17	12	NA	NA	77.91	9.63	68.28	0.00
OMW-10	08/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	77.91	10.07	67.84	0.00
OMW-10	11/02/1995	1200	NA	47	0.8	1.4	2.4	NA	NA	77.91	9.74	68.17	0.00
OMW-10	02/24/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	77.91	NA	NA	NA
OMW-10	05/04/1996	1100	NA	76	16	7.4	32	57	NA	77.91	9.97	67.94	0.00
OMW-10	09/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	77.91	13.00	64.91	0.00
OMW-10	11/24/1996	540	NA	13	2.7	1.3	1.7	16	NA	77.91	12.56	65.35	0.00
OMW-10	02/23/1997	NA	NA	NA	NA	NA	NA	NA	NA	77.91	12.52	65.39	0.00
OMW-10	05/01/1997	910	NA	1.3	10	4.1	5.9	4.1	NA	77.91	13.13	64.78	0.00
OMW-10	07/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	77.91	13.46	64.45	0.00
OMW-10	11/04/1997	460	NA	5.0	<0.50	1.3	2.2	<5.0	NA	77.91	12.08	65.83	0.00
OMW-10	01/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	77.91	11.77	66.14	0.00
OMW-10	05/11/1998	370	NA	4.1	0.7	<0.50	0.88	5.2	NA	77.91	12.86	65.05	0.00
OMW-10	08/11/1998	NA	NA	NA	NA	NA	NA	NA	NA	77.91	13.20	64.71	0.00
OMW-10	10/20/1998	490	NA	<0.50	<0.50	1.6	2.3	5.9	NA	77.91	13.20	64.71	0.00
OMW-10**	11/23/1998	150	790	3.2	0.72	<0.50	1.5	5	NA	77.91	12.85	65.06	NA
OMW-10	02/08/1999	NA	NA	NA	NA	NA	NA	NA	NA	77.91	9.18	68.73	0.00

WELL CONCENTRATIONS
Shell-branded Service Station
500 40th/Telegraph
Oakland, CA
Wic #204-5508-4903

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)	SPH Thickness (ft.)
OMW-10 (D)	11/02/1995	1300	NA	50	0.8	1.5	2.5	NA	NA	77.91	NA	NA	NA
OMW-10 (D)	05/04/1996	700	NA	63	13	6.4	25	21	NA	77.91	NA	NA	NA
OMW-10 (D)	11/24/1996	490	NA	25	<2.0	<2.0	<2.0	66	NA	77.91	NA	NA	NA
OMW-11	11/22/1991	450	240	1.1	<0.5	<0.5	<0.5	NA	NA	75.76	11.90	63.86	0.00
OMW-11	02/15/1992	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	03/18/1992	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	05/20/1992	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	08/19/1992	270a	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	75.76	12.06	63.70	0.00
OMW-11	11/18/1992	400a	100	<0.5	<0.5	<0.5	<0.5	NA	NA	75.76	12.01	63.75	0.00
OMW-11	02/11/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	05/20/1993	200a	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	75.76	11.90	63.86	0.00
OMW-11	08/18/1993	180a	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	75.76	11.90	63.86	0.00
OMW-11	11/17/1993	150a	<50a	<0.5	3.6	<0.5	<0.5	NA	NA	75.76	11.94	63.82	0.00
OMW-11	02/18/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	05/26/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	08/29/1994	NA	NA	NA	NA	NA	NA	NA	NA	75.76	11.98	63.78	0.00
OMW-11	11/11/1994	160	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.76	10.88	64.88	0.00
OMW-11	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	75.76	10.62	65.14	0.00
OMW-11	03/05/1995	220	100	0.7	<0.5	<0.5	<0.5	NA	NA	75.76	NA	NA	NA
OMW-11	05/07/1995	160	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	75.76	11.49	64.27	0.00
OMW-11	08/02/1995	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	02/24/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	05/04/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	09/07/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	11/24/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
500 40th/Telegraph
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)	SPH Thickness (ft.)
OMW-11	02/23/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	05/01/1997	130	71	<0.50	<0.50	<0.50	0.61	<2.5	NA	75.76	13.76	62.00	0.00
OMW-11	07/22/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	11/04/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	01/21/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	05/11/1998	100	85	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.76	13.18	62.58	0.00
OMW-11	08/11/1998	110	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.76	13.50	62.26	0.00
OMW-11	10/20/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-11	02/08/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	75.76	NA	NA	NA
OMW-12	12/02/1991	<1000	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	10.31	65.34	0.00
OMW-12	03/18/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	8.93	66.72	0.00
OMW-12	05/20/1992	180a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	10.26	65.39	0.00
OMW-12	08/19/1992	230a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	10.53	65.12	0.00
OMW-12	11/18/1992	220a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	10.45	65.20	0.00
OMW-12	02/11/1993	240	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	8.90	66.75	0.00
OMW-12	05/19/1993	110a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	10.60	65.05	0.00
OMW-12	08/18/1993	140a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	10.28	65.37	0.00
OMW-12	11/17/1993	120a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	10.24	65.41	0.00
OMW-12	02/18/1994	180a	NA	1.7	2.1	0.9	4.8	NA	NA	75.65	8.97	66.68	0.00
OMW-12	05/26/1994	150	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	9.62	66.03	0.00
OMW-12	08/29/1994	110	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	10.20	65.45	0.00
OMW-12	11/11/1994	90	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	8.54	67.11	0.00
OMW-12	02/03/1995	80	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	8.28	67.37	0.00
OMW-12	05/07/1995	110	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	9.17	66.48	0.00
OMW-12	08/02/1995	90	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	10.06	65.59	0.00

