



March 3, 2004

Atlantic Richfield Company  
March 05 2004  
San Francisco, CA 94612

Mr. Don Hwang  
Alameda County Health Care Service Agency  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

Re: **First Quarter 2004 Groundwater Monitoring Report  
Former BP Service Station #11117  
7210 Bancroft Avenue  
Oakland, California  
URS Project #38486800**

Dear Mr. Hwang:

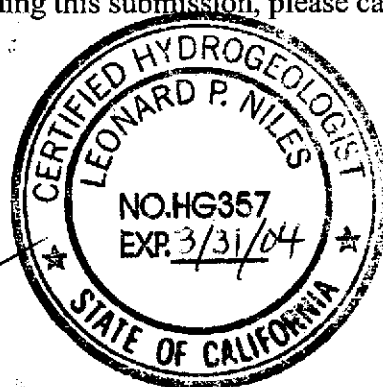
On behalf of the Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the *First Quarter 2004 Groundwater Monitoring Report* for the Former BP Service Station #11117, located at 7210 Bancroft Avenue, Oakland, California. We are currently awaiting approval of our recommendations in the Soil and Groundwater Investigation Workplan submitted November 28, 2003. URS recommends the addition of wells EX-1 and EX-2 to the quarterly sampling schedule, and the reduction of sampling of wells MW-1, MW-3 and MW-6 to an annual basis.

If you have any questions regarding this submission, please call me at (510) 874-1720.

Sincerely,

**URS CORPORATION**

*Leonard P. Niles*  
Leonard P. Niles, R.G./C.H.G.  
Project Manager



Enclosure: First Quarter 2004 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)  
Ms. Liz Sewell, ConocoPhillips, 76 Broadway, Sacramento, CA 95818  
Ms. Diane Clark, One Eastmont Town Center, 7200 Bancroft Avenue, Oakland, CA 94605-1907

URS Corporation  
1333 Broadway, Suite 800  
Oakland, CA 94612-1924  
Tel: 510.893.3600  
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**REPORT**

R0356

Alameda County  
MAR 05 2004  
Environmental Health

# FIRST QUARTER 2004 GROUNDWATER MONITORING

FORMER BP SERVICE STATION #11117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA

*Prepared for*  
Atlantic Richfield Company

March 3, 2004

**URS**

URS Corporation  
1333 Broadway, Suite 800  
Oakland, California 94612

38486800

Date: March 3, 2004  
Quarter: 1Q 04

### BP GEM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11117 Address: 7210 Bancroft Avenue, Oakland, CA  
ARCO Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Leonard Niles  
Consultant Project No.: 38486800  
Primary Agency: Alameda County Health Care Service Agency

#### WORK PERFORMED THIS QUARTER (First – 2004):

1. Performed first quarter groundwater monitoring event on February 3, 2004.
2. Prepare and submit first quarter 2004 groundwater monitoring report.

#### WORK PROPOSED FOR NEXT QUARTER (Second– 2004):

1. Perform second quarter 2004 groundwater monitoring event.
2. Prepare and submit second quarter 2004 groundwater monitoring report.
3. Perform soil and groundwater investigation, pending ACHCSA approval of workplan.

Alameda County  
Health Care Service Agency  
March 3, 2004

Current Phase of Project:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Wells MW-1, -2, -4, -6, -7, -10 quarterly; Wells MW-3 and MW-9 semi-annually (1<sup>st</sup> and 3<sup>rd</sup> quarters); Well MW-8 annually (1<sup>st</sup> quarter).</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
Current Remediation Techniques:	<u>Monitored Natural Attenuation</u>
Approximate Depth to Groundwater:	<u>14.76 (MW-8) to 20.63 (MW-7) feet</u>
Groundwater Gradient (direction):	<u>Northeast</u>
Groundwater Gradient (magnitude):	<u>0.013 feet per foot</u>

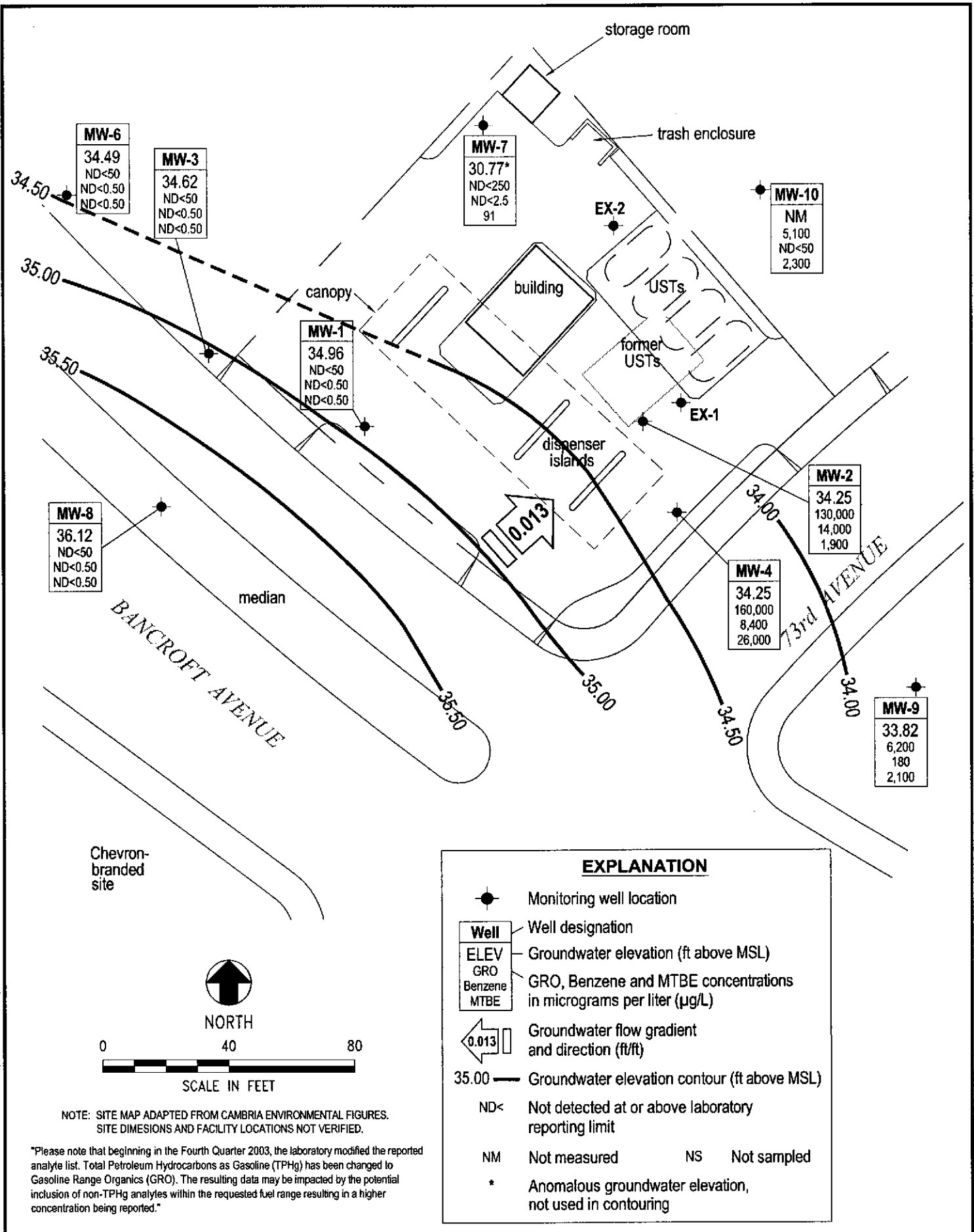
#### DISCUSSION:

GRO was detected above laboratory reporting limits in four of the nine wells sampled this quarter at concentrations ranging from 5,100 µg/L (MW-10) to 160,000 µg/L (MW-4). Benzene was detected above laboratory reporting limits in three wells at concentrations ranging from 180 µg/L (MW-9) to 14,000 µg/L (MW-2). MTBE was detected above laboratory reporting limits in five wells at concentrations ranging from 91 µg/L (MW-7) to 26,000 µg/L (MW-4). No other fuel oxygenates were detected above laboratory reporting limits. As proposed in the workplan submitted November 28, 2003, URS recommends adding the extraction wells EX-1 and EX-2 to the quarterly monitoring schedule. Due to GRO, BTEX and MTBE concentrations decreasing to below laboratory detection limits or very low concentrations in wells MW-1, MW-3 and MW-6 during the previous four monitoring events, URS recommends that the sample schedule for these wells be reduced to an annual basis.

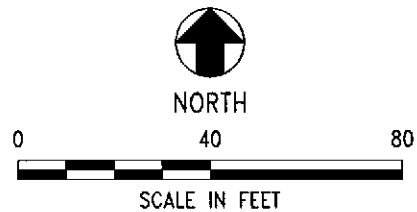
**ATTACHMENTS:**

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – February 3, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Table 3 – Fuel Oxygenate Analytical Data
- Attachment A – Concentration and Water Level Trends (MW-4, MW-2, MW-10)
- Attachment B – Field Procedures and Field Data Sheets
- Attachment C – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment D – EDCC Report and EDF/Geowell Submittal Confirmation

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Chevron-branded site



NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

"Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported."

**EXPLANATION**

- Monitoring well location
- |                |   |
|----------------|---|
| <b>Well</b>    | Well designation  |
| <b>ELEV</b>    | Groundwater elevation (ft above MSL)                                |
| <b>GRO</b>     | GRO, Benzene and MTBE concentrations in micrograms per liter (µg/L) |
| <b>Benzene</b> |   |
| <b>MTBE</b>    |   |
- Groundwater flow gradient and direction (ft/ft)
- Groundwater elevation contour (ft above MSL)
- ND< Not detected at or above laboratory reporting limit
- NM Not measured      NS Not sampled
- \* Anomalous groundwater elevation, not used in contouring

<b>URS</b>	Project No. 38486800	<b>GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP</b> First Quarter 2004 (February 3, 2004)	FIGURE <b>1</b>
	Former BP Service Station #11117 7210 Bancroft Avenue Oakland, California		

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11117  
7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-1	1/5/1992	49.80	33.16	---	16.64	57000	50000	2400	1000	1100	3100	---	ND	---	---
MW-1	1/10/1992	49.80	33.16	---	16.64	---	---	---	---	---	---	---	---	---	---
MW-1	6/5/1992	49.80	29.01	---	20.79	31000	---	2800	2100	800	2300	---	---	---	---
MW-1	7/24/1992	49.80	29.45	---	20.35	---	---	---	---	---	---	---	---	---	---
MW-1	7/27/1992	49.80	29.45	---	20.35	---	---	---	---	---	---	---	---	---	---
MW-1	9/15/1992	49.80	30.53	---	19.27	40000	1200 (c)	3400	3000	1300	3400	---	---	---	---
QC-1 (d)	9/15/1992	---	---	---	---	36000	---	3800	3400	1400	3800	---	---	---	---
MW-1	12/15/1992	49.80	31.26	---	18.54	27000	1100 (c)	1700	580	700	1900	---	---	---	---
QC-1 (d)	12/15/1992	---	---	---	---	22000	---	1500	440	510	1300	---	---	---	---
MW-1	3/15/1993	49.80	24.80	---	25.00	17000	580	1700	1200	590	1800	---	(l)	---	---
QC-1 (d)	3/15/1993	---	---	---	---	15000	---	1100	860	440	1400	---	(l)	---	---
MW-1	6/7/1993	49.80	25.01	---	24.79	750	100	0.8	0.8	ND<0.5	ND<0.5	---	(l)	---	---
QC-1 (d)	6/7/1993	---	---	---	---	720	---	0.7	0.7	ND<0.5	ND<0.5	---	(l)	---	---
MW-1	9/23/1993	49.80	28.70	---	21.10	40000	770	4000	500	920	3000	6619	(e)(l)	---	---
MW-1	12/27/1993	49.80	28.66	---	21.14	27000	---	2000	400	940	2600	13558	(e)(l)	---	---
QC-1 (d)	12/27/1993	---	---	---	---	21000	---	1700	380	830	2400	9219	(e)(l)	---	---
MW-1	4/5/1994	49.80	26.37	---	23.43	27000	---	3400	930	950	2900	8595	(e)(l)	---	---
QC-1 (d)	4/5/1994	---	---	---	---	29000	---	3700	1000	1000	3100	9672	(e)(l)	1.3	---
MW-1	7/22/1994	49.80	26.54	---	23.26	1700	---	220	2.3	2.0	3.4	262	(e)(l)	2.0	---
MW-1	10/13/1994	49.80	27.46	---	22.34	1200	---	250	21	ND<0.5	3.2	321	(e)(l)	2.6	---
MW-1	1/25/1995	49.80	20.96	---	28.84	1000	---	420	8	13	4	---	---	---	---
MW-1	4/19/1995	49.80	19.59	---	30.21	5200	---	420	51	230	340	---	---	6.0	---
MW-1	7/5/1995	49.80	19.61	---	30.19	320	---	4.2	ND<0.50	ND<0.50	ND<1.0	---	---	4.6	---
MW-1	10/5/1995	49.80	24.40	---	25.40	5800	---	1000	40	31	180	7800	---	2.3	---
MW-1	1/12/1996	49.80	25.44	---	24.36	370	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	3.7	---
MW-1	4/22/1996	49.80	18.02	---	31.78	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	3.9	---
MW-1	7/2/1996	49.80	19.72	---	30.08	---	---	---	---	---	---	---	---	---	---
MW-1	7/3/1996	49.80	---	---	---	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50	---	3.6	---
MW-1	11/8/1996	49.80	19.98	---	29.82	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	---
MW-1	1/3/1997	49.80	19.49	---	30.31	ND<50	---	ND<0.5	14	ND<1.0	ND<1.0	ND<10	---	4.6	---
MW-1	4/28/1997	49.80	20.20	---	29.60	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	---
MW-1	7/1/1997	49.80	22.53	---	27.27	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	---
MW-1	10/2/1997	49.80	24.27	---	25.53	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.6	---
MW-1	1/9/1998	49.80	21.07	---	28.73	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	---
MW-1	5/6/1998	49.80	14.94	---	34.86	60	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
MW-1	7/21/1998	49.80	15.11	---	34.69	70	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
MW-1	12/30/1998	49.80	19.95	---	29.85	---	---	---	---	---	---	---	---	---	---
MW-1	2/2/1999	49.80	19.12	---	30.68	420	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	390	---	---	---
MW-1	5/10/1999	49.80	15.51	---	34.29	---	---	---	---	---	---	---	---	---	---
MW-1	9/23/1999	49.80	21.65	---	28.15	440	---	49	ND<1.0	ND<1.0	ND<1.0	910	---	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Service Station #11117**  
**7210 Bancroft Avenue, Oakland, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-1	12/23/1999	49.80	22.32	---	27.48	---	---	---	---	---	---	---	---	---	---
MW-1	3/27/2000	49.80	15.72	---	34.08	2500	---	230	3.0	83	36	4400	---	---	---
MW-1	5/22/2000	49.80	16.92	---	32.88	---	---	---	---	---	---	---	---	---	---
MW-1	8/31/2000	49.80	20.12	---	29.68	1700	---	18	5.5	7.9	5.0	510	---	---	---
MW-1	12/11/2000	49.80	20.72	---	29.08	---	---	---	---	---	---	---	---	---	---
MW-1	3/20/2001	49.80	15.91	---	33.89	880	---	38.2	ND<0.5	24.1	ND<1.5	391	---	---	---
MW-1	6/19/2001	49.80	18.38	---	31.42	---	---	---	---	---	---	---	---	---	---
MW-1	9/20/2001	49.80	21.23	---	28.57	3200	---	400	19.8	42	32.5	2510	---	---	---
MW-1	12/27/2001	49.80	16.72	---	33.08	750	---	70.1	0.536	4.74	3.76	649	---	---	---
MW-1	2/28/2002	49.80	15.25	---	34.55	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	8.7	---	---	---
MW-1	6/28/2002	49.80	16.57	---	33.23	110	---	0.977	ND<0.5	0.818	ND<1.0	8.35	---	---	---
MW-1	9/12/2002*	49.80	18.41	---	31.39	98	---	2.7	1.5	1.5	5.4	48	---	---	6.9
MW-1	12/12/2002	49.80	20.26	---	29.54	210	---	1.9	ND<0.50	ND<0.50	ND<0.50	32	---	---	6.8
MW-1	3/10/2003	49.80	16.22	---	33.58	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.2	---	---	6.9
MW-1	5/12/2003	49.80	14.30	---	35.50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	---	---	7.1
MW-1 (n)	8/27/2003	49.80	18.15	---	31.65	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.2	---	---	7.1
MW-1	11/10/2003	49.80	19.24	---	30.56	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.51	---	---	6.8
MW-1	2/3/2004	49.80	14.84	---	34.96	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	7.0

