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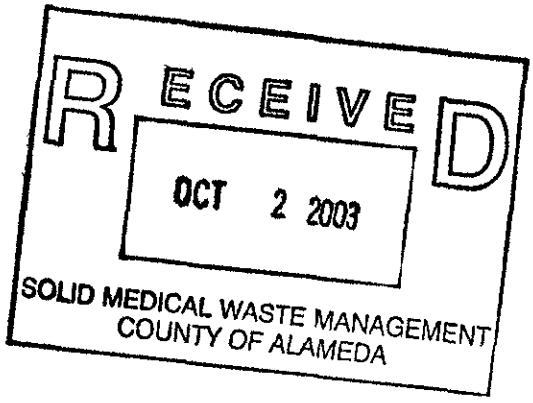
URS



September 23, 2003

Ms. eva chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Third Quarter 2003 Groundwater Monitoring Report**
Former BP Service Station #11126
1700 Powell Street
Emeryville, California
URS Project #38486454

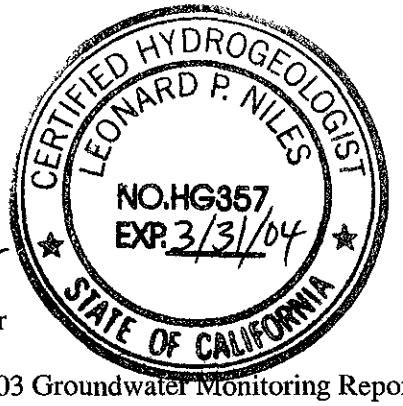
Dear Ms. chu:

On behalf of the Group Environmental Management Company (an affiliated company of BP), URS Corporation (URS) is submitting the *Third 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, R.G./C.H.G.
Senior Geologist/Project Manager

Enclosure: Third Quarter 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)
Ms. Liz Sewell, ConocoPhillips, 76 Broadway, Sacramento, CA 95818

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
Fax: 510.874.3268

REPORT

THIRD QUARTER 2003 GROUNDWATER MONITORING

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

Prepared for
BP GEM

September 23, 2003

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

38486454

Date: September 23, 2003
Quarter: 3Q 03

BP GEM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.:	11126	Address:	1700 Powell Street, Emeryville, CA
BP Environmental Engineer:			Paul Supple
Consulting Co./Contact Person:			URS Corporation / Leonard Niles
Consultant Project No.:			38486454
Primary Agency:			Alameda County Health Care Services Agency (ACHSA)

WORK PERFORMED THIS QUARTER (Third – 2003):

1. Performed third quarter groundwater monitoring event on August 7, 2003.
2. Prepared and submitted third quarter 2003 groundwater monitoring report.
3. Prepared and submitted interim groundwater remediation and offsite assessment work plan on July 11, 2003.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2003):

1. Perform fourth quarter 2003 groundwater monitoring event.
2. Prepare and submit fourth quarter 2003 groundwater monitoring report.
3. Implement interim remedial action.
4. Perform offsite subsurface investigation.

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:	Sheen (MW-2 and MW-9)
Current Remediation Techniques:	None
Approximate Depth to Groundwater:	3.92 (MW-9) to 7.24 (MW-4) feet
Groundwater Gradient (direction):	Semi-radial (East to Southwest)
Groundwater Gradient (magnitude):	0.019 to 0.038 feet per foot

DISCUSSION:

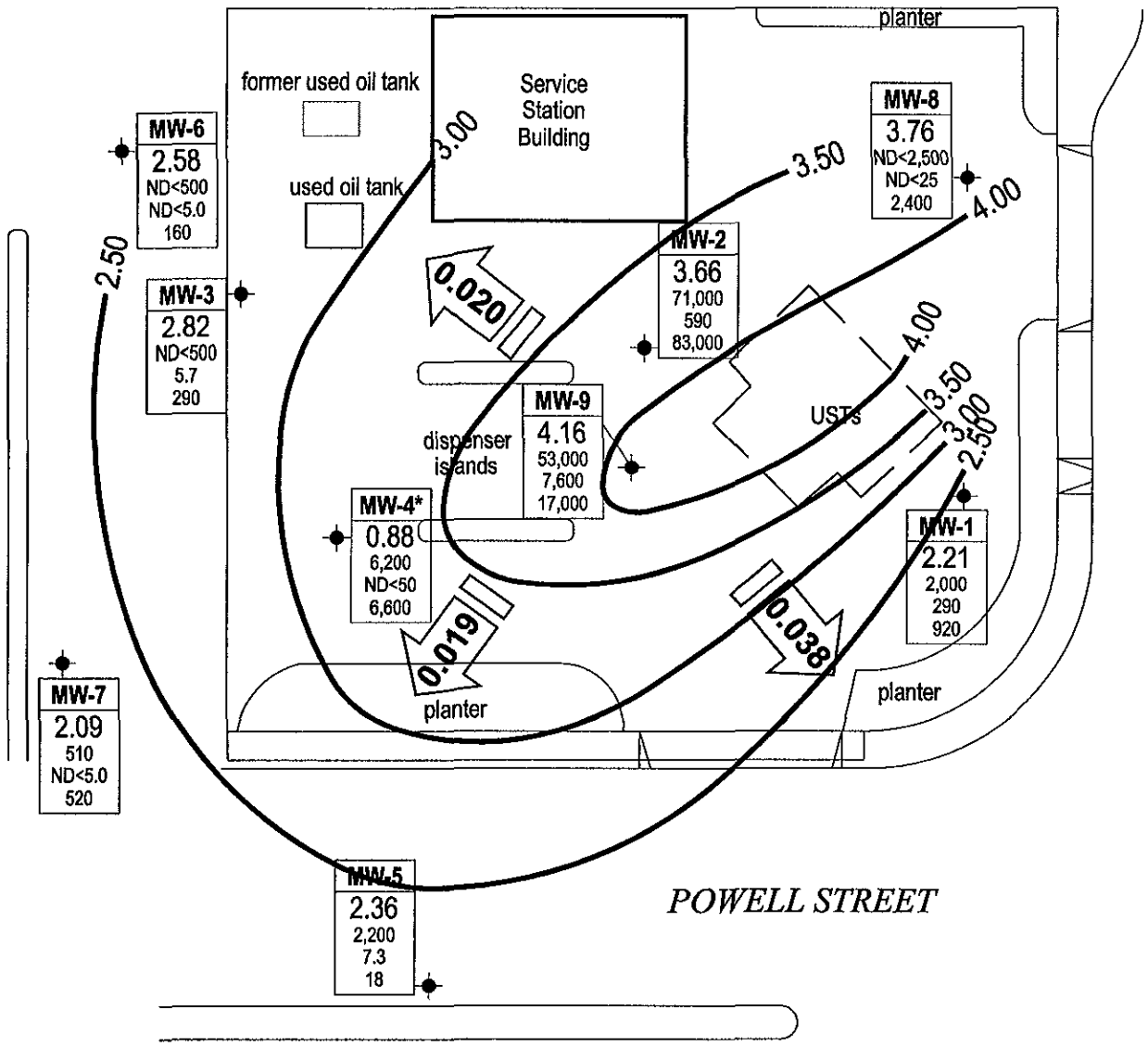
TPH-g was detected in six of the nine wells sampled at concentrations ranging from 510 µg/L (MW-7) to 71,000 µg/L (MW-2). Benzene was detected in five of the nine wells sampled at concentrations ranging from 5.7 µg/L (MW-3) to 7,600 µg/L (MW-9). MTBE was detected in all of the wells sampled at concentrations ranging from 18 µg/L (MW-5) to 83,000 µg/L (MW-2). TPH-d, and T.O.G were detected in the one well (MW-3) analyzed for these constituents at a concentrations of 820 µg/L and 5.4 µg/L, respectively. Groundwater samples collected during this event were also analyzed for fuel oxygenates, including ethanol, by 8260. Other than MTBE, the only other fuel oxygenates detected were TBA and TAME. TBA was detected in three wells at concentrations ranging from 560 µg/L (MW-1) to 45,000 µg/L (MW-2). TAME was detected in eight wells at concentrations ranging from 12 µg/L (MW-1) to 1,300 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.