WELL CONCENTRATIONS
Shell-branded Service Station
500 40th/Telegraph
Oakland, CA
Wic #204-5508-4903

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)	SPH Thickness (ft.)
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OMW-12	11/02/1995	130	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	10.09	65.56	0.00
OMW-12	02/24/1996	80	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	7.81	67.84	0.00
OMW-12	05/04/1996	61	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	11.72	63.93	0.00
OMW-12	09/07/1996	66	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	12.65	63.00	0.00
OMW-12	11/24/1996	70	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	11.54	64.11	0.00
OMW-12	02/23/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	11.53	64.12	0.00
OMW-12	05/01/1997	79	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	12.17	63.48	0.00
OMW-12	07/22/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	12.48	63.17	0.00
OMW-12	11/04/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	NA	75.65	12.54	63.11	0.00
OMW-12	01/21/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	9.82	65.83	0.00
OMW-12	05/11/1998	53	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	11.63	64.02	0.00
OMW-12	08/11/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	12.05	63.60	0.00
OMW-12	10/20/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	12.31	63.34	0.00
OMW-12	02/08/1999	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	8.25	67.40	0.00

OMW-12 (D)	02/03/1995	100	NA	0.6	<0.5	0.7	1.1	NA	NA	75.65	NA	NA	NA
OMW-12 (D)	08/02/1995	120	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	75.65	NA	NA	NA
OMW-12 (D)	07/22/1997	51	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	75.65	NA	NA	NA

OMW-13	11/22/1991	900	1000	37	9.5	74	130	NA	NA	76.36	11.96	64.40	0.00
OMW-13	03/18/1992	900a	590a	24	28	320	320	NA	NA	76.36	10.84	65.52	0.00
OMW-13	05/20/1992	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	08/19/1992	7000	470a	180	36	150	150	NA	NA	76.36	12.12	64.24	0.00
OMW-13	11/18/1992	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	12.00	64.36	0.00
OMW-13	02/11/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	05/20/1993	9200	NA	320	83	490	950	NA	NA	76.36	12.26	64.10	0.00

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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)	SPH Thickness (ft.)
OMW-13	08/18/1993	NA	NA	NA	NA	NA	NA	NA	NA	76.36	11.75	64.61	0.00
OMW-13	11/17/1993	38000	3800	210	<130	1000	2500	NA	NA	76.36	11.78	64.58	0.00
OMW-13	02/18/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	05/26/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	08/29/1994	NA	NA	NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	11/11/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	10.28	66.08	0.00
OMW-13	02/03/1995	1.0	NA	NA	NA	NA	NA	NA	NA	76.36	10.01	66.35	0.00
OMW-13	03/05/1995	9100	3900	200	9.7	200	130	NA	NA	76.36	NA	NA	NA
OMW-13	05/07/1995	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	08/02/1995	8000	2900	180	6.6	190	55	NA	NA	76.36	11.80	64.56	0.00
OMW-13	02/24/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	05/04/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	09/07/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	11/24/1996	15000	7700	50	<20	74	60	<100	NA	76.36	12.35	64.01	0.00
OMW-13	02/23/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	05/01/1997	2600	290	33	10	30	14	88	NA	76.36	13.83	62.53	0.00
OMW-13	07/22/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	11/04/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	01/21/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	05/11/1998	10000	1400	60	17	120	23	<50	NA	76.36	13.21	63.15	0.00
OMW-13	08/11/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	10/20/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA
OMW-13	02/08/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	76.36	NA	NA	NA

