

**URS**

October 6, 2004

Mr. Robert Schultz  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, CA 94502

**Re: Second Semi-Annual 2004 Groundwater Monitoring Report  
Former BP Service Station #11104  
1716 Webster Street  
Alameda, California  
URS Project #38486810**

Dear Mr. Schultz:

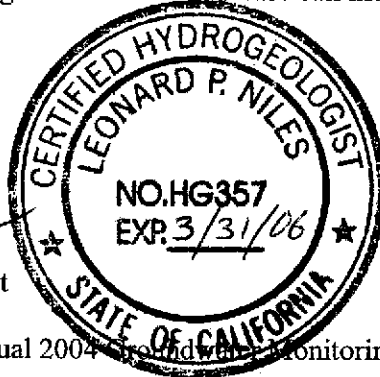
On behalf of Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the *Second Semi-Annual 2004 Groundwater Monitoring Report* for the Former BP Service Station #11104, located at 1716 Webster Street, Alameda, California.

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 / Senior Geologist



Enclosure: Second Semi-Annual 2004 Groundwater Monitoring Report

cc: Mr. Kyle Christie, Atlantic Richfield Company (RM), (electronic copy uploaded to ENFOS)  
Ms. Liz Sewell, ConocoPhillips, (electronic copy uploaded to FTP server)

**R E P O R T**

**SECOND SEMI-ANNUAL 2004  
GROUNDWATER MONITORING**

**FORMER BP SERVICE STATION #11104  
1716 WEBSTER STREET  
ALAMEDA, CALIFORNIA**

*Prepared for*  
RM

October 6, 2004

**URS**

URS Corporation  
1333 Broadway, Suite 800  
Oakland, California 94612

38486810

Date: October 6, 2004  
Quarter: 3Q 04

### RM SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility No.: 11104 Address: 1716 Webster Street, Alameda, California  
RM Environmental Business Manager: Kyle Christie  
Consulting Co./Contact Person: URS Corporation / Leonard Niles  
Consultant Project No.: 38486810  
Primary Agency: Alameda County Environmental Health (ACEH)

#### WORK PERFORMED THIS PERIOD (Third – 2004):

1. Performed second semi-annual groundwater monitoring event on August 12, 2004.
2. Prepared and submitted second 2004 semi-annual groundwater monitoring report.

#### WORK PROPOSED FOR NEXT PERIOD (Fourth – 2004):

1. Prepare and submit fourth quarter 2004 site status report.

Current Phase of Project: GW monitoring/sampling  
Frequency of Groundwater Sampling: Wells MW-1 and RW-1 semiannually (1<sup>st</sup> & 3<sup>rd</sup> Quarters);  
Wells MW-2 through MW-5 annually (1<sup>st</sup> Quarter).  
Frequency of Groundwater Monitoring: Semi-annual  
Is Free Product (FP) Present On-Site: No  
Current Remediation Techniques: None  
Approximate Depth to Groundwater: 4.91 (MW-5) to 6.22 (MW-3) feet  
Groundwater Gradient (direction): North-Northwest  
Groundwater Gradient (magnitude): 0.004 feet per foot

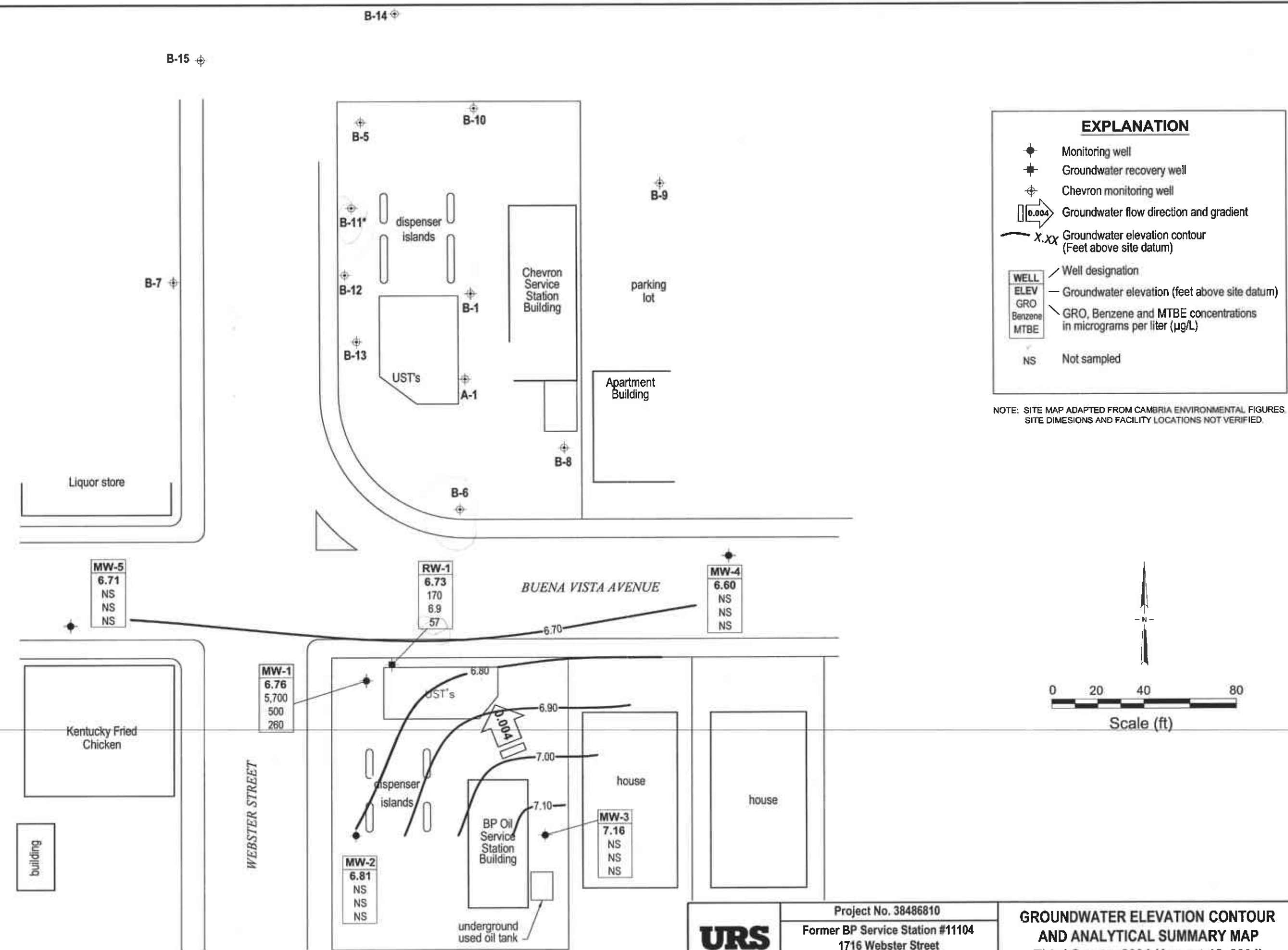
#### DISCUSSION:

Gasoline Range Organics (GRO) were detected above laboratory reporting limits in both of the two wells sampled this quarter at concentrations of 170 µg/L (RW-1) and 5,700 µg/L (MW-1). Benzene was detected above laboratory reporting limits in both wells at concentrations of 6.9 µg/L (RW-1) and 500 µg/L (MW-1). MTBE was detected above laboratory reporting limits in both wells at concentrations of 57 µg/L (RW-1) and 260 µg/L (MW-1). TBA and TAME were both detected above laboratory reporting limits in both wells this sampling event. TBA was detected above laboratory reporting limits at concentrations of 500 µg/L (RW-1) and 730 µg/L (MW-1). TAME was detected above laboratory reporting limits at concentrations of 1.0 µg/L (RW-1) and 9.3 µg/L (MW-1). Joint monitoring data from the adjacent Chevron site was not received in time to incorporate into this report.