URS is awaiting agency response to the Interim Remedial Action Workplan submitted July 11,2003.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – August 7, 2003
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Oxygenate Analytical Data
- Attachment A – Concentration and Water Level Trends (MW-4, MW-2 & MW-9)
- 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



EXPLANATION

- Monitoring well
- 2.50 — Groundwater elevation contour (ft/MSL)
- Well designation
- ELEV — Groundwater elevation (ft/MSL)
- TPH-g, Benzene and MTBE concentrations in micrograms per liter (µg/L)
- ND< — Not detected at or above laboratory reporting limits
- * — Not used in contouring
- 0.020 — Groundwater flow direction and gradient (ft/MSL)

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

NORTH

0 30 60

SCALE IN FEET

URS	Project No. 38486454 Former BP Service Station #11126 1700 Powell Street Emeryville, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Third Quarter 2003 (August 7, 2003)	FIGURE 1

X:\x_env_waste\BP GEM\Sites\Niles Sites\11126\Reports\Monitoring\Qtr. 3, 2003\Drawings\GWEC-AS 8-7.dwg, 09/23/2003 10:30:09 AM, JKMT, URS

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

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (a) (Feet)	DTW (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	11/4/92	7.76	4.96	---	2.80	5300	---	1100	480	ND<0.5	1500	--- (k)	---	---	---	PACE
MW-1	10/12/93	7.76	5.26	---	2.50	3600	---	970	71	100	550	6111 (k)	---	---	---	PACE
MW-1	2/15/94	7.76	4.98	---	2.78	17000	---	4200	510	360	1600	5495 (k)	---	---	3.9	PACE
MW-1	5/11/94	7.76	4.55	---	3.21	5500	---	2900	37	56	64	705 (k)	---	---	8.0	PACE
MW-1	8/1/94	7.76	5.51	---	2.25	15000	---	3600	740	510	2800	9718 (d)(k)	---	---	2.9	PACE
QC-1 (e)	8/1/94	---	---	---	---	16000	---	3600	750	510	2800	9800 (d)	---	---	---	PACE
MW-1	10/18/94	7.76	5.11	---	2.65	16000	---	1800	61	160	890	15668 (k)	---	---	2.9	PACE
QC-1 (e)	10/18/94	---	---	---	---	16000	---	1900	64	170	950	---	---	---	---	PACE
MW-1	1/13/95	7.76	3.05	---	4.71	220	---	7	ND<0.5	1	23	---	---	---	6.6	ATI
QC-1 (e)	1/13/95	---	---	---	---	590	---	88	0.7	ND<0.5	55	---	---	---	---	ATI
MW-1	4/13/95	7.76	3.84	---	3.92	9300	---	4000	300	200	950	---	---	---	7.7	ATI
MW-1	7/11/95	7.76	3.60	---	4.16	15000	---	2200	84	ND<25	2500	---	---	---	8.8	ATI
MW-1	11/2/95	7.76	4.58	---	3.18	19000	---	920	ND<100	ND<100	430	52000	---	---	7.3	ATI
MW-1	2/5/96	7.76	4.43	---	3.33	4600	---	1400	330	54	247	8700	---	---	3.2	SPL
MW-1	4/24/96	7.76	4.00	---	3.76	2000	---	510	33	61	228	4500	---	---	7.5	SPL
