



April 14, 2003

Susan Hugo  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Alameda County  
APR 21 2003  
Environmental Health

Re: **First Quarter 2003 Groundwater Monitoring Report**  
Former BP Service Station #11126  
1700 Powell Street  
Emeryville, California  
URS Project #38486245

Dear Ms. Hugo:

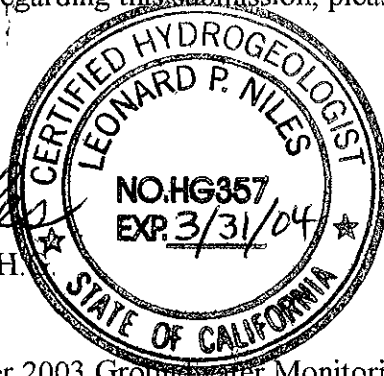
On behalf of the Group Environmental Management Company (an affiliated company of BP), URS Corporation (URS) is submitting the *First Quarter 2003 Groundwater Monitoring Report* for the Former BP Service Station #11126, located at 1700 Powell Street, Emeryville, California.

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.  
Senior Geologist



Enclosure: First Quarter 2003 Groundwater Monitoring Report

cc: Mr. Scott Hooton, Group Environmental Management Company, 295 SW 41<sup>st</sup> Street,  
Building 13, Suite N, Renton, Washington 98055-4931  
Ms. Liz Sewell, ConocoPhilips, 76 Broadway, Sacramento, California 95818

**R E P O R T**

*Alameda County  
APR 21 2003  
Environmental Health*

**FIRST QUARTER 2003  
GROUNDWATER MONITORING**

**FORMER BP SERVICE STATION #11126  
1700 POWELL STREET  
EMERYVILLE, CALIFORNIA**

*Prepared for*  
**BP GEM**

April 14, 2003

**URS**

URS Corporation  
500 12th Street, Suite 200  
Oakland, California 94607

38486245



Date: April 14, 2003  
Quarter: 1Q 03

**BP GEM QUARTERLY GROUNDWATER MONITORING REPORT**

Facility No.: 11126 Address: 1700 Powell Street, Emeryville, CA  
BP Environmental Engineer: Scott Hooton  
Consulting Co./Contact Person: URS Corporation/ Leonard Niles  
Consultant Project No.: 38486245  
Primary Agency: Alameda County Health Care Services Agency

**WORK PERFORMED THIS QUARTER (First – 2003):**

1. Performed first quarter groundwater monitoring event on February 19, 2003.
2. Prepared and submitted fourth quarter 2002 groundwater monitoring report.

**WORK PROPOSED FOR NEXT QUARTER (Second – 2003):**

1. Prepare and submit first quarter 2003 groundwater monitoring report.
2. Perform second quarter 2003 groundwater monitoring event.

Current Phase of Project: GW monitoring/sampling  
Frequency of Groundwater Sampling: Wells MW-1 through MW-9 quarterly  
Frequency of Groundwater Monitoring: Quarterly  
Is Free Product (FP) Present On-Site: No  
Current Remediation Techniques: None currently  
Approximate Depth to Groundwater: 3.00 (MW-1) to 5.40 (MW-6) feet  
Groundwater Gradient (direction): West – Southwest  
Groundwater Gradient (magnitude): 0.025 feet per foot

**DISCUSSION:**

TPH-g was detected in five of the nine wells sampled at concentrations ranging from 1,500 µg/L (MW-1) to 78,000 µg/L (MW-2). Benzene was detected in four of the nine wells sampled at concentrations ranging from 11 µg/L (MW-5) to 10,000 µg/L (MW-9). MTBE was detected in all nine wells sampled at concentrations ranging from 6.4 µg/L (MW-5) to 81,000 µg/L (MW-2). The analytical method used during this sampling event, EPA Method 8260B, resulted in elevated detection limits for TPH-g and BTEX in several samples due to matrix interference from elevated MTBE concentrations. Therefore, analysis will resume using EPA method 8015M/8021B during future monitoring events.



**ATTACHMENTS:**

- Table 1 – Groundwater Elevation and Analytical Data
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – February 19, 2003
- Attachment A – Concentration and Water Level Trends (MW-4)
- 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

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Service Station #11126**  
**1700 Powell Street, Emeryville, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-1	11/04/1992	7.76	4.96	---	2.80	5300	---	1100	480	ND<0.5	1500	---	(k)	---	---	PACE
MW-1	10/12/1993	7.76	5.26	---	2.50	3600	---	970	71	100	550	6111	(k)	---	---	PACE
MW-1	02/15/1994	7.76	4.98	---	2.78	17000	---	4200	510	360	1600	5495	(k)	---	3.9	PACE
MW-1	05/11/1994	7.76	4.55	---	3.21	5500	---	2900	37	56	64	705	(k)	---	8.0	PACE
MW-1	08/01/1994	7.76	5.51	---	2.25	15000	---	3600	740	510	2800	9718	(d)(k)	---	2.9	PACE
QC-1 (e)	08/01/1994	---	---	---	---	16000	---	3600	750	510	2800	9800	(d)	---	---	PACE
MW-1	10/18/1994	7.76	5.11	---	2.65	16000	---	1800	61	160	890	15668	(k)	---	2.9	PACE
QC-1 (e)	10/18/1994	---	---	---	---	16000	---	1900	64	170	950	---	---	---	---	PACE
MW-1	01/13/1995	7.76	3.05	---	4.71	220	---	7	ND<0.5	1	23	---	---	---	6.6	ATI
QC-1 (e)	01/13/1995	---	---	---	---	590	---	88	0.7	ND<0.5	55	---	---	---	---	ATI
MW-1	04/13/1995	7.76	3.84	---	3.92	9300	---	4000	300	200	950	---	---	---	7.7	ATI
MW-1	07/11/1995	7.76	3.60	---	4.16	15000	---	2200	84	ND<25	2500	---	---	---	8.8	ATI
MW-1	11/02/1995	7.76	4.58	---	3.18	19000	---	920	ND<100	ND<100	430	52000	---	---	7.3	ATI
MW-1	02/05/1996	7.76	4.43	---	3.33	4600	---	1400	330	54	247	8700	---	---	3.2	SPL
MW-1	04/24/1996	7.76	4.00	---	3.76	2000	---	510	33	61	228	4500	---	---	7.5	SPL
MW-1	07/15/1996	7.76	4.30	---	3.46	---	---	---	---	---	---	---	---	---	---	---
MW-1	07/16/1996	7.76	---	---	---	12000	---	2800	170	390	1630	64000	---	---	7.9	SPL
QC-1 (e)	07/16/1996	---	---	---	---	12000	---	2800	160	390	1610	63000	---	---	---	SPL
MW-1	07/30/1996	7.76	4.64	---	3.12	---	---	---	---	---	---	---	---	---	---	---
MW-1	08/12/1996	7.76	---	---	---	11000	---	2500	160	ND<10	1740	440000	---	---	7.0	SPL
MW-1	11/04/1996	7.76	5.98	---	1.78	---	---	---	---	---	---	---	---	---	---	---
MW-1	11/05/1996	7.76	---	---	---	53000	---	1300	43	100	349	42000/190000	(f)	---	6.6	SPL
MW-1	05/17/1997	7.76	4.65	---	3.11	52000	---	1958	55	305	1216	140198	---	---	5.7	SPL
MW-1	08/11/1997	7.76	4.90	---	2.86	25000	---	540	6.7	ND<5.0	57	360000	---	---	7.9	SPL
MW-1	11/17/1997	7.76	6.12	---	1.64	93000	---	1200	31	180	40	400000	---	---	7.6	SPL
MW-1	01/29/1998	7.76	4.90	---	2.86	4800	---	320	24	52	19.9	ND<50	---	---	6.6	SPL
MW-1	06/22/1998	7.76	4.62	---	3.14	63000	---	180	ND<5.0	15	69	57000	---	---	6.0	---
MW-1	12/30/1998	7.76	5.41	---	2.35	22000	---	2500	24	120	400	15000/13000	(f)	---	---	SPL
MW-1	03/09/1999	7.76	3.40	---	4.36	16000	---	2000	84	290	510	13000	---	---	---	SPL
MW-1	06/23/1999	7.76	4.60	---	3.16	9600	---	4500	21	160	260	24000	---	---	---	SPL
MW-1	09/23/1999	7.76	4.21	---	3.55	3800	---	1600	32	150	240	7100	---	---	---	SPL
MW-1	12/28/1999	7.76	4.10	---	3.66	3400	---	ND<2200	17	53	130	5500	---	---	---	PACE
MW-1	03/22/2000	7.76	5.51	---	2.25	6400	---	1100	45	190	330	4900	---	---	---	PACE
MW-1	05/26/2000	7.76	4.79	---	2.97	110000	---	700	44	140	250	320000	---	---	---	PACE
MW-1	09/06/2000	7.76	5.19	---	2.57	5600	---	1000	13	57	90	19000	---	---	---	PACE
MW-1	09/15/2000	7.76	5.73	---	2.03	---	---	---	---	---	---	---	---	---	---	---
MW-1	12/11/2000	7.76	5.82	---	1.94	5500	---	1160	47.1	155	292	3900	---	---	---	PACE
MW-1 (h)	03/29/2001	7.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	06/27/2001	7.76	5.49	---	2.27	6100	---	1200	12.9	17.3	77.9	1780	---	---	---	PACE
MW-1	09/19/2001	7.76	6.19	---	1.57	1800	---	102	ND<12.5	ND<12.5	ND<37.5	1090	---	---	---	PACE
MW-1	12/28/2001	7.76	5.27	---	2.49	4000	---	540	11.8	20.4	64.6	1120	---	---	---	PACE
MW-1	03/12/2002	7.76	5.68	---	2.08	3700	---	491	8.39	12.4	27.3	1020	---	---	---	PACE
MW-1	6/13/2002*	7.76	5.54	---	2.22	1900	---	255	ND<12.5	ND<12.5	ND<25	6490	---	---	---	PACE
MW-1	09/06/2002	7.76	5.56	---	2.20	1100	---	170	5.1	2.2	20	550	---	---	---	SEQ

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11126  
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-1 (o)	12/13/2002	7.76	5.45	---	2.31	2700	---	610	10	18	67	470	---	---	---	SEQ
MW-1 (p)	02/19/2003	7.76	3.00	---	4.76	1500	---	180	ND<5.0	ND<5.0	15	610	---	---	---	SEQ