**ATTACHMENTS:**

- **Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – August 12, 2004.**
- **Table 1 – Groundwater Elevation and Analytical Data**
- **Table 2 – Fuel Oxygenate Analytical Data**
- **Attachment A – Concentration and Water Level Trends (MW-1 and RW-1)**
- **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**

krshurt0 Oct 06, 2004 - 11:49am  
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<b>URS</b>	Project No. 38486810	<b>GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP</b> Third Quarter 2004 (August 12, 2004)	FIGURE <b>1</b>
	Former BP Service Station #11104 1716 Webster Street Alameda, California		

Table 1

## Groundwater Elevation and Analytical Data

Former BP Station #11104  
1716 Webster St., Alameda, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
MW-1	7/21/1992	--	11.98	5.91	--	6.07	34,000	7,000	1,700	2,500	6,900	--	--	--	--	
	10/20/1992	--	11.98	6.66	--	5.32	--	--	--	--	--	--	--	--	--	
	3/5/1993	--	11.98	4.56	--	7.42	--	--	--	--	--	--	--	--	--	
	4/1/1993	--	11.98	4.57	--	7.41	--	--	--	--	--	--	--	--	--	
	7/9/1993	--	11.98	--	--	--	79,000	16,000	1,500	2,200	7,700	12,952	--	PACE	--	c,d,k
	7/9/1993	--	11.98	5.25	--	6.73	77,000	15,000	1,400	2,100	7,400	11,919	--	PACE	--	c,k
	10/8/1993	--	11.98	6.01	--	5.97	42,000	7,100	270	2,700	4,700	--	--	PACE	--	k
	1/6/1994	--	11.98	6.24	--	5.74	45,000	12,000	4,300	3,000	6,700	--	--	PACE	--	k
	4/26/1994	--	11.98	5.26	--	6.72	39,000	6,500	500	1,800	1,200	16,663	6.3	PACE	--	c,k
	7/25/1994	--	11.98	5.60	--	6.38	38,000	6,300	240	1,500	1,100	28,428	1.7	PACE	--	c,k
	10/13/1994	--	11.98	--	--	--	25,000	7,300	120	1,200	740	--	--	PACE	--	k
	10/13/1994	--	11.98	6.15	--	5.83	25,000	6,300	130	1,300	830	--	2.3	PACE	--	k
	1/17/1995	--	11.98	--	--	--	8,400	3,100	1,200	470	1,000	--	--	ATI	--	
	1/17/1995	--	11.98	4.19	--	7.79	7,800	3,100	1,100	460	850	--	7.9	ATI	--	d
	3/31/1995	--	11.98	--	--	--	40,000	6,900	7,300	1,300	5,000	--	--	ATI	--	
	3/31/1995	--	11.98	4.48	--	7.50	37,000	6,700	6,900	1,200	4,500	--	6.4	ATI	--	d
	5/1/1995	--	11.98	4.39	--	7.59	--	--	--	--	--	--	--	--	--	d
	7/12/1995	--	11.98	--	--	--	29,000	6,600	380	1,500	3,900	--	--	ATI	--	
	7/12/1995	--	11.98	5.02	--	6.96	29,000	7,000	300	1,500	3,900	--	7.2	ATI	--	
	10/12/1995	--	11.98	--	--	--	20,000	3,500	310	1,100	3,000	14,000	--	ATI	--	
	10/12/1995	--	11.98	5.68	--	6.30	20,000	3,400	310	1,100	3,000	15,000	6.3	ATI	--	d
	2/27/1996	--	11.98	4.18	--	7.80	18,000	4,400	2,900	860	2,380	5,500	7.9	SPL	--	
	5/8/1996	--	11.98	4.89	--	7.09	--	--	--	--	--	--	--	--	--	
	5/9/1996	--	11.98	--	--	--	14,000	2,300	1,900	540	3,340	2,700	6.1	SPL	--	
	8/9/1996	--	11.98	5.13	--	6.85	--	--	--	--	--	--	--	--	--	
	8/12/1996	--	11.98	--	--	--	13,000	2,800	190	1,300	3,040	1,800	7.1	SPL	--	
	11/7/1996	--	11.98	5.65	--	6.33	12,000	2,100	35	<25	<25	2,100	7.2	SPL	--	
	2/10/1997	--	11.98	--	--	--	180,000	2,100	<500	<500	<500	160,000	--	SPL	--	d
	2/10/1997	--	11.98	4.80	--	7.18	180,000	1,900	<500	<500	<500	160,000	6.8	SPL	--	
	8/4/1997	--	11.98	--	--	--	<25000	2,600	<50	1,200	1,100	260,000	--	SPL	--	d
	8/4/1997	--	11.98	5.69	--	6.29	14,000	2,700	<50	1,200	1,220	250,000	7.2	SPL	--	
	1/27/1998	--	11.98	3.96	--	8.02	390,000	4,400	4,300	1,600	2,890	490,000	6.4	SPL	--	
	9/2/1998	--	11.98	5.03	--	6.95	230,000	3,900	<50	1,900	1,000	230,000	6.3	SPL	--	
	2/24/1999	--	11.98	4.94	--	7.04	82,000	3,000	520	2,600	3,200	190000/200000	--	SPL	--	k

Table 1

## Groundwater Elevation and Analytical Data

Former BP Station #11104  
1716 Webster St., Alameda, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments	
MW-1	8/30/1999	--	11.98	6.31	--	5.67	11,000	2,100	<25	1,800	580	48,000	--	SPL	--		
	2/21/2000	--	11.98	4.47	--	7.51	12,000	1,200	250	930	1,800	31,000	--	PACE	--		
	8/8/2000	--	11.98	5.59	--	6.39	4,500	160	2.8	76	88	60,000	--	PACE	--		
	2/12/2001	--	11.98	6.04	--	5.94	14,000	363	<12.5	108	293	18,000	--	PACE	--		
	8/13/2001	--	11.98	6.44	--	5.54	14,000	161	17.1	255	545	5,590	--	PACE	--		
	2/4/2002	--	11.98	4.49	--	7.49	17,000	176	57.9	538	1,670	2,470	--	PACE	--		
	8/29/2002	--	11.98	5.22	--	6.76	4,800	180	43	130	540	3,100	--	SEQ	--	*	
	2/5/2003	--	11.98	5.43	--	6.55	770	29	9.8	4.2	47	590 m,n	--	SEQ	--		
	8/14/2003	--	11.98	6.34	--	5.64	5,400	210	<50	90	200	4,500	--	SEQ	--	p	
	02/12/2004	P	11.98	4.55	--	7.43	2,600	140	20	87	170	1,200	--	SEQM	6.8		
	08/12/2004	P	11.98	5.22	--	6.76	5,700	500	12	41	1,400	260	--	SEQM	6.3		
	MW-2	7/21/1992	--	12.98	6.44	--	6.54	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
10/20/1992		--	12.98	7.39	--	5.59	--	--	--	--	--	--	--	--	--		
3/5/1993		--	12.98	4.91	--	8.07	--	--	--	--	--	--	--	--	--		
4/1/1993		--	12.98	4.92	--	8.06	--	--	--	--	--	--	--	--	--		
7/9/1993		--	12.98	5.60	--	7.38	<50	<0.5	<0.5	<0.5	<0.5	k	--	PACE	--		
10/8/1993		--	12.98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	k	--	PACE	--	d	
10/8/1993		--	12.98	6.50	--	6.48	<50	<0.5	<0.5	<0.5	<0.5	k	--	PACE	--		
1/6/1994		--	12.98	6.25	--	6.73	<50	<0.5	<0.5	<0.5	<0.5	k	--	PACE	--		
4/26/1994		--	12.98	5.73	--	7.25	<50	<0.5	<0.5	<0.5	<0.5	<5.0 k	7.5	PACE	--		
7/25/1994		--	12.98	6.07	--	6.91	<50	<0.5	<0.5	<0.5	<0.5	11.59 k	2.4	PACE	--		
10/13/1994		--	12.98	6.80	--	6.18	<50	<0.5	<0.5	<0.5	<0.5	k	2.4	PACE	--		
1/17/1995		--	12.98	5.10	--	7.88	--	--	--	--	--	--	--	--	--	--	
3/31/1995		--	12.98	4.69	--	8.29	<50	<0.50	<0.50	<0.50	<1.0	--	7.3	ATI	--		
5/1/1995		--	12.98	5.23	--	7.75	--	--	--	--	--	--	--	--	--	--	
7/12/1995		--	12.98	5.40	--	7.58	--	--	--	--	--	--	--	--	--	--	
10/12/1995		--	12.98	6.06	--	6.92	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.9	ATI	--		
2/27/1996		--	12.98	4.66	--	8.32	<50	<0.5	<1	<1	<1	<10	8.7	SPL	--		
5/8/1996	--	12.98	5.28	--	7.70	--	--	--	--	--	--	--	--	--	--		
8/9/1996	--	12.98	5.59	--	7.39	<50	<0.5	<1.0	<1.0	<1.0	<10	7.8	SPL	--			
11/7/1996	--	12.98	6.11	--	6.87	--	--	--	--	--	--	--	--	--	--		
2/10/1997	--	12.98	5.26	--	7.72	--	--	--	--	--	--	--	--	--	--		
8/4/1997	--	12.98	6.14	--	6.84	<50	<0.5	<1.0	<1.0	<1.0	<10	6.5	SPL	--			