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Service Station #11117**  
**7210 Bancroft Avenue, Oakland, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-2	1/5/1992	51.07	DRY	---	DRY	---	---	---	---	---	---	---	---	---	---
MW-2	1/10/1992	51.07	DRY	---	DRY	---	---	---	---	---	---	---	---	---	---
MW-2	6/5/1992	51.07	30.05	---	21.02	11000	---	2000	180	490	1900	---	---	---	---
MW-2	7/24/1992	51.07	30.72	---	20.35	---	---	---	---	---	---	---	---	---	---
MW-2	7/27/1992	51.07	30.52	---	20.55	---	---	---	---	---	---	---	---	---	---
MW-2	9/15/1992	51.07	31.56	---	19.51	75000	3200 (c)	2000	6500	2300	13000	---	---	---	---
MW-2	12/15/1992	51.07	32.40	---	18.67	34000	1600 (c)	6200	8900	2000	7900	---	---	---	---
MW-2	3/15/1993	51.07	26.14	---	24.93	150000	8400	12000	18000	3200	22000	82000	(e)	---	---
MW-2 (f)	6/7/1993	51.07	26.38	SHEEN	24.69	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	9/23/1993	51.07	31.43	1.92	21.08	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	12/27/1993	51.07	34.07	1.07	17.80	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	4/5/1994	51.07	30.44	3.30	23.11	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	7/22/1994	51.07	28.51	0.80	23.16	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	10/13/1994	51.07	29.33	0.70	22.27	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	1/25/1995	51.07	25.55	4.25	28.71	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	4/19/1995	51.07	19.78	0.12	31.38	---	---	---	---	---	---	---	---	---	---
MW-2	7/5/1995	51.07	20.88	0.09	30.26	140000	---	14000	30000	3500	26000	---	---	---	---
MW-2 (f)	10/5/1995	51.07	24.68	0.10	26.47	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	1/12/1996	51.07	25.72	0.06	25.40	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	4/22/1996	51.07	19.33	0.08	31.80	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	7/2/1996	51.07	20.01	0.04	31.09	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	11/8/1996	51.07	20.28	0.01	30.80	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	1/3/1997	51.07	19.87	0.02	31.22	---	---	---	---	---	---	---	---	---	---
MW-2	4/28/1997	51.07	20.59	0.01	30.49	560000	---	1200	1300	290	2310	6100	---	3.9	---
MW-2	7/1/1997	51.07	22.90	0.01	28.18	24000	---	15000	16000	4900	24400	63000	---	3.7	---
QC-1 (d)	7/1/1997	---	---	---	---	150000	---	14000	13000	1800	14200	57000	---	---	---
MW-2	10/2/1997	51.07	24.65	0.02	26.44	---	---	---	---	---	---	---	---	---	---
MW-2	10/3/1997	51.07	---	---	---	250000	---	32000	39000	6000	42000	160000	---	4.5	---
MW-2	1/9/1998	51.07	21.22	0.01	29.86	420000	---	23000	29000	5800	43000	75000	---	4.0	---
QC-1 (d)	1/9/1998	---	---	---	---	300000	---	20000	25000	5200	37000	84000	---	---	---
MW-2	5/6/1998	51.07	15.10	0.01	35.98	180000	---	25000	26000	3400	22900	35000	---	3.7	---
MW-2	7/21/1998	51.07	15.31	0.01	35.77	270000	---	21000	20000	2700	18800	34000	---	3.8	---
MW-2	12/30/1998	51.07	21.10	0.10	30.05	300000	---	22000	24000	4200	26000	89000/95000 (j)	---	---	---
MW-2	2/2/1998	51.07	20.11	---	30.96	410000	---	27000	43000	6700	50000	20000	---	---	---
MW-2	5/10/1999	51.07	16.68	---	34.39	220000	---	20000	20000	2800	20000	100000	---	---	---
MW-2	9/23/1999	51.07	22.50	---	28.57	160000	---	21000	24000	2900	20000	44000	---	---	---
MW-2 (k)	12/23/1999	51.07	22.64	---	28.43	170000	---	25000	41000	3100	24000	40000	---	---	---
MW-2	3/27/2000	51.07	16.88	---	34.19	140000	---	15000	25000	3400	21000	19000	---	---	---
MW-2	5/22/2000	51.07	17.75	---	33.32	150000	---	18000	31000	3500	22000	26000	---	---	---
MW-2	8/31/2000	51.07	21.97	---	29.10	200000	---	16000	26000	2500	16000	38000	---	---	---



**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Service Station #11117**  
**7210 Bancroft Avenue, Oakland, CA**

WELL ID	DATE OF SAMPLING/MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-2	12/11/2000	51.07	22.05	---	29.02	130000	---	18600	30000	3250	20600	21700	---	---	---
MW-2	3/20/2001	51.07	17.75	---	33.32	140000	---	15900	24800	3700	22100	12900	---	---	---
MW-2	6/19/2001	51.07	20.15	---	30.92	130000	---	15100	19500	3300	21400	20300	---	---	---
MW-2	9/20/2001	51.07	22.14	---	28.93	110000	---	12400	12600	2230	13000	39500	---	---	---
MW-2	12/27/2001	51.07	18.17	---	32.90	150000	---	17500	26000	3050	19500	27500	---	---	---
MW-2	2/28/2002	51.07	17.42	---	33.65	120000	---	13900	18800	3030	19600	17300	---	---	---
MW-2	6/28/2002***	51.07	17.04	---	34.03	3700	---	190	23.3	139	287	826	---	---	---
MW-2	9/12/2002*	51.07	19.52	---	31.55	100,000	---	13,000	22,000	3,600	20,000	18,000	---	---	6.6
MW-2	12/12/2002	51.07	21.08	---	29.99	120,000	---	13,000	21,000	4,400	25,000	16,000	---	---	6.6
MW-2	3/10/2003	51.07	17.84	---	33.23	100,000	---	17,000	21,000	3,400	20,000	4,400	---	---	6.8
MW-2	5/12/2003	51.07	16.66	---	34.41	150,000	---	16,000	24,000	3,500	22,000	3,600	---	---	7.1
MW-2 (n)	8/27/2003	51.07	19.65	---	31.42	120,000	---	14,000	12,000	3,900	20,000	5,100	---	---	6.9
MW-2	11/10/2003	51.07	20.80	---	30.27	97,000	---	12,000	9,500	3,600	15,000	4,200	---	---	6.7
MW-2	2/3/2004	51.07	16.82	---	34.25	130,000	---	14,000	19,000	3,400	20,000	1,900	---	---	6.8

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11117  
7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (Feet) (a)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (ug/L) (b)	TPH-D (ug/L) (p)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-3	1/5/1992	49.95	33.69	---	16.26	7400	4000	790	23	210	40	---	ND	---	---
MW-3	1/10/1992	49.95	33.74	---	16.21	---	---	---	---	---	---	---	---	---	---
MW-3	6/5/1992	49.95	29.65	---	20.30	2000	---	130	5.3	93	20	---	---	---	---
MW-3	7/24/1992	49.95	30.14	---	19.81	---	---	---	---	---	---	---	---	---	---
MW-3	7/27/1992	49.95	30.14	---	19.81	---	---	---	---	---	---	---	---	---	---
MW-3	9/15/1992	49.95	31.07	---	18.88	450	ND<50	55	3.1	34	7.1	---	---	---	---
MW-3	12/15/1992	49.95	31.93	---	18.02	12000	710 (c)	940	ND<50	310	120	---	---	---	---
MW-3	3/15/1993	49.95	25.71	---	24.24	ND<50	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	---	---
MW-3	6/7/1993	49.95	25.80	---	24.15	150	ND<50	3.6	ND<0.5	0.9	1.3	---	(l)	---	---
MW-3	9/23/1993	49.95	29.18	---	20.77	---	---	---	---	---	---	---	---	---	---
MW-3	9/24/1993	49.95	---	---	---	160	ND<50	8.4	ND<0.5	3.7	1.3	15.3	(l)	---	---
MW-3	12/27/1993	49.95	29.25	---	20.70	9400	---	1100	48	530	120	2871	(e)(l)	---	---
MW-3	4/5/1994	49.95	26.84	---	23.11	7000	---	860	19	330	52	10414	(l)	2.0	---
MW-3	7/22/1994	49.95	26.90	---	23.11	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	2.1	---
MW-3	10/13/1994	49.95	27.83	---	22.12	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	2.6	---
MW-3	1/25/1995	49.95	21.65	---	28.30	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---
MW-3	4/19/1995	49.95	19.33	---	30.62	2400	---	170	8.0	130	27	---	---	5.0	---
MW-3	7/5/1995	49.95	20.27	---	29.68	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.4	---
MW-3	10/5/1995	49.95	23.73	---	26.22	2300	---	210	3.1	10	5.1	2400	---	4.2	---
MW-3	1/12/1996	49.95	24.84	---	25.11	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.1	---
MW-3	4/22/1996	49.95	18.60	---	31.35	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.4	---
MW-3	7/2/1996	49.95	18.88	---	31.07	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.2	---
MW-3	11/8/1996	49.95	19.14	---	30.81	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.4	---
MW-3	1/3/1997	49.95	18.72	---	31.23	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.6	---
MW-3	4/28/1997	49.95	19.38	---	30.57	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	---
MW-3	7/1/1997	49.95	21.65	---	28.30	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
MW-3	10/2/1997	49.95	23.45	---	26.50	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.5	---
MW-3	1/9/1998	49.95	20.10	---	29.85	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	---
MW-3	5/6/1998	49.95	15.57	---	34.38	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
MW-3	7/21/1998	49.95	15.88	---	34.07	51	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
QC-1 (d)	7/21/1998	---	---	---	---	60	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---
MW-3	12/30/1998	49.95	20.30	---	29.65	---	---	---	---	---	---	---	---	---	---
MW-3	2/2/1999	49.95	19.75	---	30.20	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---
MW-3	5/10/1999	49.95	16.17	---	33.78	---	---	---	---	---	---	---	---	---	---
MW-3	9/23/1999	49.95	22.05	---	27.90	---	---	---	---	---	---	---	---	---	---
MW-3	12/23/1999	49.95	22.55	---	27.40	---	---	---	---	---	---	---	---	---	---
MW-3	3/27/2000	49.95	16.40	---	33.55	350	---	22	ND<0.5	ND<0.5	ND<0.5	580	---	---	---
MW-3	5/22/2000	49.95	9.49**	---	40.46	---	---	---	---	---	---	---	---	---	---
MW-3	8/31/2000	49.95	13.02**	---	36.93	---	---	---	---	---	---	---	---	---	---
MW-3	12/11/2000	49.95	13.30**	---	36.65	---	---	---	---	---	---	---	---	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Service Station #11117**  
**7210 Bancroft Avenue, Oakland, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-3	3/20/2001	49.95	16.49	--	33.46	1000	--	66.4	0.597	6.96	ND<1.5	398	--	--	--
MW-3	6/19/2001	49.95	18.82	--	31.13	--	--	--	--	--	--	--	--	--	--
MW-3	9/20/2001	49.95	21.59	--	28.36	230	--	ND<0.5	0.593	ND<0.5	ND<1.5	289	--	--	--
MW-3	12/27/2001	49.95	17.37	--	32.58	--	--	--	--	--	--	--	--	--	--
MW-3	2/28/2002	49.95	15.81	--	34.14	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1.0	0.58	--	--	--
MW-3	6/28/2002	49.95	17.09	--	32.86	--	--	--	--	--	--	--	--	--	--
MW-3	9/12/2002*	49.95	18.80	--	31.15	52	--	3.3	8.6	1.7	12	11	--	--	7.0
MW-3	12/12/2002	49.95	20.57	--	29.38	--	--	--	--	--	--	--	--	--	--
MW-3	3/10/2003	49.95	16.68	--	33.27	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--	7.0
MW-3	5/12/2003	49.95	14.72	--	35.23	--	--	--	--	--	--	--	--	--	--
MW-3 (n)	8/27/2003	49.95	18.50	--	31.45	ND<50	--	ND<0.50	ND<0.50	ND<0.50	0.50	ND<0.50	--	--	7.1
MW-3	11/10/2003	49.95	19.66	--	30.29	--	--	--	--	--	--	--	--	--	--
MW-3	2/3/2004	49.95	15.33	--	34.62	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	7.0