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MW-2	11/04/1992	8.56	5.88	---	2.68	12000	---	3900	1300	ND<0.5	2300	---	(k)	---	---	PACE
QC-1 (e)	11/04/1992	---	---	---	---	12000	---	3200	980	ND<0.5	1900	---	---	---	---	PACE
MW-2	10/12/1993	8.56	6.29	---	2.27	4500	---	3400	180	230	940	442	(k)	---	---	PACE
MW-2	02/15/1994	8.56	5.56	---	3.00	2000	---	430	270	28	390	127	(k)	---	4.0	PACE
QC-1 (e)	02/15/1994	---	---	---	---	1800	---	290	160	14	250	---	---	---	---	PACE
MW-2	05/11/1994	8.56	5.17	---	3.39	14000	---	3900	1200	440	1900	953	(k)	---	8.9	PACE
QC-1 (e)	05/11/1994	---	---	---	---	15000	---	5600	1500	470	2000	740	(d)	---	---	PACE
MW-2	08/01/1994	8.56	5.43	---	3.13	8200	---	3000	420	230	680	1676	(k)	---	2.6	PACE
MW-2	10/18/1994	8.56	5.71	---	2.85	9000	---	2000	140	150	420	2417	(k)	---	7.2	PACE
MW-2	01/13/1995	8.56	4.67	---	3.89	7900	---	2200	42	ND<5	770	---	---	---	6.8	ATI
MW-2	04/13/1995	8.56	4.37	---	4.19	33000	---	8000	2500	1100	6600	---	---	---	7.5	ATI
QC-1 (e)	04/13/1995	---	---	---	---	25000	---	6500	1500	110	5300	---	---	---	---	ATI
MW-2	07/11/1995	8.56	4.51	---	4.05	19000	---	3300	99	7.5	4600	---	---	---	7.8	ATI
QC-1 (e)	07/11/1995	---	---	---	---	28000	---	6800	1000	900	4900	---	---	---	---	ATI
MW-2	11/02/1995	8.56	5.55	---	3.01	20000	---	3800	1200	570	2700	15000	---	---	7.3	ATI
QC-1 (e)	11/02/1995	---	---	---	---	22000	---	4000	1200	600	2700	19000	---	---	---	ATI
MW-2	02/05/1996	8.56	5.10	---	3.46	1200	---	320	220	26	187	99	---	---	2.2	SPL
QC-1 (e)	02/05/1996	---	---	---	---	910	---	290	180	19	137	93	---	---	---	SPL
MW-2	04/24/1996	8.56	4.95	---	3.61	ND<500	---	70	22	ND<10	61	ND<50	---	---	7.0	SPL
QC-1 (e)	04/24/1996	---	---	---	---	ND<500	---	100	30	ND<10	71	ND<100	---	---	---	SPL
MW-2	07/15/1996	8.56	5.40	---	3.16	---	---	---	---	---	---	---	---	---	---	---
MW-2	07/16/1996	8.56	---	---	---	12000	---	3300	1400	250	2610	1400	---	---	7.8	SPL
MW-2	07/30/1996	8.56	5.44	---	3.12	---	---	---	---	---	---	---	---	---	---	---
MW-2	11/04/1996	8.56	7.06	---	1.50	---	---	---	---	---	---	---	---	---	---	---
MW-2	11/05/1996	8.56	---	---	---	7200	---	1400	230	38	2110	1100	---	---	7.4	SPL
QC-1 (e)	11/05/1996	---	---	---	---	9200	---	1300	170	ND<25	2240	1100	---	---	---	SPL
MW-2	05/17/1997	8.56	5.77	---	2.79	570	---	42	ND<5.0	5.0	60	210	---	---	6.9	SPL
MW-2	08/11/1997	8.56	5.71	---	2.85	6300	---	1800	130	86	397	2400	---	---	8.5	SPL
MW-2	11/17/1997	8.56	6.91	---	1.65	2400	---	220	30	33	259	130	---	---	7.9	SPL
MW-2	01/29/1998	8.56	4.61	---	3.95	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	6.2	SPL
MW-2	06/22/1998	8.56	4.80	---	3.76	4200	---	640	150	120	650	560	---	---	5.4	SPL
MW-2	12/30/1998	8.56	5.21	---	3.35	---	---	---	---	---	---	---	---	---	---	---
MW-2	06/23/1999	8.56	5.30	---	3.26	---	---	---	---	---	---	---	---	---	---	---
MW-2	09/23/1999	8.56	4.75	---	3.81	3800	---	760	19	210	960	910	---	---	---	SPL
MW-2	12/28/1999	8.56	4.51	---	4.05	---	---	---	---	---	---	---	---	---	---	---
MW-2	03/22/2000	8.56	4.21	---	4.35	2500	---	780	17	44	270	2800	---	---	---	PACE
MW-2	05/26/2000	8.56	4.66	---	3.90	---	---	---	---	---	---	---	---	---	---	---
MW-2	09/06/2000	8.56	4.71	---	3.85	3700	---	1200	5.5	12	170	12000	---	---	---	PACE
MW-2	09/15/2000	8.56	4.74	---	3.82	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/11/2000	8.56	4.79	---	3.77	---	---	---	---	---	---	---	---	---	---	---
MW-2 (h)	03/29/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (j)	06/27/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (j)	09/19/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (j)	12/28/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**  
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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-2	03/12/2002	8.56	4.25	---	4.31	26000	---	1160	4.39	61.1	171	37300	---	---	---	PACE
MW-2	6/13/2002*	8.56	4.94	---	3.62	18000	---	578	ND<50	ND<50	ND<100	84600	---	---	---	PACE
MW-2	09/06/2002	8.56	5.23	---	3.33	26000	---	440	ND<50	ND<50	ND<50	45000	---	---	---	SEQ
MW-2 (o)	12/13/2002	8.56	4.94	---	3.62	69000	---	1200	ND<500	ND<500	ND<500	98000	---	---	---	SEQ
MW-2 (p)	02/19/2003	8.56	4.14	---	4.42	78000	---	1100	ND<500	ND<500	ND<500	81000	---	---	---	SEQ



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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-3	11/04/1992	8.25	6.38	---	1.87	200	690	1.6	ND<0.5	ND<0.5	1.1	---	(k) ND<5000	ND	---	PACE
MW-3	10/12/1993	8.25	5.84	---	2.41	270	2100	5.0	0.7	ND<0.5	2.6	96.3	(k) ND<5000	ND	---	PACE
QC-1 (e)	10/12/1993	---	---	---	---	150	---	5.6	0.6	ND<0.5	1.6	---	---	---	---	PACE
MW-3	02/15/1994	8.25	6.60	---	1.65	140	2.3	5.7	ND<0.5	ND<0.5	ND<0.5	30.1	(k) 90	ND	3.9	PACE
MW-3	05/11/1994	8.25	5.86	---	2.39	190	2500	2.7	1.9	ND<0.5	1.9	51	(d)(k)ND<5000	ND	9.2	PACE
MW-3	08/01/1994	8.25	6.13	---	2.12	120	1300	1.3	ND<0.5	0.5	1.1	17.6	(k) ND<5000	ND	2.9	PACE
MW-3	10/18/1994	8.25	6.39	---	1.86	100	2200	2.3	ND<0.5	ND<0.5	ND<0.5	21	(k) ND<5000	ND	3.6	PACE
MW-3	01/13/1995	8.25	5.47	---	2.78	ND<50	970	0.8	ND<0.5	ND<0.5	ND<1	---	---	---	7.7	ATI
MW-3	04/13/1995	8.25	5.17	---	3.08	530	ND<500	8.7	1.9	ND<0.5	3.9	---	2100	ND	8.4	ATI
MW-3	07/11/1995	8.25	5.37	---	2.88	78	2100	0.57	ND<0.50	ND<0.50	ND<1.0	---	1900	ND	8.3	ATI
MW-3	11/02/1995	8.25	6.29	---	1.96	250	2000	0.73	ND<0.50	ND<0.50	1.8	270	1400	ND	8.3	ATI
MW-3	02/05/1996	8.25	5.80	---	2.45	ND<50	1600	ND<0.5	ND<1	ND<1	2.7	11	9000	ND	3.5	SPL
MW-3	04/24/1996	8.25	5.69	---	2.56	ND<50	2800	ND<5	ND<10	ND<10	ND<10	150	6000	ND	8.6	SPL
MW-3	07/15/1996	8.25	6.18	---	2.07	ND<250	3700	ND<2.5	ND<5	ND<5	ND<5	ND<50	1000	ND	7.7	SPL
MW-3	07/30/1996	8.25	6.04	---	2.21	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/04/1996	8.25	7.84	---	0.41	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/05/1996	8.25	---	---	---	90	890	ND<0.5	ND<1.0	ND<1.0	ND<1.0	30	2000	ND	6.8	SPL
MW-3	05/17/1997	8.25	6.49	---	1.76	ND<50	2100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	52	700	ND	6.3	SPL
MW-3	08/11/1997	8.25	6.15	---	2.10	490	1900	ND<2.5	ND<5.0	ND<5.0	ND<5.0	170	ND<5000	ND	7.4	SPL
MW-3	11/17/1997	8.25	7.15	---	1.10	120	2500	ND<0.5	ND<1.0	ND<1.0	ND<1.0	46	ND<5000	ND	7.0	SPL
MW-3	01/29/1998	8.25	5.10	---	3.15	270	1700	0.53	ND<1.0	ND<1.0	ND<1.0	330	2000	ND	6.4	SPL
MW-3	06/22/1998	8.25	5.50	---	2.75	200	2200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	130	ND<5	ND	5.5	SPL
MW-3	12/30/1998	8.25	6.68	---	1.57	---	---	---	---	---	---	---	---	---	---	---
MW-3	03/09/1999	8.25	5.53	---	2.72	60	840	ND<1.0	ND<1.0	ND<1.0	ND<1.0	19	7600	---	---	SPL
MW-3	06/23/1999	8.25	6.60	---	1.65	---	---	---	---	---	---	---	---	---	---	---
MW-3	09/23/1999	8.25	6.17	---	2.08	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/28/1999	8.25	6.00	---	2.25	---	---	---	---	---	---	---	---	---	---	---
MW-3	03/22/2000	8.25	4.77	---	3.48	690	ND<58	4.2	3.1	0.81	2.7	2900	13000	---	---	PACE
MW-3	05/26/2000	8.25	5.28	---	2.97	---	---	---	---	---	---	---	---	---	---	---
MW-3	09/15/2000	8.25	5.58	---	2.67	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/11/2000	8.25	11.74	---	-3.49 (i)	---	---	---	---	---	---	---	---	---	---	---
MW-3	03/29/2001	8.25	5.04	---	3.21	650	ND<50	ND<2.5	ND<2.5	ND<2.5	ND<7.5	680	6540	---	---	PACE
MW-3	06/27/2001	8.25	5.62	---	2.63	460	690	ND<2.5	ND<2.5	ND<2.5	ND<7.5	560	ND<5000	---	---	PACE
MW-3	09/19/2001	8.25	5.80	---	2.45	ND<500	520	ND<5.0	ND<5.0	ND<5.0	ND<15	464	ND<5000	---	---	PACE
MW-3	12/28/2001	8.25	4.85	---	3.40	180	550	ND<0.5	ND<0.5	ND<0.5	ND<1.0	180	ND<5000	---	---	PACE
MW-3	03/12/2002	8.25	4.39	---	3.86	410	1300	ND<2.5	ND<2.5	ND<2.5	ND<5.0	443	ND<5000	---	---	PACE
MW-3	6/13/2002*	8.25	5.38	---	2.87	ND<250	2600	ND<2.5	ND<2.5	ND<2.5	ND<5.0	395	ND<5000	---	---	PACE
MW-3	09/06/2002	8.25	5.68	---	2.57	ND<200	---	ND<2.0	ND<2.0	ND<2.0	ND<2.0	650	---	---	---	SEQ
MW-3 (o)	12/13/2002	8.25	5.37	---	2.88	ND<50	980	ND<0.5	ND<0.5	ND<0.5	ND<0.5	60	7000	---	---	SEQ
MW-3 (p)	02/19/2003	8.25	4.80	---	3.45	ND<1000	380	ND<10	ND<10	ND<10	ND<10	120	6700	---	---	SEQ