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Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments	
MW-2	1/27/1998	--	12.98	4.42	--	8.56	--	--	--	--	--	--	--	--	--		
	9/2/1998	--	12.98	5.47	--	7.51	100	0.56	3.6	<1.0	3	110	6.9	SPL	--		
	2/24/1999	--	12.98	5.12	--	7.86	<50	<1.0	<1.0	<1.0	<1.0	8.2	--	SPL	--		
	8/30/1999	--	12.98	6.60	--	6.38	--	--	--	--	--	--	--	--	--		
	2/21/2000	--	12.98	4.64	--	8.34	<50	<0.5	<0.5	<0.5	<0.5	0.72	--	PACE	--		
	2/12/2001	--	12.98	5.13	--	7.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--		
	2/4/2002	--	12.98	5.63	--	7.35	<50	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	--	PACE	--	
	8/29/2002	--	12.98	5.79	--	7.19	--	--	--	--	--	--	--	--	--	--	*
	2/5/2003	--	12.98	5.61	--	7.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	SEQ	--	n	
	8/14/2003	--	12.98	--	--	--	--	--	--	--	--	--	--	--	--	--	o
02/12/2004	P	12.98	5.19	--	7.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.4			
08/12/2004	--	12.98	6.17	--	6.81	--	--	--	--	--	--	--	--	--	--		
MW-3	7/21/1992	--	13.38	7.07	--	6.31	<50	0.95	<0.5	<0.5	<0.5	--	--	--	--	e	
	10/20/1992	--	13.38	8.06	--	5.32	--	--	--	--	--	--	--	--	--		
	3/5/1993	--	13.38	5.16	--	8.22	--	--	--	--	--	--	--	--	--		
	4/1/1993	--	13.38	5.25	--	8.13	--	--	--	--	--	--	--	--	--		
	7/9/1993	--	13.38	5.80	--	7.58	<50	0.6	<0.5	<0.5	<0.5	--	--	PACE	--	k	
	10/8/1993	--	13.38	7.17	--	6.21	<50	0.6	<0.5	<0.5	<0.5	--	--	PACE	--	k	
	1/6/1994	--	13.38	6.94	--	6.44	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	k	
	4/26/1994	--	13.38	6.18	--	7.20	<50	<0.5	<0.5	<0.5	<0.5	<5.0	3.1	PACE	--	k	
	7/25/1994	--	13.38	6.67	--	6.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.2	PACE	--	k	
	10/13/1994	--	13.38	7.43	--	5.95	<50	<0.5	<0.5	<0.5	<0.5	--	2.1	PACE	--	k	
	1/17/1995	--	13.38	5.07	--	8.31	--	--	--	--	--	--	--	--	--	--	
	3/31/1995	--	13.38	4.03	--	9.35	<50	<0.50	<0.50	<0.50	<1.0	--	6.6	ATI	--		
	5/1/1995	--	13.38	4.94	--	8.44	--	--	--	--	--	--	--	--	--	--	
	7/12/1995	--	13.38	5.80	--	7.58	--	--	--	--	--	--	--	--	--	--	
	10/12/1995	--	13.38	6.64	--	6.74	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	ATI	--		
2/27/1996	--	13.38	4.75	--	8.63	<50	<0.5	<1	<1	<1	<10	8.5	SPL	--			
5/8/1996	--	13.38	5.86	--	7.52	--	--	--	--	--	--	--	--	--	--		
8/9/1996	--	13.38	5.70	--	7.68	<50	<0.5	<1.0	<1.0	<1.0	<10	7.9	SPL	--			
11/7/1996	--	13.38	6.21	--	7.17	--	--	--	--	--	--	--	--	--	--		
2/10/1997	--	13.38	5.14	--	8.24	--	--	--	--	--	--	--	--	--	--		
8/4/1997	--	13.38	6.01	--	7.37	<50	<0.5	<1.0	<1.0	<1.0	<10	6.6	SPL	--			



Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11104  
1716 Webster St., Alameda, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments	
MW-3	1/27/1998	--	13.38	4.30	--	9.08	--	--	--	--	--	--	--	--	--		
	9/2/1998	--	13.38	5.80	--	7.58	<50	<0.5	2.2	<1.0	<1.0	<10	6.6	SPL	--		
	2/24/1999	--	13.38	4.34	--	9.04	<50	<1.0	<1.0	<1.0	<1.0	<1.0	--	SPL	--		
	8/30/1999	--	13.38	6.59	--	6.79	--	--	--	--	--	--	--	--	--		
	2/21/2000	--	13.38	4.56	--	8.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	PACE	--		
	2/12/2001	--	13.38	4.98	--	8.40	--	--	--	--	--	--	--	--	--	--	j
	2/4/2002	--	13.38	6.11	--	7.27	--	--	--	--	--	--	--	--	--	--	j
	8/29/2002	--	13.38	6.22	--	7.16	--	--	--	--	--	--	--	--	--	--	*j
	2/5/2003	--	13.38	--	--	--	--	--	--	--	--	--	--	--	--	--	f
	8/14/2003	--	13.38	--	--	--	--	--	--	--	--	--	--	--	--	--	o
	02/12/2004	P		13.38	4.94	--	8.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.0	
	08/12/2004	--		13.38	6.22	--	7.16	--	--	--	--	--	--	--	--	--	
	MW-4	3/5/1993	--	11.8	4.81	--	6.99	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
4/1/1993		--	11.8	4.80	--	7.00	--	--	--	--	--	--	--	--	--		
7/9/1993		--	11.8	5.54	--	6.26	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	k	
10/8/1993		--	11.8	6.28	--	5.52	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	k	
1/6/1994		--	11.8	5.82	--	5.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	k	
4/26/1994		--	11.8	5.50	--	6.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	7.4	PACE	--	k	
7/25/1994		--	11.8	5.83	--	5.97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	7.2	PACE	--	k	
10/13/1994		--	11.8	6.26	--	5.54	<50	<0.5	<0.5	<0.5	<0.5	--	6.7	PACE	--	k	
1/17/1995		--	11.8	4.19	--	7.61	--	--	--	--	--	--	--	--	--	--	
3/31/1995		--	11.8	3.96	--	7.84	<50	<0.50	<0.50	<0.50	<1.0	--	7.1	ATI	--		
5/1/1995		--	11.8	4.49	--	7.31	--	--	--	--	--	--	--	--	--	--	
7/12/1995		--	11.8	5.16	--	6.64	--	--	--	--	--	--	--	--	--	--	
10/12/1995		--	11.8	5.80	--	6.00	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.9	ATI	--		
2/27/1996		--	11.8	4.22	--	7.58	<50	<0.5	<1	<1	<1	<10	8.9	SPL	--		
5/8/1996		--	11.8	5.00	--	6.80	--	--	--	--	--	--	--	--	--	--	
8/9/1996		--	11.8	5.13	--	6.67	<50	<0.5	<1.0	<1.0	<1.0	<10	8.5	SPL	--		
11/7/1996		--	11.8	5.65	--	6.15	--	--	--	--	--	--	--	--	--	--	
2/10/1997	--	11.8	4.81	--	6.99	--	--	--	--	--	--	--	--	--	--		
8/4/1997	--	11.8	5.72	--	6.08	<50	<0.5	<1.0	<1.0	<1.0	<10	6.4	SPL	--			
1/27/1998	--	11.8	4.06	--	7.74	--	--	--	--	--	--	--	--	--	--		
9/2/1998	--	11.8	4.89	--	6.91	<50	<0.5	<1.0	<1.0	<1.0	<10	5.8	SPL	--			