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Former BP Service Station #11117  
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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (Feet) (a)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (ug/L) (b)	TPH-D (ug/L) (p)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-4	7/24/1992	50.76	30.02	---	20.74	42000	---	3200	3600	1400	4100	---	---	---	---
MW-4	7/27/1992	50.76	30.02	---	20.74	---	---	---	---	---	---	---	---	---	---
MW-4	9/15/1992	50.76	31.14	---	19.62	55000	1700	7600	13000	2800	9500	---	---	---	---
MW-4	12/15/1992	50.76	31.98	---	18.78	36000	2200	3700	4700	1200	4000	---	---	---	---
MW-4	3/15/1993	50.76	25.34	---	25.42	69000	1200	7600	15000	2500	11000	---	(l)	---	---
MW-4	6/7/1993	50.76	25.67	---	25.09	73000	2500	10000	19000	3400	14000	---	(l)	---	---
MW-4	9/23/1993	50.76	29.37	---	21.39	---	---	---	---	---	---	---	---	---	---
MW-4	9/24/1993	50.76	---	---	---	68000	5700	11000	2100	8600	990	390	(l)	---	---
QC-1 (d)	9/24/1993	---	---	---	---	59000	---	5300	10000	2200	8400	309	(l)	---	---
MW-4	12/27/1993	50.76	29.40	---	21.36	32000	---	2500	4400	1300	4400	387	(l)	---	---
MW-4	4/5/1994	50.76	27.09	---	23.67	64000	---	6500	14000	1900	9600	413	(l)	1.4	---
MW-4	7/22/1994	50.76	27.33	---	23.43	85000	---	10000	20000	3200	13000	796	(l)	0.8	---
QC-1 (d)	7/22/1994	---	---	---	---	85000	---	11000	21000	3300	14000	435	(l)	---	---
MW-4	10/13/1994	50.76	28.25	---	22.51	51000	---	7100	13000	2100	8900	506	(e)(l)	2.9	---
QC-1 (d)	10/13/1994	---	---	---	---	51000	---	7400	13000	2100	9100	773	(l)	---	---
MW-4	1/25/1995	50.76	21.85	---	28.91	26000	---	3600	9600	1200	6400	---	---	---	---
QC-1 (d)	1/25/1995	---	---	---	---	28000	---	4200	12000	1500	7800	---	---	---	---
MW-4	4/19/1995	50.76	19.44	---	31.32	89000	---	12000	24000	3500	18000	---	---	5.1	---
QC-1 (d)	4/19/1995	---	---	---	---	100000	---	12000	26000	3800	21000	---	---	---	---
MW-4	7/5/1995	50.76	20.52	---	30.24	130000	---	13000	29000	3300	25000	---	---	4.3	---
MW-4	10/5/1995	50.76	24.23	---	26.53	110000	---	10000	23000	3600	17000	34000	---	2.1	---
MW-4	1/12/1996	50.76	25.34	---	25.42	46000	---	3500	8300	1100	8000	3000	---	3.3	---
QC-1 (d)	1/12/1996	---	---	---	---	40000	---	3500	9000	1200	8700	4300	---	---	---
MW-4	4/22/1996	50.76	19.13	---	31.63	40000	---	5100	9600	980	11800	29000	---	3.2	---
QC-1 (d)	4/22/1996	---	---	---	---	61000	---	8300	16000	1600	15200	36000	---	---	---
MW-4	7/2/1996	50.76	20.67	---	30.09	74000	---	9800	21000	2100	16600	41000	---	3.4	---
QC-1 (d)	7/2/1996	---	---	---	---	78000	---	9800	21000	1900	15300	42000	---	---	---
MW-4	11/8/1996	50.76	20.95	---	29.81	100000	---	7900	16000	2500	13700	37000	---	3.7	---
QC-1 (d)	11/8/1996	---	---	---	---	110000	---	9100	20000	3000	15400	39000	---	---	---
MW-4	1/3/1997	50.76	20.54	---	30.22	99000	---	17000	30000	4300	22700	79000	---	4.2	---
QC-1 (d)	1/3/1997	---	---	---	---	66000	---	12000	19000	2900	15000	69000	---	---	---
MW-4	4/28/1997	50.76	21.28	---	29.48	130000	---	12000	28000	3800	21000	37000	---	3.9	---
QC-1 (d)	4/28/1997	---	---	---	---	110000	---	11000	26000	3200	18200	34000	---	---	---
MW-4	7/1/1997	50.76	23.61	---	27.15	110000	---	16000	25000	4900	24400	37000	---	3.6	---
MW-4	10/2/1997	50.76	25.39	---	25.37	---	---	---	---	---	---	---	---	---	---
MW-4	10/3/1997	50.76	---	---	---	66000	---	8200	8600	2700	13400	80000	---	4.4	---
QC-1 (d)	10/3/1997	---	---	---	---	71000	---	8600	8700	2900	13500	84000	---	---	---
MW-4	1/9/1998	50.76	21.25	---	29.51	100000	---	9700	3200	1500	4700	92000	---	3.8	---
MW-4	5/6/1998	50.76	15.96	---	34.80	430000	---	6900	31000	11000	56000	ND<5000	---	3.9	---
QC-1 (d)	5/6/1998	---	---	---	---	440000	---	8000	39000	14000	70000	ND<5000	---	---	---

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (Feet) (a)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (ug/L) (b)	TPH-D (ug/L) (p)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-4	7/21/1998	50.76	16.1	---	34.66	250000	---	11000	26000	5500	26900	29000	---	3.7	---
QC-1 (d)	7/21/1998	---	---	---	---	210000	---	11000	27000	5600	26800	29000	---	---	---
MW-4	12/30/1998	50.76	20.91	---	29.85	370000	---	11000	22000	8500	40000	90000/92000 (j)	---	---	---
MW-4	2/2/1999	50.76	20.13	---	30.63	190000	---	4100	19000	4800	32000	28000	---	---	---
MW-4	5/10/1999	50.76	16.63	---	34.13	2700	---	23	7.1	8.1	25	120	---	---	---
MW-4	9/23/1999	50.76	22.48	---	28.28	180000	---	11000	29000	7000	38000	12000	---	---	---
MW-4 (k)	12/23/1999	50.76	22.94	---	27.82	66000	---	6300	5200	2200	7800	35000	---	---	---
MW-4	3/27/2000	50.76	16.84	---	33.92	120000	---	8700	12000	3800	16000	27000	---	---	---
MW-4	5/22/2000	50.76	17.85	---	32.91	110000	---	7600	16000	4400	20000	25000	---	---	---
MW-4	8/31/2000	50.76	21.71	---	29.05	110000	---	8800	7600	3400	14000	18000	---	---	---
MW-4	12/11/2000	50.76	22.05	---	28.71	70000	---	4580	3480	2550	9220	24400	---	---	---
MW-4	3/20/2001	50.76	17.68	---	33.08	100000	---	7100	4530	2540	9370	63100	---	---	---
MW-4	6/19/2001	50.76	19.40	---	31.36	180000	---	7430	14600	5400	25300	36100	---	---	---
MW-4 (f)	9/20/2001	50.76	22.01	0.03 (m)	28.75	---	---	---	---	---	---	---	---	---	---
MW-4	12/27/2001	50.76	17.96	---	32.80	120000	---	6880	9030	2840	14600	32300	---	---	---
MW-4	2/28/2002	50.76	17.06	---	33.70	80000	---	4920	5450	2220	12300	35900	---	---	---
MW-4	6/28/2002	50.76	17.76	---	33.00	48000	---	2780	2770	1530	6790	25100	---	---	---
MW-4	9/12/2002*	50.76	19.45	---	31.31	46,000	---	4,500	6,800	2,600	10,000	9,100	---	---	6.8
MW-4	12/12/2002	50.76	21.29	---	29.47	36,000	---	5,200	3,400	2,000	6,500	12,000	---	---	6.7
MW-4	3/10/2003	50.76	17.16	---	33.60	70,000	---	7,000	4,800	3,300	13,000	29,000	---	---	6.7
MW-4	5/12/2003	50.76	14.51	---	36.25	75,000	---	7,600	3,700	3,400	13,000	26,000	---	---	6.8
MW-4 (n)	8/27/2003	50.76	19.32	SHEEN	31.44	77,000	---	7,500	1,300	2,100	4,000	32,000	---	---	6.8
MW-4	11/10/2003	50.76	20.36	---	30.40	110,000	---	7,100	3,100	2,100	5,800	25,000	---	---	6.6
MW-4	2/3/2004	50.76	16.51	---	34.25	160,000	---	8,400	9,700	5,000	23,000	26,000	---	---	6.7

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-6	7/24/1992	50.32	30.63	---	19.69	ND	---	1.6	ND	ND	ND	---	---	---	---
MW-6	7/27/1992	50.32	30.63	---	19.69	---	---	---	---	---	---	---	---	---	---
MW-6	9/15/1992	50.32	31.52	---	18.80	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-6	12/15/1992	50.32	32.42	---	17.90	58	ND<50	1.3	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-6	3/15/1993	50.32	26.29	---	24.03	ND<50	ND<50	ND<0.5	0.6	ND<0.5	0.7	---	(l)	---	---
MW-6	6/7/1993	50.32	26.33	---	23.99	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	1.5	---	(l)	---	---
MW-6	9/23/1993	50.32	29.64	---	20.68	---	---	---	---	---	---	---	---	---	---
MW-6	9/24/1993	50.32	---	---	---	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28.5	(l)	---	---
MW-6	12/27/1993	50.32	29.75	---	20.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	55.4	(e)(l)	---	---
MW-6	4/5/1994	50.32	27.26	---	23.06	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	295	(e)(l)	1.7	---
MW-6	7/22/1994	50.32	27.34	---	22.98	350	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	419	(e)(l)	4.5	---
MW-6 (g)	10/13/1994	50.32	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	1/25/1995	50.32	22.16	---	28.16	240	---	6	ND<0.5	ND<0.5	ND<1	---	---	---	---
MW-6 (g)	4/19/1995	50.32	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	7/5/1995	50.32	20.80	---	29.52	180	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.9	---
MW-6	10/5/1995	50.32	24.20	---	26.12	860	---	ND<5.0	ND<5.0	ND<5.0	ND<10	3600	---	2.8	---
MW-6	1/12/1996	50.32	25.30	---	25.02	860	---	ND<5.0	ND<5.0	ND<5.0	ND<10	2800	---	4.2	---
MW-6	4/22/1996	50.32	19.13	---	31.19	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	470	---	4.3	---
MW-6	7/2/1996	50.32	20.66	---	29.66	100	---	ND<0.5	ND<1	ND<1	ND<1	1100	---	4.2	---
MW-6	11/8/1996	50.32	20.98	---	29.34	1100	---	ND<5	ND<10	ND<10	ND<10	1500	---	4.3	---
MW-6	1/3/1997	50.32	20.53	---	29.79	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	450	---	4.5	---
MW-6	4/28/1997	50.32	21.25	---	29.07	1400	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3500	---	4.4	---
MW-6	7/1/1997	50.32	23.40	---	26.92	6100	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	9100	---	3.9	---
MW-6	10/2/1997	50.32	25.16	---	25.16	---	---	---	---	---	---	---	---	---	---
MW-6	10/3/1997	50.32	---	---	---	330	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	2600	---	4.4	---
MW-6	1/9/1998	50.32	21.13	---	29.19	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	---
MW-6	5/6/1998	50.32	16.11	---	34.21	410	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	500	---	3.6	---
MW-6	7/21/1998	50.32	16.33	---	33.99	4300	---	ND<5	ND<10	ND<10	ND<10	3800	---	4.0	---
MW-6	12/30/1998	50.32	20.89	---	29.43	---	---	---	---	---	---	---	---	---	---
MW-6	2/2/1999	50.32	20.20	---	30.12	---	---	---	---	---	---	---	---	---	---
MW-6	5/10/1999	50.32	16.75	---	33.57	---	---	---	---	---	---	---	---	---	---
MW-6	9/23/1999	50.32	22.55	---	27.77	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1600	---	---	---
MW-6	12/23/1999	50.32	23.00	---	27.32	---	---	---	---	---	---	---	---	---	---
MW-6	3/27/2000	50.32	16.89	---	33.43	1700	---	4.4	0.54	ND<0.5	1.0	14000	---	---	---
MW-6	5/22/2000	50.32	18.02	---	32.30	---	---	---	---	---	---	---	---	---	---
MW-6	8/31/2000	50.32	21.62	---	28.70	1200	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3900	---	---	---
MW-6	12/11/2000	50.32	21.81	---	28.51	---	---	---	---	---	---	---	---	---	---
MW-6	3/20/2001	50.32	16.97	---	33.35	3300	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	3760	---	---	---
MW-6	6/19/2001	50.32	19.30	---	31.02	---	---	---	---	---	---	---	---	---	---
MW-6	9/20/2001	50.32	22.00	---	28.32	2200	---	2.04	8.1	3.62	13.7	2460	---	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 Former BP Service Station #11117  
 7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-6	12/27/2001	50.32	17.85	--	32.47	830	--	0.59	ND<0.5	ND<0.5	ND<1.0	1040	--	--	--
MW-6	2/28/2002	50.32	16.31	--	34.01	1100	--	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1450	--	--	--
MW-6	6/28/2002	50.32	17.57	--	32.75	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1020	--	--	--
MW-6	9/12/2002*	50.32	19.27	--	31.05	190	--	1.9	4.6	1	7.3	480	--	--	7.1
MW-6	12/12/2002	50.32	20.94	--	29.38	270	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	500	--	--	6.9
MW-6	3/10/2003	50.32	17.11	--	33.21	110	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	190	--	--	7.0
MW-6	5/12/2003	50.32	15.18	--	35.14	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	36	--	--	7.0
MW-6 (n)	8/27/2003	50.32	18.90	--	31.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8.9	--	--	7.0
MW-6	11/10/2003	50.32	20.13	--	30.19	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.5	--	--	6.8
MW-6	2/3/2004	50.32	15.83	--	34.49	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	6.9