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11126  
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB	
MW-4	11/04/1992	8.12	6.66	---	1.46	340	---	4.5	ND<0.5	4.3	ND<0.5	---	(k)	---	---	---	PACE
MW-4	10/12/1993	8.12	6.87	---	1.25	160	---	5.8	1.4	0.8	2.7	261	(k)	---	---	---	PACE
MW-4	02/15/1994	8.12	6.61	---	1.51	110	---	4.4	0.7	ND<0.5	2.5	118	(d)(k)	---	---	---	4.3 PACE
MW-4	05/11/1994	8.12	5.89	---	2.23	120	---	0.5	0.8	ND<0.5	ND<0.5	137	(d)(k)	---	---	---	9.3 PACE
MW-4	08/01/1994	8.12	6.87	---	1.25	140	---	0.7	2.0	5.2	15	138	(k)	---	---	---	3.3 PACE
MW-4	10/18/1994	8.12	6.62	---	1.50	140	---	3.5	ND<0.5	0.5	ND<0.5	197	(k)	---	---	---	3.0 PACE
MW-4	01/13/1995	8.12	7.27	---	0.85	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	---	7.9 ATI
MW-4	04/13/1995	8.12	6.51	---	1.61	73	---	1.2	ND<0.5	ND<0.5	ND<1	---	---	---	---	---	9.9 ATI
MW-4	07/11/1995	8.12	6.21	---	1.91	82	---	0.57	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	7.2 ATI
MW-4	11/02/1995	8.12	6.78	---	1.34	71	---	1.4	0.96	0.99	2.8	140	---	---	---	---	8.6 ATI
MW-4	02/05/1996	8.12	6.41	---	1.71	ND<50	---	ND<5	ND<10	ND<10	ND<10	200	---	---	---	---	4.4 SPL
MW-4	04/24/1996	8.12	6.18	---	1.94	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	510	---	---	---	---	8.3 SPL
MW-4	07/15/1996	8.12	6.63	---	1.49	ND<50	---	5.7	ND<1	ND<1	ND<1	550	---	---	---	---	7.4 SPL
MW-4	07/30/1996	8.12	6.34	---	1.78	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/04/1996	8.12	8.27	---	-0.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/05/1996	8.12	---	---	---	460	---	ND<2.5	11	ND<5.0	ND<5.0	620/610	(f)	---	---	---	7.3 SPL
MW-4	05/17/1997	8.12	7.00	---	1.12	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	08/11/1997	8.12	6.81	---	1.31	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/17/1997	8.12	9.19	---	-1.07	840	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	880	---	---	---	---	7.3 SPL
MW-4	01/29/1998	8.12	7.94	---	0.18	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	06/22/1998	8.12	7.49	---	0.63	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	12/30/1998	8.12	8.21	---	-0.09	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	03/09/1999	8.12	7.70	---	0.42	1200	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2000	---	---	---	---	SPL
MW-4	06/23/1999	8.12	8.81	---	-0.69	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	09/23/1999	8.12	8.32	---	-0.20	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	12/28/1999	8.12	8.21	---	-0.09	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	03/22/2000	8.12	6.74	---	1.38	910	---	ND<0.5	ND<0.5	0.54	1.7	3800	---	---	---	---	PACE
MW-4	05/26/2000	8.12	5.13	---	2.99	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	09/15/2000	8.12	8.20	---	-0.08	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	12/11/2000	8.12	8.31	---	-0.19	---	---	---	---	---	---	---	---	---	---	---	---
MW-4 (h)	03/29/2001	8.12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	06/27/2001	8.12	7.57	---	0.55	2800	---	18.9	ND<2.5	ND<2.5	ND<7.5	4220	---	---	---	---	PACE
MW-4	09/19/2001	8.12	7.87	---	0.25	2500	---	ND<5.0	ND<5.0	ND<5.0	ND<15	3340	---	---	---	---	PACE
MW-4	12/28/2001	8.12	7.80	---	0.32	4400	---	ND<5.0	ND<5.0	ND<5.0	ND<10	5330	---	---	---	---	PACE
MW-4	03/12/2002	8.12	4.53	---	3.59	6400	---	71.5	ND<5.0	ND<5.0	ND<10	8440	---	---	---	---	PACE
MW-4	6/13/2002*	8.12	6.21	---	1.91	1800	---	7.5	ND<5.0	5.03	13.1	6870	---	---	---	---	PACE
MW-4	09/06/2002	8.12	7.78	---	0.34	ND<2000	---	ND<20	ND<20	ND<20	ND<20	9600	---	---	---	---	SEQ
MW-4 (o)	12/13/2002	8.12	7.87	---	0.25	5600	---	ND<50	ND<50	ND<50	ND<50	8600	---	---	---	---	SEQ
MW-4 (p)	02/19/2003	8.12	4.84	---	3.28	ND<10000	---	ND<100	ND<100	ND<100	ND<100	8000	---	---	---	---	SEQ

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Service Station #11126**  
**1700 Powell Street, Emeryville, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB	
MW-5	10/12/1993	7.69	6.01	---	1.68	---	---	---	---	---	---	---	(k)	---	---	---	PACE
MW-5	10/13/1993	7.69	---	---	---	2300	---	160	10	ND<0.5	26	---	(k)	---	---	---	PACE
MW-5	02/15/1994	7.69	5.74	---	1.95	5100	---	710	16	33	35	153	(d)(k)	---	---	4.0	PACE
MW-5	05/11/1994	7.69	5.28	---	2.41	11000	---	1100	39	110	57	165	(d)(k)	---	---	8.0	PACE
MW-5	08/01/1994	7.69	5.84	---	1.85	9000	---	730	35	61	41	196	(d)(k)	---	---	2.6	PACE
MW-5	10/18/1994	7.69	6.01	---	1.68	7800	---	330	30	27	27	559	(k)	---	---	5.6	PACE
MW-5	01/13/1995	7.69	4.74	---	2.95	ND<500	---	290	6	ND<5	18	---	---	---	---	6.8	ATI
MW-5	04/13/1995	7.69	5.50	---	2.19	9100	---	400	15	52	27	---	---	---	---	7.4	ATI
MW-5	07/11/1995	7.69	5.75	---	1.94	7300	---	390	13	28	23	---	---	---	---	7.2	ATI
MW-5	11/03/1995	7.69	6.65	---	1.04	7200	---	270	15	38	23	200	---	---	---	8.4	ATI
MW-5	02/05/1996	7.69	4.83	---	2.86	4600	---	370	15	53	28	ND<50	---	---	---	1.9	SPL
MW-5	04/24/1996	7.69	6.09	---	1.60	3000	---	180	ND<10	32	14	ND<100	---	---	---	8.1	SPL
MW-5	07/15/1996	7.69	6.57	---	1.12	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	07/16/1996	7.69	---	---	---	ND<50	---	190	ND<10	31	16	ND<100	---	---	---	8.3	SPL
MW-5	07/30/1996	7.69	5.61	---	2.08	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	08/12/1996	7.69	---	---	---	2000	---	150	12	25	18.2	ND<50	---	---	---	7.6	SPL
MW-5	11/04/1996	7.69	8.25	---	-0.56	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	11/05/1996	7.69	---	---	---	5200	---	42	5.5	13	ND<5.0	1700	---	---	---	7.4	SPL
MW-5	05/17/1997	7.69	6.95	---	0.74	80	---	0.56	ND<1.0	ND<1.0	ND<1.0	46	---	---	---	6.7	SPL
MW-5	08/11/1997	7.69	6.72	---	0.97	2700	---	20	12	6.7	9.7	1900	---	---	---	8.5	SPL
MW-5	11/17/1997	7.69	9.49	---	-1.80	8400	---	25	12	8.7	5.4	13000	---	---	---	7.9	SPL
MW-5	01/29/1998	7.69	7.88	---	-0.19	110000	---	2500	110	180	589	180000	---	---	---	6.8	SPL
MW-5	06/22/1998	7.69	7.40	---	0.29	4400	---	47	10	29	20.5	47	---	---	---	6.6	SPL
MW-5	12/30/1998	7.69	6.13	---	1.56	6000	---	18	9.1	22	16	63/44	(f)	---	---	---	SPL
MW-5	03/09/1999	7.69	4.79	---	2.90	4600	---	8.8	5.5	12	11	24	---	---	---	---	SPL
MW-5	06/23/1999	7.69	5.95	---	1.74	3400	---	1500	8.9	54	87	7500	---	---	---	---	SPL
MW-5	09/23/1999	7.69	5.43	---	2.26	2600	---	510	14	140	650	580	---	---	---	---	SPL
MW-5	12/28/1999	7.69	5.30	---	2.39	3500	---	900	18	57	140	4800	---	---	---	---	PACE
MW-5 (h)	03/22/2000	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (h)	05/26/2000	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (h)	09/06/2000	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (h)	09/15/2000	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (h)	12/11/2000	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (h)	03/29/2001	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (j)	06/27/2001	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (j)	09/19/2001	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	12/28/2001	7.69	4.65	---	3.04	4600	---	19.9	24.6	16.2	57	72.3	---	---	---	---	PACE
MW-5	03/12/2002	7.69	5.35	---	2.34	5100	---	45.4	13.7	22	38.9	31.6	---	---	---	---	PACE
MW-5	06/13/2002	7.69	5.34	---	2.35	2900	---	31.8	ND<12.5	ND<12.5	ND<25	616	---	---	---	---	PACE
MW-5	09/06/2002	7.69	5.46	---	2.23	3400	---	23	5.5	ND<5.0	11	230	---	---	---	---	SEQ
MW-5 (o)	12/13/2002	7.69	5.47	---	2.22	2500	---	12	9.3	4.6	8.8	110	---	---	---	---	SEQ
MW-5 (p)	02/19/2003	7.69	5.29	---	2.40	2800	---	11	5.4	9.7	12	6.4	---	---	---	---	SEQ

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11126  
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB	
MW-6	10/12/1993	8.52	6.59	---	1.93	63	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	44.4	(k)	---	---	---	PACE
MW-6	02/15/1994	8.52	6.31	---	2.21	68	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	38.1	(d)(k)	---	---	3.1	PACE
MW-6	05/11/1994	8.52	6.15	---	2.37	68	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	48.5	(d)(k)	---	---	8.7	PACE
MW-6	08/01/1994	8.52	6.46	---	2.06	91	---	ND<0.5	ND<0.5	ND<0.5	0.6	59.6	(k)	---	---	2.4	PACE
MW-6	10/18/1994	8.52	6.72	---	1.80	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	84.6	(k)	---	---	6.0	PACE
MW-6	01/13/1995	8.52	5.95	---	2.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	7.0	ATI
MW-6	04/13/1995	8.52	5.44	---	3.08	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	8.5	ATI
MW-6	07/11/1995	8.52	5.68	---	2.84	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	8.4	ATI
MW-6	11/02/1995	8.52	6.57	---	1.95	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	35	---	---	---	8.3	ATI
MW-6	02/05/1996	8.52	6.27	---	2.25	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100	---	---	---	2.2	SPL
MW-6	04/24/1996	8.52	5.95	---	2.57	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	62	---	---	---	8.0	SPL
MW-6	07/15/1996	8.52	6.39	---	2.13	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50	---	---	---	8.0	SPL
MW-6	07/30/1996	8.52	6.44	---	2.08	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	11/04/1996	8.52	8.05	---	0.47	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	11/05/1996	8.52	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.3	SPL
MW-6	05/17/1997	8.52	6.75	---	1.77	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	08/11/1997	8.52	6.48	---	2.04	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	11/17/1997	8.52	9.27	---	-0.75	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.7	SPL
MW-6	01/29/1998	8.52	7.98	---	0.54	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	06/22/1998	8.52	7.68	---	0.84	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/30/1998	8.52	6.98	---	1.54	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	03/09/1999	8.52	5.90	---	2.62	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	06/23/1999	8.52	6.93	---	1.59	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	09/23/1999	8.52	6.45	---	2.07	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/28/1999	8.52	6.33	---	2.19	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	03/22/2000	8.52	5.15	---	3.37	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	05/26/2000	8.52	5.72	---	2.80	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	09/15/2000	8.52	6.02	---	2.50	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/11/2000	8.52	6.20	---	2.32	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	03/29/2001	8.52	5.34	---	3.18	750	---	ND<2.5	2.91	ND<2.5	11.8	820	---	---	---	---	PACE
MW-6	06/27/2001	8.52	6.00	---	2.52	760	---	32.9	ND<2.5	ND<2.5	ND<7.5	968	---	---	---	---	PACE
MW-6	09/19/2001	8.52	6.22	---	2.30	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<15	879	---	---	---	---	PACE
MW-6 (n)	12/28/2001	8.52	4.71	---	3.81	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	03/12/2002	8.52	4.96	---	3.56	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<10	244	---	---	---	---	PACE
MW-6	6/13/2002*	8.52	5.78	---	2.74	ND<250	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	413	---	---	---	---	PACE
MW-6	09/06/2002	8.52	6.14	---	2.38	130	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	240	---	---	---	---	SEQ
MW-6 (o)	12/13/2002	8.52	6.05	---	2.47	140	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	200	---	---	---	---	SEQ
MW-6 (p)	02/19/2003	8.52	5.40	---	3.12	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	150	---	---	---	---	SEQ