Table 1

## Groundwater Elevation and Analytical Data

Former BP Station #11104  
1716 Webster St., Alameda, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments	
MW-4	2/24/1999	--	11.8	3.89	--	7.91	<50	<1.0	<1.0	<1.0	<1.0	<1.0	--	SPL	--		
	8/30/1999	--	11.8	5.62	--	6.18	--	--	--	--	--	--	--	--	--		
	2/21/2000	--	11.8	4.00	--	7.80	<50	<0.5	<0.5	<0.5	<0.5	0.66	--	PACE	--		
	2/12/2001	--	11.8	4.93	--	6.87	<50	<0.5	<0.5	<0.5	<0.5	0.982	--	PACE	--		
	2/4/2002	--	11.8	4.49	--	7.31	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	PACE	--		
	8/29/2002	--	11.8	5.38	--	6.42	--	--	--	--	--	--	--	--	--	--	*
	2/5/2003	--	11.8	4.50	--	7.30	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	SEQ	--	n	
	8/14/2003	--	11.8	--	--	--	--	--	--	--	--	--	--	--	--	--	o
	02/12/2004	P	11.80	4.41	--	7.39	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.3		
	08/12/2004	--	11.80	5.20	--	6.60	--	--	--	--	--	--	--	--	--	--	
MW-5	4/1/1993	--	11.62	4.77	--	6.85	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
	7/9/1993	--	11.62	5.40	--	6.22	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	k	
	10/8/1993	--	11.62	5.87	--	5.75	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	k	
	1/6/1994	--	11.62	5.75	--	5.87	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	k	
	4/26/1994	--	11.62	5.49	--	6.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0	7.1	PACE	--	k	
	7/25/1994	--	11.62	5.69	--	5.93	<50	<0.5	<0.5	<0.5	<0.5	<5.0	6.6	PACE	--	k	
	10/13/1994	--	11.62	6.03	--	5.59	<50	<0.5	<0.5	<0.5	<0.5	--	3	PACE	--	k	
	1/17/1995	--	11.62	4.74	--	6.88	--	--	--	--	--	--	--	--	--	--	
	3/31/1995	--	11.62	4.58	--	7.04	<50	<0.50	<0.50	<0.50	<1.0	--	7.1	ATI	--		
	5/1/1995	--	11.62	4.79	--	6.83	--	--	--	--	--	--	--	--	--	--	
	7/12/1995	--	11.62	5.32	--	6.30	--	--	--	--	--	--	--	--	--	--	
	10/12/1995	--	11.62	5.70	--	5.92	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.7	ATI	--		
	2/27/1996	--	11.62	--	--	--	--	--	--	--	--	--	--	--	--	--	f
	5/8/1996	--	11.62	4.91	--	6.71	--	--	--	--	--	--	--	--	--	--	
	8/9/1996	--	11.62	5.01	--	6.61	<50	<0.5	<1.0	<1.0	<1.0	<10	7.7	SPL	--		
	11/7/1996	--	11.62	5.54	--	6.08	--	--	--	--	--	--	--	--	--	--	
	2/10/1997	--	11.62	4.66	--	6.96	--	--	--	--	--	--	--	--	--	--	
	8/4/1997	--	11.62	5.51	--	6.11	<50	<0.5	<1.0	<1.0	<1.0	<10	6.9	SPL	--		
	1/27/1998	--	11.62	4.01	--	7.61	--	--	--	--	--	--	--	--	--	--	
	9/2/1998	--	11.62	5.17	--	6.45	<50	<0.5	<1.0	<1.0	<1.0	<10	6.4	SPL	--		
2/24/1999	--	11.62	4.52	--	7.10	<50	<1.0	<1.0	<1.0	<1.0	<1.0	--	SPL	--			
8/30/1999	--	11.62	6.02	--	5.60	--	--	--	--	--	--	--	--	--	--		
2/21/2000	--	11.62	4.62	--	7.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--		

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11104  
1716 Webster St., Alameda, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments	
MW-5	2/12/2001	--	11.62	4.80	--	6.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--		
	2/4/2002	--	11.62	4.63	--	6.99	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	PACE	--		
	8/29/2002	--	11.62	5.15	--	6.47	--	--	--	--	--	--	--	--	--		
	2/5/2003	--	11.62	4.36	--	7.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	SEQ	--		
	8/14/2003	--	11.62	--	--	--	--	--	--	--	--	--	--	--	--	o	
	02/12/2004	--	11.62	--	--	--	--	--	--	--	--	--	--	--	--	Well inaccessible	
	08/12/2004	--	11.62	4.91	--	6.71	--	--	--	--	--	--	--	--	--		
QC-2	7/9/1993	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	g,k	
	10/8/1993	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	g,k	
	1/6/1994	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	g,k	
	4/26/1994	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	g,k	
	7/25/1994	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	g,k	
	10/13/1994	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	g,k	
	1/17/1995	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1	<5.0	--	ATI	--	g	
	3/31/1995	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	g	
	7/12/1995	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	g	
	10/12/1995	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	g	
	2/27/1996	--	--	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	g	
	5/9/1996	--	--	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	g	
RW-1	1/6/1994	--	11.84	--	--	--	24,000	3,700	210	830	2,000	4,562	--	PACE	--	c,d,k	
	1/6/1994	--	11.84	5.59	--	6.25	23,000	3,800	210	840	2,100	4,663	--	PACE	--	c,k	
	4/26/1994	--	11.84	--	--	--	22,000	3,300	110	700	1,700	6,909	--	PACE	--	c,d,k	
	4/26/1994	--	11.84	5.21	--	6.63	24,000	3,500	120	800	1,700	8,145	6.4	PACE	--	c,k	
	7/25/1994	--	11.84	--	--	--	28,000	4,400	240	960	1,400	20,608	--	PACE	--	c,d,k	
	7/25/1994	--	11.84	5.52	--	6.32	31,000	4,800	290	1,100	1,700	<5.0	5.5	PACE	--	c,k	
	10/13/1994	--	11.84	6.05	--	5.79	20,000	4,200	46	990	440	--	6.8	PACE	--	k	
	1/17/1995	--	11.84	4.02	--	7.82	9,600	1,500	65	300	2,700	--	7.7	ATI	--		
	3/31/1995	--	11.84	3.81	--	8.03	16,000	1,500	780	370	2,000	--	7.8	ATI	--		
	5/1/1995	--	11.84	4.21	--	7.63	--	--	--	--	--	--	--	--	--	--	
	7/12/1995	--	11.84	4.93	--	6.91	22,000	3,700	150	950	2,800	--	7.2	ATI	--		
	10/12/1995	--	11.84	5.46	--	6.38	30,000	1,600	1,500	1,700	8,500	4,300	7	ATI	--		
	2/27/1996	--	11.84	--	--	--	1,600	30	23	38	420	50	--	SPL	--	d	

