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CHAN

# C A M B R I A

Alameda County  
SEP 19 2002  
Environmental Health

September 16, 2002

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

Re: **Third Quarter 2002 Monitoring Report**  
Shell-branded Service Station  
3420 San Pablo Avenue  
Oakland, California  
Incident #98995748  
Cambria Project #244-0554-002

Alameda County  
SEP 15 2002  
Environmental Health



Dear Ms. Drogos:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

## THIRD QUARTER 2002 ACTIVITIES

**Groundwater Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged, sampled and measured dissolved oxygen concentrations in selected site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity, map which includes previously submitted well survey information, (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

## ANTICIPATED FOURTH QUARTER 2002 ACTIVITIES

**Groundwater Monitoring:** Blaine will gauge and sample selected site wells, and tabulate the data. Cambria will prepare a monitoring report.

Oakland, CA  
San Ramon, CA  
Sonoma, CA

**Cambria  
Environmental  
Technology, Inc.**

1144 65th Street  
Suite 8  
Oakland, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170

**Downgradient Well Installation:** On March 6, 2002, Cambria submitted a *Well Installation Work Plan* recommending an additional offsite well downgradient of well MW-4. During a June 3, 2002 telephone conversation between Donna Drogos of the Alameda County Health Care Services Agency (ACHCSA) and Jacquelyn Jones of Cambria, Ms. Drogos indicated that she would complete the work plan review within two weeks. At Shell's request and pursuant to the authority granted in California Code of Regulations, Title 23, Division 3, Chapter 16, Section 2722(e), Cambria will proceed with the scope of work described because more than 60 days has passed since work plan submittal without comment from the ACHCSA. The field work is currently scheduled for October 24, 2002.



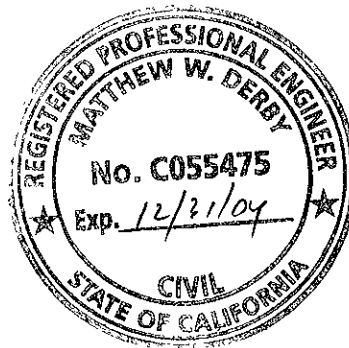
**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**

Jacquelyn L. Jones  
Project Geologist

Matthew W. Derby, P.E.  
Senior Project Engineer



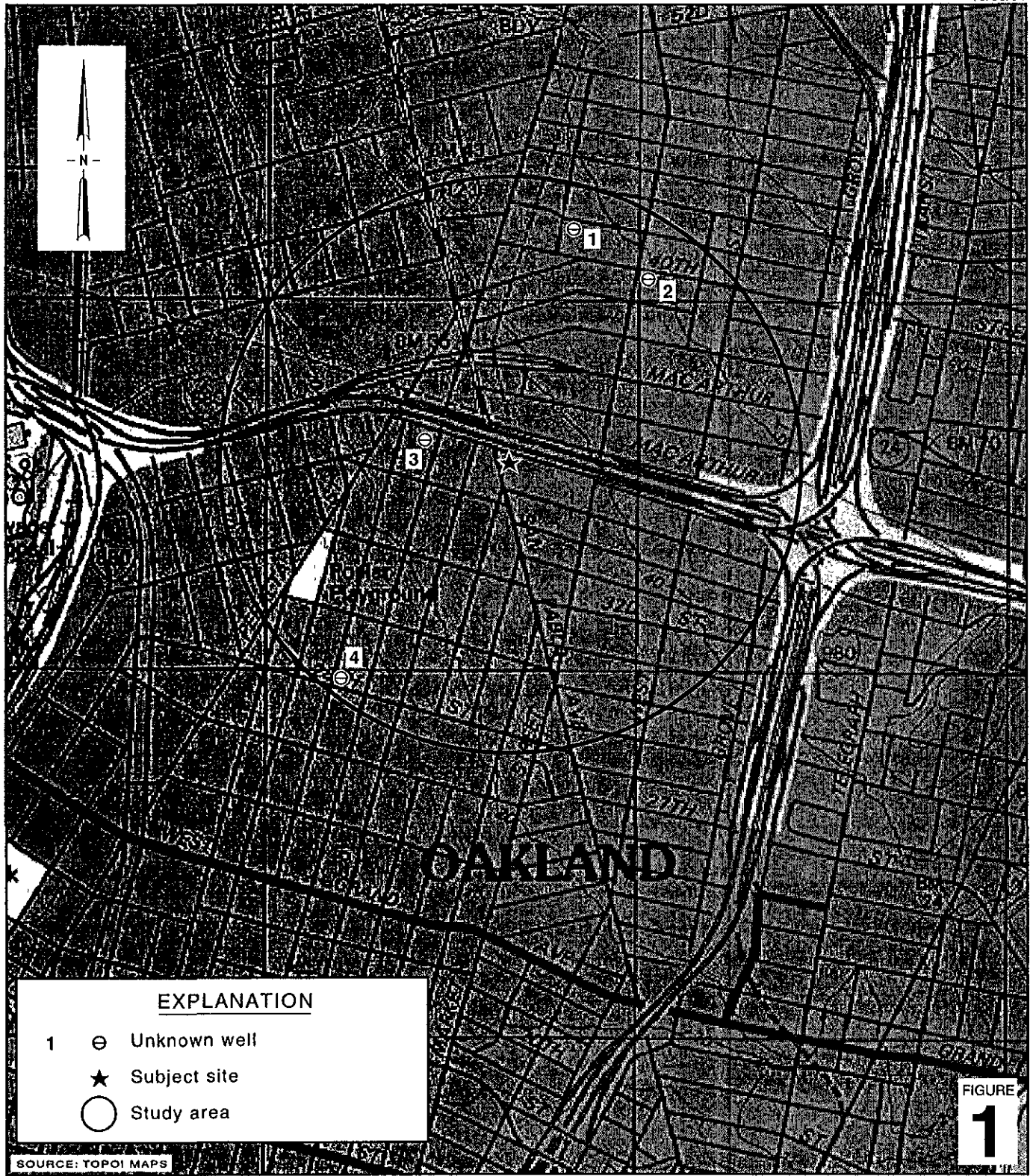
- Figures:     1 - Vicinity/Area Well Survey Map  
              2 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc:           Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869

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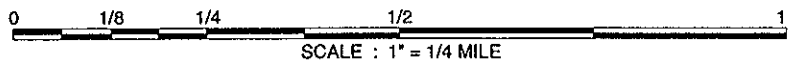


**EXPLANATION**

- 1    ⊖    Unknown well
- ★    Subject site
- Study area

FIGURE 1

SOURCE: TOPOI MAPS



**Shell-branded Service Station**  
 3420 San Pablo Avenue  
 Oakland, California  
 Incident #98995748

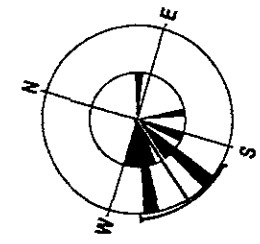


**Vicinity / Area Well Survey Map**  
 (1/2 Mile Radius)



**EXPLANATION**

- Proposed monitoring well location
- MW-1** Monitoring well
- MW-3** Destroyed monitoring well
- P-1/Disp-1** Soil sample location (June 1997)
- B-1** Soil sample location (May 1989)
- Storm Drain line (SD)
- Sanitary Sewer line (SS)
- Water main (W)
- Storm drain inlet
- Fire hydrant
- Flow direction indicator
- Misc. equipment vault, as labeled
- \*** Data anomalous, not used for contouring
- Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
- Inferred groundwater flow direction
- Well**  
**ELEV** Groundwater elevation, in feet above msl  
**Benzene**  
**MTBE** Benzene and MTBE concentrations are in parts per billion and are currently analyzed by EPA Method 8260.



Groundwater Flow Direction  
(1Q00 through 3Q02)

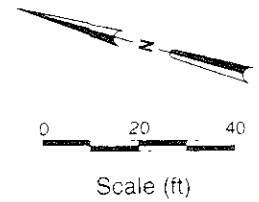
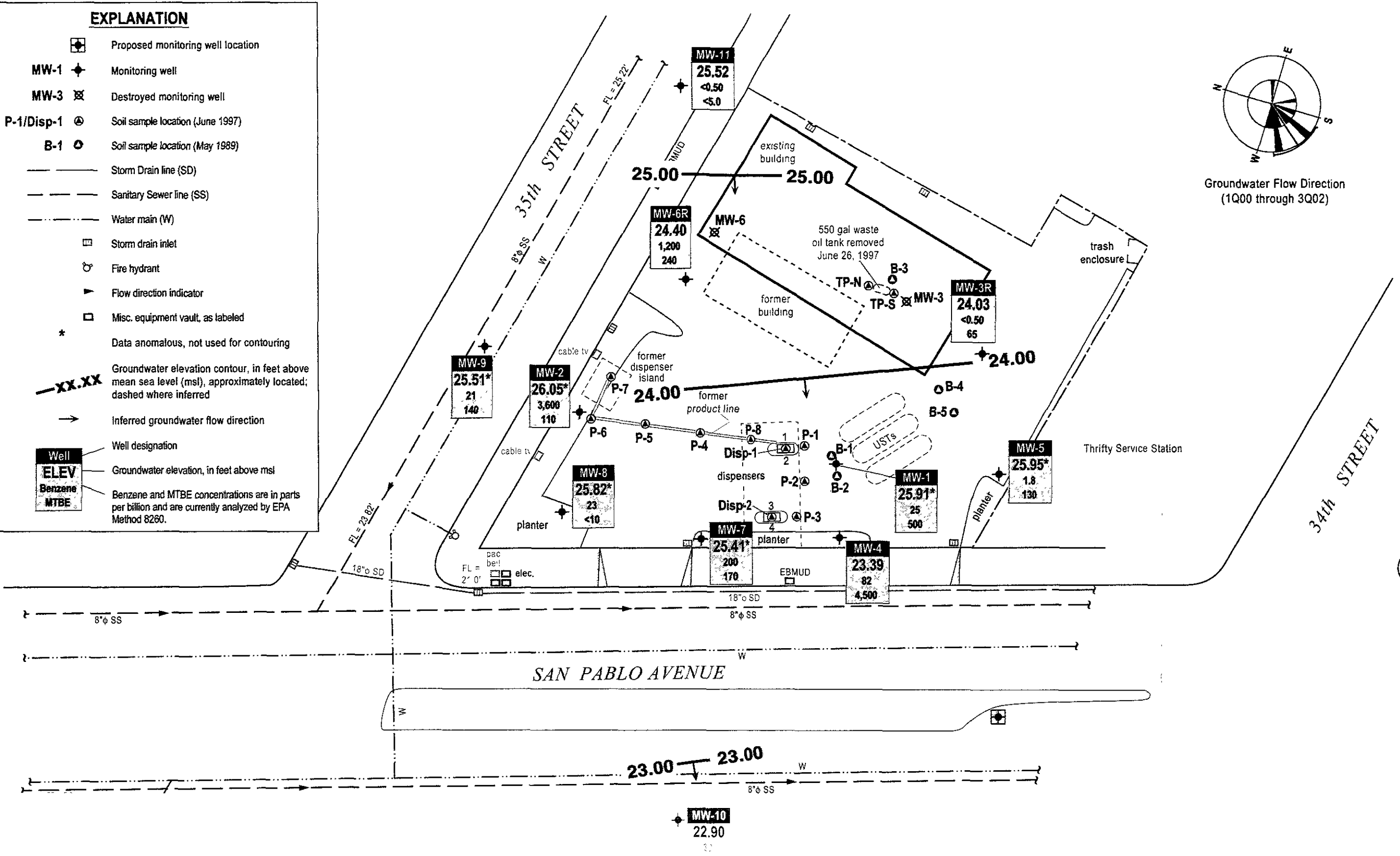


FIGURE 2

**ATTACHMENT A**  
**Blaine Groundwater Monitoring Report**  
**and Field Notes**

BLAINE  
TECH SERVICES, INC.



1680 ROGERS AVENUE  
SAN JOSE, CA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE  
CONTRACTOR'S LICENSE #746684  
www.blainetech.com

August 12 2002

Karen Petryna  
Shell Oil Products US  
P.O. Box 7869  
Burbank, CA 91510-7869

Third Quarter 2002 Groundwater Monitoring at  
Shell-branded Service Station  
3420 San Pablo Avenue  
Oakland, CA

Monitoring performed on July 11, 2002

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Groundwater Monitoring Report **020711-BA-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. Purgewater (if applicable) is, likewise, collected and transported to the Shell Martinez Manufacturing Complex.