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**Groundwater Elevation and Analytical Data**  
 Former BP Service Station #11117  
 7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-7	1/25/1995	51.40	21.67	---	29.73	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.0	---
MW-7	4/19/1995	51.40	25.27	---	26.13	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.0	---
MW-7	7/5/1995	51.40	24.63	---	26.77	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.2	---
MW-7	10/5/1995	51.40	28.21	---	23.19	83	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	77	---	4.5	---
MW-7	1/12/1996	51.40	29.29	---	22.11	63	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	120	---	4.8	---
MW-7	4/22/1996	51.40	23.11	---	28.29	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	13	---	4.8	---
MW-7	7/2/1996	51.40	23.56	---	27.84	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.8	---
MW-7	11/8/1996	51.40	20.06	---	31.34	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	5.1	---
MW-7	1/3/1997	51.40	23.42	---	27.98	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	---
MW-7	4/28/1997	51.40	24.12	---	27.28	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	---
MW-7	7/1/1997	51.40	26.40	---	25.00	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	---
MW-7	10/2/1997	51.40	28.14	---	23.26	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	---
MW-7	1/9/1998	51.40	24.02	---	27.38	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	---
MW-7	5/6/1998	51.40	21.00	---	30.40	1900	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	1800	---	3.5	---
MW-7	7/21/1998	51.40	21.17	---	30.23	50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.7	---
MW-7	12/30/1998	51.40	22.13	---	29.27	---	---	---	---	---	---	---	---	---	---
MW-7	2/2/1999	51.40	22.08	---	29.32	---	---	---	---	---	---	---	---	---	---
MW-7	5/10/1999	51.40	18.58	---	32.82	---	---	---	---	---	---	---	---	---	---
MW-7	9/23/1999	51.40	24.29	---	27.11	70	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	4700	---	---	---
MW-7	12/23/1999	51.40	24.53	---	26.87	---	---	---	---	---	---	---	---	---	---
MW-7	3/27/2000	51.40	18.58	---	32.82	910	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2600	---	---	---
MW-7	5/22/2000	51.40	19.49	---	31.91	---	---	---	---	---	---	---	---	---	---
MW-7	8/31/2000	51.40	22.53	---	28.87	440	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	900	---	---	---
MW-7	12/11/2000	51.40	22.75	---	28.65	---	---	---	---	---	---	---	---	---	---
MW-7	3/20/2001	51.40	18.79	---	32.61	1100	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	1210	---	---	---
MW-7	6/19/2001	51.40	19.82	---	31.58	---	---	---	---	---	---	---	---	---	---
MW-7	9/20/2001	51.40	21.35	---	30.05	1300	---	1.21	ND<0.5	ND<0.5	ND<1.5	1550	---	---	---
MW-7	12/27/2001	51.40	20.36	---	31.04	510	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	643	---	---	---
MW-7	2/28/2002	51.40	21.86	---	29.54	250	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	317	---	---	---
MW-7	6/28/2002	51.40	22.64	---	28.76	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	102	---	---	---
MW-7	9/12/2002*	51.40	23.51	---	27.89	ND<50	---	ND<0.5	ND<0.5	ND<0.5	1	14	---	---	7.5
MW-7	12/12/2002	51.40	23.75	---	27.65	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	---	---	7.5
MW-7	3/10/2003	51.40	21.25	---	30.15	61	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	99	---	---	7.6
MW-7	5/12/2003	51.40	21.44	---	29.96	ND<100	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	120	---	---	7.6
MW-7 (n)	8/27/2003	51.40	23.30	---	28.10	120	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	84	---	---	7.6
MW-7	11/10/2003	51.40	20.24	---	31.16	230	(o) ---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	92	---	---	6.7
MW-7	2/3/2004	51.40	20.63	---	30.77	ND<250	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	91	---	---	7.5



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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (Feet) (a)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (ug/L) (b)	TPH-D (ug/L) (p)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-8	1/25/1995	50.88	31.59	---	19.29	54	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.1	---
MW-8	4/19/1995	50.88	19.18	---	31.70	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.1	---
MW-8	7/5/1995	50.88	19.03	---	31.85	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.5	---
MW-8	10/5/1995	50.88	24.40	---	26.48	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.1	---
MW-8	1/12/1996	50.88	25.51	---	25.37	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.6	---
MW-8	4/22/1996	50.88	18.00	---	32.88	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.8	---
MW-8	7/2/1996	50.88	19.83	---	31.05	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.5	---
MW-8	11/8/1996	50.88	20.09	---	30.79	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	---
MW-8	1/3/1997	50.88	19.72	---	31.16	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.4	---
MW-8	4/28/1997	50.88	20.44	---	30.44	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	---
MW-8	7/1/1997	50.88	22.72	---	28.16	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
MW-8	10/2/1997	50.88	24.51	---	26.37	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	---
MW-8	1/9/1998	50.88	21.17	---	29.71	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.5	---
MW-8	5/6/1998	50.88	18.34	---	32.54	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.6	---
MW-8	7/21/1998	50.88	18.55	---	32.33	90	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.3	---
MW-8	12/30/1998	50.88	20.40	---	30.48	---	---	---	---	---	---	---	---	---	---
MW-8	2/2/1999	50.88	19.28	---	31.60	---	---	---	---	---	---	---	---	---	---
MW-8	5/10/1999	50.88	15.62	---	35.26	---	---	---	---	---	---	---	---	---	---
MW-8	9/23/1999	50.88	21.74	---	29.14	---	---	---	---	---	---	---	---	---	---
MW-8	12/23/1999	50.88	22.83	---	28.05	---	---	---	---	---	---	---	---	---	---
MW-8	3/27/2000	50.88	16.25	---	34.63	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
MW-8	5/22/2000	50.88	17.06	---	33.82	---	---	---	---	---	---	---	---	---	---
MW-8	8/31/2000	50.88	21.72	---	29.16	---	---	---	---	---	---	---	---	---	---
MW-8	12/11/2000	50.88	22.03	---	28.85	---	---	---	---	---	---	---	---	---	---
MW-8	3/20/2001	50.88	16.23	---	34.65	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	0.991	---	---	---
MW-8	6/19/2001	50.88	19.35	---	31.53	---	---	---	---	---	---	---	---	---	---
MW-8	9/20/2001	50.88	21.95	---	28.93	---	---	---	---	---	---	---	---	---	---
MW-8	12/27/2001	50.88	16.98	---	33.90	---	---	---	---	---	---	---	---	---	---
MW-8	2/28/2002	50.88	15.38	---	35.50	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	---	---	---
MW-8	6/28/2002	50.88	16.97	---	33.91	---	---	---	---	---	---	---	---	---	---
MW-8	9/12/2002*	50.88	19.47	---	31.41	---	---	---	---	---	---	---	---	---	---
MW-8	12/12/2002	50.88	20.84	---	30.04	---	---	---	---	---	---	---	---	---	---
MW-8	3/10/2003	50.88	16.56	---	34.32	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.0	---	---	7.1
MW-8	5/12/2003	50.88	13.63	---	37.25	---	---	---	---	---	---	---	---	---	---
MW-8 (n)	8/27/2003	50.88	18.90	---	31.98	---	---	---	---	---	---	---	---	---	---
MW-8	11/10/2003	50.88	19.68	---	31.20	---	---	---	---	---	---	---	---	---	---
MW-8	2/3/2004	50.88	14.76	---	36.12	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	7.5

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-9	1/25/1995	51.05	22.32	---	28.73	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.4	---
MW-9	4/19/1995	51.05	19.86	---	31.19	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.2	---
MW-9	7/5/1995	51.05	20.78	---	30.27	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.4	---
MW-9	10/5/1995	51.05	24.33	---	26.72	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	2.3	---
QC-1 (d)	10/5/1995	---	---	---	---	52	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	160	---	---	---
MW-9	1/12/1996	51.05	25.44	---	25.61	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	3.2	---
MW-9	4/22/1996	51.05	18.01	---	33.04	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	11	---	3.5	---
MW-9	7/2/1996	51.05	19.70	---	31.35	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	3.3	---
MW-9	11/8/1996	51.05	19.96	---	31.09	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.7	---
MW-9	1/3/1997	51.05	19.52	---	31.53	ND<250	---	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.4	---
MW-9	4/28/1997	51.05	20.22	---	30.83	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.0	---
MW-9	7/1/1997	51.05	22.59	---	28.46	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	---
MW-9	10/2/1997	51.05	24.33	---	26.72	---	---	---	---	---	---	---	---	---	---
MW-9	10/3/1997	51.05	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.4	---
MW-9	1/9/1998	51.05	21.11	---	29.94	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	---
MW-9	5/6/1998	51.05	18.26	---	32.79	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.0	---
MW-9	7/21/1998	51.05	18.46	---	32.59	70	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.7	---
MW-9 (g)	12/30/1998	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	2/2/1999	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	5/10/1999	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	9/23/1999	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	12/23/1999	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	3/27/2000	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	5/22/2000	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	8/31/2000	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	12/11/2000	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	3/20/2001	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	6/19/2001	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	9/20/2001	51.05	22.20	---	28.85	6300	---	2.87	ND<0.5	ND<0.5	ND<1.5	8640	---	---	---
MW-9	12/27/2001	51.05	18.92	---	32.13	---	---	---	---	---	---	---	---	---	---
MW-9	2/28/2002	51.05	17.22	---	33.83	19000	---	1560	61.3	84	111	20200	---	---	---
MW-9	6/28/2002	51.05	18.20	---	32.85	---	---	---	---	---	---	---	---	---	---
MW-9	9/12/2002*	51.05	19.92	---	31.13	5100	---	570	180	ND<25	220	6400	---	---	6.8
MW-9	12/12/2002	51.05	21.78	---	29.27	---	---	---	---	---	---	---	---	---	---
MW-9	3/10/2003	51.05	18.25	---	32.80	26,000	---	2,500	ND<100	ND<100	ND<100	33,000	---	---	6.9
MW-9	5/12/2003	51.05	16.29	---	34.76	---	---	---	---	---	---	---	---	---	---
MW-9 (n)	8/27/2003	51.05	19.69	---	31.36	11,000	---	830	ND<50	ND<50	ND<50	6,300	---	---	7.1
MW-9	11/10/2003	51.05	19.94	---	31.11	---	---	---	---	---	---	---	---	---	---
MW-9	2/3/2004	51.05	17.23	---	33.82	6,200	---	180	ND<50	ND<50	ND<50	2,100	---	---	7.2

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Service Station #11117**  
**7210 Bancroft Avenue, Oakland, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-10	1/9/1998	---	(h) 20.97	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	---
MW-10	5/6/1998	---	(h) 18.07	---	---	800	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	980	---	3.9	---
MW-10	7/21/1998	---	(h) 18.28	---	---	80	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.0	---
MW-10	12/30/1998	---	(h) 22.22	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	2/2/1999	---	(h) 21.83	---	---	940	---	ND<10	ND<10	ND<10	ND<10	690	---	---	---
MW-10	5/10/1999	---	(h) 17.99	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	9/23/1999	---	(h) 22.61	---	---	ND<50	---	ND<1.0	ND<1.0	ND<1.0	1.4	1000	---	---	---
MW-10	12/23/1999	---	(h) 23.75	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	3/27/2000	---	(h) 18.83	---	---	1900	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28000	---	---	---
MW-10	5/22/2000	---	(h) 19.47	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	8/31/2000	---	(h) 22.64	---	---	1700	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13000	---	---	---
MW-10	12/11/2000	---	(h) 22.84	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	3/20/2001	---	(h) 19.57	---	---	16000	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	11900	---	---	---
MW-10	6/19/2001	---	(h) 20.63	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	9/20/2001	---	(h) 23.07	---	---	5800	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	8160	---	---	---
MW-10	12/27/2001	---	(h) 20.92	---	---	6600	---	17.3	14.5	ND<12.5	ND<25	7750	---	---	---
MW-10	2/28/2002	---	(h) 18.52	---	---	3600	---	10.8	ND<0.5	ND<0.5	ND<1.0	5380	---	---	---
MW-10	6/28/2002	---	(h) 18.41	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	2570	---	---	---
MW-10	9/12/2002*	---	(h) 20.57	---	---	660	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3300	---	---	7.2
MW-10	12/12/2002	---	(h) 22.80	---	---	1400	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3300	---	---	6.9
MW-10	3/10/2003	---	(h) 19.26	---	---	1,700	---	ND<5.0	ND<5.0	5.3	15	2,800	---	---	6.9
MW-10	5/12/2003	---	(h) 17.90	---	---	1,500	---	ND<12	ND<12	ND<12	ND<12	2,200	---	---	6.9
MW-10 (n)	8/27/2003	---	(h) 20.82	---	---	4,100	---	ND<25	ND<25	ND<25	ND<25	2,800	---	---	7.0
MW-10	11/10/2003	---	(h) 21.92	---	---	ND<5,000	---	ND<50	ND<50	ND<50	ND<50	3,300	---	---	6.8
MW-10	2/3/2004	---	(h) 18.52	---	---	5,100	(q) ---	ND<50	ND<50	ND<50	ND<50	2,300	---	---	7.0