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11126  
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB	
MW-7	10/12/1993	7.61	6.14	---	1.47	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.7	ND<5.0	(k)	---	---	---	PACE
MW-7	02/15/1994	7.61	5.88	---	1.73	78	---	ND<0.5	ND<0.5	ND<0.5	0.6	ND<5.0	(k)	---	---	4.0	PACE
MW-7	05/11/1994	7.61	5.76	---	1.85	70	---	ND<0.5	ND<0.5	ND<0.5	0.9	11.5	(k)	---	---	9.1	PACE
MW-7	08/01/1994	7.61	5.97	---	1.64	77	---	ND<0.5	ND<0.5	ND<0.5	0.5	182	(k)	---	---	2.5	PACE
MW-7	10/18/1994	7.61	6.24	---	1.37	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	51.7	(k)	---	---	6.3	PACE
MW-7	01/13/1995	7.61	5.39	---	2.22	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	8.2	ATI
MW-7	04/13/1995	7.61	5.17	---	2.44	63	---	ND<0.5	ND<0.5	ND<0.5	1.4	---	---	---	---	8.4	ATI
MW-7	07/11/1995	7.61	5.25	---	2.36	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	7.9	ATI
MW-7	11/02/1995	7.61	6.19	---	1.42	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	55	---	---	---	8.0	ATI
MW-7	02/05/1996	7.61	5.69	---	1.92	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	40	---	---	---	1.9	SPL
MW-7	04/24/1996	7.61	5.59	---	2.02	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	53	---	---	---	8.2	SPL
MW-7	07/15/1996	7.61	6.07	---	1.54	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50	---	---	---	7.8	SPL
MW-7	07/30/1996	7.61	6.04	---	1.57	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	11/04/1996	7.61	7.76	---	-0.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	11/05/1996	7.61	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.8	SPL
MW-7	05/17/1997	7.61	6.42	---	1.19	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	08/11/1997	7.61	6.06	---	1.55	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	11/17/1997	7.61	9.07	---	-1.46	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.1	SPL
MW-7	01/29/1998	7.61	7.44	---	0.17	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	06/22/1998	7.61	7.39	---	0.22	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	12/30/1998	7.61	5.51	---	2.10	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	03/09/1999	7.61	5.57	---	2.04	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	06/23/1999	7.61	6.69	---	0.92	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	09/23/1999	7.61	6.23	---	1.38	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	12/28/1999	7.61	6.08	---	1.53	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	03/22/2000	7.61	4.88	---	2.73	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	05/26/2000	7.61	5.42	---	2.19	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	09/15/2000	7.61	5.79	---	1.82	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	12/11/2000	7.61	5.93	---	1.68	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	03/29/2001	7.61	5.24	---	2.37	600	---	ND<2.5	ND<2.5	ND<2.5	ND<7.5	636	---	---	---	---	PACE
MW-7	06/27/2001	7.61	5.69	---	1.92	590	---	ND<2.5	ND<2.5	ND<2.5	ND<7.5	739	---	---	---	---	PACE
MW-7	09/19/2001	7.61	5.89	---	1.72	560	---	ND<5.0	ND<5.0	ND<5.0	ND<15	1190	---	---	---	---	PACE
MW-7	12/28/2001	7.61	4.53	---	3.08	910	---	22.7	ND<2.5	ND<2.5	ND<5.0	856	---	---	---	---	PACE
MW-7	03/12/2002	7.61	4.71	---	2.90	620	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	675	---	---	---	---	PACE
MW-7	6/13/2002*	7.61	5.21	---	2.40	860	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	1470	---	---	---	---	PACE
MW-7	09/06/2002	7.61	5.77	---	1.84	350	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	690	---	---	---	---	SEQ
MW-7 (o)	12/13/2002	7.61	5.65	---	1.96	1300	---	ND<10	ND<10	ND<10	ND<10	1800	---	---	---	---	SEQ
MW-7 (p)	02/19/2003	7.61	5.07	---	2.54	1700	---	ND<10	ND<10	ND<10	ND<10	1600	---	---	---	---	SEQ

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Service Station #11126**  
**1700 Powell Street, Emeryville, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB	
MW-8	10/12/1993	8.60	5.86	---	2.74	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11.1	(k)	---	---	---	PACE
MW-8	02/15/1994	8.60	5.50	---	3.10	380	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	---	3.3	PACE
MW-8	05/11/1994	8.60	5.09	---	3.51	330	---	ND<0.5	1.2	ND<0.5	1.9	ND<5.0	(k)	---	---	8.5	PACE
MW-8	08/01/1994	8.60	5.20	---	3.40	260	---	ND<0.5	1.2	2.9	5.8	ND<5.0	(k)	---	---	2.3	PACE
MW-8	10/18/1994	8.60	5.70	---	2.90	82	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	---	6.4	PACE
MW-8	01/13/1995	8.60	4.96	---	3.64	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	6.9	ATI
MW-8	04/13/1995	8.60	5.40	---	3.20	270	---	ND<0.5	ND<0.5	ND<0.5	4.4	---	---	---	---	8.4	ATI
MW-8	07/11/1995	8.60	6.01	---	2.59	320	---	ND<0.50	ND<0.50	ND<0.50	3.5	---	---	---	---	8.0	ATI
MW-8	11/02/1995	8.60	6.81	---	1.79	100	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	8.7	ATI
MW-8	02/05/1996	8.60	6.12	---	2.48	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100	---	---	---	1.5	SPL
MW-8	04/24/1996	8.60	6.23	---	2.37	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100	---	---	---	8.7	SPL
MW-8	07/15/1996	8.60	6.70	---	1.90	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50	---	---	---	8.4	SPL
MW-8	07/30/1996	8.60	6.64	---	1.96	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/04/1996	8.60	8.36	---	0.24	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/05/1996	8.60	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.2	SPL
MW-8	05/17/1997	8.60	7.03	---	1.57	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	08/11/1997	8.60	6.05	---	2.55	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/17/1997	8.60	9.14	---	-0.54	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.7	SPL
MW-8	01/29/1998	8.60	7.90	---	0.70	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	06/22/1998	8.60	7.72	---	0.88	---	---	---	---	---	---	---	---	---	---	---	---
MW-8 (h)	12/30/1998	8.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8 (h)	03/09/1999	8.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	06/23/1999	8.60	4.70	---	3.90	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	09/23/1999	8.60	4.22	---	4.38	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	12/28/1999	8.60	4.12	---	4.48	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	03/22/2000	8.60	4.71	---	3.89	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	05/26/2000	8.60	4.98	---	3.62	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	09/15/2000	8.60	4.62	---	3.98	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	12/11/2000	8.60	4.77	---	3.83	---	---	---	---	---	---	---	---	---	---	---	---
MW-8 (h)	03/29/2001	8.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	06/27/2001	8.60	5.11	---	3.49	570	---	ND<2.5	ND<2.5	2.58	ND<7.5	3.43	---	---	---	---	PACE
MW-8	09/19/2001	8.60	5.00	---	3.60	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<15	ND<5.0	---	---	---	---	PACE
MW-8	12/28/2001	8.60	4.15	---	4.45	440	---	ND<0.5	ND<0.5	0.975	ND<1.0	6.27	---	---	---	---	PACE
MW-8	03/12/2002	8.60	4.35	---	4.25	330	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	8.69	---	---	---	---	PACE
MW-8	6/13/2002*	8.60	5.09	---	3.51	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<10	16.4	---	---	---	---	PACE
MW-8	09/06/2002	8.60	5.18	---	3.42	98	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	76	---	---	---	---	SEQ
MW-8 (o)	12/13/2002	8.60	4.84	---	3.76	120	---	ND<0.5	ND<0.5	0.94	0.52	140	---	---	---	---	SEQ
MW-8 (p)	02/19/2003	8.60	4.45	---	4.15	ND<2500	---	ND<25	ND<25	ND<25	ND<25	800	---	---	---	---	SEQ

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Service Station #11126**  
**1700 Powell Street, Emeryville, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-9	10/12/1993	8.08	5.66	0.08	2.48	---	---	---	---	---	---	---	---	---	---	---
MW-9	02/15/1994	8.08	5.32	0.05	2.80	---	---	---	---	---	---	---	---	---	---	---
MW-9	05/11/1994	8.08	5.57	---	2.51	---	---	---	---	---	---	---	---	---	---	---
MW-9	08/01/1994	8.08	6.25	---	1.83	---	---	---	---	---	---	---	---	---	---	---
MW-9	10/18/1994	8.08	5.59	0.13	2.59	---	---	---	---	---	---	---	---	---	---	---
MW-9	01/13/1995	8.08	4.42	0.14	3.77	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/13/1995	8.08	4.06	0.11	4.10	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/11/1995	8.08	4.21	0.08	3.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/02/1995	8.08	5.22	0.05	2.90	---	---	---	---	---	---	---	---	---	---	---
MW-9	02/05/1996	8.08	4.76	0.01	3.33	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/24/1996	8.08	4.62	0.09	3.53	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/15/1996	8.08	5.11	0.04	3.00	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/30/1996	8.08	5.15	---	2.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/04/1996	8.08	6.75	0.01	1.34	---	---	---	---	---	---	---	---	---	---	---
MW-9	05/17/1997	8.08	5.42	---	2.66	97000	---	16000	7700	2300	18400	40000	---	---	7.0	SPL
QC-1 (e)	05/17/1997	---	---	---	---	97000	---	16000	8200	2300	17300	39000	---	---	---	SPL
MW-9	08/11/1997	8.08	5.37	---	2.71	71000	---	12000	340	2100	4300	26000	---	---	9.1	SPL
QC-1 (e)	08/11/1997	---	---	---	---	100000	---	14000	360	3200	5790	27000	---	---	---	SPL
MW-9	11/17/1997	8.08	5.62	Sheen	2.46	100000	---	22000	4800	3100	17900	32000	---	---	8.3	SPL
QC-1 (e)	11/17/1997	---	---	---	---	100000	---	24000	5300	3500	19300	35000	---	---	---	SPL
MW-9	01/29/1998	8.08	4.07	Sheen	4.01	250000	---	20000	21000	3100	18500	110000	---	---	6.6	SPL
QC-1 (e)	01/29/1998	---	---	---	---	250000	---	20000	20000	3100	18400	110000	---	---	---	SPL
MW-9	06/22/1998	8.08	4.28	---	3.80	280000	---	21000	18000	3800	21200	110000	---	---	5.8	SPL
QC-1 (e)	06/22/1998	---	---	---	---	290000	---	20000	17000	3800	21200	110000	---	---	---	SPL
MW-9	12/30/1998	8.08	4.95	---	3.13	150000	---	10000	3800	2000	9600	86000/89000 (f)	---	---	---	SPL
MW-9	03/09/1999	8.08	3.95	---	4.13	82000	---	6800	570	1400	4700	100000	---	---	---	SPL
MW-9	06/23/1999	8.08	5.12	---	2.96	41000	---	11000	820	2300	5200	92000	---	---	---	SPL
MW-9	09/23/1999	8.08	4.74	---	3.34	57000	---	12000	5400	1900	9500	89000	---	---	---	SPL
MW-9	12/28/1999	8.08	4.58	---	3.50	46000	---	15000	490	2500	3500	100000	---	---	---	PACE
MW-9	03/22/2000	8.08	3.90	---	4.18	86000	---	18000	1800	2300	6800	120000	---	---	---	PACE
MW-9	05/26/2000	8.08	4.15	---	3.93	82000	---	17000	680	1800	3800	100000	---	---	---	PACE
MW-9	09/06/2000	8.08	4.47	---	3.61	100000	---	19000	280	2400	6400	84000	---	---	---	PACE
MW-9	09/15/2000	8.08	4.34	---	3.74	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/11/2000	8.08	4.41	---	3.67	110000	---	14400	768	2610	6670	123000	---	---	---	PACE
MW-9 (h)	03/29/2001	8.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (m)	06/26/2001	8.08	5.03	0.13	3.15 (l)	---	---	---	---	---	---	---	---	---	---	---
MW-9 (m)	09/19/2001	8.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/28/2001	8.08	3.73	---	4.35	110000	---	15000	1500	2280	5530	60900	---	---	---	PACE
MW-9	03/12/2002	8.08	4.93	---	3.15	88000	---	12500	2600	2800	8950	44000	---	---	---	PACE
MW-9	6/13/2002*	8.08	4.13	---	3.95	59000	---	9870	161	2560	5560	35600	---	---	---	PACE
MW-9	09/06/2002	8.08	4.39	---	3.69	47000	---	10000	ND<100	2100	4600	31000	---	---	---	SEQ
MW-9 (o)	12/13/2002	8.08	3.97	---	4.11	57000	---	11000	1000	2300	5800	28000	---	---	---	SEQ
MW-9 (p)	02/19/2003	8.08	3.25	---	4.83	76000	---	10000	2100	3000	8900	11000	---	---	---	SEQ