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. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart  
Project Coordinator

LG/jt

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

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**  
**3420 San Pablo Avenue**  
**Oakland, CA**  
**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	08/06/1991	NA	NA	NA	NA	NA	NA	NA	21.28	10.86	NA	10.43	NA	NA
MW-1	10/23/1991	32,000	2,700	360	550	3,700	NA	NA	21.28	11.05	NA	10.24	0.01	NA
MW-1	01/28/1992	14,000	1,000	106	450	1,600	NA	NA	21.28	10.84	NA	10.44	NA	NA
MW-1	05/05/1992	98,000	11,000	1,200	3,500	18,000	NA	NA	21.28	9.42	NA	11.86	<0.01	NA
MW-1	07/13/1992	11,000	1,100	130	740	1,300	NA	NA	21.28	11.36	NA	9.92	NA	NA
MW-1	10/12/1992	NA	NA	NA	NA	NA	NA	NA	21.28	13.14	NA	8.21	0.09	NA
MW-1	01/12/1993	NA	110	NA	NA	NA	NA	NA	21.28	7.52	NA	13.78	0.02	NA
MW-1	04/06/1993	NA	NA	NA	NA	NA	NA	NA	21.28	7.13	NA	14.16	<0.01	NA
MW-1	07/12/1993	NA	NA	NA	NA	NA	NA	NA	21.28	11.02	NA	10.27	0.01	NA
MW-1	10/13/1993	NA	NA	NA	NA	NA	NA	NA	21.28	12.18	NA	9.11	0.01	NA
MW-1	01/20/1994	NA	NA	NA	NA	NA	NA	NA	21.28	9.18	NA	12.10	0.01	NA
MW-1	04/13/1994	NA	NA	NA	NA	NA	NA	NA	21.28	8.72	NA	12.58	0.02	NA
MW-1	07/19/1994	17,000	420	140	530	1,300	NA	NA	21.28	8.76	NA	12.52	NA	NA
MW-1	10/27/1994	23,000	1,200	130	990	960	NA	NA	21.28	10.49	NA	10.79	NA	NA
MW-1	01/03/1995	31,000	610	160	1,200	5,000	NA	NA	21.28	6.15	NA	15.13	NA	NA
MW-1	04/13/1995	20,000	340	42	680	2,900	NA	NA	21.28	5.24	NA	16.04	NA	NA
MW-1	06/30/1995	16,000	450	62	460	1,200	NA	NA	21.28	7.24	NA	14.04	NA	NA
MW-1	10/11/1995	8,400	660	47	510	850	8,000	NA	21.28	9.48	NA	11.80	NA	NA
MW-1	10/13/1995	7,400	730	54	490	1,100	8,200	NA	21.28	NA	NA	NA	NA	NA
MW-1	01/17/1996	24,000	570	110	820	2,900	15,000	NA	21.28	6.48	NA	14.80	NA	NA
MW-1	04/10/1996	20,000	120	11	420	1,400	15,000	NA	21.28	5.38	NA	15.90	NA	NA
MW-1	07/30/1996	7,900	240	22	170	300	12,000	NA	21.28	7.61	NA	13.67	NA	NA
MW-1	10/17/1996	6,600	1,000	20	120	130	10,000	NA	21.28	8.66	NA	12.62	NA	1.4
MW-1	01/22/1997	13,000	170	<50	330	1,200	18,000	NA	21.28	5.00	NA	16.28	NA	1.6
MW-1	04/01/1997	7,900	240	26	130	200	6,400	NA	21.28	6.42	NA	14.86	NA	1.4
MW-1	07/14/1997	5,000	<20	<20	59	61	9,000	NA	21.28	8.92	NA	12.36	NA	1.9



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**  
**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	10/08/1997	3,200	180	7.6	18	6.1	11,000	NA	21.28	9.43	NA	11.85	NA	4.8
MW-1	01/19/1998	8,100	39	<20	280	660	1,100	NA	21.28	1.20	NA	20.08	NA	2.6
MW-1	04/28/1998	2,900	62	<10	160	370	1,200	1,200	21.28	4.81	NA	16.47	NA	2.4
MW-1	09/30/1998	1,300	25	8.3	<5.0	12	2,000	NA	21.05	9.90	NA	11.15	NA	1.6
MW-1	12/09/1998	21,000	240	<200	520	920	18,000	18,000	21.05	12.26	NA	8.79	NA	4.3
MW-1	01/18/1999	10,600	<100	<100	471	130	48,600	50,800	21.05	6.00	NA	15.05	NA	1.3
MW-1	04/12/1999	7,500	101	26.0	248	578	31,000	37,900	21.05	4.00	NA	17.05	NA	1.2
MW-1	07/27/1999	5,420	80.1	<50.0	123	143	24,700	33,200*	21.05	6.18	NA	14.87	NA	1.3
MW-1	10/14/1999	3,750	75.8	<12.5	30.3	37.0	17,200	20,600	21.05	6.83	NA	14.22	NA	1.3
MW-1	01/06/2000	5,550	82.2	<5.00	128	45.4	9,410	8,200	21.05	6.36	NA	14.69	NA	1.3
MW-1	04/05/2000	2,860	50.6	<10.0	98.2	36.2	4,120	3,150*	21.05	3.65	NA	17.40	NA	2.0
MW-1	07/20/2000	3,600	37.9	36.0	34.2	40.4	3,140	3,430*	21.05	4.11	NA	16.94	NA	1.2
MW-1	10/24/2000	2,330	32.3	<10.0	10.5	27.1	4,900	4,500	21.05	5.18	NA	15.87	NA	1.4
MW-1	01/19/2001	2,000	25.9	24.9	12.5	29.7	2,610	3,070	32.01	3.90	NA	28.11	NA	1.8
MW-1	04/27/2001	2,200	14	<2.0	5.3	6.8	NA	1,100	32.01	4.48	NA	27.53	NA	1.5
MW-1	07/26/2001	2,600	26	2.3	<2.0	5.4	NA	890	32.01	6.28	NA	25.73	NA	1.2
MW-1	10/02/2001	1,900	54	<2.0	7.8	14	NA	890	32.01	6.53	NA	25.48	NA	1.6
MW-1	01/15/2002	2,300	19	2.8	9.3	12	NA	370	32.01	5.00	NA	27.01	NA	1.9
MW-1	04/17/2002	4,500	20	2.0	1.3	4.6	NA	500	32.01	5.63	NA	26.38	NA	2.4
<b>MW-1</b>	<b>07/11/2002</b>	<b>2,700</b>	<b>25</b>	<b>1.1</b>	<b>&lt;1.0</b>	<b>2.1</b>	<b>NA</b>	<b>500</b>	<b>32.01</b>	<b>6.10</b>	<b>NA</b>	<b>25.91</b>	<b>NA</b>	<b>1.5</b>
MW-2	08/06/1991	50,000	15,000	NA	2,700	13,000	NA	NA	21.56	9.72	NA	11.84	NA	NA
MW-2	10/23/1991	120,000	11,000	1,400	3,500	19,000	NA	NA	21.56	10.03	NA	11.53	NA	NA
MW-2	01/28/1992	49,000	7,400	800	1,800	8,300	NA	NA	21.56	8.78	NA	12.78	NA	NA
MW-2	05/05/1992	52,000	12,000	1,100	2,200	12,000	NA	NA	21.56	7.58	NA	13.98	NA	NA
MW-2	07/13/1992	47,000	15,000	2,400	4,500	16,000	NA	NA	21.56	9.63	NA	11.93	NA	NA

**WELL CONCENTRATIONS**  
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MW-2	10/12/1992	NA	NA	NA	NA	NA	NA	NA	21.56	11.66	NA	9.92	0.03	NA
MW-2	01/12/1993	NA	NA	NA	NA	NA	NA	NA	21.56	7.13	NA	14.44	0.01	NA
MW-2	04/06/1993	NA	NA	NA	NA	NA	NA	NA	21.56	6.40	NA	15.17	<0.01	NA
MW-2	07/12/1993	59,000	12,000	950	2,400	11,000	NA	NA	21.56	8.75	NA	12.81	NA	NA
MW-2	10/13/1993	54,000	14,000	1,200	3,700	22,000	NA	NA	21.56	10.28	NA	11.28	NA	NA
MW-2	01/20/1994	NA	NA	NA	NA	NA	NA	NA	21.56	NA	NA	NA	NA	NA
MW-2	04/13/1994	79,000	9,400	740	2,100	12,000	NA	NA	21.56	7.35	NA	14.22	<0.01	NA
MW-2	07/19/1994	63,000	13,000	810	1,900	13,000	NA	NA	21.56	8.24	NA	13.32	NA	NA
MW-2	10/27/1994	64,000	8,800	480	2,100	10,000	NA	NA	21.56	10.26	NA	13.32	NA	NA
MW-2	01/03/1995	67,000	9,800	720	2,800	11,000	NA	NA	21.56	6.44	NA	15.12	NA	NA
MW-2	04/13/1995	83,000	10,000	490	2,600	13,000	NA	NA	21.56	5.89	NA	15.67	NA	NA
MW-2	06/30/1995	65,000	12,000	1,800	2,400	12,000	NA	NA	21.56	7.41	NA	14.15	NA	NA
MW-2	10/11/1995	68,000	8,800	840	3,000	13,000	1,400	NA	21.56	8.02	NA	13.54	NA	NA
MW-2	01/17/1996	79,000	12,000	640	2,700	14,000	2,200	NA	21.56	7.42	NA	14.14	NA	NA
MW-2	04/10/1996	84,000	7,200	310	1,700	7,800	2,900	NA	21.56	6.91	NA	14.65	NA	NA
MW-2	07/30/1996	26,000	6,800	210	1,300	5,500	4,500	NA	21.56	7.63	NA	13.93	NA	NA
MW-2	10/17/1996	46,000	9,800	340	2,000	6,500	4,900	NA	21.56	8.27	NA	13.29	NA	1.8
MW-2	01/22/1997	52,000	6,200	220	1,400	6,600	3,000	NA	21.56	7.09	NA	14.47	NA	1.9
MW-2	04/01/1997	69,000	6,000	380	2,400	11,000	3,800	NA	21.56	6.91	NA	14.65	NA	2.0
MW-2	07/14/1997	53,000	7,700	260	1,600	5,200	2,400	NA	21.56	9.93	NA	11.63	NA	1.2
MW-2	10/08/1997	56,000	8,500	320	1,600	5,100	4,200	NA	21.56	10.43	NA	11.13	NA	2.1
MW-2	01/19/1998	64,000	10,000	230	2,400	12,000	2,700	NA	21.56	3.60	NA	17.96	NA	2.4
MW-2	04/28/1998	45,000	9,800	310	2,700	11,000	2,400	2,000	21.56	4.81	NA	15.71	NA	2
MW-2	09/30/1998	42,000	7,400	200	2,600	9,800	1,800	NA	21.58	7.20	NA	14.38	NA	1.6
MW-2	12/09/1998	60,000	7,000	270	1,600	7,000	2,100	NA	21.58	7.11	NA	14.47	NA	4.6
MW-2	01/18/1999	45,000	7,960	151	1,750	6,410	1,310	NA	21.58	6.83	NA	14.75	NA	1.8

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**  
**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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MW-2	04/12/1999	47,400	7,680	131	1,840	6,400	<1,000	NA	21.58	5.90	NA	15.68	NA	1.9
MW-2	07/27/1999	36,400	6,750	83.5	1,590	5,070	682	NA	21.58	6.56	NA	15.02	NA	2.0
MW-2	10/14/1999	45,300	6,990	144	1,850	4,930	1,070	NA	21.58	8.90	NA	12.68	NA	1.5
MW-2	01/06/2000	44,100	5,820	107	1,720	4,590	841	NA	21.58	7.27	NA	14.31	NA	1.4
MW-2	04/05/2000	32,000	6,680	<100	1,770	4,030	934	NA	21.58	5.32	NA	16.26	NA	1.3
MW-2	07/20/2000	32,100	5,290	68.6	1,870	3,810	254	NA	21.58	5.47	NA	16.11	NA	2.9
MW-2	10/24/2000	24,400	4,680	<50.0	1,460	2,380	682	NA	21.58	5.88	NA	15.70	NA	2.2
MW-2	01/19/2001	29,200	4,980	127	2,820	4,320	<500	NA	32.54	5.96	NA	26.58	NA	1.4
MW-2	04/27/2001	40,000	5,400	67	2,800	5,100	NA	380	32.54	5.87	NA	26.67	NA	1.1
MW-2	07/26/2001	42,000	4,700	59	2,800	4,300	NA	<250	32.54	6.48	NA	26.06	NA	1.0
MW-2	10/02/2001	36,000	4,200	64	2,400	2,700	NA	<200	32.54	6.65	NA	25.89	NA	1.6
MW-2	01/15/2002	39,000	4,100	46	2,200	2,300	NA	280	32.54	5.81	NA	26.73	NA	1.8
MW-2	04/17/2002	30,000	3,800	44	2,100	2,100	NA	270	32.54	6.03	NA	26.51	NA	1.6
<b>MW-2</b>	<b>07/11/2002</b>	<b>34,000</b>	<b>3,600</b>	<b>18</b>	<b>2,700</b>	<b>2,200</b>	<b>NA</b>	<b>110</b>	<b>32.54</b>	<b>6.49</b>	<b>NA</b>	<b>26.05</b>	<b>NA</b>	<b>2.7</b>