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Station #11104  
1716 Webster St., Alameda, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
RW-1	2/27/1996	--	11.84	4.00	--	7.84	1,800	30	24	41	440	52	7.7	SPL	--	
	5/8/1996	--	11.84	4.65	--	7.19	--	--	--	--	--	--	--	---	--	
	5/9/1996	--	11.84	--	--	--	2,900	15	15	78	700	<50	--	SPL	--	d
	5/9/1996	--	11.84	--	--	--	3,200	19	19	97	800	<50	7.1	SPL	--	
	8/9/1996	--	11.84	4.96	--	6.88	--	--	--	--	--	--	--	---	--	
	8/12/1996	--	11.84	--	--	--	6,900	210	270	390	1,920	<100	7.9	SPL	--	
	8/12/1996	--	11.84	--	--	--	8,200	270	330	450	2,330	<100	--	SPL	--	d
	11/7/1996	--	11.84	--	--	--	6,800	360	45	<10	<10	500	--	SPL	--	d
	11/7/1996	--	11.84	5.50	--	6.34	6,100	320	45	<10	<10	430	6.9	SPL	--	
	2/10/1997	--	11.84	3.85	--	7.99	170,000	<120	<250	<250	<250	150,000	6.7	SPL	--	
	8/4/1997	--	11.84	4.72	--	7.12	<25000	580	450	630	3,700	230,000	6.9	SPL	--	
	1/27/1998	--	11.84	--	--	--	51,000	380	300	480	2,980	36,000	--	SPL	--	
	1/27/1998	--	11.84	3.80	--	8.04	52,000	380	330	490	2,970	38,000	6.1	SPL	--	d
	9/2/1998	--	11.84	--	--	--	280,000	2,400	<50	1,400	3,170	270,000	--	SPL	--	
	9/2/1998	--	11.84	4.91	--	6.93	260,000	2,500	56	1,400	3,070	250,000	6.6	SPL	--	d
	2/24/1999	--	11.84	4.16	--	7.68	120	<1.0	<1.0	1.5	13	130/140	--	SPL	--	h
	8/30/1999	--	11.84	5.52	--	6.32	3,100	320	<25	120	28	60,000	--	SPL	--	
	2/21/2000	--	11.84	3.68	--	8.16	340 i	8.6	1.8	11	66	2,500	--	PACE	--	
	8/8/2000	--	11.84	4.85	--	6.99	1,600	3.2	<0.5	0.82	1.2	19,000	--	PACE	--	
	2/12/2001	--	11.84	4.26	--	7.58	1,500	1.33	<0.5	<0.5	5.69	2,420	--	PACE	--	
	8/13/2001	--	11.84	5.34	--	6.50	290	<0.5	<0.5	<0.5	<1.5	314	--	PACE	--	
	2/4/2002	--	11.84	4.08	--	7.76	570	9.15	0.874	19.2	83.8	97.4	--	PACE	--	
	8/29/2002	--	11.84	5.12	--	6.72	<50	0.59	<0.50	<0.50	<0.50	19	--	SEQ	--	*
	2/5/2003	--	11.84	5.21	--	6.63	<50	<0.50	<0.50	0.68	1.7	18	--	SEQ	--	n
	8/14/2003	--	11.84	5.07	--	6.77	<500	<5.0	<5.0	<5.0	5.4	490	--	SEQ	--	p
	02/12/2004	P	11.84	4.19	--	7.65	120	1.6	<1.0	3.0	4.1	51	--	SEQM	5.9	
	08/12/2004	P	11.84	5.11	--	6.73	170	6.9	<0.50	4.5	10	57	--	SEQM	6.0	

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Station #11104**  
**1716 Webster St., Alameda, CA**

Abbreviations:

GRO = Gasoline Range Organics, range C4-C12  
TPH-g = Total petroleum hydrocarbons as gasoline  
MTBE = Methyl tert butyl ether  
DO= Dissolved oxygen  
ug/L = Micrograms per liter  
mg/L = Milligrams per liter  
--- = Not applicable/available/analyzed/measured  
< = Not detected at or above reported detection limit  
PACE = Pace Analytical Services, Inc.  
ATI= Analytical Technologies, Inc.  
SPL= Southern Petroleum Laboratories  
SEQ= Sequoia Analytical  
TOC = Top of Casing measured in feet above mean sea level  
DTW = Depth to Water measured in feet below ground surface  
GWE= Groundwater Elevation measured in feet above mean sea level

Notes:

- (a) Top of casing elevations surveyed in reference to USGS benchmark (14.108 feet above mean sea level) at northwest corner of Webster Street and Pacific Avenue.
- (b) Groundwater elevations in feet above mean sea level.
- (c) A copy of the documentation for this data is included in Appendix C of Alisto report 10-155-07-001
- (d) Blind duplicate.
- (e) Sample also analyzed for cadmium, nickel, chromium, lead, and zinc. None were detected above the reported detection limit.
- (f) Well inaccessible.
- (g) Travel blank.
- (h) MTBE by EPA Methods 8020/8260.
- (i) Gasoline does not include MTBE.
- (j) Unable to sample.
- (k) A copy of the documentation for this data can be found in Baline Tech Services report 010813-N-2. No chromatograms could be located for MTBE data from wells MW-2, MW-3, MW-4, MW-5, and QC-2, sampled on July 9, 1993; all wells sampled on October 8, 1993; wells MW-1, MW-2, and MW-3, sampled on January 6, 1994; and all wells sampled on October 13, 1994.
- (l) Chromatogram Pattern: Gasoline C6-C10
- (m) The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- (n) The closing calibration was outside acceptance limits by 1% high. This should be considered in evaluating the result. The avg. % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
- (o) The original scope of work only called for annual gauging of well. This issue has been addressed, and in the future, gauging of this well will be semi-annual (1st and 3rd quarter).
- (p) Groundwater samples analyzed by EPA Method 8260B for TPH-g/BTEX and MTBE.
- (q) Beginning in the Fourth Quarter 2003, 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 resulting in a higher concentration being reported.

\* During the second quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP.

Source : The data within this table collected prior to June 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

**Table 2**

**Fuel Additives Analytical Data**  
**Former BP Station #11104**  
**1716 Webster St., Alameda, 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)	Comments
MW-1	8/14/2003	<10,000 a	<2,000	4,500	<50	<50	89	<50	<50	
	02/12/2004	<2,000	960	1,200	<10	<10	33	<10	<10	
	08/12/2004	<1,000	730	260	<5.0	<5.0	9.3	<5.0	<5.0	
MW-2	8/14/2003	NS	NS	--	NS	NS	NS	NS	NS	
	02/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3	8/14/2003	NS	NS	--	NS	NS	NS	NS	NS	
	02/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4	8/14/2003	NS	NS	--	NS	NS	NS	NS	NS	
	02/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5	8/14/2003	NS	NS	--	NS	NS	NS	NS	NS	
RW-1	8/14/2003	<1,000 a	<200	490	<5.0	<5.0	11	<5.0	<5.0	
	02/12/2004	<200	83	51	<1.0	<1.0	1.2	<1.0	<1.0	
	08/12/2004	<100	500	57	<0.50	<0.50	1.0	<0.50	<0.50	

## Table 2

### Fuel Additives Analytical Data

Former BP Station #11104  
1716 Webster St., Alameda, CA

#### Abbreviations:

TBA = tert-Butyl alcohol

MTBE = Methyl tert-Butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tert Butyl ether

TAME = tert-Amyl Methyl ether

1,2-DCA = 1,2-Dibromoethane

EDB = 1,2-Dichloroethane

ug/L = Micrograms per liter

< = Not detected at or above specified laboratory method detection limit

NS = Not Sampled

#### Notes:

(a) The continuing calibration was outside of client contractual acceptance limits by 3.4% low. However, it was within the method acceptance limit. The data should still be useful for its intended purpose.