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Former BP Service Station #11126  
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
QC-2 (g)	11/05/1992	--	--	---	---	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
QC-2 (g)	10/12/1993	--	--	---	---	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
QC-2 (g)	02/15/1994	--	--	---	---	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	--	--	--	PACE
QC-2 (g)	05/11/1994	---	---	---	---	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	--	--	PACE
QC-2 (g)	08/01/1994	--	--	---	---	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
QC-2 (g)	10/18/1994	--	--	---	---	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
QC-2 (g)	01/13/1995	---	---	---	---	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	--	--	ATI
QC-2 (g)	04/13/1995	---	---	---	---	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	---	--	--	ATI
QC-2 (g)	07/11/1995	--	--	---	---	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	--	--	ATI
QC-2 (g)	11/02/1995	--	--	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	--	--	--	ATI
QC-2 (g)	02/05/1996	--	--	---	---	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	ND<10	--	--	--	SPL
QC-2 (g)	04/24/1996	--	--	---	---	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	ND<10	--	--	--	SPL
QC-2 (g)	07/16/1996	---	---	---	---	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	ND<10	--	--	--	SPL



**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11126  
1700 Powell Street, Emeryville, CA

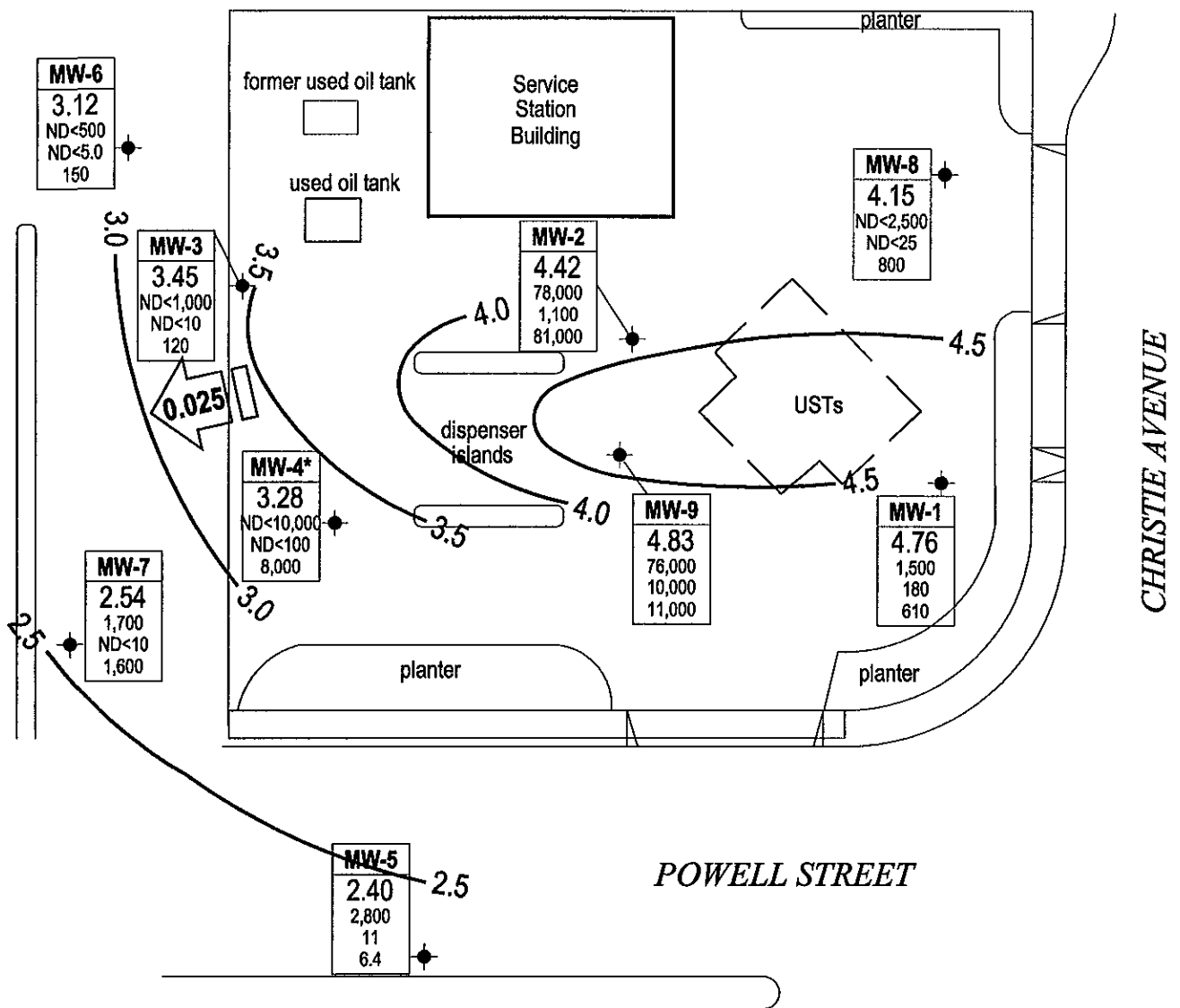
ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline  
TPH-D Total petroleum hydrocarbons as diesel  
B Benzene  
T Toluene  
E Ethylbenzene  
X Total xylenes  
MTBE Methyl tert butyl ether  
TOG Total oil and grease  
HVOC Halogenated volatile organic compounds  
DO Dissolved oxygen  
ug/L Micrograms per liter  
ppm Parts per million  
ND Not detected above reported detection limit  
--- Not analyzed/applicable/measurable  
PACE Pace, Inc.  
ATI Analytical Technologies, Inc.  
SPL Southern Petroleum Laboratories  
SEQ Sequoia Analytical  
TOC Top of Casing  
DTW Depth to Water  
GWE Groundwater Elevation

NOTES:

- (a) Top of casing elevations surveyed relative to an established benchmark with an elevation of 8.11 feet above mean sea level.
  - (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
  - (c) Detection limits vary; see laboratory report.
  - (d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-061-07-004.
  - (e) Blind duplicate.
  - (f) EPA Methods 8020/8260 used.
  - (g) Travel blank.
  - (h) Inaccessible.
  - (i) Depth to water anomalous; groundwater elevation not used in contouring.
  - (j) Well paved over.
  - (k) A copy of the documentation for this data can be found in Blaine Tech Services report 010627-Z-1. MTBE data for the November 4, 1992 sampling event has been destroyed. No chromatograms could be located for MTBE data from well MW-5, sampled on October 12, 1993.
  - (l) Groundwater elevation is an estimate.
  - (m) Not sampled due to nature of SPH.
  - (n) Unable to sample.
  - (o) EPA Methods 8015B / 8021B used.
  - (p) EPA Method 8260B used for TPHg and VOCs
- \* 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 BP Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.



**EXPLANATION**

- Monitoring well location
- 2.5 — Groundwater elevation contour (ft above MSL)
- |         |
|---------|
| Well    |
| ELEV    |
| TPH-g   |
| Benzene |
| MTBE    |

 Well designation
- |         |
|---------|
| ELEV    |
| TPH-g   |
| Benzene |
| MTBE    |

 Groundwater elevation (ft above MSL)
- |         |
|---------|
| TPH-g   |
| Benzene |
| MTBE    |

 TPH-g, Benzene and MTBE concentrations in micrograms per liter (µg/L)
- ND< Not detected at or above laboratory reporting limits
- \* Groundwater data not used in contouring
- Groundwater flow direction and gradient (ft/ft)



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



Project No. 38486245  
 Former BP Service Station #11126  
 1700 Powell Street  
 Emeryville, California

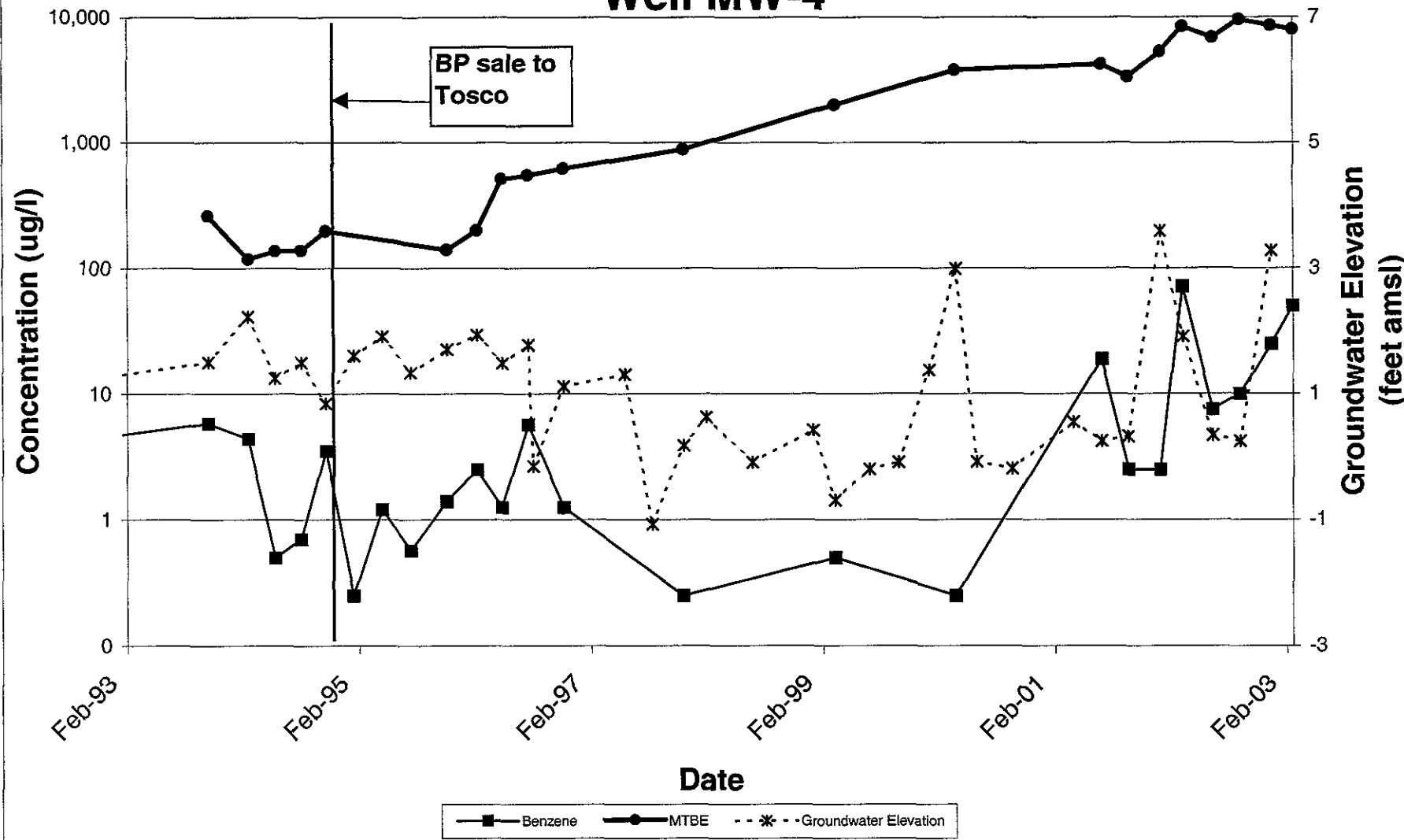
**GROUNDWATER ELEVATION CONTOUR  
 AND ANALYTICAL SUMMARY MAP**  
 First Quarter 2003 (February 19, 2003)