MW-3	08/06/1991	430	8	1	4	15	NA	NA	21.78	11.18	NA	10.60	NA	NA
MW-3	10/23/1991	390	2.10	<0.3	0.48	2	NA	NA	21.78	11.69	NA	10.09	NA	NA
MW-3	01/28/1992	190	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	9.99	NA	11.79	NA	NA
MW-3	05/04/1992	190	<1	<1	<1	0.71	NA	NA	21.78	9.46	NA	12.32	NA	NA
MW-3	07/20/1992	200a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	11.29	NA	10.49	NA	NA
MW-3	10/12/1992	180a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	13.10	NA	8.68	NA	NA
MW-3	01/12/1993	180	<0.5	2.3	0.9	5.6	NA	NA	21.78	7.32	NA	14.46	NA	NA
MW-3	04/06/1993	280	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	7.44	NA	14.34	NA	NA
MW-3	07/12/1993	310a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	10.62	NA	11.16	NA	NA
MW-3	10/13/1993	150	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	12.05	NA	9.73	NA	NA
MW-3	01/20/1994	180	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	9.62	NA	12.16	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**  
**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-3	04/13/1994	270	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	9.15	NA	12.63	NA	NA
MW-3	07/19/1994	190a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	10.13	NA	11.65	NA	NA
MW-3	10/27/1994	160a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	11.66	NA	10.12	NA	NA
MW-3	01/03/1995	100a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	6.89	NA	14.89	NA	NA
MW-3	04/13/1995	120a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	6.79	NA	14.99	NA	NA
MW-3	06/30/1995	180a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.78	8.94	NA	12.84	NA	NA
MW-3	10/11/1995	150	2.2	<0.5	<0.5	<0.5	2.3	NA	21.78	10.62	NA	11.16	NA	NA
MW-3	01/17/1996	120	<0.5	<0.5	<0.5	<0.5	7.8	NA	21.78	7.18	NA	14.60	NA	NA
MW-3	04/10/1996	160	<0.5	<0.5	<0.5	<0.5	12	NA	21.78	6.76	NA	15.02	NA	NA
MW-3	07/30/1996	57	<0.5	<0.5	<0.5	<0.5	<2.5	NA	21.78	9.04	NA	12.74	NA	NA
MW-3	10/17/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	21.78	9.04	NA	12.74	NA	2.0
MW-3	01/22/1997	<50	<0.5	<0.5	<0.5	<0.5	3.7	NA	21.78	5.03	NA	16.75	NA	2.4
MW-3	04/01/1997	71	<0.50	<0.50	<0.50	<0.50	NA b	NA	21.78	8.23	NA	13.55	NA	1.6
MW-3	07/14/1997	<50	<0.50	<0.50	<0.50	1.5	NA b	NA	21.78	9.09	NA	12.69	NA	1.9
MW-3	10/08/1997	73	<0.50	<0.50	<0.50	<0.50	NA b	NA	21.78	10.23	NA	11.55	NA	5.5
MW-3	12/05/1997	Abandoned												
MW-3R	04/06/1999	NA	NA	NA	NA	NA	NA	NA	21.83	9.89	NA	11.94	NA	NA
MW-3R	04/12/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	21.83	5.83	NA	16.00	NA	2.1
MW-3R	07/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	4.15	NA	21.83	9.59	NA	12.24	NA	2.0
MW-3R	10/14/1999	<50.0	<0.500	<0.500	<0.500	<0.500	9.43	NA	21.83	10.00	NA	11.83	NA	0.6
MW-3R	01/06/2000	78	<0.500	<0.500	<0.500	<0.500	31	NA	21.83	9.71	NA	12.12	NA	0.8
MW-3R	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	273	2,890*	21.83	6.90	NA	14.93	NA	1.5
MW-3R	07/20/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	21.83	6.94	NA	14.89	NA	1.1
MW-3R	10/24/2000	NA	NA	NA	NA	NA	NA	NA	21.83	8.90	NA	12.93	NA	NA
MW-3R	01/19/2001	<50.0	<0.500	<0.500	<0.500	<0.500	79.2	NA	32.79	7.04	NA	25.75	NA	2.0

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**  
**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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MW-3R	04/27/2001	NA	NA	NA	NA	NA	NA	NA	32.79	7.38	NA	25.41	NA	NA
MW-3R	07/26/2001	97	<0.50	<0.50	<0.50	<0.50	NA	200	32.79	9.30	NA	23.49	NA	1.8
MW-3R	10/02/2001	NA	NA	NA	NA	NA	NA	NA	32.79	9.41	NA	23.38	NA	NA
MW-3R	01/15/2002	55	<0.50	<0.50	<0.50	<0.50	NA	32	32.79	6.05	NA	26.74	NA	0.7
MW-3R	04/17/2002	NA	NA	NA	NA	NA	NA	NA	32.79	7.70	NA	25.09	NA	NA
MW-3R	07/11/2002	110	<0.50	<0.50	<0.50	<0.50	NA	65	32.79	8.76	NA	24.03	NA	2.5

MW-4	08/06/1991	1,300	28	18	68	150	NA	NA	20.31	10.57	NA	9.74	NA	NA
MW-4	10/23/1991	1,900	97	6.10	38	77	NA	NA	20.31	10.46	NA	9.85	NA	NA
MW-4	01/28/1992	200	7.60	<0.5	3	3.30	NA	NA	20.31	9.54	NA	10.77	NA	NA
MW-4	05/04/1992	690	98	3	13	<1	NA	NA	20.31	8.33	NA	11.98	NA	NA
MW-4	07/13/1992	1,500	140	2.90	17	12	NA	NA	20.31	9.87	NA	10.44	NA	NA
MW-4	10/12/1992	NA	NA	NA	NA	NA	NA	NA	20.31	12.43	NA	8.50	0.78	NA
MW-4	01/12/1993	NA	NA	NA	NA	NA	NA	NA	20.31	7.12	NA	13.99	1.00	NA
MW-4	04/06/1993	NA	NA	NA	NA	NA	NA	NA	20.31	7.23	NA	13.84	0.95	NA
MW-4	07/12/1993	NA	NA	NA	NA	NA	NA	NA	20.31	10.08	NA	10.25	0.03	NA
MW-4	10/13/1993	NA	NA	NA	NA	NA	NA	NA	20.31	11.35	NA	9.06	0.12	NA
MW-4	01/20/1994	NA	NA	NA	NA	NA	NA	NA	20.31	9.06	NA	11.26	0.02	NA
MW-4	04/13/1994	NA	NA	NA	NA	NA	NA	NA	20.31	8.58	NA	11.74	0.01	NA
MW-4	07/19/1994	12,000	230	43	230	660	NA	NA	20.31	9.71	NA	10.60	NA	NA
MW-4	10/27/1994	NA	NA	NA	NA	NA	NA	NA	20.31	10.60	NA	9.73	0.03	NA
MW-4	01/03/1995	NA	NA	NA	NA	NA	NA	NA	20.31	5.49	NA	14.83	0.01	NA
MW-4	04/13/1995	NA	NA	NA	NA	NA	NA	NA	20.31	6.53	NA	13.80	0.03	NA
MW-4	06/30/1995	7,400	140	<0.5	160	350	NA	NA	20.31	9.57	NA	10.74	NA	NA
MW-4	10/11/1995	3,000	29	10	100	82	9,700	NA	20.31	10.30	NA	10.01	NA	NA
MW-4	01/17/1996	9,700	190	<0.5	190	410	4,500	NA	20.31	6.68	NA	13.63	NA	NA

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**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-4	04/10/1996	2,800	16	<0.5	22	50	6,100	NA	20.31	7.90	NA	12.41	NA	NA
MW-4	07/30/1996	1,600	68	<12	58	39	8,500	NA	20.31	8.73	NA	11.58	NA	2.8
MW-4	10/17/1996	4,800	120	<25	150	96	11,000	NA	20.31	7.63	NA	10.34	NA	2.8
MW-4	01/22/1997	12,000	83	<20	170	240	4,300	NA	20.31	5.26	NA	15.05	NA	2.6
MW-4	04/01/1997	4,800	65	<5.0	81	93	3,200	NA	20.31	8.02	NA	12.29	NA	2.4
MW-4	07/14/1997	2,400	35	<10	30	20	6,000	NA	20.31	10.05	NA	10.26	NA	2.0
MW-4	10/08/1997	2,900	66	<20	<20	<20	7,300	NA	20.31	10.22	NA	10.09	NA	5.9
MW-4	01/19/1998	Inaccessible		NA	NA	NA	NA	NA	20.31	NA	NA	NA	NA	NA
MW-4	04/28/1998	Inaccessible		NA	NA	NA	NA	NA	20.31	NA	NA	NA	NA	NA
MW-4	09/30/1998	1,300	57	8.7	58	37	3,600	NA	20.92	9.31	NA	11.61	NA	2.9
MW-4	12/09/1998	3,500	130	<5.0	100	36	3,200	4,500	20.92	9.30	NA	11.62	NA	2.2
MW-4	01/18/1999	7,040	321	<25.0	273	<25.0	4,830	4,660	20.92	8.60	NA	12.32	NA	2.3
MW-4	04/12/1999	1,540	47.6	<10.0	24.4	<10.0	2,760	NA	20.92	6.25	NA	14.67	NA	1.9
MW-4	07/27/1999	3,570	214	<25.0	58.3	31.0	5,440	7,280*	20.92	9.33	NA	11.59	NA	1.9
MW-4	10/14/1999	3,920	157	<25.0	103	<25.0	6,550	8,990	20.92	9.93	NA	10.99	NA	1.7
MW-4	01/06/2000	5,030	247	7.2	169	37.7	6,860	7,400	20.92	9.31	NA	11.61	NA	1.7
MW-4	04/05/2000	1,870	120	<5.00	15.1	<5.00	4,400	2,890*	20.92	6.00	NA	14.92	NA	1.8
MW-4	07/20/2000	6,740	114	36.4	71.9	28.2	1,900	NA	20.92	6.10	NA	14.82	NA	2.1
MW-4	10/24/2000	2,120	108	8.28	12.5	<5.00	6,070	5,950	20.92	8.90	NA	12.02	NA	1.1
MW-4	01/19/2001	3,330	67.2	<5.00	7.18	<5.00	3,620	4,330	31.88	7.25	NA	24.63	NA	1.8
MW-4	04/27/2001	1,600	79	<10	<10	<10	NA	3,900	31.88	7.41	NA	24.47	NA	1.4
MW-4	07/26/2001	2,700	140	<20	24	<20	NA	4,700	31.88	8.20	NA	23.68	NA	1.8
MW-4	10/02/2001	4,600	170	<10	50	<10	NA	6,300	31.88	8.55	NA	23.33	NA	2.1
MW-4	01/15/2002	1,000	34	<5.0	<5.0	9.8	NA	2,800	31.88	6.53	NA	25.35	NA	2.7
MW-4	04/17/2002	1,400	92	<10	<10	11	NA	4,100	31.88	7.00	NA	24.88	NA	2.4
MW-4	07/11/2002	1,800	82	<10	<10	11	NA	4,500	31.88	8.49	NA	23.39	NA	2.1

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**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
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Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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MW-5	08/06/1991	9,100	210	27	240	660	NA	NA	20.91	10.23	NA	10.68	NA	NA
MW-5	10/23/1991	12,000	92	18	230	450	NA	NA	20.91	10.89	NA	10.02	NA	NA
MW-5	01/28/1992	3,300	130	10	180	220	NA	NA	20.91	8.45	NA	12.46	NA	NA
MW-5	05/04/1992	3,900	95	<12.5	260	120	NA	NA	20.91	8.05	NA	12.86	NA	NA
MW-5	07/13/1992	4,100	180	12	250	73	NA	NA	20.91	10.00	NA	10.91	NA	NA
MW-5	10/12/1992	NA	NA	NA	NA	NA	NA	NA	20.91	11.83	NA	9.09	0.01	NA
MW-5	01/12/1993	NA	NA	NA	NA	NA	NA	NA	20.91	6.10	NA	14.81	<0.01	NA
MW-5	04/06/1993	6,200	71	<0.5	53	150	NA	NA	20.91	6.18	NA	14.73	NA	NA
MW-5	07/12/1993	3,400	130	<0.5	170	130	NA	NA	20.91	9.59	NA	11.32	NA	NA
MW-5	10/13/1993	NA	NA	NA	NA	NA	NA	NA	20.91	10.80	NA	10.13	0.03	NA
MW-5	01/20/1994	NA	NA	NA	NA	NA	NA	NA	20.91	7.42	NA	13.49	0.01	NA
MW-5	04/13/1994	NA	NA	NA	NA	NA	NA	NA	20.91	7.05	NA	13.87	0.01	NA
MW-5	07/19/1994	11,000	180	13	180	260	NA	NA	20.91	8.57	NA	12.34	NA	NA
MW-5	10/27/1994	6,900	82	<5	210	1,110	NA	NA	20.91	10.14	NA	10.77	NA	NA
MW-5	01/03/1995	12,000	110	46	790	510	NA	NA	20.91	5.84	NA	15.07	NA	NA
MW-5	04/13/1995	10,000	61	<20	330	140	NA	NA	20.91	5.28	NA	15.63	NA	NA
MW-5	06/30/1995	12,000	180	8.60	440	340	NA	NA	20.91	7.43	NA	13.48	NA	NA
MW-5	10/11/1995	11,000	<50	<50	440	340	5,100	NA	20.91	8.90	NA	12.01	NA	NA
MW-5	01/17/1996	82,000	330	120	960	1,400	820	NA	20.91	6.40	NA	14.51	NA	NA
MW-5	04/10/1996	23,000	<50	<50	360	190	770	NA	20.91	5.70	NA	15.21	NA	NA
MW-5	07/30/1996	38,000	3,000	<100	1,100	2,600	560	NA	20.91	7.71	NA	13.20	NA	NA
MW-5	10/17/1996	13,000	36	<10	210	160	720	NA	20.91	9.04	NA	11.87	NA	1.4
MW-5	01/22/1997	20,000	63	<50	380	390	650	NA	20.91	4.85	NA	16.06	NA	1.6
MW-5	04/01/1997	16,000	110	<50	390	320	2,200	NA	20.91	6.54	NA	14.37	NA	1.4
MW-5	07/14/1997	15,000	70	<20	220	170	450	NA	20.91	8.54	NA	12.37	NA	1.8