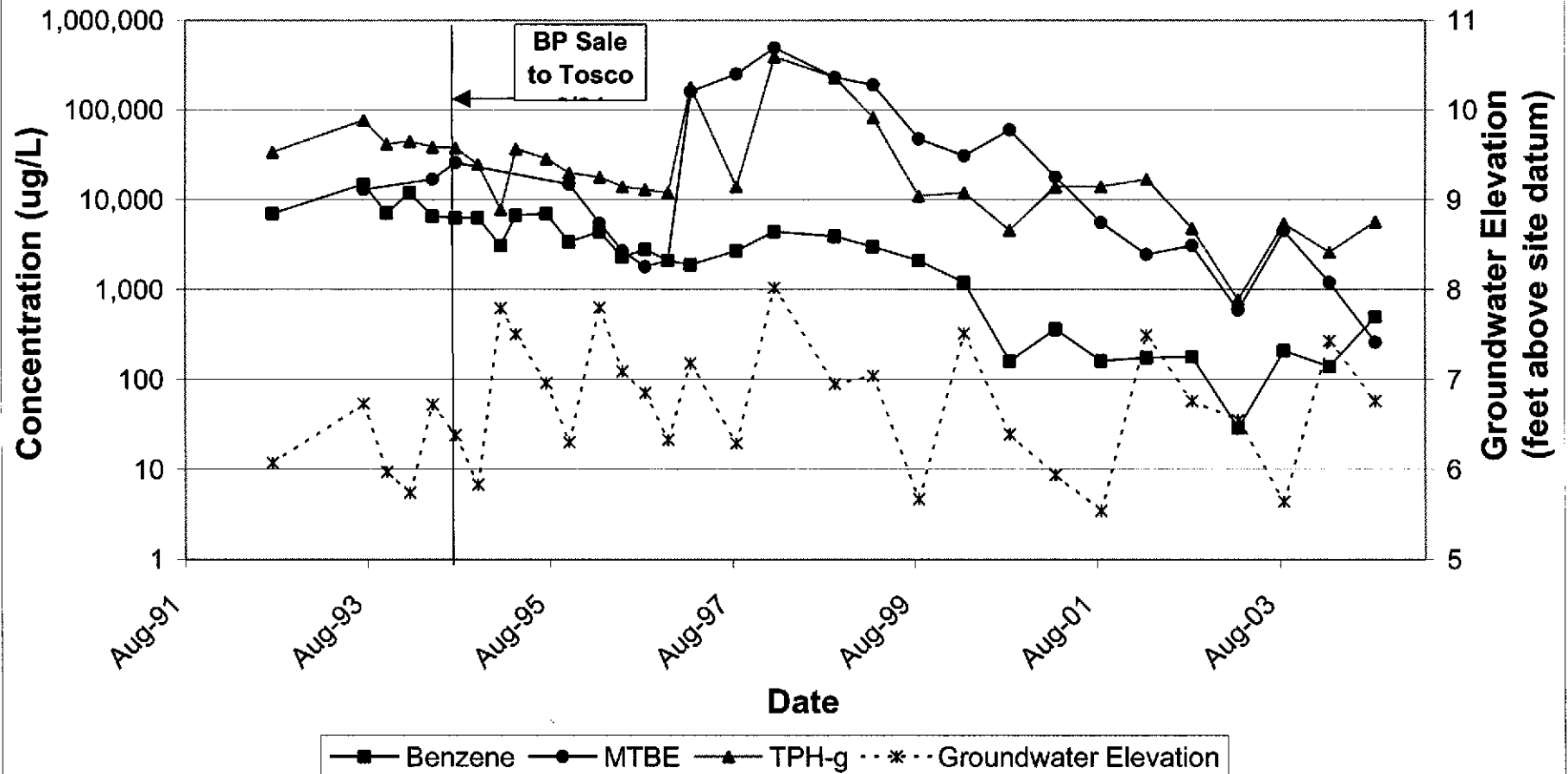
1. All fuel oxygenate compounds analyzed using EPA Method 8260B.

**ATTACHMENT A**

**CONCENTRATION AND WATER LEVEL TRENDS**  
**(MW-1 & RW-1)**

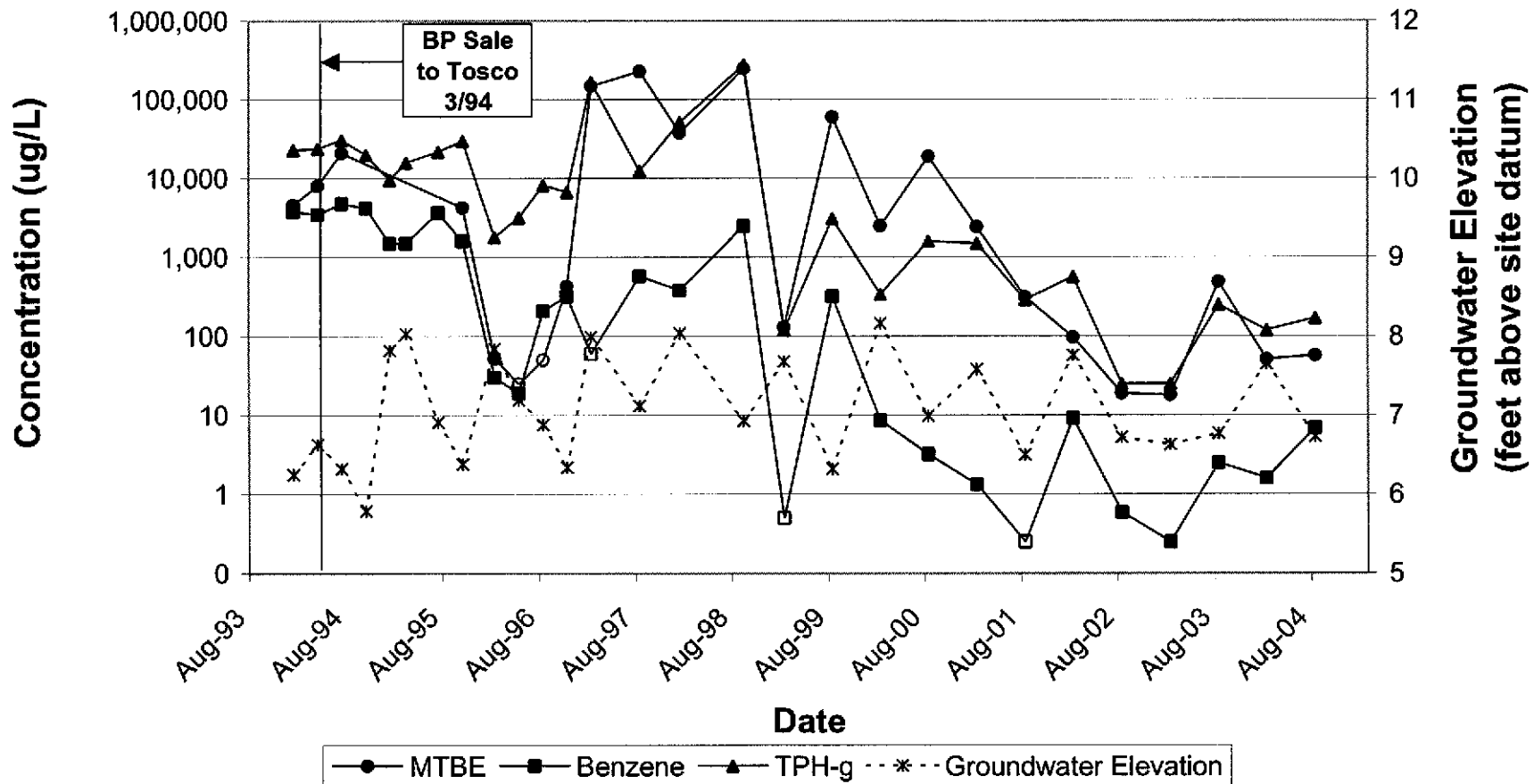


# Concentration and Water Level Trends Well MW-1



Former BP Service Station #11104  
1716 Webster Street  
Alameda, California

# Concentration and Water Level Trends Well RW-1



Former BP Service Station #11104  
1716 Webster Street  
Alameda, California

**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 # 040812-PC1 Date 8/12/04 Client EP 11104

Site 1716 Webster St., Alameda

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					5.22	15.58	TOC	
MW-2	2					6.17	15.40	↓	G.O.
MW-3	2	# possible obstruction in well			6.22	15.18	G.O.		
MW-4	2				5.20	14.65	G.O. Tr.		
MW-5	2				4.91	14.70	G.O. Tr.		
RW-1	6				5.11	22.65			