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 Former BP Service Station #11117  
 7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
QC-2	(i) 9/15/1992	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
QC-2	(i) 12/15/1992	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
QC-2	(i) 3/15/1993	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	---	---
QC-2	(i) 6/7/1993	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	---	---
QC-2	(i) 9/24/1993	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---
QC-2	(i) 12/27/1993	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---
QC-2	(i) 4/5/1994	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---
QC-2	(i) 7/22/1994	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---
QC-2	(i) 10/13/1994	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---
QC-2	(i) 1/25/1995	---	---	---	---	ND<50	---	ND<0.5	2	0.6	1	---	---	---	---
QC-2	(i) 4/19/1995	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
QC-2	(i) 7/5/1995	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---
QC-2	(i) 10/5/1995	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---
QC-2	(i) 1/12/1996	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---
QC-2	(i) 4/22/1996	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---
QC-2	(i) 7/2/1996	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11117  
7210 Bancroft Avenue, Oakland, CA

**ABBREVIATIONS:**

GRO	Gasoline Range Organics, C4-C12 range
TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
MTBE	Methyl tert butyl ether
DO	Dissolved Oxygen - field measurement
pH	pH Level - field measurement
ug/L	Micrograms per liter
ppm	Parts per million
ND<	Not detected at or above laboratory reporting limit
---	Not analyzed/applicable/measurable
TOC	Top of casing
DTW	Depth to water

**NOTES:**

- (a) Casing elevations surveyed to the nearest 0.01 foot relative to mean sea level.
  - (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
  - (c) Concentrations reported as diesel from MW-1, MW-2 and MW-4 are primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.
  - (d) Blind duplicate.
  - (e) A copy of the documentation for this data is included in Appendix C of Alisto report 10-018-05-004.
  - (f) Well not sampled due to presence of free product.
  - (g) Well inaccessible.
  - (h) Top of casing not surveyed.
  - (i) Travel blank.
  - (j) EPA method by 8020/8260.
  - (k) Samples ran outside of EPA recommended hold time.
  - (l) A copy of the documentation for this data can be found in Blaine Tech Services report 010619-C-2. The MTBE data for the March 15, 1993 and June 7, 1993 events have been destroyed.
  - (m) Thickness of SPH is only an estimate. The resulting groundwater elevation will not be used in contouring.
  - (n) Samples analyzed by EPA Method 8260B for TPH-g, BTEX, and fuel oxygenates
  - (o) Discrete Peak @ C6-C7
  - (p) Beginning with the Third Quarter 2003 (08/27/03), the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPH-g) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPH-g analytes within the requested fuel range
  - (o) Discrete Peak @ C5-C6
- \* During the third quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP  
\*\* Depth to water and resulting groundwater elevation is anomalous and not used in groundwater contouring.  
\*\*\* Anomalously low concentrations reported from Cambria. Do not appear to support historic trends.

Source: The data within this table collected prior to June 2002 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified tenaccuracy of this information.

**Table 2**  
**Groundwater Flow Direction and Gradient**

Former BP Service Station #11117  
7210 Bancroft Avenue  
Oakland, CA

<b>Date Measured</b>	<b>Average Flow Direction</b>	<b>Average Hydraulic Gradient</b>
09/12/02	Northeast	0.03
12/12/02	Northeast	0.02
03/10/03	Northeast	0.03
05/12/03	North-Northeast	0.055
08/27/03	North-Northeast	0.036
11/10/03	North-Northeast	0.012
<b>02/03/04</b>	<b>Northeast</b>	<b>0.013</b>

**Table 3**  
**Fuel Oxygenate Analytical Data**  
 Former BP Service Station #11117  
 7210 Bancroft Avenue, Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	8/27/2003	ND<100	ND<20	4.2	ND<0.50	ND<0.50	ND<0.50	---	---
MW-1	11/10/2003	ND<100	ND<20	0.51	ND<0.50	ND<0.50	ND<0.50	---	---
MW-1	2/3/2004	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2	8/27/2003	ND<25,000	ND<5,000	5,100	ND<120	ND<120	140	---	---
MW-2	11/10/2003	ND<50,000	ND<10,000	4,200	ND<250	ND<250	ND<250	---	---
MW-2	2/3/2004	ND<100,000	ND<20,000	1,900	ND<500	ND<500	ND<500	ND<500	ND<500
MW-3	8/27/2003	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-3	2/3/2004	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-4	8/27/2003	ND<50,000	ND<10,000	32,000	ND<250	ND<250	250	250	250
MW-4	11/10/2003	ND<100,000	ND<20,000	25,000	ND<500	ND<500	ND<500	ND<500	ND<500
MW-4	2/3/2004	ND<100,000	ND<20,000	26,000	ND<500	ND<500	ND<500	ND<500	ND<500
MW-6	8/27/2003	ND<100	ND<20	8.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-6	11/10/2003	ND<100	ND<20	4.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-6	2/3/2004	ND<100 (a)	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	8/27/2003	ND<100	ND<20	84	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	11/10/2003	ND<200	ND<40	92	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
MW-7	2/3/2004	ND<500	ND<100	91	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
MW-8	2/3/2004	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-9	8/27/2003	ND<10,000	ND<2,000	6,300	ND<50	ND<50	ND<50	ND<50	ND<50
MW-9	2/3/2004	ND<10,000 (a)	ND<2,000	2,100	ND<50	ND<50	ND<50	ND<50	ND<50
MW-10	8/27/2003	ND<5,000	ND<1,000	2,800	ND<25	ND<25	ND<25	ND<25	ND<25
MW-10	11/10/2003	ND<10,000	ND<2,000	3,300	ND<50	ND<50	ND<50	ND<50	ND<50
MW-10	2/3/2004	ND<10,000 (a)	ND<2,000	2,300	ND<50	ND<50	ND<50	ND<50	ND<50

NOTES:

All volatile organic compounds (Ethanol, TBA, MTBE, DIPE, ETBE, TAME, 1,2-DCA, and EDB) analyzed using EPA Method 8260B

TBA = tert-Butyl alcohol  
 MTBE = Methyl tert-butyl ether  
 DIPE = Di-isopropyl ether  
 TAME = tert-Amyl methyl ether  
 ETBE = Ethyl tert-butyl ether  
 1,2-DCA = 1,2-Dichloroethane  
 EDB = 1,2-Dibromoethane  
 µg/L = Micrograms per Liter  
 ND< = Not detected at or above laboratory reporting limit

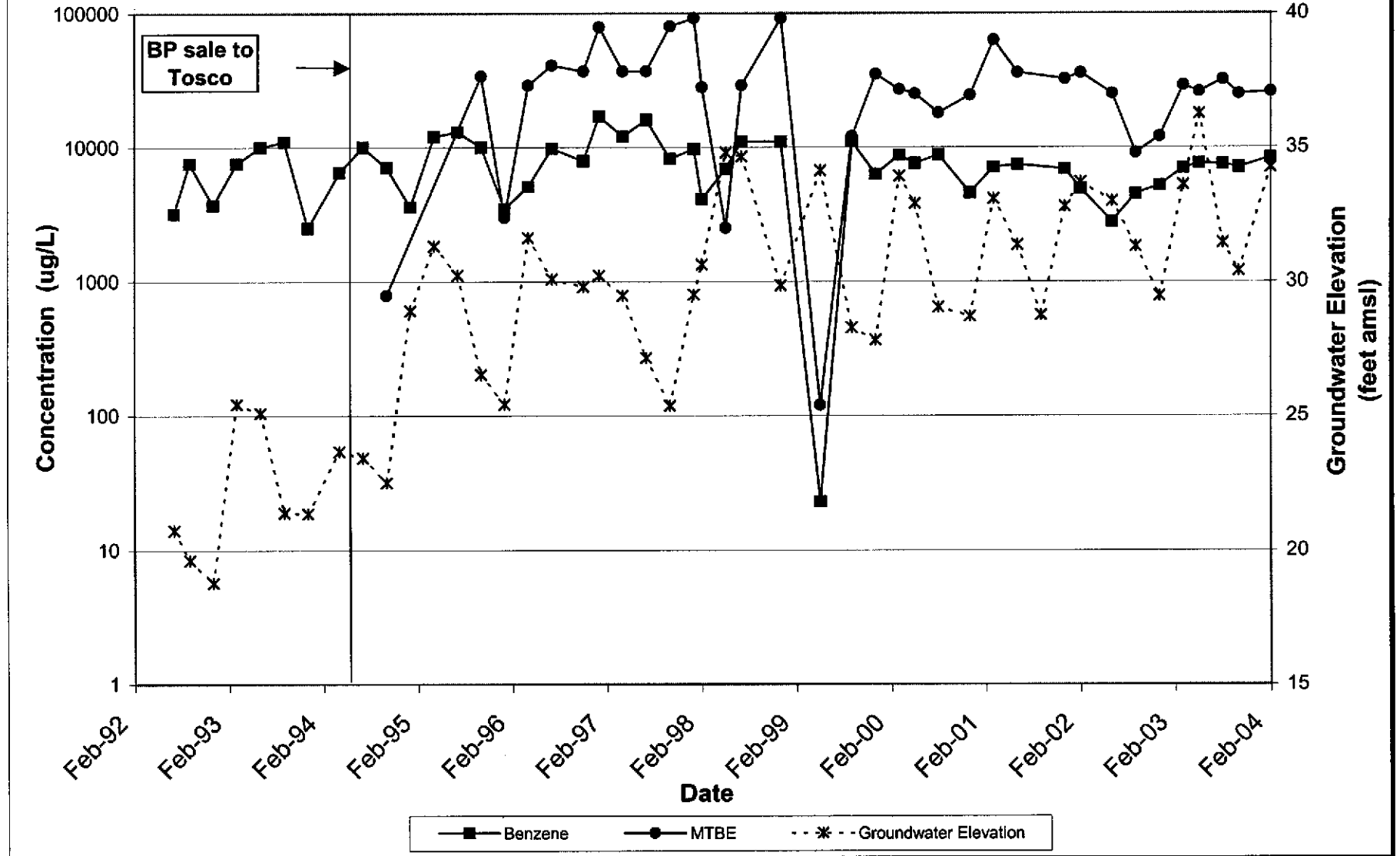
a = The continuing calibration verification was outside of client contractual acceptance limits by 0.6% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose.