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MW-5	10/08/1997	9,100	27	11	170	57	530	NA	20.91	9.09	NA	11.82	NA	4.7
MW-5	01/19/1998	9,500	92	<50	200	77	1,100	NA	20.91	2.11	NA	18.80	NA	2.5
MW-5	04/28/1998	15,000	100	53	150	80	460	NA	20.91	4.90	NA	16.01	NA	2.2
MW-5	09/30/1998	11,000	120	<100	240	200	<500	NA	21.71	8.05	NA	13.66	NA	2.0
MW-5	12/09/1998	45,000	<200	<200	240	240	<1,000	NA	21.71	8.62	NA	13.09	NA	4.7
MW-5	01/18/1999	9,120	13.8	<2.50	315	74.5	131	NA	21.71	6.75	NA	14.96	NA	2.1
MW-5	04/12/1999	16,200	80.9	<50.0	163	<50.0	8,310	NA	21.71	4.80	NA	16.91	NA	2.3
MW-5	07/27/1999	6,820	<5.00	<5.00	99.7	<5.00	216	NA	21.71	6.25	NA	15.46	NA	2.1
MW-5	10/14/1999	10,800	47.8	<12.5	313	23.1	232	NA	21.71	6.93	NA	14.78	NA	2.8
MW-5	01/06/2000	9,920	39.8	15.4	220	69.6	478	NA	21.71	7.52	NA	14.19	NA	2.9
MW-5	04/05/2000	8,370	68.3	20.1	40.2	<10.0	1,570	NA	21.71	5.31	NA	16.40	NA	0.4
MW-5	07/20/2000	15,500	60.5	181	104	108	460	NA	21.71	5.40	NA	16.31	NA	1.7
MW-5	10/24/2000	5,170	24.3	12.6	16.5	9.79	130	NA	21.71	5.59	NA	16.12	NA	1.3
MW-5	01/19/2001	4,000	<5.00	17.4	88.1	22.6	371	NA	32.67	5.05	NA	27.62	NA	1.0
MW-5	04/27/2001	3,100	<1.0	<1.0	2.6	1.3	NA	210	32.67	5.38	NA	27.29	NA	1.3
MW-5	07/26/2001	11,000	1.4	<1.0	13	2.2	NA	46	32.67	7.17	NA	25.50	NA	1.6
MW-5	10/02/2001	5,300	6.2	3.4	60	11	NA	<100	32.67	7.86	NA	24.81	NA	2.2
MW-5	01/15/2002	3,800	1.0	<0.50	1.7	0.60	NA	120	32.67	4.35	NA	28.32	NA	1.7
MW-5	04/17/2002	4,600	0.61	<0.50	1.5	<0.50	NA	140	32.67	6.04	NA	26.63	NA	0.5
MW-5	07/11/2002	7,200	1.8	0.58	5.9	0.78	NA	130	32.67	6.72	NA	25.95	NA	4.2
MW-6	08/06/1991	28,000	1,400	200	1,300	4,200	NA	NA	22.32	10.61	NA	11.71	NA	NA
MW-6	10/23/1991	53,000	1,400	230	1,800	6,700	NA	NA	22.32	11.68	NA	10.64	NA	NA
MW-6	01/28/1992	87,000	1,200	470	2,000	6,600	NA	NA	22.32	8.90	NA	13.42	NA	NA
MW-6	05/05/1992	230,000	<500	<500	3,200	11,000	NA	NA	22.32	8.01	NA	14.31	NA	NA
MW-6	07/13/1992	2,700,000	<2,500	3,500	14,000	36,000	NA	NA	22.32	10.77	NA	11.55	NA	NA



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MW-6	10/12/1992	NA	NA	NA	NA	NA	NA	NA	22.32	8.68	NA	9.34	0.48	NA
MW-6	01/12/1993	NA	NA	NA	NA	NA	NA	NA	22.32	6.40	NA	15.92	<0.01	NA
MW-6	04/06/1993	320,000	2,500	14,000	980	14,000	NA	NA	22.32	5.93	NA	16.39	NA	NA
MW-6	07/12/1993	31,000	1,100	4,500	150	4,500	NA	NA	22.32	10.25	NA	12.07	NA	NA
MW-6	10/13/1993	NA	NA	NA	NA	NA	NA	NA	22.32	12.28	NA	10.20	0.20	NA
MW-6	01/20/1994	NA	NA	NA	NA	NA	NA	NA	22.32	9.14	NA	13.20	0.02	NA
MW-6	04/13/1994	NA	NA	NA	NA	NA	NA	NA	22.32	7.67	NA	14.66	0.01	NA
MW-6	07/19/1994	NA	NA	NA	NA	NA	NA	NA	22.32	10.07	NA	12.31	0.07	NA
MW-6	10/27/1994	NA	NA	NA	NA	NA	NA	NA	22.32	11.84	NA	10.57	0.11	NA
MW-6	01/03/1995	NA	NA	NA	NA	NA	NA	NA	22.32	7.80	NA	14.54	0.02	NA
MW-6	04/13/1995	NA	NA	NA	NA	NA	NA	NA	22.32	5.77	NA	16.57	0.02	NA
MW-6	06/30/1995	1,100,000	6,600	6,100	12,000	29,000	NA	NA	22.32	7.78	NA	14.54	NA	NA
MW-6	10/11/1995	30,000	130	<50	1,400	4,200	710	NA	22.32	10.06	NA	12.26	NA	NA
MW-6	01/17/1996	450,000	510	1,400	2,700	11,000	630	NA	22.32	6.91	NA	15.41	NA	NA
MW-6	04/10/1996	22,000	47	<10	350	860	<50	NA	22.32	5.92	NA	16.40	NA	NA
MW-6	07/30/1996	38,000	3,000	<100	1,100	2,600	560	NA	22.32	8.97	NA	13.35	NA	NA
MW-6	10/17/1996	34,000	470	<100	1,300	3,900	<500	NA	22.32	9.87	NA	12.45	NA	1.0
MW-6	01/22/1997	26,000	<100	<100	600	1,700	<500	NA	22.32	4.43	NA	17.89	NA	1.3
MW-6	04/01/1997	30,000	96	33	840	2,600	190	NA	22.32	6.84	NA	15.48	NA	1.4
MW-6	07/14/1997	29,000	200	<100	690	2,000	<500	NA	22.32	10.30	NA	12.02	NA	2.3
MW-6	10/08/1997	55,000	500	110	640	1,500	900	NA	22.32	10.46	NA	11.86	NA	0.0
MW-6	12/05/1997	Abandoned												
MW-6R	04/06/1999	NA	NA	NA	NA	NA	NA	NA	22.19	12.13	NA	10.06	NA	NA
MW-6R	04/12/1999	26,100	1,750	68.5	2,160	4,450	765	NA	22.19	6.10	NA	16.09	NA	2.4
MW-6R	07/27/1999	25,600	1,190	30.5	1,810	3,030	163	NA	22.19	8.60	NA	13.59	NA	2.5

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**  
**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-6R	10/14/1999	21,400	999	<50.0	1,400	1,680	<500	NA	22.19	9.35	NA	12.84	NA	2.0
MW-6R	01/06/2000	17,800	1,440	<50.0	1,310	2,340	301	NA	22.19	9.18	NA	13.01	NA	2.1
MW-6R	04/05/2000	24,400	1,470	63.1	1,750	3,590	496	NA	22.19	6.26	NA	15.93	NA	0.4
MW-6R	07/20/2000	17,200	1,070	42.9	1,260	2,490	725	NA	22.19	6.79	NA	15.40	NA	2.6
MW-6R	10/24/2000	17,200	1,890	107	869	1,620	1,320	NA	22.19	7.40	NA	14.79	NA	1.1
MW-6R	01/19/2001	15,000	1,120	40.2	1,240	2,230	1,670	NA	33.15	6.16	NA	26.99	NA	1.4
MW-6R	04/27/2001	25,000	1,300	24	1,300	2,400	NA	400	33.15	6.93	NA	26.22	NA	1.0
MW-6R	07/26/2001	31,000	1,500	31	1,800	3,000	NA	370	33.15	9.12	NA	24.03	NA	1.4
MW-6R	10/02/2001	28,000	1,100	28	1,800	2,800	NA	160	33.15	8.88	NA	24.27	NA	2.1
MW-6R	01/15/2002	17,000	1,400	19	900	1,500	NA	650	33.15	5.46	NA	27.69	NA	2.1
MW-6R	04/17/2002	33,000	1,600	33	1,700	3,100	NA	220	33.15	7.68	NA	25.47	NA	2.2
<b>MW-6R</b>	<b>07/11/2002</b>	<b>25,000</b>	<b>1,200</b>	<b>21</b>	<b>1,300</b>	<b>1,900</b>	<b>NA</b>	<b>240</b>	<b>33.15</b>	<b>8.75</b>	<b>NA</b>	<b>24.40</b>	<b>NA</b>	<b>1.6</b>
MW-7	08/06/1991	13,000	4,300	76	770	730	NA	NA	20.36	8.00	NA	12.36	NA	NA
MW-7	10/23/1991	18,000	3,200	31	660	770	NA	NA	20.36	8.16	NA	12.20	NA	NA
MW-7	01/28/1992	5,000	1,200	<10	220	54	NA	NA	20.36	7.11	NA	13.25	NA	NA
MW-7	05/05/1992	9,500	3,100	72	620	880	NA	NA	20.36	6.47	NA	13.89	NA	NA
MW-7	07/13/1992	20,000	4,200	130	1,600	1,100	NA	NA	20.36	7.73	NA	12.63	NA	NA
MW-7	10/12/1992	16,000	2,500	170	560	170	NA	NA	20.36	9.97	NA	11.68	NA	NA
MW-7	01/12/1993	15,000	2,300	<50	690	440	NA	NA	20.36	6.26	NA	14.10	NA	NA
MW-7	04/06/1993	26,000	5,400	<0.5	1,200	3,000	NA	NA	20.36	5.92	NA	14.44	NA	NA
MW-7	07/12/1993	10,000	3,000	100	510	530	NA	NA	20.36	7.27	NA	13.09	NA	NA
MW-7	10/13/1993	59,000	13,000	4,400	4,400	20,000	NA	NA	20.36	9.40	NA	10.96	NA	NA
MW-7	01/20/1994	NA	NA	NA	NA	NA	NA	NA	20.36	7.03	NA	13.37	0.05	NA
MW-7	04/13/1994	NA	NA	NA	NA	NA	NA	NA	20.36	6.56	NA	13.93	0.16	NA
MW-7	07/19/1994	NA	NA	NA	NA	NA	NA	NA	20.36	6.91	NA	13.61	0.20	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
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**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-7	10/27/1994	NA	NA	NA	NA	NA	NA	NA	20.36	8.28	NA	12.11	0.04	NA
MW-7	01/03/1995	NA	NA	NA	NA	NA	NA	NA	20.36	6.48	NA	13.90	0.02	NA
MW-7	04/13/1995	NA	NA	NA	NA	NA	NA	NA	20.36	6.54	NA	13.84	0.02	NA
MW-7	06/30/1995	900,000	11,000	8,500	14,000	52,000	NA	NA	20.36	7.08	NA	13.28	NA	NA
MW-7	10/11/1995	NA	NA	NA	NA	NA	NA	NA	20.36	7.88	NA	12.51	0.04	NA
MW-7	01/17/1996	NA	NA	NA	NA	NA	NA	NA	20.36	7.26	NA	13.13	0.04	NA
MW-7	04/10/1996	NA	NA	NA	NA	NA	NA	NA	20.36	6.98	NA	13.42	0.05	NA
MW-7	07/30/1996	NA	NA	NA	NA	NA	NA	NA	20.36	7.34	NA	13.04	0.03	NA
MW-7	10/17/1996	NA	NA	NA	NA	NA	NA	NA	20.36	7.63	NA	12.75	0.02	NA
MW-7	01/22/1997	56,000	2,000	520	1,400	8,400	1,800	NA	20.36	6.46	NA	13.90	NA	0.5
MW-7	04/01/1997	66,000	3,600	460	2,400	10,000	2,300	NA	20.36	6.97	NA	13.39	NA	1.6
MW-7	07/14/1997	NA	NA	NA	NA	NA	NA	NA	20.36	8.90	NA	11.48	0.03	NA
MW-7	10/08/1997	68,000	3,200	470	2,400	9,700	3,300	NA	20.36	9.21	NA	11.15	0.01	2.1
MW-7	01/19/1998	44,000	1,800	220	1,700	7,800	1,600	NA	20.36	4.65	NA	15.71	NA	1.6
MW-7	04/28/1998	82,000	1,500	<500	1,200	8,900	<2,500	NA	20.36	6.53	NA	13.83	NA	1.3
MW-7	09/30/1998	41,000	2,300	290	2,200	7,000	1,400	NA	20.35	5.59	NA	14.76	NA	1.4
MW-7	12/09/1998	31,000	530	130	1,100	4,300	<500	NA	20.35	5.91	NA	14.44	NA	4.9
MW-7	01/18/1999	35,300	975	175	1,360	5,750	256	NA	20.35	5.02	NA	15.33	NA	1.2
MW-7	04/12/1999	43,300	728	161	1,820	6,190	<500	NA	20.35	4.57	NA	15.78	NA	1.3
MW-7	07/27/1999	36,600	863	68.3	1,540	4,370	593	NA	20.35	5.36	NA	14.99	NA	1.2
MW-7	10/14/1999	65,600	1,140	157	2,230	7,060	1,090	NA	20.35	5.87	NA	14.48	NA	1.8
MW-7	01/06/2000	57,100	1,060	142	1,540	5,980	634	NA	20.35	6.12	NA	14.23	NA	1.8
MW-7	04/05/2000	36,500	843	<100	1,460	4,220	1,140	NA	20.35	4.87	NA	15.48	NA	1.4
MW-7	07/20/2000	28,400	263	251	457	1,300	690	NA	20.35	5.01	NA	15.34	NA	1.7
MW-7	10/24/2000	33,500	464	<200	1,600	3,830	<1,000	NA	20.35	4.17	NA	16.18	NA	1.5
MW-7	01/19/2001	1,860,000	<2,000	<2,000	<2,000	5,790	<10,000	NA	31.31	5.18	NA	26.13	NA	1.2