MW-1	7/15/96	7.76	4.30	---	3.46	---	---	---	---	---	---	---	---	---	---	---
MW-1	7/16/96	7.76	---	---	---	12000	---	2800	170	390	1630	64000	---	---	7.9	SPL
QC-1 (e)	7/16/96	---	---	---	---	12000	---	2800	160	390	1610	63000	---	---	---	SPL
MW-1	7/30/96	7.76	4.64	---	3.12	---	---	---	---	---	---	---	---	---	---	---
MW-1	8/12/96	7.76	---	---	---	11000	---	2500	160	ND<10	1740	440000	---	---	7.0	SPL
MW-1	11/4/96	7.76	5.98	---	1.78	---	---	---	---	---	---	---	---	---	---	---
MW-1	11/5/96	7.76	---	---	---	53000	---	1300	43	100	349	42000/190000 (f)	---	---	6.6	SPL
MW-1	5/17/97	7.76	4.65	---	3.11	52000	---	1958	55	305	1216	140198	---	---	5.7	SPL
MW-1	8/11/97	7.76	4.90	---	2.86	25000	---	540	6.7	ND<5.0	57	360000	---	---	7.9	SPL
MW-1	11/17/97	7.76	6.12	---	1.64	93000	---	1200	31	180	40	400000	---	---	7.6	SPL
MW-1	1/29/98	7.76	4.90	---	2.86	4800	---	320	24	52	19.9	ND<50	---	---	6.6	SPL
MW-1	6/22/98	7.76	4.62	---	3.14	63000	---	180	ND<5.0	15	69	57000	---	---	6.0	
MW-1	12/30/98	7.76	5.41	---	2.35	22000	---	2500	24	120	400	15000/13000 (f)	---	---	---	SPL
MW-1	3/9/99	7.76	3.40	---	4.36	16000	---	2000	84	290	510	13000	---	---	---	SPL
MW-1	6/23/99	7.76	4.60	---	3.16	9600	---	4500	21	160	260	24000	---	---	---	SPL
MW-1	9/23/99	7.76	4.21	---	3.55	3800	---	1600	32	150	240	7100	---	---	---	SPL
MW-1	12/28/99	7.76	4.10	---	3.66	3400	---	ND<2200	17	53	130	5500	---	---	---	PACE
MW-1	3/22/00	7.76	5.51	---	2.25	6400	---	1100	45	190	330	4900	---	---	---	PACE
MW-1	5/26/00	7.76	4.79	---	2.97	110000	---	700	44	140	250	320000	---	---	---	PACE
MW-1	9/6/00	7.76	5.19	---	2.57	5600	---	1000	13	57	90	19000	---	---	---	PACE
MW-1	9/15/00	7.76	5.73	---	2.03	---	---	---	---	---	---	---	---	---	---	---
MW-1	12/11/00	7.76	5.82	---	1.94	5500	---	1160	47.1	155	292	3900	---	---	---	PACE
MW-1 (h)	3/29/01	7.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	6/27/01	7.76	5.49	---	2.27	6100	---	1200	12.9	17.3	77.9	1780	---	---	---	PACE
MW-1	9/19/01	7.76	6.19	---	1.57	1800	---	102	ND<12.5	ND<12.5	ND<37.5	1090	---	---	---	PACE
MW-1	12/28/01	7.76	5.27	---	2.49	4000	---	540	11.8	20.4	64.6	1120	---	---	---	PACE
MW-1	3/12/02	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	9/6/02	7.76	5.56	---	2.20	1100	---	170	5.1	2.2	20	550	---	---	---	SEQ
MW-1 (o)	12/13/02	7.76	5.45	---	2.31	2700	---	610	10	18	67	470	---	---	---	SEQ
MW-1 (p)	2/19/03	7.76	3.00	---	4.76	1500	---	180	ND<5.0	ND<5.0	15	610	---	---	---	SEQ
MW-1	6/6/03	7.76	5.52	---	2.24	4600	---	620	ND<25	ND<25	55	1400	---	---	---	SEQ
MW-1	**8/7/03**	**7.76**	**5.55**	**---**	**2.21**	**2000**	**---**	**290**	**ND<5.0**	**ND<5.0**	**15**	**920**	**---**	**---**	**---**	**SEQ**