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040812-PC1</u>	Station # <u>BP 11104</u>
Sampler: <u>PC</u>	Date: <u>8/12/04</u>
Well I.D.: <u>MU-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>15.58</u>	Depth to Water: <u>5.22</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> 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 <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>1.7</u>	x	<u>3</u>	=	<u>5.1</u>	Gals.
Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
936	69.8	6.4	<del>792</del> 792	1.7	gpg ↓
938	69.6	6.3	808	3.4	
940	69.7	6.3	814	5.1	

Did well dewater? Yes <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>5.1</u>	
Sampling Time: <u>948</u>	Sampling Date: <u>8/12/04</u>	
Sample I.D.: <u>MU-1</u>	Laboratory: Pace <u>Sequon</u> Other _____	
Analyzed for: <u>(GRO BTEX)</u> MTBE DRO	Other: <u>see COC</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 #: <u>040812-PC1</u>	Station # <u>BP 11104</u>
Sampler: <u>PC</u>	Date: <u>8/12/04</u>
Well I.D.: <u>RW-1</u>	Well Diameter: <u>Gr 3 4 ⑥ 8</u>
Total Well Depth: <u>22.65</u>	Depth to Water: <u>5.11</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> 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 checked="" type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

80% recharge → 0.62

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>25.8</u>	x	<u>3</u>	=	<u>77.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
926	70.4	5.8	531	26	cloudy
928	well dewatered @ 30 gals.				
955	67.3	6.0	566		DTW-10.95 site departure

Did well dewater? <input checked="" type="checkbox"/> No	Gallons actually evacuated: <u>90</u>
Sampling Time: <u>955</u>	Sampling Date: <u>8/12/04</u>
Sample I.D.: <u>RW-1</u>	Laboratory: Pace <u>Sequnia</u> Other _____
Analyzed for: <u>GRO BTEX</u> MTBE DRO	Other: <u>see COC</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

**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 PLAINE 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:

BP 11104

Station #

1716 Webster Ave., Alameda

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

35

added equip.  
rinse water 5

any other  
adjustments

TOTAL GALS.  
RECOVERED 40

loaded onto  
BTS vehicle # 52

BTS event #

time date

040812-PC1

1000 8/12/04

signature P. M. LIA

\*\*\*\*\*

REC'D AT

time

date

BTS

unloaded by  
signature

/ /





# Chain of Custody Record

Project Name 11104 GWM  
 BP BU/GEM CO Portfolio Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company

On-site Time: <u>820</u>	Temp: <u>65°F</u>
Off-site Time: <u>1005</u>	Temp: <u>70°F</u>
Sky Conditions: <u>cloudy</u>	
Meteorological Events: <u>none</u>	
Wind Speed:	Direction:

Date: 8/2/04 Requested Due Date (mm/dd/yy) 14 day TAT

Send To:	BP/GEM Facility No.: <u>11104</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>1716 WEBSTER ST., ALAMEDA, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>11104</u>	<u>Oakland, CA 94612</u>
<u>P.O. Box 6549</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
	California Global ID #: <u>T0600101651</u>	Consultant/Contractor Project No.:
Lab PM <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Leonard Niles</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No:

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	GRO / BTEX 8015/8021/8260	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DIPE, TBA (8260)	1,2-DCA & EDB (8260)	
1	<u>RL1-1</u>	<u>948</u>		<u>✓</u>			<u>2</u>							<u>✓</u>	<u>✓</u>	<u>✓</u>			
2	<u>RL1-1</u>	<u>955</u>		<u>✓</u>			<u>3</u>							<u>✓</u>	<u>✓</u>	<u>✓</u>			
3	<u>TB-11104-08/22/04</u>			<u>✓</u>			<u>2</u>											<u>on hold</u>	
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>P. Corvish</u>	Relinquished By / Affiliation: <u>VJH/URS</u>	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>Blaxie Tech</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    °F/C Trip Blank Yes ✓ No

**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.



3 September, 2004

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

RE: BF Heritage #11104, Alameda, CA  
Work Order: MNH0377

Enclosed are the results of analyses for samples received by the laboratory on 08/13/04 13:55. 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 [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11104, Alameda, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNH0377  
**Reported:**  
 09/03/04 10:37

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNH0377-01	Water	08/12/04 09:48	08/13/04 13:55
RW-1	MNH0377-02	Water	08/12/04 09:55	08/13/04 13:55
TB-11104-08122004	MNH0377-03	Water	08/12/04 09:55	08/13/04 13:55

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with no custody seals.

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

 Project: BP Heritage #11104, Alameda, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNH0377  
 Reported:  
 09/03/04 10:37

### 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 (MNH0377-01) Water</b> <b>Sampled: 08/12/04 09:48</b> <b>Received: 08/13/04 13:55</b>									
tert-Amyl methyl ether	9.3	5.0	ug/l	10	4H25004	08/25/04	08/25/04	EPA 8260B	
Benzene	500	5.0	"	"	"	"	"	"	"
tert-Butyl alcohol	730	200	"	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
Ethanol	ND	1000	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	"
Ethylbenzene	41	5.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	260	5.0	"	"	"	"	"	"	"
Toluene	12	5.0	"	"	"	"	"	"	"
Xylenes (total)	1400	5.0	"	"	"	"	"	"	"
Gasoline Range Organics (C4-C12)	5700	500	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97 %	78-129	"	"	"	"	"	"
<b>RW-1 (MNH0377-02) Water</b> <b>Sampled: 08/12/04 09:55</b> <b>Received: 08/13/04 13:55</b>									
tert-Amyl methyl ether	1.0	0.50	ug/l	1	4H25004	08/25/04	08/25/04	EPA 8260B	
Benzene	6.9	0.50	"	"	"	"	"	"	"
tert-Butyl alcohol	500	20	"	"	"	"	"	"	"
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
Ethanol	ND	100	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	4.5	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether	57	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	10	0.50	"	"	"	"	"	"	"
Gasoline Range Organics (C4-C12)	170	50	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	78-129	"	"	"	"	"	"

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

 Project: BP Heritage #11104, Alameda, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNH0377  
**Reported:**  
 09/03/04 10:37

**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 4H25004 - EPA 5030B P/T**
**Blank (4H25004-BLK1)**

Prepared &amp; Analyzed: 08/25/04

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							

*Surrogate: 1,2-Dichloroethane-d4*

5.02 " 5.00 100 78-129

**Laboratory Control Sample (4H25004-BS1)**

Prepared &amp; Analyzed: 08/25/04

tert-Amyl methyl ether	10.2	0.50	ug/l	10.0		102	82-140			
Benzene	10.1	0.50	"	10.0		101	69-124			
tert-Butyl alcohol	55.7	20	"	50.0		111	56-131			
Di-isopropyl ether	10.3	0.50	"	10.0		103	76-130			
1,2-Dibromoethane (EDB)	10.3	0.50	"	10.0		103	77-132			
1,2-Dichloroethane	10.5	0.50	"	10.0		105	77-136			
Ethanol	182	100	"	200		91	31-143			
Ethyl tert-butyl ether	10.0	0.50	"	10.0		100	81-121			
Ethylbenzene	9.83	0.50	"	10.0		98	84-132			
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	63-137			
Toluene	9.61	0.50	"	10.0		96	78-129			
Xylenes (total)	30.9	0.50	"	30.0		103	83-137			