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
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**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-7	04/27/2001	31,000	150	20	1,400	3,000	NA	190	31.31	4.99	NA	26.32	NA	1.4
MW-7	07/26/2001	30,000	340	20	1,500	2,600	NA	380	31.31	6.20	NA	25.11	NA	1.1
MW-7	10/02/2001	38,000	480	9.0	970	2,600	NA	300	31.31	6.45	NA	24.86	NA	1.5
MW-7	01/15/2002	33,000	160	6.6	810	1,300	NA	130	31.31	4.31	NA	27.00	NA	2.0
MW-7	04/17/2002	28,000	160	6.1	1,000	1,700	NA	140	31.31	4.12	NA	27.19	NA	1.2
<b>MW-7</b>	<b>07/11/2002</b>	<b>26,000</b>	<b>200</b>	<b>&lt;5.0</b>	<b>830</b>	<b>1,300</b>	<b>NA</b>	<b>170</b>	<b>31.31</b>	<b>5.90</b>	<b>NA</b>	<b>25.41</b>	<b>NA</b>	<b>3.0</b>
MW-8	08/06/1991	32,000	3,700	1,100	1,400	6,100	NA	NA	20.95	9.60	NA	11.35	NA	NA
MW-8	10/23/1991	63,000	4,800	1,300	1,300	6,900	NA	NA	20.95	9.73	NA	11.22	NA	NA
MW-8	01/28/1992	32,000	1,900	750	1,400	6,300	NA	NA	20.95	7.72	NA	13.23	NA	NA
MW-8	05/05/1992	180,000	2,200	2,000	2,700	13,000	NA	NA	20.95	6.48	NA	14.47	NA	NA
MW-8	07/13/1992	56,000	4,500	1,500	2,700	9,100	NA	NA	20.95	8.55	NA	12.40	NA	NA
MW-8	10/12/1992	34,000	2,400	550	1,400	6,400	NA	NA	20.95	9.97	NA	10.98	NA	NA
MW-8	01/12/1993	110,000	2,100	1,200	2,400	12,000	NA	NA	20.95	6.94	NA	14.01	NA	NA
MW-8	04/06/1993	38,000	2,500	840	1,100	4,900	NA	NA	20.95	5.72	NA	15.23	NA	NA
MW-8	07/12/1993	27,000	2,800	990	1,200	5,300	NA	NA	20.95	7.65	NA	13.30	NA	NA
MW-8	10/13/1993	32,000	3,300	1,300	1,600	8,400	NA	NA	20.95	8.25	NA	12.70	NA	NA
MW-8	01/20/1994	78,000	1,900	670	1,300	6,600	NA	NA	20.95	7.25	NA	13.70	NA	NA
MW-8	04/13/1994	41,000	1,300	720	1,200	6,000	NA	NA	20.95	7.12	NA	13.83	NA	NA
MW-8	07/19/1994	140,000	1,800	1,400	2,000	9,000	NA	NA	20.95	7.43	NA	13.52	NA	NA
MW-8	10/27/1994	32,000	1,200	670	1,200	5,700	NA	NA	20.95	7.55	NA	13.40	NA	NA
MW-8	01/03/1995	38,000	1,000	700	1,500	7,500	NA	NA	20.95	6.04	NA	14.91	NA	NA
MW-8	04/13/1995	31,000	1,200	570	1,000	5,300	NA	NA	20.95	5.04	NA	15.91	NA	NA
MW-8	06/30/1995	110,000	2,000	1,500	2,000	9,700	NA	NA	20.95	5.72	NA	15.23	NA	NA
MW-8	10/11/1995	36,000	170	60	1,300	6,300	510	NA	20.95	7.06	NA	13.89	NA	NA
MW-8	01/17/1996	38,000	1,000	520	1,100	6,200	950	NA	20.95	5.84	NA	15.11	NA	NA

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Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-8	04/10/1996	54,000	650	260	850	4,700	<250	NA	20.95	5.03	NA	15.92	NA	NA
MW-8	07/30/1996	33,000	780	330	830	4,200	1,700	NA	20.95	6.36	NA	14.59	NA	NA
MW-8	10/17/1996	35,000	750	300	1,100	5,000	1,200	NA	20.95	5.94	NA	15.01	NA	1.6
MW-8	01/22/1997	25,000	260	78	420	2,400	120	NA	20.95	5.93	NA	15.02	NA	1.8
MW-8	04/01/1997	22,000	680	180	550	2,500	260	NA	20.95	6.24	NA	14.71	NA	1.8
MW-8	07/14/1997	29,000	870	200	850	3,100	500	NA	20.95	8.59	NA	12.36	NA	1.4
MW-8	10/08/1997	27,000	1,000	190	960	3,000	170	NA	20.95	9.04	NA	11.91	NA	4.6
MW-8	01/19/1998	21,000	660	160	740	3,300	170	NA	20.95	3.34	NA	17.61	NA	2.2
MW-8	04/28/1998	Inaccessible		NA	NA	NA	NA	NA	20.95	NA	NA	NA	NA	NA
MW-8	09/30/1998	19,000	370	230	880	3,800	410	NA	21.15	7.00	NA	14.15	NA	1.2
MW-8	12/09/1998	1,400	92	90	74	260	<250	NA	21.15	6.38	NA	14.77	NA	3.6
MW-8	01/18/1999	317	<0.500	<0.500	3.04	0.984	3.92	NA	21.15	1.85	NA	19.30	NA	2.0
MW-8	04/12/1999	8,300	35.6	24.4	144	466	<100	NA	21.15	3.65	NA	17.50	NA	1.6
MW-8	07/27/1999	12,700	<5.00	5.47	281	1,130	50.3	NA	21.15	5.00	NA	16.15	NA	1.4
MW-8	10/14/1999	11,900	86.7	16.9	210	469	<100	NA	21.15	5.95	NA	15.20	NA	1.2
MW-8	01/06/2000	5,930	65	12.4	106	129	203.0	NA	21.15	6.19	NA	14.96	NA	1.3
MW-8	04/05/2000	6,770	100	<50.0	61.3	150	322	NA	21.15	5.14	NA	16.01	NA	2.1
MW-8	07/20/2000	28,900	109	307	119	235	337	NA	21.15	5.21	NA	15.94	NA	2.1
MW-8	10/24/2000	8,620	99.0	12.8	152	366	225	NA	21.15	3.11	NA	18.04	NA	1.0
MW-8	01/19/2001	5,590	49.4	6.50	26.0	57.4	99.5	NA	32.11	5.35	NA	26.76	NA	1.8
MW-8	04/27/2001	3,800	<0.50	<0.50	14	31	NA	<5.0	32.11	4.58	NA	27.53	NA	0.7
MW-8	07/26/2001	4,400	0.88	0.59	7.0	14	NA	<5.0	32.11	5.83	NA	26.28	NA	0.9
MW-8	10/02/2001	1,800	9.8	<0.50	23	16	NA	<5.0	32.11	6.50	NA	25.61	NA	1.2
MW-8	01/15/2002	2,700	1.2	1.5	0.93	1.7	NA	12	32.11	5.07	NA	27.04	NA	1.6
MW-8	04/17/2002	3,200	2.2	<1.0	9.0	14	NA	<10	32.11	3.80	NA	28.31	NA	1.0
<b>MW-8</b>	<b>07/11/2002</b>	<b>6,500</b>	<b>23</b>	<b>1.0</b>	<b>12</b>	<b>19</b>	<b>NA</b>	<b>&lt;10</b>	<b>32.11</b>	<b>6.29</b>	<b>NA</b>	<b>25.82</b>	<b>NA</b>	<b>1.9</b>

**WELL CONCENTRATIONS**  
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Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-9	08/06/1991	11,000	1,700	95	520	1,400	NA	NA	21.19	10.33	NA	10.86	NA	NA
MW-9	10/23/1991	20,000	1,000	47	<0.3	940	NA	NA	21.19	11.13	NA	10.06	NA	NA
MW-9	01/28/1992	3,500	120	<10	280	36	NA	NA	21.19	9.02	NA	12.17	NA	NA
MW-9	05/04/1992	7,700	1,200	<50	380	630	NA	NA	21.19	7.67	NA	13.52	NA	NA
MW-9	07/20/1992	11,000	910	<50	220	1,200	NA	NA	21.19	10.26	NA	10.93	NA	NA
MW-9	10/12/1992	2,100	340	15	77	44	NA	NA	21.19	12.19	NA	9.00	NA	NA
MW-9	01/12/1993	Inaccessible		NA	NA	NA	NA	NA	21.19	NA	NA	NA	NA	NA
MW-9	04/06/1993	Inaccessible		NA	NA	NA	NA	NA	21.19	NA	NA	NA	NA	NA
MW-9	07/12/1993	Inaccessible		NA	NA	NA	NA	NA	21.19	NA	NA	NA	NA	NA
MW-9	10/13/1993	2,900	140	<5	<5	120	NA	NA	21.19	11.17	NA	10.02	NA	NA
MW-9	01/20/1994	1,700	380	6.90	150	400	NA	NA	21.19	8.03	NA	13.16	NA	NA
MW-9	04/13/1994	6,000	1,000	<20	450	420	NA	NA	21.19	7.81	NA	13.38	NA	NA
MW-9	07/19/1994	12,000	1,400	<5	740	1,200	NA	NA	21.19	8.96	NA	12.23	NA	NA
MW-9	10/27/1994	10,000	1,200	160	280	860	NA	NA	21.19	11.00	NA	10.19	NA	NA
MW-9	01/03/1995	4,400	680	7.70	180	370	NA	NA	21.19	6.60	NA	14.59	NA	NA
MW-9	04/13/1995	1,700	270	<10	69	170	NA	NA	21.19	6.73	NA	14.46	NA	NA
MW-9	06/30/1995	14,000	2,200	18	900	2,600	NA	NA	21.19	7.32	NA	13.87	NA	NA
MW-9	10/11/1995	9,600	35	12	360	980	590	NA	21.19	8.10	NA	13.09	NA	NA
MW-9	01/17/1996	2,800	150	7.41	54	130	170	NA	21.19	5.75	NA	15.44	NA	NA
MW-9	04/10/1996	5,200	290	<5	92	220	240	NA	21.19	5.17	NA	16.02	NA	NA
MW-9	07/30/1996	5,100	960	<10	380	770	670	NA	21.19	8.10	NA	13.09	NA	NA
MW-9	10/17/1996	15,000	2,100	<25	590	1,300	1,500	NA	21.19	9.12	NA	12.07	NA	2.4
MW-9	01/22/1997	5,600	690	<5.0	140	310	620	NA	21.19	4.72	NA	16.47	NA	2.2
MW-9	04/01/1997	4,000	590	<10	140	200	600	NA	21.19	6.86	NA	14.33	NA	2.2
MW-9	07/14/1997	7,100	860	<10	51	230	950	NA	21.19	10.04	NA	11.15	NA	3.8