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

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (a) (Feet)	DTW (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	11/4/92	8.56	5.88	---	2.68	12000	---	3900	1300	ND<0.5	2300	---	(k)	---	---	---	PACE
QC-1 (e)	11/4/92	---	---	---	---	12000	---	3200	980	ND<0.5	1900	---		---	---	---	PACE
MW-2	10/12/93	8.56	6.29	---	2.27	4500	---	3400	180	230	940	442	(k)	---	---	---	PACE
MW-2	2/15/94	8.56	5.56	---	3.00	2000	---	430	270	28	390	127	(k)	---	---	4.0	PACE
QC-1 (e)	2/15/94	---	---	---	---	1800	---	290	160	14	250	---		---	---	---	PACE
MW-2	5/11/94	8.56	5.17	---	3.39	14000	---	3900	1200	440	1900	953	(k)	---	---	8.9	PACE
QC-1 (e)	5/11/94	---	---	---	---	15000	---	5600	1500	470	2000	740	(d)	---	---	---	PACE
MW-2	8/1/94	8.56	5.43	---	3.13	8200	---	3000	420	230	680	1676	(k)	---	---	2.6	PACE
MW-2	10/18/94	8.56	5.71	---	2.85	9000	---	2000	140	150	420	2417	(k)	---	---	7.2	PACE
MW-2	1/13/95	8.56	4.67	---	3.89	7900	---	2200	42	ND<5	770	---		---	---	6.8	ATI
MW-2	4/13/95	8.56	4.37	---	4.19	33000	---	8000	2500	1100	6600	---		---	---	7.5	ATI
QC-1 (e)	4/13/95	---	---	---	---	25000	---	6500	1500	110	5300	---		---	---	---	ATI
MW-2	7/11/95	8.56	4.51	---	4.05	19000	---	3300	99	7.5	4600	---		---	---	7.8	ATI
QC-1 (e)	7/11/95	---	---	---	---	28000	---	6800	1000	900	4900	---		---	---	---	ATI
MW-2	11/2/95	8.56	5.55	---	3.01	20000	---	3800	1200	570	2700	15000		---	---	7.3	ATI
QC-1 (e)	11/2/95	---	---	---	---	22000	---	4000	1200	600	2700	19000		---	---	---	ATI
MW-2	2/5/96	8.56	5.10	---	3.46	1200	---	320	220	26	187	99		---	---	2.2	SPL
QC-1 (e)	2/5/96	---	---	---	---	910	---	290	180	19	137	93		---	---	---	SPL
MW-2	4/24/96	8.56	4.95	---	3.61	ND<500	---	70	22	ND<10	61	ND<50		---	---	7.0	SPL
QC-1 (e)	4/24/96	---	---	---	---	ND<500	---	100	30	ND<10	71	ND<100		---	---	---	SPL
MW-2	7/15/96	8.56	5.40	---	3.16	---	---	---	---	---	---	---		---	---	---	---
MW-2	7/16/96	8.56	---	---	---	12000	---	3300	1400	250	2610	1400		---	---	7.8	SPL
MW-2	7/30/96	8.56	5.44	---	3.12	---	---	---	---	---	---	---		---	---	---	---
MW-2	11/4/96	8.56	7.06	---	1.50	---	---	---	---	---	---	---		---	---	---	---
MW-2	11/5/96	8.56	---	---	---	7200	---	1400	230	38	2110	1100		---	---	7.4	SPL
QC-1 (e)	11/5/96	---	---	---	---	9200	---	1300	170	ND<25	2240	1100		---	---	---	SPL
MW-2	5/17/97	8.56	5.77	---	2.79	570	---	42	ND<5.0	5.0	60	210		---	---	6.9	SPL
MW-2	8/11/97	8.56	5.71	---	2.85	6300	---	1800	130	86	397	2400		---	---	8.5	SPL
MW-2	11/17/97	8.56	6.91	---	1.65	2400	---	220	30	33	259	130		---	---	7.9	SPL
MW-2	1/29/98	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	6/22/98	8.56	4.80	---	3.76	4200	---	640	150	120	650	560		---	---	5.4	SPL
MW-2	12/30/98	8.56	5.21	---	3.35	---	---	---	---	---	---	---		---	---	---	---
MW-2	6/23/99	8.56	5.30	---	3.26	---	---	---	---	---	---	---		---	---	---	---
MW-2	9/23/99	8.56	4.75	---	3.81	3800	---	760	19	210	960	910		---	---	---	SPL
MW-2	12/28/99	8.56	4.51	---	4.05	---	---	---	---	---	---	---		---	---	---	---
MW-2	3/22/00	8.56	4.21	---	4.35	2500	---	780	17	44	270	2800		---	---	---	PACE
MW-2	5/26/00	8.56	4.66	---	3.90	---	---	---	---	---	---	---		---	---	---	---
MW-2	9/6/00	8.56	4.71	---	3.85	3700	---	1200	5.5	12	170	12000		---	---	---	PACE
MW-2	9/15/00	8.56	4.74	---	3.82	---	---	---	---	---	---	---		---	---	---	---
MW-2	12/11/00	8.56	4.79	---	3.77	---	---	---	---	---	---	---		---	---	---	---
MW-2 (h)	3/29/01	8.56	---	---	---	---	---	---	---	---	---	---		---	---	---	---