FIGURE  
 1

**ATTACHMENT A**

**CONCENTRATION AND WATER LEVEL TRENDS (MW-4)**

# Concentration and Water Level Trends Well MW-4



**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 # 030219-SS1 Date 2/17/07 Client 11129

Site 1700 POWELL ST. EMERYVILLE

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	UNCAP PRIOR TO GAUGE. STABILIZE.				3.00	11.27	↓
MW-2	2					4.14	11.88	
MW-3	2					4.80	11.86	
MW-4	2	UNCAP TO STABILIZE.				4.84	10.94	
MW-5	2	<del>UNCAP TO STABILIZE.</del>				5.29	12.88	
MW-6	2					5.40	13.45	
MW-7	2					5.07	13.91	
MW-8	2					<del>5.07</del> 4.45	13.77	
MW-9	4					3.25	13.72	

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030219-SS1</u>	Station # <u>11126</u>
Sampler: <u>500CH</u>	Date: <u>2/19/03</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>11.27</u>	Depth to Water: <u>3.00</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: Bailer      Sampling Method: Bailer  
Disposable Bailer      Disposable Bailer  
 Middleburg      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.

<u>1.3</u>	X	<u>3</u>	=	<u>3.9</u>	Gals.
1 Cuse Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1120	61.6	6.8	2105	1.3	CLEAR
1122	62.3	6.8	2183	2.6	"
1124	62.5	6.8	2165	4.0	SLIGHTLY TURBID

Did well dewater? Yes  No       Gallons actually evacuated: 4

Sampling Time: 1126      Sampling Date: 2/19/03

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

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

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



## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030219-551</u>	Station # <u>11126</u>
Sampler: <u>Sooct</u>	Date: <u>2/19/03</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>11.86</u>	Depth to Water: <u>4.14</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: Bailer  
Disposable Bailer  
 Middleburg  
 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.

<u>1.2</u>	x	<u>3</u>	=	<u>3.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>(µS)</u> )	Gals. Removed	Observations
<u>1210</u>	<u>63.9</u>	<u>6.8</u>	<u>2114</u>	<u>1.2</u>	<u>GREY/CONDY/GAS ODOR</u>
<u>1212</u>	<u>63.9</u>	<u>6.8</u>	<u>2162</u>	<u>2.4</u>	" " "
<u>1214</u>	<u>64.2</u>	<u>6.9</u>	<u>2260</u>	<u>3.6</u>	" " "

Did well dewater? Yes No Gallons actually evacuated: 3.6

Sampling Time: 1216 Sampling Date: 2/19/03

Sample I.D.: MW-2 Laboratory: Pace Sequoia Other \_\_\_\_\_

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

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030219-551</u>	Station # <u>11126</u>
Sampler: <u>Sooct</u>	Date: <u>2/19/03</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>11.84</u>	Depth to Water: <u>4.80</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: Bailer      Sampling Method: Bailer  
Disposable Bailer      Disposable Bailer  
 Middleburg      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.

<u>1.1</u>	x	<u>3</u>	=	<u>3.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
<u>1135</u>	<u>63.3</u>	<u>7.1</u>	<u>1292</u>	<u>1.1</u>	<u>CLEAR w/ BLACK PARTICULATES</u>
<u>1137</u>	<u>63.4</u>	<u>7.0</u>	<u>1173</u>	<u>2.2</u>	<u>TURBID</u>
<u>1139</u>	<u>63.6</u>	<u>7.0</u>	<u>1154</u>	<u>3.5</u>	<u>"</u>

Did well dewater? Yes  No  Gallons actually evacuated: 3.5

Sampling Time: 1142      Sampling Date: 2/19/03

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

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

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>030219-551</u>	Station # <u>11126</u>
Sampler: <u>good</u>	Date: <u>2/19/03</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>10.94</u>	Depth to Water: <u>4.84</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:

- Bailer
- Disposable Bailer
- Middleburg
- 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.

1	X	3	=	3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
1107	64.7	7.3	2386	1	CLEAR
WEN	DEWATERED @ 1 gal.				DNW = 9.45
1245	65.5	7.0	2582	—	DNW = 5.15

Did well dewater?  Yes  No      Gallons actually evacuated: 1

Sampling Time: 1245      Sampling Date: 2/19/03

Sample I.D.: MW-4      Laboratory: Pace Sequoia Other: \_\_\_\_\_

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

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030219-551</u>	Station # <u>11126</u>
Sampler: <u>Sooch</u>	Date: <u>2/19/03</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>12.86</u>	Depth to Water: <u>5.29</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: Bailer  
Disposable Bailer  
 Middleburg  
 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.

<u>1.2</u>	X	<u>3</u>	=	<u>3.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
1010	61.3	6.4	1057	1.2	TURBID / GAS ODOR
1012	62.0	6.5	975	2.4	" "
1014	62.2	6.5	905	3.6	" "

Did well dewater? Yes  No  Gallons actually evacuated: 3.6

Sampling Time: 1016 Sampling Date: 2/19/03

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

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

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030219-SS1</u>	Station # <u>11126</u>
Sampler: <u>SOOCH</u>	Date: <u>2/19/03</u>
Well I.D.: <u>NW-6</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>13.45</u>	Depth to Water: <u>5.40</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: Bailer  
Disposable Bailer  
 Middleburg  
 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.

<u>1.3</u>	x	<u>3</u>	=	<u>3.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
1045	66.1	7.1	2177	1.3	GPET
1047	65.9	7.2	2029	2.6	"
1049	65.8	7.2	1850	4.0	TWBEW

Did well dewater? Yes  No  Gallons actually evacuated: 4

Sampling Time: 1052 Sampling Date: 2/19/03

Sample I.D.: NW-6 Laboratory: Pace Sequoia Other \_\_\_\_\_

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

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030219-551</u>	Station # <u>11126</u>
Sampler: <u>SOOCH</u>	Date: <u>2/19/03</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>(3.9)</u>	Depth to Water: <u>5.07</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: Bailer      Sampling Method: Bailer  
Disposable Bailer      Disposable Bailer  
 Middleburg      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.

<u>1.4</u>	x	<u>3</u>	=	<u>4.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
<u>1030</u>	<u>65.4</u>	<u>7.0</u>	<u>2295</u>	<u>1.5</u>	<u>GREY</u>
<u>1032</u>	<u>65.9</u>	<u>7.1</u>	<u>2142</u>	<u>3.0</u>	''
<u>1034</u>	<u>66.0</u>	<u>7.1</u>	<u>2078</u>	<u>4.5</u>	''

Did well dewater? Yes  No  Gallons actually evacuated: 4.5

Sampling Time: 1036      Sampling Date: 2/19/03

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

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

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030219-551</u>	Station # <u>11126</u>
Sampler: <u>Sooch</u>	Date: <u>2/19/03</u>
Well I.D.: <u>MW-8</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>13.77</u>	Depth to Water: <u>4.45</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: Bailer      Sampling Method: Bailer  
Disposable Bailer      Disposable Bailer  
 Middleburg      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.

<u>1.5</u>	x	<u>3</u>	=	<u>4.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
1235	65.6	6.8	2351	1.5	<u>clear</u>
1238	65.8	6.9	2348	3.0	"
1241	66.3	6.9	2444	4.5	"

Did well dewater? Yes  No  Gallons actually evacuated: 4.5

Sampling Time: 1244      Sampling Date: 2/19/03

Sample I.D.: MW-8      Laboratory: Pace Sequoia Other \_\_\_\_\_

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

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






# Chain of Custody Record

Project Name BP#11126  
 BP BU/GEM CO Portfolio: \_\_\_\_\_  
 BP Laboratory Contract Number: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy) \_\_\_\_\_

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

BP/GEM Facility No.:	BP/GEM Facility Address: 1700 POWELL ST., EMERYVILLE, CA	Consultant/Contractor: URS
Site ID No. 11126	Site Lat/Long:	Address: 500 12th St, Ste. 200 Oakland, CA 94609-4014
95037	California Global ID #: T0600100208	e-mail EDD: syed_rehan@urscorp.com
	BP/GEM PM Contact: Scott Hooton	Consultant/Contractor Project No.:
8-782-6308	Address: 295 SW 41st St., Bldg. 13 Ste N	Consultant Tele/Fax: 510-874-1720 / 510-874-3268
IDF Reports	Renton, WA 98055	Consultant/Contractor PM: Leonard Niles
1124	Tele/Fax: 425-251-0689/425-251-0736	Invoice to: Consultant/Contractor or <u>BP/GEM</u> (Circle one)
		BP/GEM Work Release No:

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 / BYEX (8015 / 8021)	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE	DIPE, TBA (8260)	1,2-DCA & EDB (8260)		TOG
1126	X				6			X			X	X							
1216	X				6			X			X	X							
1142	X				10	X		X			X	X				X			
1245	X				6			X			X	X							
1016	X				6			X			X	X							
1052	X				6			X			X	X							
1036	X				6			X			X	X							
1244	X				6			X			X	X							
1250	X				6			X			X	X							

<b>N SUNG</b>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
<b>S. TERT</b>						

Invoice to BP/GEM but send to URS for approval

No \_\_\_\_\_ Temperature Blank Yes \_\_\_\_\_ No \_\_\_\_\_ Cooler Temperature on Receipt \_\_\_\_\_ °F/C \_\_\_\_\_ Trip Blank Yes \_\_\_\_\_ No \_\_\_\_\_

**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:

11126

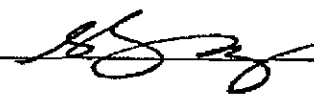
Station #

1700 POWER ST. EMERYVILLE

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

---

added equip. rinse water _____	any other adjustments _____
<b>TOTAL GALS. RECOVERED</b> <u>36</u>	loaded onto BTS vehicle # <u>48</u>
BTS event # <u>030219-551</u>	time                      date <u>1300</u> <u>2/19/03</u>
signature <u></u>	

\*\*\*\*\*

REC'D AT _____	time _____	date <u>  /  /  </u>
----------------	------------	----------------------

unloaded by \_\_\_\_\_

signature \_\_\_\_\_

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

## **LABORATORY PROCEDURES**

---

### **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 Group Environmental Management Company have been reviewed and verified by that laboratory.