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**  
**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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MW-9	10/08/1997	1,500	57	<2.0	2.0	13	540	NA	21.19	11.38	NA	9.81	NA	8.2
MW-9	01/19/1998	2,500	280	<20	79	61	620	NA	21.19	3.88	NA	17.31	NA	1.4
MW-9	04/28/1998	2,200	330	<20	91	110	640	NA	21.19	5.87	NA	15.32	NA	1.6
MW-9	09/30/1998	2,800	490	<5.0	87	240	1,200	NA	21.19	8.25	NA	12.94	NA	4.0
MW-9	12/09/1998	3,700	370	<5.0	83	130	1,100	NA	21.19	8.07	NA	13.12	NA	2.9
MW-9	01/18/1999	9,670	1,110	<5.00	442	571	786	NA	21.19	7.54	NA	13.65	NA	3.2
MW-9	04/12/1999	3,140	272	<10.0	41.6	114	542	NA	21.19	5.60	NA	15.59	NA	1.7
MW-9	07/27/1999	3,580	247	<1.00	67.7	137	432	NA	21.19	7.30	NA	13.89	NA	1.6
MW-9	10/14/1999	3,200	199	<10.0	74.1	88.9	468	NA	21.19	7.26	NA	13.93	NA	1.4
MW-9	01/06/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	21.19	8.31	NA	12.88	NA	1.5
MW-9	04/05/2000	2,790	156	<5.00	39.1	57.8	399	NA	21.19	5.40	NA	15.79	NA	0.9
MW-9	07/20/2000	5,530	283	14.9	379	728	92.7	NA	21.19	5.70	NA	15.49	NA	2.1
MW-9	10/24/2000	3,090	110	<5.00	46.4	63.3	362	NA	21.19	5.90	NA	15.29	NA	1.0
MW-9	01/19/2001	6,060	180	<5.00	181	164	231	NA	32.15	5.39	NA	26.76	NA	1.2
MW-9	04/27/2001	2,700	56	<0.50	26	46	NA	150	32.15	5.38	NA	26.77	NA	1.2
MW-9	07/26/2001	4,200	50	<0.50	28	53	NA	180	32.15	6.45	NA	25.70	NA	1.0
MW-9	10/02/2001	11,000	150	<2.0	120	140	NA	180	32.15	6.10	NA	26.05	NA	1.4
MW-9	01/15/2002	1,200	<0.50	<0.50	<0.50	<0.50	NA	<5.0	32.15	4.77	NA	27.38	NA	1.2
MW-9	04/17/2002	2,200	24	<0.50	26	27	NA	96	32.15	5.57	NA	26.58	NA	0.6
<b>MW-9</b>	<b>07/11/2002</b>	<b>4,600</b>	<b>21</b>	<b>&lt;0.50</b>	<b>17</b>	<b>33</b>	<b>NA</b>	<b>140</b>	<b>32.15</b>	<b>6.64</b>	<b>NA</b>	<b>25.51</b>	<b>NA</b>	<b>2.1</b>

MW-10	10/23/1991	27,000	1,600	110	1,800	510	NA	NA	19.74	8.57	NA	11.17	NA	NA
MW-10	01/28/1992	3,800	360	14	170	39	NA	NA	19.74	7.60	NA	12.14	NA	NA
MW-10	05/04/1992	3,000	360	<12.5	140	26	NA	NA	19.74	7.54	NA	12.20	NA	NA
MW-10	07/20/1992	15,000	400	<25	180	67	NA	NA	19.74	8.59	NA	11.15	NA	NA
MW-10	10/12/1992	16,000	320	<50	360	100	NA	NA	19.74	10.23	NA	9.51	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**  
**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-10	01/12/1993	Inaccessible		NA	NA	NA	NA	NA	19.74	NA	NA	NA	NA	NA
MW-10	04/06/1993	14,000	370	<0.5	880	210	NA	NA	19.74	6.70	NA	13.04	NA	NA
MW-10	07/12/1993	10,000	440	58	890	220	NA	NA	19.74	8.05	NA	11.69	NA	NA
MW-10	10/13/1993	15,000	1,000	51	810	170	NA	NA	19.74	8.25	NA	11.49	NA	NA
MW-10	01/20/1994	12,000	820	56	1,100	350	NA	NA	19.74	7.20	NA	12.54	NA	NA
MW-10	04/13/1994	18,000	760	36	700	130	NA	NA	19.74	7.57	NA	12.17	NA	NA
MW-10	07/19/1994	24,000	400	2.30	800	22	NA	NA	19.74	8.18	NA	11.56	NA	NA
MW-10	10/27/1994	11,000	360	43	310	89	NA	NA	19.74	8.68	NA	11.06	NA	NA
MW-10	01/03/1995	17,000	770	38	690	160	NA	NA	19.74	6.86	NA	12.88	NA	NA
MW-10	04/13/1995	9,900	650	16	280	40	NA	NA	19.74	6.91	NA	12.83	NA	NA
MW-10	06/30/1995	12,000	750	20	480	130	NA	NA	19.74	7.61	NA	12.13	NA	NA
MW-10	01/17/1996	17,000	870	260	93	830	NA	NA	19.74	7.00	NA	12.74	NA	NA
MW-10	04/10/1996	14,000	470	38	110	370	NA	NA	19.74	6.80	NA	NA	NA	NA
MW-10	07/30/1996	NA	NA	NA	NA	NA	NA	NA	19.74	NA	NA	NA	NA	NA
MW-10	10/17/1996	NA	NA	NA	NA	NA	NA	NA	19.74	NA	NA	NA	NA	NA
MW-10	01/22/1997	10,000	520	<20	64	32	180	NA	19.74	6.68	NA	13.06	NA	3.1
MW-10	04/01/1997	11,000	590	<20	53	32	210	NA	19.74	7.34	NA	12.40	NA	2.8
MW-10	07/14/1997	6,600	410	13	28	11	89	NA	19.74	8.10	NA	11.64	NA	1.4
MW-10	10/08/1997	7,600	220	13	65	22	190	NA	19.74	8.20	NA	11.54	NA	6.4
MW-10	01/19/1998	Inaccessible		NA	NA	NA	NA	NA	19.74	NA	NA	NA	NA	NA
MW-10	04/28/1998	Inaccessible		NA	NA	NA	NA	NA	19.74	NA	NA	NA	NA	NA
MW-10	09/30/1998	Inaccessible		NA	NA	NA	NA	NA	19.76	8.11	NA	11.65	NA	NA
MW-10	12/09/1998	28,000	150	<100	240	160	<500	NA	19.76	8.21	NA	11.55	NA	2.7
MW-10	01/18/1999	Inaccessible		NA	NA	NA	NA	NA	19.76	NA	NA	NA	NA	NA
MW-10	04/12/1999	8,320	71.2	27.4	138	456	<100	NA	19.76	5.96	NA	13.80	NA	1.8
MW-10	07/27/1999	Inaccessible		NA	NA	NA	NA	NA	19.76	NA	NA	NA	NA	NA



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**  
**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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MW-10	10/14/1999	Inaccessible		NA	NA	NA	NA	NA	19.76	NA	NA	NA	NA	NA
MW-10	01/06/2000	Inaccessible		NA	NA	NA	NA	NA	19.76	NA	NA	NA	NA	NA
MW-10	02/01/2000	4880	40.2	5.27	27.0	8.42	75.5	23.9	19.76	6.43	NA	13.33	NA	1.6
MW-10	04/05/2000	4,950	97.6	6.72	20.2	5.39	104	NA	19.76	7.00	NA	12.76	NA	1.7
MW-10	07/20/2000	2,800	166	191	27.6	88.7	81.5	NA	19.76	7.03	NA	12.73	NA	1.0
MW-10	10/24/2000	5,070	79.6	46.6	34.2	11.7	242	NA	19.76	7.96	NA	11.80	NA	1.9
MW-10	01/19/2001	Inaccessible		NA	NA	NA	NA	NA	19.76	NA	NA	NA	NA	NA
MW-10	01/30/2001	6,920	362	14.2	22.7	<10.0	138	NA	30.75	7.32	NA	23.43	NA	2.2
MW-10	04/27/2001	12,000	35	<2.5	37	6.5	NA	51	30.75	8.28	NA	22.47	NA	1.2
MW-10	07/26/2001	Inaccessible		NA	NA	NA	NA	NA	30.75	NA	NA	NA	NA	NA
MW-10	10/02/2001	Inaccessible		NA	NA	NA	NA	NA	30.75	NA	NA	NA	NA	NA
MW-10	10/23/2001	470	3.5	<0.50	<0.50	<0.50	NA	<5.0	30.75	7.02	NA	23.73	NA	1.8
MW-10	01/15/2002	3,000	5.4	<0.50	7.9	2.1	NA	12	30.75	6.69	NA	24.06	NA	2.7
MW-10	04/17/2002	5,100	7.9	<1.0	9.3	2.6	NA	15	30.75	7.34	NA	23.41	NA	0.6
<b>MW-10</b>	<b>07/11/2002</b>	<b>5,700</b>	<b>38</b>	<b>2.2</b>	<b>7.8</b>	<b>3.5</b>	<b>NA</b>	<b>43</b>	<b>30.75</b>	<b>7.85</b>	<b>NA</b>	<b>22.90</b>	<b>NA</b>	<b>2.0</b>

MW-11	10/23/1991	140	<12	<0.3	0.37	0.56	NA	NA	22.06	8.06	NA	8.06	NA	NA
MW-11	01/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	8.74	NA	3.32	NA	NA
MW-11	05/04/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	8.29	NA	13.77	NA	NA
MW-11	07/13/1992	140	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	10.50	NA	11.56	NA	NA
MW-11	10/12/1992	75	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	12.40	NA	9.66	NA	NA
MW-11	01/12/1993	Inaccessible		NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	04/06/1993	Inaccessible		NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	07/12/1993	Inaccessible		NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	10/13/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	11.47	NA	10.59	NA	NA
MW-11	01/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	9.09	NA	12.97	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**  
**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-11	04/13/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	8.02	NA	14.04	NA	NA
MW-11	07/19/1994	50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	9.82	NA	12.24	NA	NA
MW-11	10/27/1994	60*	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	11.66	NA	10.40	NA	NA
MW-11	01/03/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	6.15	NA	15.91	NA	NA
MW-11	04/13/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	6.00	NA	16.06	NA	NA
MW-11	06/30/1995	70	<0.5	<0.5	<0.5	<0.5	NA	NA	22.06	8.31	NA	13.75	NA	NA
MW-11	10/11/1995	60	53	<0.5	<0.5	0.80	3.0	NA	22.06	10.30	NA	11.76	NA	NA
MW-11	01/17/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	22.06	6.45	NA	15.61	NA	NA
MW-11	04/10/1996	<50	<0.5	<0.5	<0.5	<0.5	3.9	NA	22.06	6.05	NA	16.01	NA	NA
MW-11	07/30/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	22.06	8.92	NA	13.14	NA	NA
MW-11	10/17/1996	3,000	28	23	29	210	76	NA	22.06	9.24	NA	12.82	NA	NA
MW-11	01/22/1997	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	22.06	5.12	NA	16.94	NA	3.7
MW-11	04/01/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.06	7.41	NA	14.65	NA	2.8
MW-11	07/14/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.06	9.74	NA	12.32	NA	1.9
MW-11	10/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.06	10.23	NA	11.83	NA	2.4
MW-11	01/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.06	3.69	NA	18.37	NA	3.2
MW-11	04/28/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.06	5.83	NA	16.23	NA	3.0
MW-11	09/30/1998	Inaccessible		NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	12/09/1998	Inaccessible		NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	01/18/1999	Inaccessible		NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	04/12/1999	Inaccessible		NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	04/26/1999	63	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.06	5.80	NA	16.26	NA	3.6
MW-11	07/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	6.02	NA	22.06	8.30	NA	13.76	NA	2.0
MW-11	10/14/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.06	8.99	NA	13.07	NA	2.4
MW-11	01/06/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.06	9.93	NA	12.13	NA	2.9
MW-11	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	3.53	NA	22.06	5.90	NA	16.16	NA	1.8

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**Wic #204-5508-5306**

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-11	07/20/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.06	6.13	NA	15.93	NA	1.7
MW-11	10/24/2000	NA	NA	NA	NA	NA	NA	NA	22.06	7.45	NA	14.61	NA	NA
MW-11	01/19/2001	<50.0	<0.500	<0.500	<0.500	<0.500	4.29	NA	32.99	5.95	NA	27.04	NA	1.6
MW-11	04/27/2001	NA	NA	NA	NA	NA	NA	NA	32.99	6.12	NA	26.87	NA	NA
MW-11	07/26/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	32.99	7.65	NA	25.34	NA	2.1
MW-11	10/02/2001	NA	NA	NA	NA	NA	NA	NA	32.99	6.17	NA	26.82	NA	NA
MW-11	01/15/2002	69	<0.50	<0.50	<0.50	<0.50	NA	<5.0	32.99	4.95	NA	28.04	NA	1.5
MW-11	04/17/2002	NA	NA	NA	NA	NA	NA	NA	32.99	6.35	NA	26.64	NA	NA
<b>MW-11</b>	<b>07/11/2002</b>	<b>58</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>32.99</b>	<b>7.47</b>	<b>NA</b>	<b>25.52</b>	<b>NA</b>	<b>2.3</b>

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8260B; prior to April 27, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to April 27, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft = Feet

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
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**Oakland, CA**  
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Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon.

b = MTBE could not be quantified due to co-eluting compounds.

\* = This sample was analyzed outside the EPA recommended holding time.

Resurvey of wells was performed on August 28, 1998, by Virgil Chavez Land Surveying.

All wells except MW-11 surveyed February 26, 2001, by Virgil Chavez Land Surveying of Vallejo, California.



Report Number : 27453

Date : 7/19/2002

Leon Gearhart  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Subject : 11 Water Samples  
Project Name : 3420 San Pablo Avenue, Oakland  
Project Number : 020711-BA1  
P.O. Number : 98995748

Dear Mr. Gearhart,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 27453

Date : 7/19/2002

Subject : 11 Water Samples  
Project Name : 3420 San Pablo Avenue, Oakland  
Project Number : 020711-BA1  
P.O. Number : 98995748

## Case Narrative

Hydrocarbons reported as TPH as Gasoline do not exhibit a typical Gasoline chromatographic pattern for samples MW-3R and MW-11.