**ATTACHMENT A**

**CONCENTRATION AND WATER LEVEL TRENDS  
(MW-4, MW-2, MW-10)**

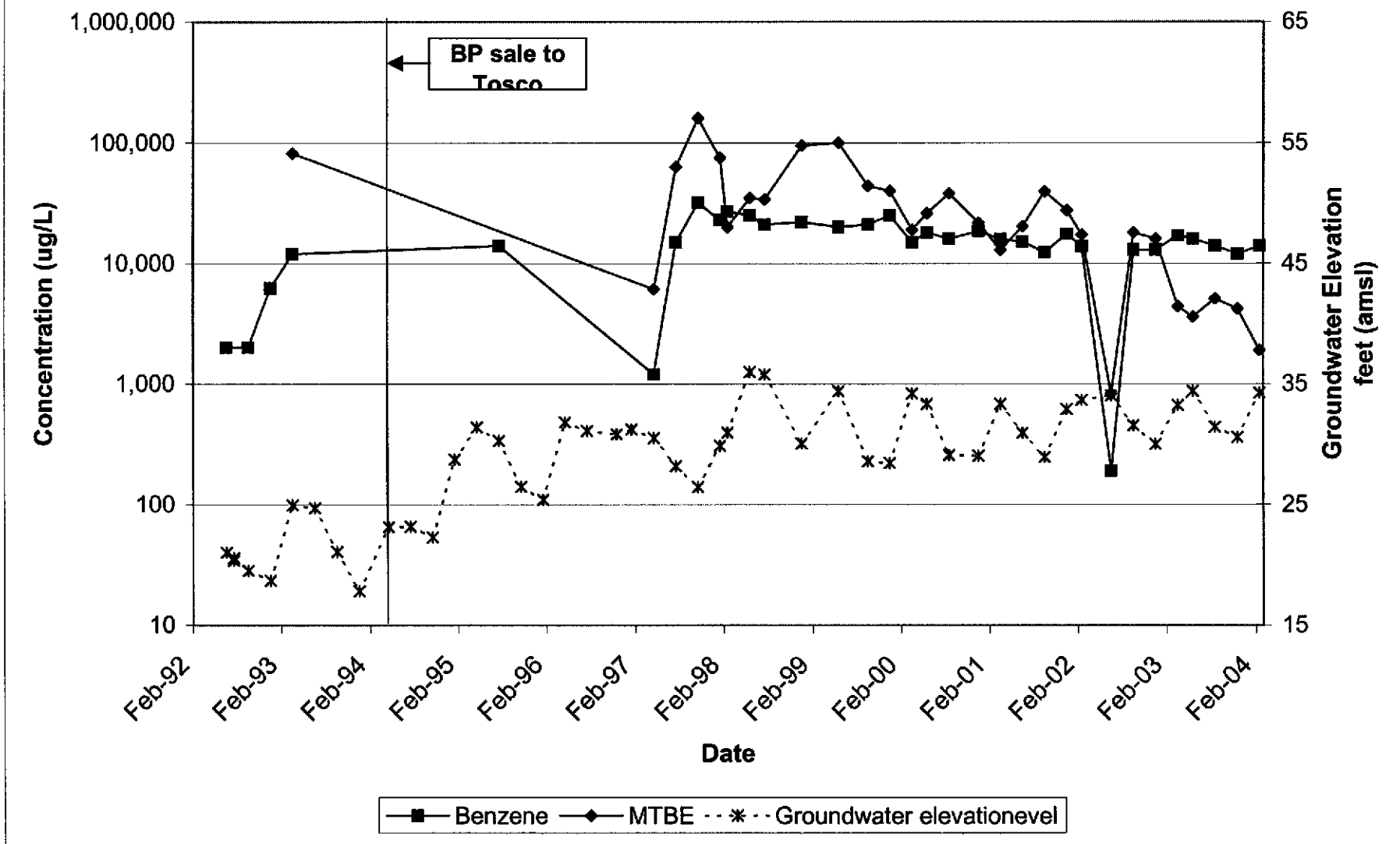


## Concentration and Water Elevation Trends MW-4



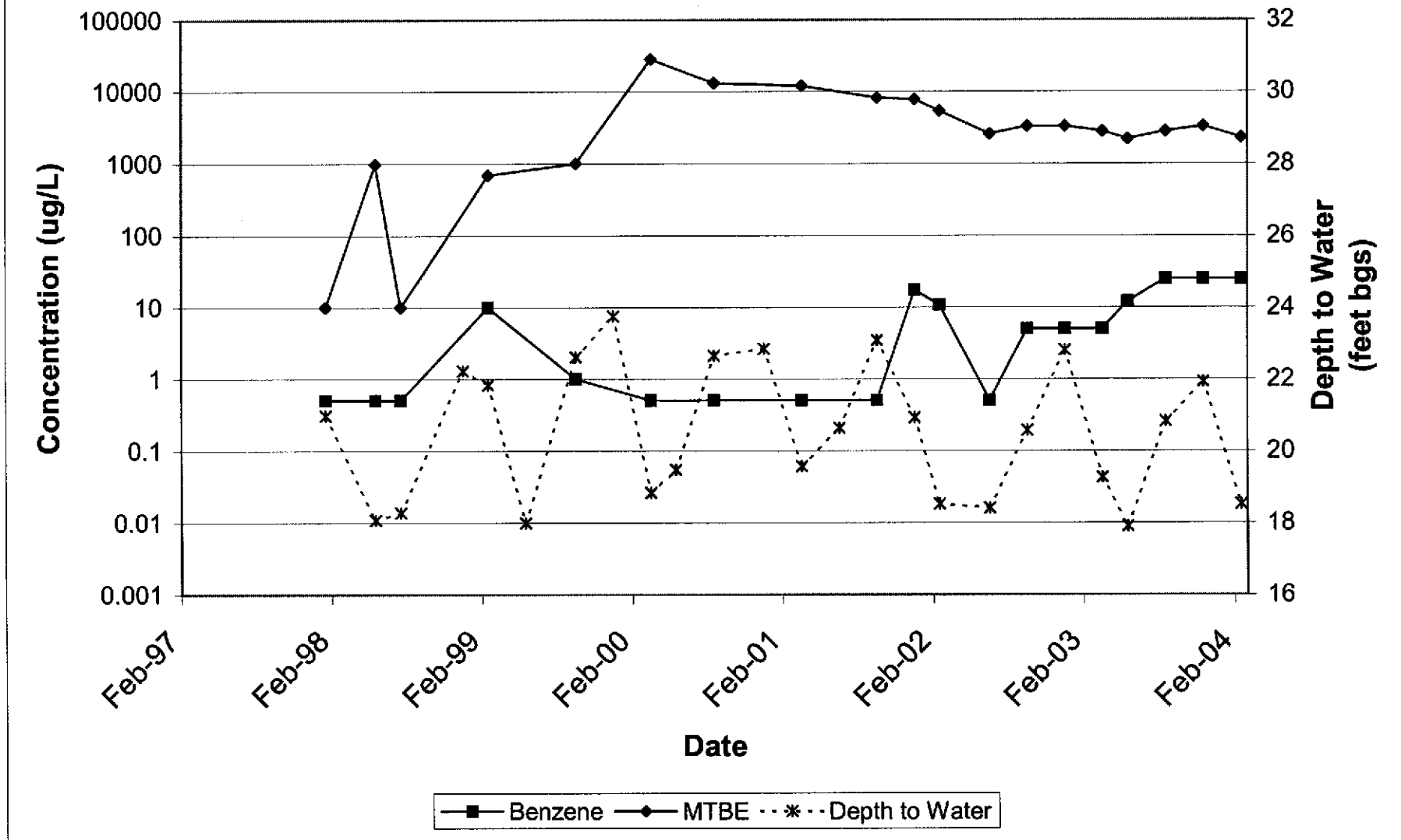
Former BP Service Station #11117  
7210 Bancroft Avenue  
Oakland, CA

## Concentration and Water Elevation Trends Well MW-2



Former BP Service Station #11117  
 7210 Bancroft Avenue  
 Oakland, CA

## Concentration and Water Elevation Trends Well MW-10



Former BP Service Station #11117  
7210 Bancroft Avenue  
Oakland, CA

**ATTACHMENT B**  
**FIELD PROCEDURES AND FIELD DATA SHEETS**

## FIELD PROCEDURES

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### Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

## WELL GAUGING DATA

Project # 040203-DA2      Date 2/3/04      Client 1117

Site 7210 Bancroft Ave. Oakland, CA

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	2					14.84	36.66	TOC
MW-2	2	0				16.82	39.48	
MW-3	2					15.33	40.61	
MW-4	2	0				16.51	39.60	
MW-6	2					15.83	39.30	
MW-7	2					20.63	44.75	
MW-8	2					14.76	39.56	
MW-9	2					17.23	38.66	
MW-10	2					18.52	35.78	

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040203-DA2	Station # 1117
Sampler: DA	Date: 2/3/04
Well I.D.: MW-1	Well Diameter: ② 3 4 6 8
Total Well Depth: 36.66	Depth to Water: 14.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <del>EYE</del> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer	Sampling Method: Bailer
Disposable Bailer	<input checked="" type="checkbox"/> Disposable Bailer
<input checked="" type="checkbox"/> Positive Air Displacement	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: _____	

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

3.5	x	3	=	10.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <del>mS</del> )	Gals. Removed	Observations
1232	63.9	6.9	508	3.5	grey, gas odor
1235	64.0	6.9	472	7	"
1238	63.8	7.0	461	10.5	"

Did well dewater? Yes  No  Gallons actually evacuated: 10.5

Sampling Time: 1241 Sampling Date: 2/3/04

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

Analyzed for: PH-G BTEX MTBE TPH-D Other: Oxy's, Ethanol

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040203-DA2	Station # 1117
Sampler: DA	Date: 2/3/04
Well I.D.: Mw-2	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/> _____
Total Well Depth: 39.48	Depth to Water: 16.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PV <sub>2</sub> <input type="checkbox"/> Grade	D.O. Meter (if req'd): <input type="checkbox"/> YSI <input type="checkbox"/> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
<input checked="" type="radio"/> 2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:                    Bailer Disposable Bailer <input checked="" type="checkbox"/> Positive Air Displacement Electric Submersible Extraction Pump Other: _____	Sampling Method:                Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Other: _____
--	--

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3.6</u>	x	<u>3</u>	=	<u>10.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1309	66.6	6.8	458	3.0A 4	clear, gas odor
1312	66.3	6.8	446	8	"
1315	66.9	6.8	476	"	"

Did well dewater? Yes <input checked="" type="radio"/> No	Gallons actually evacuated: 11			
Sampling Time: 1318	Sampling Date: 2/3/04			
Sample I.D.: Mw-2	Laboratory: Pace <input checked="" type="radio"/> Sequoia    Other _____			
Analyzed for: <del>TPH-G BTEX</del> MTBE TPH-D Other: <u>oxy's, Ethanol</u>				
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



## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040203-DA2	Station # 11117
Sampler: DA	Date: 2/3/04
Well I.D.: Mw-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 40.61	Depth to Water: 15.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <del>PVC</del> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method:  Bailer      Sampling Method:  Bailer

Disposable Bailer       Disposable Bailer

Positive Air Displacement      Extraction Port

Electric Submersible

Extraction Pump

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

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

4.0	x	3	=	12.0	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1132	63.2	7.1	640	4	cloudy
1135	64.2	7.0	610	8	"
1138	64.7	7.0	593	12	"

Did well dewater? Yes  No  Gallons actually evacuated: 12

Sampling Time: 1141      Sampling Date: 2/3/04

Sample I.D.: Mw-3      Laboratory: Pace ~~Sequoia~~ Other \_\_\_\_\_

Analyzed for: ~~TPH-G~~ ~~BTEX~~ MTBE TPH-D Other: Oxy's, Ethanol

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

# ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040203-DA2	Station # 1117
Sampler: DA	Date: 2/3/04
Well I.D.: MW-4	Well Diameter: ② 3 4 6 8
Total Well Depth: 39.60	Depth to Water: 16.51
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>WV</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer	Sampling Method: Bailer
Disposable Bailer	<input checked="" type="checkbox"/> Disposable Bailer
<input checked="" type="checkbox"/> Positive Air Displacement	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: _____	

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3.7</u>	x	<u>3</u>	=	<u>11.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1329	66.2	6.6	969	4	grey, gas odor
1332	67.4	6.7	1024	8	"
1335	67.2	6.7	1036	11.5	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 11.5
Sampling Time: 1338	Sampling Date: 2/3/04
Sample I.D.: MW-4	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>PH-G BTEX</u> MTBE TPH-D Other: <u>Oxy's, Ethanol</u>	
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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040203-DAZ	Station # 1117
Sampler: DA	Date: 2/3/04
Well I.D.: MW-6	Well Diameter: <input checked="" type="radio"/> 3    4    6    8    _____
Total Well Depth: 39.30	Depth to Water: 15.83
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVC    Grade	D.O. Meter (if req'd):    YSI    HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
<input checked="" type="radio"/> 2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3.8</u>	x	<u>3</u>	=	<u>11.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1213	66.0	7.0	763	4	tan, cloudy
1216	66.8	6.9	782	8	"
1219	67.2	6.9	783	11.5	"

Did well dewater? Yes <input checked="" type="checkbox"/> No	Gallons actually evacuated: 11.5
Sampling Time: <del>1208</del> 1223	Sampling Date: 2/3/04
Sample I.D.: MW-6	Laboratory: Pace <input checked="" type="checkbox"/> SeqDIA    Other _____
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX    MTBE    TPH-D    Other: Oxy's, Ethanol	
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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040203-DA2	Station # 1117
Sampler: DA	Date: 2/3/04
Well I.D.: Mw-7	Well Diameter: ② 3 4 6 8
Total Well Depth: 44.75	Depth to Water: 20.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer Disposable Bailer * Positive Air Displacement Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer * Disposable Bailer Extraction Port Other: _____
---	---

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

3.9	x	3	=	11.7	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1153	67.4	7.1	473	4	clear
1156	68.7	7.3	476	8	"
1200	67.3	7.5	470	12	"

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: 12
Sampling Time: 1203	Sampling Date: 2/3/04
Sample I.D.: Mw-7	Laboratory: Pace Sequoia Other _____

Analyzed for: PH-G BTEX MTBE TPH-D Other: Oxy's, Ethanol		
D.O. (if req'd):	Pre-purge: <span style="float: right;">mg/L</span>	Post-purge: <span style="float: right;">mg/L</span>
O.R.P. (if req'd):	Pre-purge: <span style="float: right;">mV</span>	Post-purge: <span style="float: right;">mV</span>

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040203-DA2	Station # 1117
Sampler: DA	Date: 2/3/04
Well I.D.: MW-8	Well Diameter: ② 3 4 6 8
Total Well Depth: 39.56	Depth to Water: 14.76
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

4.0	x	3	=	12.0	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1015	56.7	7.6	384	4	clear
1020	57.4	7.6	393	8	"
1025	57.8	7.5	397	12	"

Did well dewater? Yes <input checked="" type="checkbox"/> No	Gallons actually evacuated: 12
Sampling Time: 1030	Sampling Date: 2/3/04
Sample I.D.: MW-8	Laboratory: Pace Sequoia Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxy's, Ethanol	
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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040203-DA2	Station # 1117
Sampler: DA	Date: 2/3/04
Well I.D.: MW-9	Well Diameter: <input checked="" type="radio"/> 3    4    6    8    _____
Total Well Depth: 38.66	Depth to Water: 17.23
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> VDO    Grade	D.O. Meter (if req'd):    YSI    HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
<input checked="" type="radio"/> 2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:                      Bailer <input checked="" type="checkbox"/> Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____	Sampling Method:                  Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Other: _____
--	--

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3.4</u>	x	<u>3</u>	=	<u>10.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <input checked="" type="radio"/> µS)	Gals. Removed	Observations
1045	64.4	6.9	686	3.5	tan, cloudy, gas odor
1050	64.5	6.9	663	7	"
1055	64.3	7.2	655	10.5	"

Did well dewater? Yes  (No)                      Gallons actually evacuated: 10.5

Sampling Time: 1100                      Sampling Date: 2/3/04

Sample I.D.: MW-9                      Laboratory: Pace  Sequoia    Other \_\_\_\_\_

Analyzed for:  TPH-G     BTEX    MTBE    TPH-D    Other: DA's, Ethanol

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040203-DA2	Station # 1117
Sampler: DA	Date: 2/3/04
Well I.D.: Mw-10	Well Diameter: ② 3 4 6 8
Total Well Depth: 35.78	Depth to Water: 18.52
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method:  Bailer      Sampling Method:  Bailer

Disposable Bailer       Disposable Bailer

Positive Air Displacement      Extraction Port

Electric Submersible      Other: \_\_\_\_\_

Extraction Pump

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

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

2.8	x	3	=	8.4	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <del>µS</del> )	Gals. Removed	Observations
1250	67.5	7.0	718	3	tan, turbid
1252	69.3	7.0	725	6	"
1255	70.4	7.0	730	8.5	"

Did well dewater? Yes  No  Gallons actually evacuated: 8.5

Sampling Time: 1258      Sampling Date: 2/3/04

Sample I.D.: Mw-10      Laboratory: Pace Sequibia Other \_\_\_\_\_

Analyzed for: PH-G BTEX MTBE TPH-D Other: Oxy's, Ethanol

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

**BP GEM OIL COMPANY TYPE A BILL OF LADING**

SOURCE RECORD BILL OF LADING FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

1117		
Station #		
7210 Bancroft Oakland, CA		
Station Address		
Total Gallons Collected From Groundwater Monitoring Wells:		
99.5		
added equip. <u>5</u>	any other adjustments _____	
rinse water _____		
<b>TOTAL GALS. RECOVERED</b> <u>104.5</u>	loaded onto BTS vehicle # <u>49</u>	
BTS event #	time	date
<u>040203-DA2</u>	<u>1345</u>	<u>2/3/04</u>
signature <u>David Allbut</u>		
*****		
REC'D AT	time	date
_____	_____	____/____/____
unloaded by signature _____		



**ATTACHMENT C**  
**LABORATORY PROCEDURES,**  
**CERTIFIED ANALYTICAL REPORTS,**  
**AND CHAIN-OF-CUSTODY RECORDS**

## **LABORATORY PROCEDURES**

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### **Laboratory Procedures**

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by Atlantic Richfield Company have been reviewed and verified by that laboratory.