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) (a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet) (b)	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 (j)	6/27/01	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (j)	9/19/01	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (j)	12/28/01	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	3/12/02	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	9/6/02	8.56	5.23	---	3.33	26000	---	440	ND<50	ND<50	ND<50	45000	---	---	---	SEQ
MW-2 (o)	12/13/02	8.56	4.94	---	3.62	69000	---	1200	ND<500	ND<500	ND<500	98000	---	---	---	SEQ
MW-2 (p)	2/19/03	8.56	4.14	---	4.42	78000	---	1100	ND<500	ND<500	ND<500	81000	---	---	---	SEQ
MW-2	6/6/03	8.56	4.66	---	3.90	120000	---	1100	ND<1000	ND<1000	ND<1000	72000	---	---	---	SEQ
MW-2	**8/7/03**	**8.56**	**4.90**	**Sheen**	**3.66**	**71000**	**---**	**590**	**ND<500**	**ND<500**	**ND<500**	**83000**	**---**	**---**	**---**	**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 (a) (Feet)	DTW (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	11/4/92	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	10/12/93	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)	10/12/93	---	---	---	---	150	---	5.6	0.6	ND<0.5	1.6	---	---	---	---	PACE
MW-3	2/15/94	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	5/11/94	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	8/1/94	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	10/18/94	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	1/13/95	8.25	5.47	---	2.78	ND<50	970	0.8	ND<0.5	ND<0.5	ND<1	---	---	ND	7.7	ATI
MW-3	4/13/95	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	7/11/95	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	11/2/95	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	2/5/96	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	4/24/96	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	7/15/96	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	7/30/96	8.25	6.04	---	2.21	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/4/96	8.25	7.84	---	0.41	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/5/96	8.25	---	---	---	90	890	ND<0.5	ND<1.0	ND<1.0	ND<1.0	30	2000	ND	6.8	SPL
MW-3	5/17/97	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	8/11/97	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	11/17/97	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	1/29/98	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	6/22/98	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	12/30/98	8.25	6.68	---	1.57	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/9/99	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	6/23/99	8.25	6.60	---	1.65	---	---	---	---	---	---	---	---	---	---	---