Approved By:  \_\_\_\_\_  
Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Report Number : 27453

Date : 7/19/2002

Project Name : 3420 San Pablo Avenue, Oakland

Project Number : 020711-BA1

Sample : MW-1

Matrix : Water

Lab Number : 27453-01

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	25	1.0	ug/L	EPA 8260B	7/18/2002
Toluene	1.1	1.0	ug/L	EPA 8260B	7/18/2002
Ethylbenzene	< 1.0	1.0	ug/L	EPA 8260B	7/18/2002
Total Xylenes	2.1	1.0	ug/L	EPA 8260B	7/18/2002
Methyl-t-butyl ether (MTBE)	500	10	ug/L	EPA 8260B	7/18/2002
TPH as Gasoline	2700	100	ug/L	EPA 8260B	7/18/2002
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	7/18/2002
4-Bromofluorobenzene (Surr)	92.0		% Recovery	EPA 8260B	7/18/2002

Sample : MW-2

Matrix : Water

Lab Number : 27453-02

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	3600	20	ug/L	EPA 8260B	7/19/2002
Toluene	18	2.0	ug/L	EPA 8260B	7/18/2002
Ethylbenzene	2700	20	ug/L	EPA 8260B	7/19/2002
Total Xylenes	2200	20	ug/L	EPA 8260B	7/19/2002
Methyl-t-butyl ether (MTBE)	110	20	ug/L	EPA 8260B	7/18/2002
TPH as Gasoline	34000	2000	ug/L	EPA 8260B	7/19/2002
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	7/18/2002
4-Bromofluorobenzene (Surr)	94.3		% Recovery	EPA 8260B	7/18/2002

Approved By:  Joel Kiff



Report Number : 27453

Date : 7/19/2002

Project Name : 3420 San Pablo Avenue, Oakland

Project Number : 020711-BA1

Sample : MW-3R

Matrix : Water

Lab Number : 27453-03

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
<b>Methyl-t-butyl ether (MTBE)</b>	65	5.0	ug/L	EPA 8260B	7/17/2002
<b>TPH as Gasoline</b>	110	50	ug/L	EPA 8260B	7/17/2002
Toluene - d8 (Surr)	96.8		% Recovery	EPA 8260B	7/17/2002
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	7/17/2002

Sample : MW-4

Matrix : Water

Lab Number : 27453-04

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	82	10	ug/L	EPA 8260B	7/17/2002
<b>Toluene</b>	< 10	10	ug/L	EPA 8260B	7/17/2002
<b>Ethylbenzene</b>	< 10	10	ug/L	EPA 8260B	7/17/2002
<b>Total Xylenes</b>	11	10	ug/L	EPA 8260B	7/17/2002
<b>Methyl-t-butyl ether (MTBE)</b>	4500	100	ug/L	EPA 8260B	7/17/2002
<b>TPH as Gasoline</b>	1800	1000	ug/L	EPA 8260B	7/17/2002
Toluene - d8 (Surr)	97.0		% Recovery	EPA 8260B	7/17/2002
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	7/17/2002

Approved By:  Joel Kiff





Report Number : 27453

Date : 7/19/2002

Project Name : 3420 San Pablo Avenue, Oakland

Project Number : 020711-BA1

Sample : MW-5

Matrix : Water

Lab Number : 27453-05

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>1.8</b>	0.50	ug/L	EPA 8260B	7/15/2002
<b>Toluene</b>	<b>0.58</b>	0.50	ug/L	EPA 8260B	7/15/2002
<b>Ethylbenzene</b>	<b>5.9</b>	0.50	ug/L	EPA 8260B	7/15/2002
<b>Total Xylenes</b>	<b>0.78</b>	0.50	ug/L	EPA 8260B	7/15/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>130</b>	5.0	ug/L	EPA 8260B	7/15/2002
<b>TPH as Gasoline</b>	<b>7200</b>	100	ug/L	EPA 8260B	7/15/2002
Toluene - d8 (Surr)	90.3		% Recovery	EPA 8260B	7/15/2002
4-Bromofluorobenzene (Surr)	95.7		% Recovery	EPA 8260B	7/15/2002

Sample : MW-6R

Matrix : Water

Lab Number : 27453-06

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>1200</b>	10	ug/L	EPA 8260B	7/17/2002
<b>Toluene</b>	<b>21</b>	10	ug/L	EPA 8260B	7/17/2002
<b>Ethylbenzene</b>	<b>1300</b>	10	ug/L	EPA 8260B	7/17/2002
<b>Total Xylenes</b>	<b>1900</b>	10	ug/L	EPA 8260B	7/17/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>240</b>	100	ug/L	EPA 8260B	7/17/2002
<b>TPH as Gasoline</b>	<b>25000</b>	1000	ug/L	EPA 8260B	7/17/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	7/17/2002
4-Bromofluorobenzene (Surr)	97.3		% Recovery	EPA 8260B	7/17/2002

Approved By:  Joel Kiff



Report Number : 27453

Date : 7/19/2002

Project Name : 3420 San Pablo Avenue, Oakland

Project Number : 020711-BA1

Sample : MW-7

Matrix : Water

Lab Number : 27453-07

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>200</b>	5.0	ug/L	EPA 8260B	7/19/2002
<b>Toluene</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	7/19/2002
<b>Ethylbenzene</b>	<b>830</b>	5.0	ug/L	EPA 8260B	7/19/2002
<b>Total Xylenes</b>	<b>1300</b>	5.0	ug/L	EPA 8260B	7/19/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>170</b>	50	ug/L	EPA 8260B	7/19/2002
<b>TPH as Gasoline</b>	<b>26000</b>	500	ug/L	EPA 8260B	7/19/2002
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	7/19/2002
4-Bromofluorobenzene (Surr)	108		% Recovery	EPA 8260B	7/19/2002

Sample : MW-8

Matrix : Water

Lab Number : 27453-08

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>23</b>	1.0	ug/L	EPA 8260B	7/17/2002
<b>Toluene</b>	<b>1.0</b>	1.0	ug/L	EPA 8260B	7/17/2002
<b>Ethylbenzene</b>	<b>12</b>	1.0	ug/L	EPA 8260B	7/17/2002
<b>Total Xylenes</b>	<b>19</b>	1.0	ug/L	EPA 8260B	7/17/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 10</b>	10	ug/L	EPA 8260B	7/17/2002
<b>TPH as Gasoline</b>	<b>6500</b>	100	ug/L	EPA 8260B	7/17/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	7/17/2002
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	7/17/2002

Approved By:  Joel Kiff



Report Number : 27453

Date : 7/19/2002

Project Name : 3420 San Pablo Avenue, Oakland

Project Number : 020711-BA1

Sample : MW-9

Matrix : Water

Lab Number : 27453-09

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>21</b>	0.50	ug/L	EPA 8260B	7/15/2002
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/15/2002
<b>Ethylbenzene</b>	<b>17</b>	0.50	ug/L	EPA 8260B	7/15/2002
<b>Total Xylenes</b>	<b>33</b>	0.50	ug/L	EPA 8260B	7/15/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>140</b>	5.0	ug/L	EPA 8260B	7/15/2002
<b>TPH as Gasoline</b>	<b>4600</b>	50	ug/L	EPA 8260B	7/15/2002
Toluene - d8 (Surr)	90.7		% Recovery	EPA 8260B	7/15/2002
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	7/15/2002

Sample : MW-10

Matrix : Water

Lab Number : 27453-10

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>38</b>	2.0	ug/L	EPA 8260B	7/17/2002
<b>Toluene</b>	<b>2.2</b>	2.0	ug/L	EPA 8260B	7/17/2002
<b>Ethylbenzene</b>	<b>7.8</b>	2.0	ug/L	EPA 8260B	7/17/2002
<b>Total Xylenes</b>	<b>3.5</b>	2.0	ug/L	EPA 8260B	7/17/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>43</b>	20	ug/L	EPA 8260B	7/17/2002
<b>TPH as Gasoline</b>	<b>5700</b>	200	ug/L	EPA 8260B	7/17/2002
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	7/17/2002
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	7/17/2002

Approved By:  Joel Kiff



Report Number : 27453

Date : 7/19/2002

Project Name : 3420 San Pablo Avenue, Oakland

Project Number : 020711-BA1

Sample : MW-11

Matrix : Water

Lab Number : 27453-11

Sample Date :7/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	7/17/2002
TPH as Gasoline	58	50	ug/L	EPA 8260B	7/17/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	7/17/2002
4-Bromofluorobenzene (Surr)	92.1		% Recovery	EPA 8260B	7/17/2002

Approved By:  Joel Kiff

Report Number : 27453

Date : 7/19/2002

**QC Report : Method Blank Data**

Project Name : **3420 San Pablo Avenue, Oakland**

Project Number : **020711-BA1**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/17/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	7/17/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/17/2002
Toluene - d8 (Surr)	99.1		%	EPA 8260B	7/17/2002
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	7/17/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/15/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	7/15/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/15/2002
Toluene - d8 (Surr)	88.4		%	EPA 8260B	7/15/2002
4-Bromofluorobenzene (Surr)	95.7		%	EPA 8260B	7/15/2002

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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Approved By:  \_\_\_\_\_  
Joel Kiff

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 3420 San Pablo Avenue,

Project Number : 020711-BA1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	27494-02	<0.50	40.0	39.8	43.5	43.2	ug/L	EPA 8260B	7/16/02	109	109	0.138	70-130	25
Toluene	27494-02	<0.50	40.0	39.8	42.4	42.4	ug/L	EPA 8260B	7/16/02	106	106	0.588	70-130	25
Tert-Butanol	27494-02	<5.0	200	199	211	207	ug/L	EPA 8260B	7/16/02	106	104	1.34	70-130	25
Methyl-t-Butyl Ether	27494-02	<0.50	40.0	39.8	43.8	42.2	ug/L	EPA 8260B	7/16/02	109	106	3.11	70-130	25
Benzene	27429-08	<0.50	40.0	40.0	42.9	41.8	ug/L	EPA 8260B	7/15/02	107	104	2.55	70-130	25
Toluene	27429-08	<0.50	40.0	40.0	36.9	36.6	ug/L	EPA 8260B	7/15/02	92.2	91.5	0.762	70-130	25
Tert-Butanol	27429-08	<5.0	200	200	197	195	ug/L	EPA 8260B	7/15/02	98.6	97.3	1.28	70-130	25
Methyl-t-Butyl Ether	27429-08	<0.50	40.0	40.0	43.1	42.4	ug/L	EPA 8260B	7/15/02	108	106	1.80	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



Report Number : 27453

Date : 7/19/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : 3420 San Pablo Avenue,

Project Number : 020711-BA1

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	7/16/02	109	70-130
Toluene	40.0	ug/L	EPA 8260B	7/16/02	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/16/02	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/16/02	105	70-130
Benzene	40.0	ug/L	EPA 8260B	7/15/02	104	70-130
Toluene	40.0	ug/L	EPA 8260B	7/15/02	88.1	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/15/02	96.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/15/02	98.6	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:

  
Joel Kiff

# SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

27453

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 8

SAP or CRMT NUMBER (TS/CRMT)

DATE: 7/11/02

PAGE: 2 of 2

SAMPLING COMPANY <b>Blaine Tech Services</b>		LOG CODE <b>BTSS</b>	SITE ADDRESS (Street and City): <b>3420 San Pablo Avenue, Oakland</b>		GLOBAL ID NO.: <b>T0600101253</b>	
ADDRESS <b>1680 Rogers Avenue, San Jose, CA 95112</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Anni Kreml</b>		PHONE NO.: <b>510-420-3335</b>	E-MAIL: <b>ShellOaklandEDF@cambria-env.com</b>	
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Leon Gearhart</b>		SAMPLER NAME(S) (Print): <b>BRIANA</b>		CONSULTANT PROJECT NO. <b>020711-8A1</b>		
TELEPHONE <b>408-573-0555</b>	FAX: <b>408-573-7771</b>	E-MAIL: <b>lgearhart@blainetech.com</b>		BTS #		
TURNAROUND TIME (BUSINESS DAYS): <input checked="" type="checkbox"/> 1-3 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		<b>REQUESTED ANALYSIS</b>				<b>LAB USE ONLY</b>
<input type="checkbox"/> LA - RWQCB REPORT FORMAT <input type="checkbox"/> UST AGENCY:						
GC/MS MTBE CONFIRMATION. HIGHEST _____ HIGHEST per BORING _____ ALL _____						
SPECIAL INSTRUCTIONS OR NOTES: _____ CHECK BOX IF EDD IS <u>NOT</u> NEEDED <input type="checkbox"/>						<b>FIELD NOTES:</b> Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	TEMPERATURE ON RECEIPT °C	
		DATE	TIME														
	MW-1	7/11	1310	6W	3	X	X	X									-01
	MW-2		1515			X	X	X									-02
	MW-3R		1200			X	X	X									-03
	MW-4		1225			X	X	X									-04
	MW-5		1530			X	X	X									-05
	MW-6R		1440			X	X	X									-06
	MW-7		1355			X	X	X									-07
	MW-8		1455			X	X	X									-08
	MW-9		0905			X	X	X									-09
	MW-10		1015			X	X	X									-10

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		6/7/202	1020

DISTRIBUTION White with final report. Green to File. Yellow and Pink to Client.