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Wic #204-5508-4903

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)	SPH Thickness (ft.)
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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

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

Notes:

a = Chromatogram indicated an unidentified hydrocarbon.

* Field technician mistakenly sampled this well instead of OMW -11

** Field technician mistakenly sampled this well instead of OMW-13



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Client Proj. ID: Shell, 500 40th/Telegraph

Received: 02/09/99


Lab Proj. ID: 9902023

Reported: 02/21/99

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 4 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL


Project Manager





Sequoia Analytical

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San Carlos, CA 94070-4111 (650) 232-9600

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

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 February 9, 1999.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9902023 -01	LIQUID, OMW 12	02/08/99	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


Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
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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: OMW 12 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9902023-01	Sampled: 02/08/99 Received: 02/09/99 Analyzed: 02/16/99 Reported: 02/21/99
--	--	---

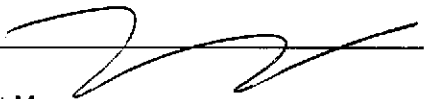
QC Batch Number: GC021699BTEX03A
Instrument ID: GCHP03

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	118

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

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





Sequoia Analytical

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

Client Project ID: Shell, 500 40th/Telegraph

QC Sample Group: 9902023-01

Reported: Feb 21, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8020
Analyst: BTF

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
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QC Batch #: GC021699BTEX03A

Sample No.: GW9902458-2MS

Date Prepared:	2/16/99	2/16/99	2/16/99	2/16/99
Date Analyzed:	2/16/99	2/16/99	2/16/99	2/16/99
Instrument I.D.#:	GCHP03	GCHP03	GCHP03	GCHP03

Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	9.1	9.2	9.3	28
% Recovery:	91	92	93	93

Matrix				
Spike Duplicate, ug/L:	9.0	9.1	9.1	27
% Recovery:	90	91	91	91

Relative % Difference:	1.1	1.1	2.2	2.2
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RPD Control Limits:	0-25	0-25	0-25	0-25
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LCS Batch#: GWLCS021699A

Date Prepared:	2/16/99	2/16/99	2/16/99	2/16/99
Date Analyzed:	2/16/99	2/16/99	2/16/99	2/16/99
Instrument I.D.#:	GCHP03	GCHP03	GCHP03	GCHP03

Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	9.5	9.6	9.7	29
LCS % Recovery:	95	96	97	96

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

Kayvan Kimyai
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.





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 990208-C1

Date:

Page 1 of 1

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:

Sampled by: *[Signature]*

Printed Name: Cassidy

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.
OMW 12	2/8			W		3

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/502)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 + MWBE	Asbestos	Container Size	Preparation Used	Composite Y/N
					X				

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	15 days <input type="checkbox"/> (Harmad)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Hally Lab as soon as Possible of 24/48 hrs. 1AL.

UST AGENCY: _____

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
9902023	

Relinquished By (signature): *[Signature]*
Printed Name: Cassidy
Date: 2/8
Time: 3:00

Relinquished By (signature): *[Signature]*
Printed Name: Steve Ten
Date: 2/9
Time: _____

Relinquished By (signature): _____
Printed Name: _____
Date: _____
Time: _____

Received (signature): *[Signature]*
Printed Name: _____
Date: _____
Time: _____

Received (signature): _____
Printed Name: _____
Date: _____
Time: _____

Received (signature): *[Signature]*
Printed Name: _____
Date: _____
Time: _____

Printed Name: Steve Ten
Date: 2/9/99
Time: 13:00

Printed Name: _____
Date: _____
Time: _____

Printed Name: SEQUOIA
Date: 2/9/99
Time: 1713

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

5-13