MW-3	9/23/99	8.25	6.17	---	2.08	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/28/99	8.25	6.00	---	2.25	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/22/00	8.25	4.77	---	3.48	690	ND<58	4.2	3.1	0.81	2.7	2900	13000	---	---	PACE
MW-3	5/26/00	8.25	5.28	---	2.97	---	---	---	---	---	---	---	---	---	---	---
MW-3	9/15/00	8.25	5.58	---	2.67	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/11/00	8.25	11.74	---	-3.49 (i)	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/29/01	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	6/27/01	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	9/19/01	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	12/28/01	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	3/12/02	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	9/6/02	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)	12/13/02	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)	2/19/03	8.25	4.80	---	3.45	ND<1000	380	ND<10	ND<10	ND<10	ND<!0	120	6700	---	---	SEQ
MW-3	6/6/03	8.25	5.13	---	3.12	ND<500	620	ND<5.0	ND<5.0	ND<5.0	ND<5.0	180	7.9	---	---	SEQ
MW-3	**8/7/03**	**8.25**	**5.43**	**---**	**2.82**	**ND<500**	**820 (q)**	**5.7**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**290**	**5.4**	**---**	**---**	**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) (a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet) (b)	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	11/4/92	8.12	6.66	---	1.46	340	---	4.5	ND<0.5	4.3	ND<0.5	---	(k)	---	---	---	PACE
MW-4	10/12/93	8.12	6.87	---	1.25	160	---	5.8	1.4	0.8	2.7	261	(k)	---	---	---	PACE
MW-4	2/15/94	8.12	6.61	---	1.51	110	---	4.4	0.7	ND<0.5	2.5	118	(d)(k)	---	---	4.3	PACE
MW-4	5/11/94	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	8/1/94	8.12	6.87	---	1.25	140	---	0.7	2.0	5.2	15	138	(k)	---	---	3.3	PACE
MW-4	10/18/94	8.12	6.62	---	1.50	140	---	3.5	ND<0.5	0.5	ND<0.5	197	(k)	---	---	3.0	PACE
MW-4	1/13/95	8.12	7.27	---	0.85	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---		---	---	7.9	ATI
MW-4	4/13/95	8.12	6.51	---	1.61	73	---	1.2	ND<0.5	ND<0.5	ND<1	---		---	---	9.9	ATI
MW-4	7/11/95	8.12	6.21	---	1.91	82	---	0.57	ND<0.50	ND<0.50	ND<1.0	---		---	---	7.2	ATI
MW-4	11/2/95	8.12	6.78	---	1.34	71	---	1.4	0.96	0.99	2.8	140		---	---	8.6	ATI
MW-4	2/5/96	8.12	6.41	---	1.71	ND<50	---	ND<5	ND<10	ND<10	ND<10	200		---	---	4.4	SPL
MW-4	4/24/96	8.12	6.18	---	1.94	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	510		---	---	8.3	SPL
MW-4	7/15/96	8.12	6.63	---	1.49	ND<50	---	5.7	ND<1	ND<1	ND<1	550		---	---	7.4	SPL
MW-4	7/30/96	8.12	6.34	---	1.78	---	---	---	---	---	---	---		---	---	---	---
MW-4	11/4/96	8.12	8.27	---	-0.15	---	---	---	---	---	---	---		---	---	---	---
MW-4	11/5/96	8.12	---	---	---	460	---	ND<2.5	11	ND<5.0	ND<5.0	620/610	(f)	---	---	7.3	SPL
MW-4	5/17/97	8.12	7.00	---	1.12	---	---	---	---	---	---	---		---	---	---	---
MW-4	8/11/97	8.12	6.81	---	1.31	---	---	---	---	---	---	---		---	---	---	---