10/16/00 Revision

C&C Graphic (714) 898-9702



LAB: KLFF

# SHELL Chain Of Custody Record

Lab Identification (if necessary)

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

27453

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 8

SAP or CRMT NUMBER (TS/CRMT)

DATE: 7/11/02

PAGE: 2 of 2

SAMPLING COMPANY <b>Blaine Tech Services</b>		LOG CODE <b>BTSS</b>	SITE ADDRESS (Street and City): <b>3420 San Pablo Avenue, Oakland</b>		GLOBAL ID NO. <b>T0600101253</b>
ADDRESS <b>1680 Rogers Avenue, San Jose, CA 95112</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Anni Kreml</b>		PHONE NO. <b>510-420-3335</b>	E-MAIL <b>ShellOaklandEDF@cambria-env.com</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Leon Gearhart</b>		SAMPLER NAME(S) (Print): <b>BRIANA.</b>		CONSULTANT PROJECT NO. <b>020711-BA1</b>	
TELEPHONE <b>408-573-0555</b>	FAX <b>408-573-7771</b>	E-MAIL <b>lgearhart@blainetech.com</b>		BTS#	

TURNAROUND TIME (BUSINESS DAYS):

10 DAYS  5 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED

### REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	TEMPERATURE ON RECEIPT °C	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		DATE	TIME															
	MW-11	7/11	0940	GW	3	X	X	X									-11	

Relinquished by (Signature):	Received by (Signature):	Date:	Time:
Relinquished by (Signature):	Received by (Signature):	Date:	Time:
Relinquished by (Signature):	Received by (Signature): <u>John C. Kiff</u>	Date: <u>07/12/02</u>	Time: <u>1020</u>

C&Q Graphic (714) 698-9702

## WELL GAUGING DATA

Project # 020711-BA1 Date 7/11/02 Client SHELL

Site 3420 SAN PABLO AVE, OAKLAND

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	4					6.10	24.35	ToC
MW-2	4					6.49	19.25	↓
MW-3R	2					8.76	28.22	
MW-4	4					8.49	19.15	
MW-5	4					6.72	24.84	
MW-6R	2	odor				8.75	24.43	
MW-7	4					5.90	19.54	
MW-8	4					6.29	18.74	
MW-9	4					6.64	19.68	
MW-10	4					7.85	18.89	
MW-11	4					7.47	18.82	

## SHELL WELL MONITORING DATA SHEET

BTS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND
Sampler: BRIAN A.	Date: 7/11/02
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 24.35	Depth to Water: 6.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YST</u> HACH

Purge Method: Bailer      Waterra      Sampling Method: Bailer  
 Disposable Bailer      Peristaltic      Disposable Bailer  
 Middleburg      Extraction Pump      Extraction Port  
Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing

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

$11.9 \text{ (Gals.)} \times 3 = 35.7 \text{ Gals.}$   
 I Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	<u>0.65</u>
2"	0.16	6"	1.17
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1257	74.5	6.8	852 mS	30	12	clear mild odor
1300	74.2	6.9	839 mS	26	24	"
1304	73.5	6.9	832 mS	15	36	"

Did well dewater? Yes No      Gallons actually evacuated: 36

Sampling Time: 1310      Sampling Date: 7/11/02

Sample I.D.: MW-1      Laboratory: Kiff SPL Other \_\_\_\_\_

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

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: <u>1.5</u>	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND
Sampler: BRIAN A.	Date: 7/11/02
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 19.25	Depth to Water: 6.49
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

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg <u>Electric Submersible</u>	Water Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$\frac{8.3 \text{ (Gals.)} \times 3}{\text{Case Volume} \quad \text{Specified Volumes}} = \frac{24.9}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td><u>0.05</u></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	<u>0.05</u>	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	<u>0.05</u>														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1407	72.4	6.7	999 $\mu$ S	34	8.5	clear mild odor
1409	71.8	6.7	1028 $\mu$ S	30	12.5	11
<del>DEWATERED</del>						DTW 15.60
1515	72.0	7.1	1028 $\mu$ S	31	GRAB SAMPLE AT DEPARTURE	DTW 6.92

Did well dewater? Yes No      Gallons actually evacuated: 12.5

Sampling Time: 1515      Sampling Date: 7/11/02

Sample I.D.: MW-2      Laboratory: Kiff SPL Other \_\_\_\_\_

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

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ This Duplicate I.D. (if applicable): \_\_\_\_\_

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

D.O. (if req'd):	Pre-purge:	mg/L	<u>Post-purge:</u>	2.7 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## SHIELD WELL MONITORING DATA SHEET

BTS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND, CA
Sampler: Brian A.	Date: 7/11/02
Well I.D.: MW-3R	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: 28.22	Depth to Water: 8.76
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>VSI</u> HACH

Purge Method: <u>Bailer</u> Disposable Bailer <u>Middleburg</u> Electric Submersible	Water: <u>Peristaltic</u> Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$\frac{3.1 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = \frac{9.3 \text{ Gals.}}{\text{Specified Volumes}} = \text{Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td><u>0.16</u></td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	<u>0.16</u>	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	<u>0.16</u>	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1142	71.3	7.2	657 <u>mS</u>	>200	3	cloudy brown mild odor
1148	69.9	6.9	662 <u>mS</u>	>200	6	"
1151	70.0	6.5	660 <u>mS</u>	>200	9	"

Did well dewater? Yes No Gallons actually evacuated: 9

Sampling Time: 1200 Sampling Date: 7/11/02

Sample I.D.: MW-3R Laboratory: Kiff SPL Other \_\_\_\_\_

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

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Duplicate I.D. (if applicable): \_\_\_\_\_

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: <u>2.5</u>	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND
Sampler: <del>RES</del> BRIAN A.	Date: 7/11/02
Well I.D.: MW-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 19.15	Depth to Water: 8.49
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

Purge Method: Bailer Disposable Bailer Middleburg <u>Electric Submersible</u> Other: _____	Water: Peristaltic Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$$6.9 \text{ (Gals.)} \times 3 = 20.7 \text{ Gals.}$$
 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	<u>0.65</u>
2"	0.16	6"	1.17
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1214	70.9	6.4	1023 <u>µS</u>	142	7	clear mild odor
1216	71.1	6.6	989 <u>µS</u>	45	14	"
1220	71.6	6.7	1065 <u>µS</u>	150	21	cloudy grey mild odor

Did well dewater? Yes  No  Gallons actually evacuated: 21

Sampling Time: 1225      Sampling Date: 7/11/02

Sample I.D.: MW-4      Laboratory: Kiff SPL Other: \_\_\_\_\_

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

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.1	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND
Sampler: Brian A.	Date: 7/11/02
Well I.D.: MW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 24.84	Depth to Water: 6.72
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

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg <u>Electric Submersible</u>	Watera Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$11.8 \text{ (Gals.)} \times 3 = 35.4 \text{ Gals.}$   
 I Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	<u>0.65</u>
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1325	70.9	7.0	778 mS	43	12	clear mild odor
1329	70.0	6.9	780 mS	7200	22	cloudy grey
<u>DEWATERED</u>						DTW 22.20
1530	70.1	7.5	736 mS	18	GRAB SAMPLE AT DEPARTURE	DTW 14.45

Did well dewater? Yes No      Gallons actually evacuated: 22

Sampling Time: 1530      Sampling Date: 7/11/02

Sample I.D.: MW-5      Laboratory: Kiff SPL Other \_\_\_\_\_

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

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/l	Post-purge:	<u>4.2</u> mg/l
	O.R.P. (if req'd):	mV	Post-purge:	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND
Sampler: BRIANA	Date: 7/11/02
Well I.D.: MW-6R	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 24.43	Depth to Water: 8.75
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

Purge Method: Bailer Disposable Bailer <u>Middleburg</u> Electric Submersible	Water: Peristaltic Extraction Pump Other:	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other:
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$2.5 \text{ (Gals.)} \times 3 = 7.5 \text{ Gals.}$ I Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td><u>0.17</u></td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	<u>0.17</u>	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	<u>0.17</u>	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1426	71.1	6.9	1041 <u>µS</u>	171	2.5	cloudy grey mild odor
1429	70.2	6.6	1045 <u>µS</u>	156	5	"
1432	69.8	6.6	1050 <u>µS</u>	108	7.5	"

Did well dewater?    Yes    No      Gallons actually evacuated: 7.5

Sampling Time: 1440      Sampling Date: 7/11/02

Sample I.D.: MW-6R      Laboratory: KIFF SPL    Other: \_\_\_\_\_

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

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time    Duplicate I.D. (if applicable): \_\_\_\_\_

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

D.O. (if req'd):	Pre-purge:	mg/L	<u>Post-purge:</u>	1.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV



## SHELL WELL MONITORING DATA SHEET

3TS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND
Sampler: BRIANA.	Date: 7/11/02
Well I.D.: MW-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 19.54	Depth to Water: 5.90
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

Purge Method: Bailer Disposable Bailer Middleburg <u>Electric Submersible</u>	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$\frac{8.9 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = 26.7 \text{ Gals. Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td><u>0.63</u></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.17</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	<u>0.63</u>	2"	0.16	6"	1.17	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	<u>0.63</u>														
2"	0.16	6"	1.17														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1340	70.4	7.0	913 ~S	144	9	cloudy grey
1343	69.5	6.9	914 ~S	75	18	"
1346	69.9	6.9	916 ~S	106	27	"

Did well dewater? Yes No Gallons actually evacuated: 27

Sampling Time: 1355 Sampling Date: 7/11/02

Sample I.D.: MW-7 Laboratory: Kiff SPL Other \_\_\_\_\_

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

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

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

D.O. (if req'd):	Pre-purge:	mg/L	<u>Post-purge:</u>	3.0 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND
Sampler: BRIAN A.	Date: 7/11/02
Well I.D.: MW-8	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 18.74	Depth to Water: 6.29
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

Purge Method: Bailer Disposable Bailer Middleburg <u>Electric Submersible</u>	Water Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$8.1 \text{ (Gals.)} \times 3 = 24.3 \text{ Gals.}$ <p>Case Volume      Specified Volumes      Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td><u>0.65</u></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	<u>0.65</u>	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	<u>0.65</u>														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1240	70.5	6.7	942 <del>ms</del>	56	8	clear mild odor
1242	68.8	6.7	977 ms	60	16	"
<del>DEWATERED</del>						DTW 16.75
1455	69.4	7.1	997 ms	7200	GRAB SAMPLE AT DEPARTURE	Silty black DTW 14.20

Did well dewater? <u>Yes</u> No	Gallons actually evacuated: 16
Sampling Time: 1455	Sampling Date: 7/11/02
Sample I.D.: MW-8	Laboratory: <u>Kiff</u> SPL Other _____
Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other:	
EB I.D. (if applicable): _____ @ _____ Time	Duplicate I.D. (if applicable):
Analyzed for: TPH-G BTEX MTBE TPH-D Other:	
D.O. (if req'd): Pre-purge: _____ mg/L	<u>Post-purge:</u> 1.9 mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND
Sampler: Brian A.	Date: 7/11/02
Well I.D.: MW-9	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 19.68	Depth to Water: 6.64
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

Purge Method: Bailer Disposable Bailer Middleburg <u>Electric Submersible</u>	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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8.5 (Gals.) X 3 = 25.5 Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	<u>0.85</u>
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0852	70.1	6.1	792 mS	120	8.5	clear mild odor
0854	68.9	6.3	915 mS	110	17	"
0857	68.2	6.3	950 mS	105	25.5	"

Did well dewater?    Yes    No      Gallons actually evacuated:    25.5

Sampling Time: 0905      Sampling Date: 7/11/02

Sample I.D.: MW-9      Laboratory: Kiff SPL    Other \_\_\_\_\_

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

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable):

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

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

## SHELL WELL MONITORING DATA SHEET

BTS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND
Sampler: <del>ANDETTI</del> BRIAN A.	Date: 7/11/02
Well I.D.: MW-10	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 18.89	Depth to Water: 7.85
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

Purge Method: Bailer Disposable Bailer Middleburg <u>Electric Submersible</u>	Water: Peristaltic Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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11 (Gals.) X <u>3</u> = <u>33</u> Gals. Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td><u>0.65</u></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.17</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	<u>0.65</u>	2"	0.16	6"	1.17	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	<u>0.65</u>														
2"	0.16	6"	1.17														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1005	69.2	6.8	1096 ~S	35	11	clear mild odor
1008	68.9	6.9	1136 ~S	24	22	"
1010	69.3	6.9	1137 ~S	18	33	"

Did well dewater?    Yes    No                      Gallons actually evacuated:    33

Sampling Time: 1015                      Sampling Date: 7/11/02

Sample I.D.: MW-10                      Laboratory: Kiff SPL    Other: \_\_\_\_\_

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

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_    Duplicate I.D. (if applicable): \_\_\_\_\_

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

## SHELL WELL MONITORING DATA SHEET

BTS #: 020711-BA1	Site: 3420 SAN PABLO AVE, OAKLAND
Sampler: Brian A	Date: 7/11/02
Well I.D.: MW-11	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 18.82	Depth to Water: 7.47
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

Purge Method: Bailer Disposable Bailer Middleburg <u>Electric Submersible</u>	Water Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$$\frac{7.4 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = \frac{22.2 \text{ Gals.}}{\text{Specified Volumes}} \text{ Calculated Volume}$$

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	<u>0.65</u>
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0925	68.0	6.9	863 µS	50	7.5	clear mild odor
0928	67.6	6.7	818 µS	48	15	"
0931	67.3	6.7	833 µS	68	22.5	"

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: 22.5
Sampling Time: 0940	Sampling Date: 7/11/02
Sample I.D.: MW-11	Laboratory: <u>Kiff</u> SPL Other _____

Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other: _____
EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: <u>2.3</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: _____ mV