18 March, 2003

Leonard Niles  
URS Corporation  
500 12th Street, Suite 100  
Oakland, CA 94607

RE: BP Heritage Site #11126, Emeryville, CA  
Sequoia Work Order: MMB0643

Enclosed are the results of analyses for samples received by the laboratory on 02/20/03 16:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt  
Project Manager

CA ELAP Certificate #1210



URS Corporation  
500 12th Street, Suite 100  
Oakland CA, 94607

Project: BP Heritage Site #11126, Emeryville, CA  
Project Number: BP Heritage Site #11126, Emeryville, CA  
Project Manager: Leonard Niles

MMB0643  
**Reported:**  
03/18/03 14:12

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMB0643-01	Water	02/19/03 11:26	02/20/03 16:05
MW-2	MMB0643-02	Water	02/19/03 12:16	02/20/03 16:05
MW-3	MMB0643-03	Water	02/19/03 11:42	02/20/03 16:05
MW-4	MMB0643-04	Water	02/19/03 12:45	02/20/03 16:05
MW-5	MMB0643-05	Water	02/19/03 10:16	02/20/03 16:05
MW-6	MMB0643-06	Water	02/19/03 10:52	02/20/03 16:05
MW-7	MMB0643-07	Water	02/19/03 10:36	02/20/03 16:05
MW-8	MMB0643-08	Water	02/19/03 12:44	02/20/03 16:05
MW-9	MMB0643-09	Water	02/19/03 12:50	02/20/03 16:05



URS Corporation  
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Project: BP Heritage Site #11126, Emeryville, CA  
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Project Manager: Leonard Niles

MMB0643  
Reported:  
03/18/03 14:12

**Total Purgeable Hydrocarbons (C6-C10) and 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 (MMB0643-01) Water</b> Sampled: 02/19/03 11:26 Received: 02/20/03 16:05									
Methyl tert-butyl ether	610	5.0	ug/l	10	3C01012	03/01/03	03/01/03	EPA 8260B	
Benzene	180	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	15	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	1500	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	78-129		"	"	"	"	
<b>MW-2 (MMB0643-02) Water</b> Sampled: 02/19/03 12:16 Received: 02/20/03 16:05									
Methyl tert-butyl ether	81000	500	ug/l	1000	3C01012	03/01/03	03/01/03	EPA 8260B	
Benzene	1100	500	"	"	"	"	"	"	
Toluene	ND	500	"	"	"	"	"	"	
Ethylbenzene	ND	500	"	"	"	"	"	"	
Xylenes (total)	ND	500	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	78000	50000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	78-129		"	"	"	"	
<b>MW-3 (MMB0643-03) Water</b> Sampled: 02/19/03 11:42 Received: 02/20/03 16:05									
Methyl tert-butyl ether	120	10	ug/l	20	3C01012	03/01/03	03/01/03	EPA 8260B	
Benzene	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	1000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	78-129		"	"	"	"	



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Project: BP Heritage Site #11126, Emeryville, CA  
Project Number: BP Heritage Site #11126, Emeryville, CA  
Project Manager: Leonard Niles

MMB0643  
Reported:  
03/18/03 14:12

**Total Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-4 (MMB0643-04) Water Sampled: 02/19/03 12:45 Received: 02/20/03 16:05</b>									
Methyl tert-butyl ether	8000	100	ug/l	200	3C01012	03/01/03	03/01/03	EPA 8260B	
Benzene	ND	100	"	"	"	"	"	"	
Toluene	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	100	"	"	"	"	"	"	
Xylenes (total)	ND	100	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	10000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	78-129		"	"	"	"	
<b>MW-5 (MMB0643-05) Water Sampled: 02/19/03 10:16 Received: 02/20/03 16:05</b>									
Methyl tert-butyl ether	6.4	5.0	ug/l	10	3C01012	03/01/03	03/01/03	EPA 8260B	
Benzene	11	5.0	"	"	"	"	"	"	
Toluene	5.4	5.0	"	"	"	"	"	"	
Ethylbenzene	9.7	5.0	"	"	"	"	"	"	
Xylenes (total)	12	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	2800	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	78-129		"	"	"	"	
<b>MW-6 (MMB0643-06) Water Sampled: 02/19/03 10:52 Received: 02/20/03 16:05</b>									
Methyl tert-butyl ether	150	5.0	ug/l	10	3C01012	03/01/03	03/01/03	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	78-129		"	"	"	"	





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Project Number: BP Heritage Site #11126, Emeryville, CA  
Project Manager: Leonard Niles

MMB0643  
Reported:  
03/18/03 14:12

**Total Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-7 (MMB0643-07) Water</b> <b>Sampled: 02/19/03 10:36</b> <b>Received: 02/20/03 16:05</b>									
Methyl tert-butyl ether	1600	10	ug/l	20	3C01012	03/01/03	03/01/03	EPA 8260B	
Benzene	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<b>Gasoline Range Organics (C6-C10)</b>	<b>1700</b>	<b>1000</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	78-129		"	"	"	"	
<b>MW-8 (MMB0643-08) Water</b> <b>Sampled: 02/19/03 12:44</b> <b>Received: 02/20/03 16:05</b>									
Methyl tert-butyl ether	800	25	ug/l	50	3C05009	03/05/03	03/05/03	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
<b>Gasoline Range Organics (C6-C10)</b>	<b>ND</b>	<b>2500</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	78-129		"	"	"	"	
<b>MW-9 (MMB0643-09) Water</b> <b>Sampled: 02/19/03 12:50</b> <b>Received: 02/20/03 16:05</b>									
Methyl tert-butyl ether	11000	500	ug/l	1000	3C05009	03/05/03	03/05/03	EPA 8260B	
<b>Benzene</b>	<b>10000</b>	<b>500</b>	"	"	"	"	"	"	
<b>Toluene</b>	<b>2100</b>	<b>500</b>	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3000</b>	<b>500</b>	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>8900</b>	<b>500</b>	"	"	"	"	"	"	
<b>Gasoline Range Organics (C6-C10)</b>	<b>76000</b>	<b>50000</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	78-129		"	"	"	"	



URS Corporation  
500 12th Street, Suite 100  
Oakland CA, 94607

Project: BP Heritage Site #11126, Emeryville, CA  
Project Number: BP Heritage Site #11126, Emeryville, CA  
Project Manager: Leonard Niles

MMB0643  
**Reported:**  
03/18/03 14:12

**Diesel Hydrocarbons (C10-C28) by EPA 8015B modified  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-3 (MMB0643-03) Water</b> <b>Sampled: 02/19/03 11:42</b> <b>Received: 02/20/03 16:05</b>									
<b>Diesel Range Organics (C10-C28)</b>	<b>380</b>	<b>48</b>	ug/l	1	3B24039	02/24/03	02/25/03	8015Bm	HC-12
<i>Surrogate: n-Octacosane</i>		103 %	34-123		"	"	"	"	



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MMB0643  
**Reported:**  
03/18/03 14:12

**Conventional Chemistry Parameters by APHA/EPA Methods  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-3 (MMB0643-03) Water</b> <b>Sampled: 02/19/03 11:42</b> <b>Received: 02/20/03 16:05</b>									
Oil & Grease	6.7	5.2	mg/l	1	3B26035	02/26/03	02/27/03	EPA 1664A	

URS Corporation  
 500 12th Street, Suite 100  
 Oakland CA, 94607

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 Project Number: BP Heritage Site #11126, Emeryville, CA  
 Project Manager: Leonard Niles

 MMB0643  
 Reported:  
 03/18/03 14:12

**Total Purgeable Hydrocarbons (C6-C10) and 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 3C01012 - EPA 5030B P/T**
**Blank (3C01012-BLK1)**

Prepared &amp; Analyzed: 03/01/03

Methyl tert-butyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.31</i>		<i>"</i>	<i>5.00</i>		<i>106</i>	<i>78-129</i>			

**Laboratory Control Sample (3C01012-BS1)**

Prepared &amp; Analyzed: 03/01/03

Methyl tert-butyl ether	10.8	0.50	ug/l	10.0		108	63-137			
Benzene	9.78	0.50	"	10.0		97.8	78-124			
Toluene	10.4	0.50	"	10.0		104	78-129			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.19</i>		<i>"</i>	<i>5.00</i>		<i>104</i>	<i>78-129</i>			

**Laboratory Control Sample (3C01012-BS2)**

Prepared &amp; Analyzed: 03/01/03

Methyl tert-butyl ether	9.40	0.50	ug/l	9.04		104	63-137			
Benzene	5.41	0.50	"	5.44		99.4	78-124			
Toluene	34.2	0.50	"	32.8		104	78-129			
Gasoline Range Organics (C6-C10)	428	50	"	440		97.3	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.39</i>		<i>"</i>	<i>5.00</i>		<i>108</i>	<i>78-129</i>			

**Matrix Spike (3C01012-MS1)**

Source: MMB0640-02

Prepared &amp; Analyzed: 03/01/03

Methyl tert-butyl ether	428	5.0	ug/l	90.4	270	175	0-200			
Benzene	50.8	5.0	"	54.4	1.0	91.5	78-124			
Toluene	330	5.0	"	328	5.4	99.0	78-129			
Gasoline Range Organics (C6-C10)	4490	500	"	4400	300	95.2	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.23</i>		<i>"</i>	<i>5.00</i>		<i>105</i>	<i>78-129</i>			

URS Corporation  
 500 12th Street, Suite 100  
 Oakland CA, 94607

 Project: BP Heritage Site #11126, Emeryville, CA  
 Project Number: BP Heritage Site #11126, Emeryville, CA  
 Project Manager: Leonard Niles

 MMB0643  
 Reported:  
 03/18/03 14:12

### Total Purgeable Hydrocarbons (C6-C10) and 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 3C01012 - EPA 5030B P/T**
**Matrix Spike Dup (3C01012-MSD1)**

Source: MMB0640-02

Prepared &amp; Analyzed: 03/01/03

Methyl tert-butyl ether	405	5.0	ug/l	90.4	270	149	0-200	5.52	200	
Benzene	53.5	5.0	"	54.4	1.0	96.5	78-124	5.18	12	
Toluene	346	5.0	"	328	5.4	104	78-129	4.73	10	
Gasoline Range Organics (C6-C10)	4670	500	"	4400	300	99.3	70-113	3.93	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.29		"	5.00		106	78-129			

**Batch 3C05009 - EPA 5030B P/T**
**Blank (3C05009-BLK1)**

Prepared &amp; Analyzed: 03/05/03

Methyl tert-butyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.35		"	5.00		107	78-129			

**Laboratory Control Sample (3C05009-BS1)**

Prepared &amp; Analyzed: 03/05/03

Methyl tert-butyl ether	10.7	0.50	ug/l	10.0		107	63-137			
Benzene	9.55	0.50	"	10.0		95.5	78-124			
Toluene	10.0	0.50	"	10.0		100	78-129			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.99		"	5.00		99.8	78-129			

**Laboratory Control Sample (3C05009-BS2)**

Prepared &amp; Analyzed: 03/05/03

Methyl tert-butyl ether	8.38	0.50	ug/l	9.04		92.7	63-137			
Benzene	5.14	0.50	"	5.44		94.5	78-124			
Toluene	30.6	0.50	"	32.8		93.3	78-129			
Gasoline Range Organics (C6-C10)	404	50	"	440		91.8	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.38		"	5.00		108	78-129			

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.