18 February, 2004

Leonard Niles  
URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland, CA 94612

RE: BP Heritage #11117, Oakland, CA  
Work Order: MNB0147

Enclosed are the results of analyses for samples received by the laboratory on 02/04/04 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race  
Senior Project Manager

CA ELAP Certificate #1210

URS Corporation [Arcol]  
1333 Broadway, Suite 800  
Oakland CA, 94612

Project: BP Heritage #11117, Oakland, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MNB0147  
Reported:  
02/18/04 19:37

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNB0147-01	Water	02/03/04 12:41	02/04/04 17:00
MW-2	MNB0147-02	Water	02/03/04 13:18	02/04/04 17:00
MW-3	MNB0147-03	Water	02/03/04 11:41	02/04/04 17:00
MW-4	MNB0147-04	Water	02/03/04 13:38	02/04/04 17:00
MW-6	MNB0147-05	Water	02/03/04 12:23	02/04/04 17:00
MW-7	MNB0147-06	Water	02/03/04 12:03	02/04/04 17:00
MW-8	MNB0147-07	Water	02/03/04 10:30	02/04/04 17:00
MW-9	MNB0147-08	Water	02/03/04 11:00	02/04/04 17:00
MW-10	MNB0147-09	Water	02/03/04 12:58	02/04/04 17:00

These samples were received with intact custody seals.

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNB0147  
 Reported:  
 02/18/04 19:37

**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (MNB0147-01) Water    Sampled: 02/03/04 12:41    Received: 02/04/04 17:00</b>									
Ethanol	ND	100	ug/l	1	4B13002	02/13/04	02/14/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %		78-129	"	"	"	"	
<b>MW-2 (MNB0147-02) Water    Sampled: 02/03/04 13:18    Received: 02/04/04 17:00</b>									
Ethanol	ND	100000	ug/l	1000	4B13002	02/13/04	02/14/04	EPA 8260B	
tert-Butyl alcohol	ND	20000	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>1900</b>	500	"	"	"	"	"	"	
Di-isopropyl ether	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	500	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	500	"	"	"	"	"	"	
<b>Benzene</b>	<b>14000</b>	500	"	"	"	"	"	"	
<b>Toluene</b>	<b>19000</b>	500	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3400</b>	500	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>20000</b>	500	"	"	"	"	"	"	
<b>Gasoline Range Organics</b>	<b>130000</b>	50000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %		78-129	"	"	"	"	

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 Project Manager: Leonard Niles

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**Volatile Organic Compounds by EPA Method 8260B**
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-3 (MNB0147-03) Water Sampled: 02/03/04 11:41 Received: 02/04/04 17:00</b>									
Ethanol	ND	100	ug/l	1	4B13002	02/13/04	02/14/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.4 %		78-129	"	"	"	"	
<b>MW-4 (MNB0147-04) Water Sampled: 02/03/04 13:38 Received: 02/04/04 17:00</b>									
Ethanol	ND	100000	ug/l	1000	4B13002	02/13/04	02/14/04	EPA 8260B	
tert-Butyl alcohol	ND	20000	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>26000</b>	500	"	"	"	"	"	"	
Di-isopropyl ether	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	500	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	500	"	"	"	"	"	"	
<b>Benzene</b>	<b>8400</b>	500	"	"	"	"	"	"	
<b>Toluene</b>	<b>9700</b>	500	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>5000</b>	500	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>23000</b>	500	"	"	"	"	"	"	
<b>Gasoline Range Organics</b>	<b>160000</b>	50000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %		78-129	"	"	"	"	

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**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (MNB0147-05) Water Sampled: 02/03/04 12:23 Received: 02/04/04 17:00</b>									
Ethanol	ND	100	ug/l	1	4B17006	02/17/04	02/17/04	EPA 8260B	O-12a
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		78.8 %		78-129	"	"	"	"	
<b>MW-7 (MNB0147-06) Water Sampled: 02/03/04 12:03 Received: 02/04/04 17:00</b>									
Ethanol	ND	500	ug/l	5	4B13002	02/13/04	02/14/04	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>91</b>	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics	ND	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %		78-129	"	"	"	"	

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**Volatile Organic Compounds by EPA Method 8260B**
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-8 (MNB0147-07) Water</b> Sampled: 02/03/04 10:30 Received: 02/04/04 17:00									
Ethanol	ND	100	ug/l	1	4B13002	02/13/04	02/14/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %		78-129	"	"	"	"	
<b>MW-9 (MNB0147-08) Water</b> Sampled: 02/03/04 11:00 Received: 02/04/04 17:00									
Ethanol	ND	10000	ug/l	100	4B13050	02/13/04	02/14/04	EPA 8260B	O-12
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>2100</b>	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
<b>Benzene</b>	<b>180</b>	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
<b>Gasoline Range Organics</b>	<b>6200</b>	5000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %		78-129	"	"	"	"	



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**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-10 (MNB0147-09) Water</b> <b>Sampled: 02/03/04 12:58</b> <b>Received: 02/04/04 17:00</b>									
Ethanol	ND	10000	ug/l	100	4B13050	02/13/04	02/14/04	EPA 8260B	O-12
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Methyl tert-butyl ether	2300	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
<b>Gasoline Range Organics</b>	<b>5100</b>	<b>5000</b>	"	"	"	"	"	"	<b>HC-19</b>
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>94.4 %</i>	<i>78-129</i>	"	"	"	"	"	



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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4B13002 - EPA 5030B P/T**

**Blank (4B13002-BLK1)**

Prepared & Analyzed: 02/13/04

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics	ND	50	"							

*Surrogate: 1,2-Dichloroethane-d4*      4.95      "      5.00      99.0      78-129

**Laboratory Control Sample (4B13002-BS1)**

Prepared & Analyzed: 02/13/04

Ethanol	200	100	ug/l	200		100	31-143			
tert-Butyl alcohol	45.6	20	"	50.0		91.2	56-131			
Methyl tert-butyl ether	9.66	0.50	"	10.0		96.6	63-137			
Di-isopropyl ether	9.37	0.50	"	10.0		93.7	76-130			
Ethyl tert-butyl ether	10.1	0.50	"	10.0		101	81-121			
tert-Amyl methyl ether	9.87	0.50	"	10.0		98.7	82-140			
1,2-Dichloroethane	9.92	0.50	"	10.0		99.2	77-136			
1,2-Dibromoethane (EDB)	10.1	0.50	"	10.0		101	77-132			
Benzene	9.82	0.50	"	10.0		98.2	78-124			
Toluene	9.32	0.50	"	10.0		93.2	78-129			
Ethylbenzene	10.1	0.50	"	10.0		101	84-117			
Xylenes (total)	31.0	0.50	"	30.0		103	83-125			

*Surrogate: 1,2-Dichloroethane-d4*      4.76      "      5.00      95.2      78-129

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4B13002 - EPA 5030B P/T**
**Laboratory Control Sample (4B13002-BS2)**

Prepared &amp; Analyzed: 02/13/04

Methyl tert-butyl ether	8.26	0.50	ug/l	10.1		81.8	63-137			
Benzene	5.29	0.50	"	6.48		81.6	78-124			
Toluene	31.4	0.50	"	29.7		106	78-129			
Ethylbenzene	7.33	0.50	"	7.20		102	84-117			
Xylenes (total)	37.9	0.50	"	33.7		112	83-125			
Gasoline Range Organics	426	50	"	440		96.8	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.90</i>		<i>"</i>	<i>5.00</i>		<i>98.0</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (4B13002-BSD1)**

Prepared &amp; Analyzed: 02/13/04

Ethanol	289	100	ug/l	200		144	31-143	36.4	20	Q-LIM, QR-07
tert-Butyl alcohol	47.9	20	"	50.0		95.8	56-131	4.92	20	
Methyl tert-butyl ether	10.3	0.50	"	10.0		103	63-137	6.41	13	
Di-isopropyl ether	9.90	0.50	"	10.0		99.0	76-130	5.50	9	
Ethyl tert-butyl ether	10.6	0.50	"	10.0		106	81-121	4.83	9	
tert-Amyl methyl ether	10.5	0.50	"	10.0		105	82-140	6.19	12	
1,2-Dichloroethane	10.2	0.50	"	10.0		102	77-136	2.78	13	
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0		108	77-132	6.70	9	
Benzene	9.96	0.50	"	10.0		99.6	78-124	1.42	12	
Toluene	9.76	0.50	"	10.0		97.6	78-129	4.61	10	
Ethylbenzene	10.1	0.50	"	10.0		101	84-117	0.00	10	
Xylenes (total)	30.8	0.50	"	30.0		103	83-125	0.647	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.78</i>		<i>"</i>	<i>5.00</i>		<i>95.6</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (4B13002-BSD2)**

Prepared &amp; Analyzed: 02/13/04

Methyl tert-butyl ether	8.50	0.50	ug/l	10.1		84.2	63-137	2.86	13	
Benzene	5.08	0.50	"	6.48		78.4	78-124	4.05	12	
Toluene	30.2	0.50	"	29.7		102	78-129	3.90	10	
Ethylbenzene	7.41	0.50	"	7.20		103	84-117	1.09	10	
Xylenes (total)	37.2	0.50	"	33.7		110	83-125	1.86	11	
Gasoline Range Organics	419	50	"	440		95.2	70-113	1.66	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.84</i>		<i>"</i>	<i>5.00</i>		<i>96.8</i>	<i>78-129</i>			

Sequoia Analytical - Morgan Hill

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.*

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4B13050 - EPA 5030B P/T**
**Blank (4B13050-BLK1)**

Prepared: 02/13/04 Analyzed: 02/14/04

Ethanol	ND	100	ug/l							O-12
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics	ND	50	"							

*Surrogate: 1,2-Dichloroethane-d4*

4.93

"

5.00

98.6

78-129

**Laboratory Control Sample (4B13050-BS1)**

Prepared: 02/13/04 Analyzed: 02/14/04

Ethanol	226	100	ug/l	200		113	31-143			O-12
tert-Butyl alcohol	46.2	20	"	50.0		92.4	56-131			
Methyl tert-butyl ether	9.70	0.50	"	10.0		97.0	63-137			
Di-isopropyl ether	9.60	0.50	"	10.0		96.0	76-130			
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	81-121			
tert-Amyl methyl ether	9.66	0.50	"	10.0		96.6	82-140			
1,2-Dichloroethane	10.0	0.50	"	10.0		100	77-136			
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	77-132			
Benzene	9.92	0.50	"	10.0		99.2	78-124			
Toluene	9.61	0.50	"	10.0		96.1	78-129			
Ethylbenzene	10.0	0.50	"	10.0		100	84-117			
Xylenes (total)	31.2	0.50	"	30.0		104	83-125			

*Surrogate: 1,2-Dichloroethane-d4*

4.77

"

5.00

95.4

78-129



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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4B13050 - EPA 5030B P/T**

**Laboratory Control Sample (4B13050-BS2)**

Prepared: 02/13/04 Analyzed: 02/14/04

Methyl tert-butyl ether	8.42	0.50	ug/l	9.92		84.9	63-137			
Benzene	5.49	0.50	"	6.40		85.8	78-124			
Toluene	31.7	0.50	"	29.7		107	78-129			
Ethylbenzene	7.54	0.50	"	6.96		108	84-117			
Xylenes (total)	37.9	0.50	"	33.7		112	83-125			
Gasoline Range Organics	414	50	"	440		94.1	70-113			

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.96</i>		<i>"</i>	<i>5.00</i>		<i>99.2</i>	<i>78-129</i>			
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**Laboratory Control Sample Dup (4B13050-BSD1)**

Prepared: 02/13/04 Analyzed: 02/14/04

Ethanol	240	100	ug/l	200		120	31-143	6.01	20	
tert-Butyl alcohol	46.8	20	"	50.0		93.6	56-131	1.29	20	
Methyl tert-butyl ether	9.80	0.50	"	10.0		98.0	63-137	1.03	13	
Di-isopropyl ether	9.29	0.50	"	10.0		92.9	76-130	3.28	9	
Ethyl tert-butyl ether	9.93	0.50	"	10.0		99.3	81-121	2.68	9	
tert-Amyl methyl ether	10.1	0.50	"	10.0		101	82-140	4.45	12	
1,2-Dichloroethane	9.99	0.50	"	10.0		99.9	77-136	0.100	13	
1,2-Dibromoethane (EDB)	10.9	0.50	"	10.0		109	77-132	3.74	9	
Benzene	9.71	0.50	"	10.0		97.1	78-124	2.14	12	
Toluene	9.26	0.50	"	10.0		92.6	78-129	3.71	10	
Ethylbenzene	9.95	0.50	"	10.0		99.5	84-117	0.501	10	
Xylenes (total)	29.4	0.50	"	30.0		98.0	83-125	5.94	11	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.70</i>		<i>"</i>	<i>5.00</i>		<i>94.0</i>	<i>78-129</i>			
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**Laboratory Control Sample Dup (4B13050-BSD2)**