*Surrogate: 1,2-Dichloroethane-d4*

4.89 " 5.00 98 78-129

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

 Project: BP Heritage #11104, Alameda, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNH0377  
 Reported:  
 09/03/04 10:37

**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 4H25004 - EPA 5030B P/T**
**Laboratory Control Sample (4H25004-BS2)**

Prepared &amp; Analyzed: 08/25/04

Ethylbenzene	7.73	0.50	ug/l	6.96		111	84-132			
Methyl tert-butyl ether	8.46	0.50	"	9.92		85	63-137			
Toluene	31.6	0.50	"	29.7		106	78-129			
Xylenes (total)	39.5	0.50	"	33.7		117	83-137			
Gasoline Range Organics (C4-C12)	382	50	"	440		87	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.14</i>		"	<i>5.00</i>		<i>103</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (4H25004-BSD1)**

Prepared &amp; Analyzed: 08/25/04

tert-Amyl methyl ether	9.18	0.50	ug/l	10.0		92	82-140	11	20	
Benzene	9.73	0.50	"	10.0		97	69-124	4	20	
tert-Butyl alcohol	49.3	20	"	50.0		99	56-131	12	20	
Di-isopropyl ether	9.57	0.50	"	10.0		96	76-130	7	20	
1,2-Dibromoethane (EDB)	8.86	0.50	"	10.0		89	77-132	15	20	
1,2-Dichloroethane	9.20	0.50	"	10.0		92	77-136	13	20	
Ethanol	129	100	"	200		64	31-143	34	20	RB
Ethyl tert-butyl ether	9.06	0.50	"	10.0		91	81-121	10	20	
Ethylbenzene	10.5	0.50	"	10.0		105	84-132	7	20	
Methyl tert-butyl ether	8.93	0.50	"	10.0		89	63-137	13	20	
Toluene	10.9	0.50	"	10.0		109	78-129	13	20	
Xylenes (total)	34.2	0.50	"	30.0		114	83-137	10	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.37</i>		"	<i>5.00</i>		<i>87</i>	<i>78-129</i>			

**Matrix Spike (4H25004-MS1)**

Source: MNH0377-01

Prepared &amp; Analyzed: 08/25/04

Benzene	586	5.0	ug/l	64.0	500	134	69-124			LM
Ethylbenzene	125	5.0	"	69.6	41	121	84-132			
Methyl tert-butyl ether	340	5.0	"	99.2	260	81	63-137			
Toluene	337	5.0	"	297	12	109	78-129			
Xylenes (total)	1810	5.0	"	337	1400	122	83-137			
Gasoline Range Organics (C4-C12)	9250	500	"	4400	5700	81	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.06</i>		"	<i>5.00</i>		<i>101</i>	<i>78-129</i>			



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

 Project: BP Heritage #11104, Alameda, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNH0377  
 Reported:  
 09/03/04 10:37

**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 4H25004 - EPA 5030B P/T**
**Matrix Spike Dup (4H25004-MSD1)**

Source: MNH0377-01

Prepared &amp; Analyzed: 08/25/04

Benzene	558	5.0	ug/l	64.0	500	91	69-124	5	20	
Ethylbenzene	120	5.0	"	69.6	41	114	84-132	4	20	
Methyl tert-butyl ether	334	5.0	"	99.2	260	75	63-137	2	20	
Toluene	322	5.0	"	297	12	104	78-129	5	20	
Xylenes (total)	1740	5.0	"	337	1400	101	83-137	4	20	
Gasoline Range Organics (C4-C12)	9020	500	"	4400	5700	75	70-124	3	20	
Surrogate: 1,2-Dichloroethane-d4	4.99		"	5.00		100	78-129			



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

Project: BP Heritage #11104, Alameda, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MNH0377  
**Reported:**  
09/03/04 10:37

### Notes and Definitions

RB RPD exceeded method control limit; % recoveries within limits.  
LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).  
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



(MNH0377)

## Chain of Custody Record

Project Name 11104 GWM  
 BP BU/GEM CO Portfolio Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company  
 Requested Due Date (mm/dd/yy) 11 day TAT

On-site Time: <u>820</u>	Temp: <u>65°F</u>
Off-site Time: <u>1005</u>	Temp: <u>70°F</u>
Sky Conditions: <u>cloudy</u>	
Meteorological Events: <u>none</u>	
Wind Speed:	Direction:

Date: 8/2/04

Send To: Lab Name: <u>SEQUOIA</u> Lab Address: <u>885 Jarvis Dr.</u> <u>P.O. Box 6549</u>	BP/GEM Facility No.: <u>11104</u> BP/GEM Facility Address: <u>1716 WEBSTER ST., ALAMEDA, CA</u> Site ID No. <u>11104</u> Site Lat/Long: California Global ID #: <u>T0800101651</u>	Consultant/Contractor: <u>URS</u> Address: <u>1333 Broadway, Suite 800</u> <u>Oakland, CA 94612</u> e-mail EDD: <u>donna.casper@URSCorp.com</u> Consultant/Contractor Project No.: <u>NIP</u> Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u> Consultant/Contractor PM: <u>Leonard Niles</u> Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one) BP/GEM Work Release No:
Lab PM <u>Lisa Race</u> Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u> Address: <u>P.O. Box 6549</u> <u>Moraga, CA 94570</u>	
Report Type & QC Level: <u>1 Send EDF Reports</u>	BP/GEM Account No.:	
Lab Bottle Order No:	Matrix	

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments	
			Solid	Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HC	GRO / BTEX (8015/8015/8021/8260)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAMS, ETBE (8260)	DIPE, TBA (8260)		1,2-DCA & EDB (8260)
1	RAW-1	948					2													
2	RU-1	955					2													
3	T0-11104-0822004						2													on hold
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>B. Cornish</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>8/1/04</u>	Time: <u>10:15</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>8/1/04</u>	Time: <u>10:17</u>
Shipment Date: <u>8/2/04</u>	Shipment Method: <u>LAB courier</u>	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 5.8 °C      Trip Blank Yes  No

**ATTACHMENT D**

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

## Electronic Submittal Information

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### UPLOADING A GEO\_WELL FILE

**Processing is complete. No errors were found!  
Your file has been successfully submitted!**

**Submittal Title:** Third Quarter 2004 QMR Site  
#11104

**Submittal Date/Time:** 10/4/2004 2:17:00 PM

**Confirmation  
Number:** 1113891422

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**Confirmation Number:** 5369161844  
**Date/Time of Submittal:** 9/23/2004 5:34:46 PM  
**Facility Global ID:** T0600101651  
**Facility Name:** BP  
**Submittal Title:** Third Quarter 2004 QMR. Site #11104  
**Submittal Type:** GW Monitoring Report

[Click here to view the detections report for this upload.](#)

BP 1716 WEBSTER ST ALAMEDA, CA 94501	<b>Regional Board - Case #: 01-1783</b> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <b>Local Agency (lead agency) - Case #: 3723</b> ALAMEDA COUNTY LOP - (RWS)
--	--

CONF #	TITLE	QUARTER
5369161844	Third Quarter 2004 QMR. Site #11104	Q3 2004
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	9/23/2004	PENDING REVIEW

### SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	2
# FIELD POINTS WITH DETECTIONS	2
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	WATER

### METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

### QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

### WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
---	---

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

**SOIL SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

**FIELD QC SAMPLES**

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPDL</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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