URS Corporation 500 12th Street, Suite 100 Oakland CA, 94607	Project: BP Heritage Site #11126, Emeryville, CA Project Number: BP Heritage Site #11126, Emeryville, CA Project Manager: Leonard Niles	MMB0643 <b>Reported:</b> 03/18/03 14:12
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**Total Purgeable Hydrocarbons (C6-C10) and 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 3C05009 - EPA 5030B P/T**

<b>Matrix Spike (3C05009-MS1)</b>	<b>Source: MMC0012-01</b>			<b>Prepared &amp; Analyzed: 03/05/03</b>						
Methyl tert-butyl ether	1590	100	ug/l	1810	ND	87.8	0-200			
Benzene	1220	100	"	1090	210	92.7	78-124			
Toluene	6130	100	"	6560	50	92.7	78-129			
Gasoline Range Organics (C6-C10)	90000	10000	"	88000	11000	89.8	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.44</i>		<i>"</i>	<i>5.00</i>		<i>109</i>	<i>78-129</i>			

<b>Matrix Spike Dup (3C05009-MSD1)</b>	<b>Source: MMC0012-01</b>			<b>Prepared &amp; Analyzed: 03/05/03</b>						
Methyl tert-butyl ether	1620	100	ug/l	1810	ND	89.5	0-200	1.87	200	
Benzene	1270	100	"	1090	210	97.2	78-124	4.02	12	
Toluene	6320	100	"	6560	50	95.6	78-129	3.05	10	
Gasoline Range Organics (C6-C10)	93400	10000	"	88000	11000	93.6	70-113	3.71	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.03</i>		<i>"</i>	<i>5.00</i>		<i>101</i>	<i>78-129</i>			



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**Diesel Hydrocarbons (C10-C28) by EPA 8015B modified - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3B24039 - EPA 3510C</b>										
<b>Blank (3B24039-BLK1)</b>					Prepared: 02/24/03 Analyzed: 02/26/03					
Diesel Range Organics (C10-C28)	ND	50	ug/l							
<i>Surrogate: n-Octacosane</i>	28.4		"	50.0		56.8	34-123			
<b>Laboratory Control Sample (3B24039-BS1)</b>					Prepared: 02/24/03 Analyzed: 02/25/03					
Diesel Range Organics (C10-C28)	368	50	ug/l	500		73.6	51-128			
<i>Surrogate: n-Octacosane</i>	32.5		"	50.0		65.0	34-123			
<b>Laboratory Control Sample Dup (3B24039-BSD1)</b>					Prepared: 02/24/03 Analyzed: 02/25/03					
Diesel Range Organics (C10-C28)	382	50	ug/l	500		76.4	51-128	3.73	27	
<i>Surrogate: n-Octacosane</i>	33.5		"	50.0		67.0	34-123			



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Oakland CA, 94607

Project: BP Heritage Site #11126, Emeryville, CA  
Project Number: BP Heritage Site #11126, Emeryville, CA  
Project Manager: Leonard Niles

MMB0643  
Reported:  
03/18/03 14:12

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3B26035 - General Prep</b>									
<b>Blank (3B26035-BLK1)</b>					Prepared & Analyzed: 02/26/03				
Oil & Grease	ND	5.0	mg/l						
<b>Laboratory Control Sample (3B26035-BS1)</b>					Prepared & Analyzed: 02/26/03				
Oil & Grease	18.4	5.0	mg/l	20.0		92.0 78-114			
<b>Laboratory Control Sample Dup (3B26035-BSD1)</b>					Prepared & Analyzed: 02/26/03				
Oil & Grease	19.3	5.0	mg/l	20.0		96.5 78-114	4.77	15	





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Oakland CA, 94607

Project: BP Heritage Site #11126, Emeryville, CA  
Project Number: BP Heritage Site #11126, Emeryville, CA  
Project Manager: Leonard Niles

MMB0643  
**Reported:**  
03/18/03 14:12

### Notes and Definitions

- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- 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 BP #11126  
 BP BU/GEM CO Portfolio: \_\_\_\_\_  
 BP Laboratory Contract Number: \_\_\_\_\_

Date: 2/19/03

Requested Due Date (mm/dd/yy) MMB0643

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 1700 POWELL ST., EMERYVILLE, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. 11128	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0600100208	Consultant/Contractor Project No.:
Lab PM: Latonya Pelt	BP/GEM PM Contact: Scott Heaton	Consultant Tele/Fax: 510-874-1720 / 510-874-3268
Tel/Fax: 408-776-9600 / 408-782-6308	Address: 295 SW 41st St., Bldg. 13 Ste N	Consultant/Contractor PM: Leonard Niles
Report Type & QC Level: Send EDF Reports	Renton, WA 98055	Invoice to: Consultant/Contractor of BP/GEM (Circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax: 425-251-0689/425-251-0736	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	TPH-G/BTEX (8015/8021)	TPH-D (8015)	MTBE (8021)	MTHP (8260)	MIBK, TAME, CHC (8015/8021)	DIPE, TBA (8260)		1,2-DCA & EDD (8260)	TOC
1	MW-1	1126		X			01	6					X	X							
2	MW-2	1216					02	6					X	X							
3	MW-3	1142					03	10	X				X	X	X				X		
4	MW-4	1245					04	6					X	X							
5	MW-5	1016					05	6					X	X							
6	MW-6	1052					06	6					X	X							
7	MW-7	1036					07	6					X	X							
8	MW-8	1244					08	6					X	X							
9	MW-9	1250					09	6					X	X							
10																					

Sampler's Name: <u>SUCKSON SUNG</u>	Relinquished By / Affiliation:	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>BLAINE TECH</u>	<i>[Signature]</i>	<u>2/20/03</u>	<u>1320</u>	<i>[Signature]</i>	<u>2/20/03</u>	<u>1320</u>
Shipment Date:	<i>[Signature]</i>	<u>2/20/03</u>	<u>1605</u>	<i>[Signature]</i>	<u>2/20/03</u>	<u>1605</u>
Shipment Method:						
Shipment Tracking No:						
Special Instructions: Address Invoice to BP/GEM but send to URS for approval						

Study Seals In Place Yes  No  Temperature Blank Yes  No  Cooler Temperature on Receipt  °F/C Trip Blank Yes  No

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS  
 REC. BY (PRINT) T  
 WORKORDER: MMB6643

DATE Received at Lab: 2/20/03  
 TIME Received at Lab: 1605  
 LOG IN DATE: 2-22-03

Drinking water for regulatory purposes: YES /  NO  
 Wastewater for regulatory purposes: YES /  NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*	1		MW-1	(6) Very H <sub>2</sub> O	(L)	2/19/03	
	2		↓ - 2				
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*	3		MW-3	(4) 1L Bottle			pH = 2
	4		↓	(2) 1L Bottle			
3. Traffic Reports or Packing List Present / <input checked="" type="radio"/> Absent	5		↓	(6) Very H <sub>2</sub> O			1 broken
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent	4		MW-4				
	5		-5				
5. Airbill #:	6		-6				
6. Sample Labels: <input checked="" type="radio"/> Present / Absent	7		-7				
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody	8		-8				
	9		-9				
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?							
10. Sample received within hold time:							
11. Proper Preservatives used:							
12. Temp Rec. at Lab: Is temp 4 +/- 2°C? (Acceptance range for samples requiring thermal pres.)							
**Exception (if any): Metals / DFF on ice? / DFF no ice? or Problem COC							

**\*If Circled, contact Project Manager and attach record of resolution.**

**ATTACHMENT D**

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

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## Error Summary Log

03/20/03

EDF 1.2i All files present in deliverable.

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Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage Site #11126,
Work Order Number:	MMB0643
Global ID:	T0600100208
Lab Report Number:	MMB0643031820031412

## Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MMB06430318200	MW-1 31412	MMB064301	W	CS	8260TPH	SW5030B	02/19/03	03/01/03	03/01/03	3C01012	1	
MMB06430318200	MW-2 31412	MMB064302	W	CS	8260TPH	SW5030B	02/19/03	03/01/03	03/01/03	3C01012	1	
MMB06430318200	MW-3 31412	MMB064303	W	CS	8260TPH	SW5030B	02/19/03	03/01/03	03/01/03	3C01012	1	
MMB06430318200	MW-3 31412	MMB064303	W	CS	E1664A	METHOD	02/19/03	02/26/03	02/27/03	3B26035	1	
MMB06430318200	MW-3 31412	MMB064303	W	CS	M8015	3510ARO	02/19/03	02/24/03	02/25/03	3B24039	1	
MMB06430318200	MW-4 31412	MMB064304	W	CS	8260TPH	SW5030B	02/19/03	03/01/03	03/01/03	3C01012	1	
MMB06430318200	MW-5 31412	MMB064305	W	CS	8260TPH	SW5030B	02/19/03	03/01/03	03/01/03	3C01012	1	
MMB06430318200	MW-6 31412	MMB064306	W	CS	8260TPH	SW5030B	02/19/03	03/01/03	03/01/03	3C01012	1	
MMB06430318200	MW-7 31412	MMB064307	W	CS	8260TPH	SW5030B	02/19/03	03/01/03	03/01/03	3C01012	1	
MMB06430318200	MW-8 31412	MMB064308	W	CS	8260TPH	SW5030B	02/19/03	03/05/03	03/05/03	3C05009	1	
MMB06430318200	MW-9 31412	MMB064309	W	CS	8260TPH	SW5030B	02/19/03	03/05/03	03/05/03	3C05009	1	
		MMB064002	W	NC	8260TPH	SW5030B	//	03/01/03	03/01/03	3C01012	1	
		MMC001201	W	NC	8260TPH	SW5030B	//	03/05/03	03/05/03	3C05009	1	
		3B24039BSD1	WQ	BD1	M8015	3510ARO	//	02/24/03	02/25/03	3B24039	1	
		3B24039BS1	WQ	BS1	M8015	3510ARO	//	02/24/03	02/25/03	3B24039	1	
		3B24039BLK1	WQ	LB1	M8015	3510ARO	//	02/24/03	02/26/03	3B24039	1	
		3B26035BSD1	WQ	BD1	E1664A	METHOD	//	02/26/03	02/26/03	3B26035	1	
		3B26035BS1	WQ	BS1	E1664A	METHOD	//	02/26/03	02/26/03	3B26035	1	
		3B26035BLK1	WQ	LB1	E1664A	METHOD	//	02/26/03	02/26/03	3B26035	1	
		3C01012BS1	WQ	BS1	8260TPH	SW5030B	//	03/01/03	03/01/03	3C01012	1	
		3C01012BS2	WQ	BS2	8260TPH	SW5030B	//	03/01/03	03/01/03	3C01012	1	
		3C01012BLK1	WQ	LB1	8260TPH	SW5030B	//	03/01/03	03/01/03	3C01012	1	
		3C01012MS1	W	MS1	8260TPH	SW5030B	//	03/01/03	03/01/03	3C01012	1	
		3C01012MSD1	W	SD1	8260TPH	SW5030B	//	03/01/03	03/01/03	3C01012	1	
		3C05009BS1	WQ	BS1	8260TPH	SW5030B	//	03/05/03	03/05/03	3C05009	1	
		3C05009BS2	WQ	BS2	8260TPH	SW5030B	//	03/05/03	03/05/03	3C05009	1	
		3C05009BLK1	WQ	LB1	8260TPH	SW5030B	//	03/05/03	03/05/03	3C05009	1	

---

## Report Summary

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Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
		3C05009MS1	W	MS1	8260TPH	SW5030B	//	03/05/03	03/05/03	3C05009		1
		3C05009MSD1	W	SD1	8260TPH	SW5030B	//	03/05/03	03/05/03	3C05009		1

# EDFSAMP: Error Summary Log

03/20/03

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



---

## EDFTEST: Error Summary Log

03/20/03

---

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

## EDFRES: Error Summary Log

03/20/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MMB064303	CS	W	E1664A	PR	02/27/03	1	OILGREASE
Warning: extra parameter	3B26035BLK1	LB1	WQ	E1664A	PR	02/26/03	1	OILGREASE
Warning: extra parameter	3B26035BS1	BS1	WQ	E1664A	PR	02/26/03	1	OILGREASE
Warning: extra parameter	3B26035BSD1	BD1	WQ	E1664A	PR	02/26/03	1	OILGREASE

---

## EDFQC: Error Summary Log

03/20/03

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Error type	Lablotctf	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

---

## EDFCL: Error Summary Log

03/20/03

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

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