Prepared: 02/13/04 Analyzed: 02/14/04

Methyl tert-butyl ether	8.61	0.50	ug/l	9.92		86.8	63-137	2.23	13	
Benzene	5.41	0.50	"	6.40		84.5	78-124	1.47	12	
Toluene	30.8	0.50	"	29.7		104	78-129	2.88	10	
Ethylbenzene	7.32	0.50	"	6.96		105	84-117	2.96	10	
Xylenes (total)	37.2	0.50	"	33.7		110	83-125	1.86	11	
Gasoline Range Organics	383	50	"	440		87.0	70-113	7.78	9	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.01</i>		<i>"</i>	<i>5.00</i>		<i>100</i>	<i>78-129</i>			
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URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNB0147  
 Reported:  
 02/18/04 19:37

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4B17006 - EPA 5030B Modified**
**Blank (4B17006-BLK1)**

Prepared &amp; Analyzed: 02/17/04

Ethanol	ND	100	ug/l							O-12a
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.45		"	5.00		89.0	78-129			

**Laboratory Control Sample (4B17006-BS1)**

Prepared &amp; Analyzed: 02/17/04

Ethanol	211	100	ug/l	200		106	31-143			O-12a
tert-Butyl alcohol	44.2	20	"	50.0		88.4	56-131			
Methyl tert-butyl ether	10.7	0.50	"	10.0		107	63-137			
Di-isopropyl ether	11.0	0.50	"	10.0		110	76-130			
Ethyl tert-butyl ether	10.7	0.50	"	10.0		107	81-121			
tert-Amyl methyl ether	10.3	0.50	"	10.0		103	82-140			
1,2-Dichloroethane	10.3	0.50	"	10.0		103	77-136			
1,2-Dibromoethane (EDB)	9.71	0.50	"	10.0		97.1	77-132			
Benzene	9.86	0.50	"	10.0		98.6	78-124			
Toluene	9.73	0.50	"	10.0		97.3	78-129			
Ethylbenzene	9.92	0.50	"	10.0		99.2	84-117			
Xylenes (total)	30.2	0.50	"	30.0		101	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.09		"	5.00		102	78-129			

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNB0147  
 Reported:  
 02/18/04 19:37

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4B17006 - EPA 5030B Modified</b>									
<b>Laboratory Control Sample (4B17006-BS2)</b>					<b>Prepared &amp; Analyzed: 02/17/04</b>				
Methyl tert-butyl ether	9.16	0.50	ug/l	10.1		90.7 63-137			
Toluene	23.4	0.50	"	29.7		78.8 78-129			
Xylenes (total)	28.6	0.50	"	33.7		84.9 83-125			
Gasoline Range Organics	343	50	"	440		78.0 70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.16</i>		<i>"</i>	<i>5.00</i>		<i>103 78-129</i>			
<b>Laboratory Control Sample Dup (4B17006-BSD1)</b>					<b>Prepared &amp; Analyzed: 02/17/04</b>				
Ethanol	193	100	ug/l	200		96.5 31-143	8.91	20	
tert-Butyl alcohol	49.7	20	"	50.0		99.4 56-131	11.7	20	
Methyl tert-butyl ether	11.6	0.50	"	10.0		116 63-137	8.07	13	
Di-isopropyl ether	11.5	0.50	"	10.0		115 76-130	4.44	9	
Ethyl tert-butyl ether	11.4	0.50	"	10.0		114 81-121	6.33	9	
tert-Amyl methyl ether	10.7	0.50	"	10.0		107 82-140	3.81	12	
1,2-Dichloroethane	10.7	0.50	"	10.0		107 77-136	3.81	13	
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106 77-132	8.76	9	
Benzene	10.2	0.50	"	10.0		102 78-124	3.39	12	
Toluene	9.62	0.50	"	10.0		96.2 78-129	1.14	10	
Ethylbenzene	10.2	0.50	"	10.0		102 84-117	2.78	10	
Xylenes (total)	31.0	0.50	"	30.0		103 83-125	2.61	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.70</i>		<i>"</i>	<i>5.00</i>		<i>94.0 78-129</i>			
<b>Laboratory Control Sample Dup (4B17006-BSD2)</b>					<b>Prepared &amp; Analyzed: 02/17/04</b>				
Methyl tert-butyl ether	9.48	0.50	ug/l	10.1		93.9 63-137	3.43	13	
Gasoline Range Organics	449	50	"	440		102 70-113	26.8	9	QR-02
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.98</i>		<i>"</i>	<i>5.00</i>		<i>99.6 78-129</i>			

URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland CA, 94612

Project: BP Heritage #11117, Oakland, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MNB0147  
Reported:  
02/18/04 19:37

### Notes and Definitions

- HC-19 Discrete peak @ C5-C6.
- O-12 The continuing calibration verification was outside of client contractual acceptance limits by 0.6% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose.
- O-12a The continuing calibration verification was outside of client contractual acceptance limits by 16.8% low. However, it was within method acceptance limits. The data should still be useful for its intended purpose.
- Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.
- QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-07 The RPD was outside control limits. The results may still be useful for their intended purpose.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





# Chain of Custody Record

Project Name 1117 GWM  
BP BU/GEM CO Portfolio Retail

MNB0147

BP Laboratory Contract Number: Atlantic Richfield Company

Date: 2/3/04

Requested Due Date (mm/dd/yy) 14 day lat

On-site Time: <u>12:00</u>	Temp: <u>54.5</u>
Off-site Time: <u>09:00</u>	Temp: <u>51.3</u>
Sky Conditions: <u>cloudy</u>	
Meteorological Events: <u>rain</u>	
Wind Speed: <u>0</u>	Direction: <u>N</u>

Send To: Lab Name: <u>SEQUOIA</u> Lab Address: <u>885 Jarvis Dr.</u> <u>Morgan Hill, CA 95037</u>	BP/GEM Facility No.: <u>11117</u> BP/GEM Facility Address: <u>7210 BANCROFT, OAKLAND, CA</u> Site ID No. <u>11117</u> Site Lat/Long: California Global ID #: <u>T0600100201</u>	Consultant/Contractor: <u>URS</u> Address: <u>500 12th St., Ste. 200</u> <u>Oakland, CA 94609-4014</u> e-mail EDD: <u>donna.cosper@URSCorp.com</u> Consultant/Contractor Project No.: Consultant Tele/Fax: <u>510-893-3800/510-874-3288</u> Consultant/Contractor PM: <u>Leonard Niles</u> Invoice to: <u>Consultant/Contractor of BP/GEM</u> (Circle one) BP/GEM Work Release No:
Lab PM <u>Theresa Allen</u> Tele/Fax: <u>408-776-9600 / 408-782-8308</u> Report Type & QC Level: <u>1 Send EDF Reports</u> BP/GEM Account No.: <u>400-6-21124</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u> Address: <u>P.O. Box 8549</u> <u>Moraga, CA 94570</u> Tele/Fax: <u>925-289-8891/925-299-8872</u>	

017171672

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis							Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TPH-G/BTEX (8015/8021-88260)	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAMS, ETBE DEPE, TBA (8260)	1,2-DCA & EDB (8260)	Ethanol (8260)	
1	MW-1 ✓	1241		X			01	3					X			X	X	X		
2	MW-2 ✓	1318		X			02						X			X	X	X		
3	MW-3 ✓	1141		X			03						X			X	X	X		
4	MW-4 ✓	1338		X			04						X			X	X	X		
5	MW-6 ✓	1223		X			05						X			X	X	X		
6	MW-7 ✓	1203		X			06						X			X	X	X		
7	MW-8 ✓	1030		X			07						X			X	X	X		
8	MW-9 ✓	1100		X			08						X			X	X	X		
9	MW-10 ✓	1258		X			09						X			X	X	X		
10																				

Sampler's Name: <u>David Abbott</u>	Relinquished By / Affiliation: <u>David Abbott / ATS</u>	Date: <u>2/4/04</u>	Time: <u>1404</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>2/4/04</u>	Time: <u>1404</u>
Sampler's Company: <u>Blaine Tech</u>		Date: <u>2/4/04</u>	Time: <u>1708</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>2/4/04</u>	Time: <u>1700</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Custody Seals in Place Yes  No  Temperature Blank Yes  No  Cooler Temperature on Receipt 2 °F/C Trip Blank Yes  No

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP  
 REC. BY (PRINT): JV  
 WORKORDER: MUB0147

DATE REC'D AT LAB: 2/4/04  
 TIME REC'D AT LAB: 1700  
 DATE LOGGED IN: 2-5-04

DRINKING WATER for  
 regulatory purposes: YES  NO  
 WASTE WATER for  
 regulatory purposes: YES  NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent <i>Bag</i> <input checked="" type="checkbox"/> Intact / <input type="checkbox"/> Broken*			MW-1	(3) 1000	HCL	L	2/3/04	3262020
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent*			-2 -3 -4 -6 -7 -8 -9 -10	}	}	}	}	}
3. Traffic Reports or Packing List: <input type="checkbox"/> Present / <input checked="" type="checkbox"/> Absent								
4. Airbill: <input type="checkbox"/> Airbill / <input type="checkbox"/> Slicker <input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent								
5. Airbill #:								
6. Sample Labels: <input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent								
7. Sample IDs: <input checked="" type="checkbox"/> Listed / <input type="checkbox"/> Not Listed on Chain-of-Custody								
8. Sample Condition: <input checked="" type="checkbox"/> Intact / <input type="checkbox"/> Broken* / <input type="checkbox"/> Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*								
10. Sample received within hold time: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*								
11. Adequate sample volume received? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*								
12. Proper Preservatives used: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*								
13. Temp Rec. at Lab: <u>2°C</u> Is temp 4 +/- 2°C? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No** <small>(Acceptance range for samples requiring thermal pres.)</small>								
**Exception (if any): METALS / DFF ON ICE or Problem COC								

**\*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.**

**ATTACHMENT D**

**EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION**

---

## Error Summary Log

02/20/04

EDF 1.2i All files present in deliverable.

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Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage #11117, Oaklan
Work Order Number:	MNB0147
Global ID:	T0600100201
Lab Report Number:	MNB0147021820041937

## Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MNB01470218200 MW-1 41937		MNB014701	W	CS	8260TPH	SW5030B	02/03/04	02/13/04	02/14/04	4B13002	1	
MNB01470218200 MW-10 41937		MNB014709	W	CS	8260TPH	SW5030B	02/03/04	02/13/04	02/14/04	4B13050	1	
MNB01470218200 MW-2 41937		MNB014702	W	CS	8260TPH	SW5030B	02/03/04	02/13/04	02/14/04	4B13002	1	
MNB01470218200 MW-3 41937		MNB014703	W	CS	8260TPH	SW5030B	02/03/04	02/13/04	02/14/04	4B13002	1	
MNB01470218200 MW-4 41937		MNB014704	W	CS	8260TPH	SW5030B	02/03/04	02/13/04	02/14/04	4B13002	1	
MNB01470218200 MW-6 41937		MNB014705	W	CS	8260TPH	SW5030B	02/03/04	02/17/04	02/17/04	4B17006	1	
MNB01470218200 MW-7 41937		MNB014706	W	CS	8260TPH	SW5030B	02/03/04	02/13/04	02/14/04	4B13002	1	
MNB01470218200 MW-8 41937		MNB014707	W	CS	8260TPH	SW5030B	02/03/04	02/13/04	02/14/04	4B13002	1	
MNB01470218200 MW-9 41937		MNB014708	W	CS	8260TPH	SW5030B	02/03/04	02/13/04	02/14/04	4B13050	1	
		4B13002BSD1	WQ	BD1	8260TPH	SW5030B	//	02/13/04	02/13/04	4B13002	1	
		4B13002BSD2	WQ	BD2	8260TPH	SW5030B	//	02/13/04	02/13/04	4B13002	1	
		4B13002BS1	WQ	BS1	8260TPH	SW5030B	//	02/13/04	02/13/04	4B13002	1	
		4B13002BS2	WQ	BS2	8260TPH	SW5030B	//	02/13/04	02/13/04	4B13002	1	
		4B13002BLK1	WQ	LB1	8260TPH	SW5030B	//	02/13/04	02/13/04	4B13002	1	
		4B13050BSD1	WQ	BD1	8260TPH	SW5030B	//	02/13/04	02/14/04	4B13050	1	
		4B13050BSD2	WQ	BD2	8260TPH	SW5030B	//	02/13/04	02/14/04	4B13050	1	
		4B13050BS1	WQ	BS1	8260TPH	SW5030B	//	02/13/04	02/14/04	4B13050	1	
		4B13050BS2	WQ	BS2	8260TPH	SW5030B	//	02/13/04	02/14/04	4B13050	1	
		4B13050BLK1	WQ	LB1	8260TPH	SW5030B	//	02/13/04	02/14/04	4B13050	1	
		4B17006BSD1	WQ	BD1	8260TPH	SW5030B	//	02/17/04	02/17/04	4B17006	1	
		4B17006BSD2	WQ	BD2	8260TPH	SW5030B	//	02/17/04	02/17/04	4B17006	1	
		4B17006BS1	WQ	BS1	8260TPH	SW5030B	//	02/17/04	02/17/04	4B17006	1	
		4B17006BS2	WQ	BS2	8260TPH	SW5030B	//	02/17/04	02/17/04	4B17006	1	
		4B17006BLK1	WQ	LB1	8260TPH	SW5030B	//	02/17/04	02/17/04	4B17006	1	

## EDFSAMP: Error Summary Log

02/20/04

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

# EDFTEST: Error Summary Log

02/20/04

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					//	0

## EDFRES: Error Summary Log

02/20/04

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
There are no errors in this data file						//	0	



# EDFQC: Error Summary Log

02/20/04

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqid
There are no errors in this data files					

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## EDFCL: Error Summary Log

02/20/04

---

Error type	Cirevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	//				

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**Confirmation Number:** 5459545314

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**Facility Global ID:** T0600100201

**Facility Name:** BP

**Submittal Title:** First Quarter 2004 Groundwater Monitoring Report Site #11117

**Submittal Type:** GW Monitoring Report

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