MW-4	11/17/97	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	1/29/98	8.12	7.94	---	0.18	---	---	---	---	---	---	---		---	---	---	---
MW-4	6/22/98	8.12	7.49	---	0.63	---	---	---	---	---	---	---		---	---	---	---
MW-4	12/30/98	8.12	8.21	---	-0.09	---	---	---	---	---	---	---		---	---	---	---
MW-4	3/9/99	8.12	7.70	---	0.42	1200	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2000		---	---	---	SPL
MW-4	6/23/99	8.12	8.81	---	-0.69	---	---	---	---	---	---	---		---	---	---	---
MW-4	9/23/99	8.12	8.32	---	-0.20	---	---	---	---	---	---	---		---	---	---	---
MW-4	12/28/99	8.12	8.21	---	-0.09	---	---	---	---	---	---	---		---	---	---	---
MW-4	3/22/00	8.12	6.74	---	1.38	910	---	ND<0.5	ND<0.5	0.54	1.7	3800		---	---	---	PACE
MW-4	5/26/00	8.12	5.13	---	2.99	---	---	---	---	---	---	---		---	---	---	---
MW-4	9/15/00	8.12	8.20	---	-0.08	---	---	---	---	---	---	---		---	---	---	---
MW-4	12/11/00	8.12	8.31	---	-0.19	---	---	---	---	---	---	---		---	---	---	---
MW-4 (h)	3/29/01	8.12	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-4	6/27/01	8.12	7.57	---	0.55	2800	---	18.9	ND<2.5	ND<2.5	ND<7.5	4220		---	---	---	PACE
MW-4	9/19/01	8.12	7.87	---	0.25	2500	---	ND<5.0	ND<5.0	ND<5.0	ND<15	3340		---	---	---	PACE
MW-4	12/28/01	8.12	7.80	---	0.32	4400	---	ND<5.0	ND<5.0	ND<5.0	ND<10	5330		---	---	---	PACE
MW-4	3/12/02	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	9/6/02	8.12	7.78	---	0.34	ND<2000	---	ND<20	ND<20	ND<20	ND<20	9600		---	---	---	SEQ
MW-4 (o)	12/13/02	8.12	7.87	---	0.25	5600	---	ND<50	ND<50	ND<50	ND<50	8600		---	---	---	SEQ
MW-4 (p)	2/19/03	8.12	4.84	---	3.28	ND<10000	---	ND<100	ND<100	ND<100	ND<100	8000		---	---	---	SEQ
MW-4	6/6/03	8.12	7.98	---	0.14	13000	---	ND<50	ND<50	ND<50	ND<50	6800		---	---	---	SEQ
MW-4	**8/7/03**	**8.12**	**7.24**	**---**	**0.88**	**6200**	**---**	**ND<50**	**ND<50**	**ND<50**	**ND<50**	**6600**		**---**	**---**	**---**	**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 (a) (Feet)	DTW (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	10/12/93	7.69	6.01	---	1.68	---	---	---	---	---	---	---	(k)	---	---	---	PACE
MW-5	10/13/93	7.69	---	---	---	2300	---	160	10	ND<0.5	26	---	(k)	---	---	---	PACE
MW-5	2/15/94	7.69	5.74	---	1.95	5100	---	710	16	33	35	153	(d)(k)	---	---	4.0	PACE
MW-5	5/11/94	7.69	5.28	---	2.41	11000	---	1100	39	110	57	165	(d)(k)	---	---	8.0	PACE
MW-5	8/1/94	7.69	5.84	---	1.85	9000	---	730	35	61	41	196	(d)(k)	---	---	2.6	PACE
MW-5	10/18/94	7.69	6.01	---	1.68	7800	---	330	30	27	27	559	(k)	---	---	5.6	PACE
MW-5	1/13/95	7.69	4.74	---	2.95	ND<500	---	290	6	ND<5	18	---		---	---	6.8	ATI
MW-5	4/13/95	7.69	5.50	---	2.19	9100	---	400	15	52	27	---		---	---	7.4	ATI
MW-5	7/11/95	7.69	5.75	---	1.94	7300	---	390	13	28	23	---		---	---	7.2	ATI
MW-5	11/3/95	7.69	6.65	---	1.04	7200	---	270	15	38	23	200		---	---	8.4	ATI
MW-5	2/5/96	7.69	4.83	---	2.86	4600	---	370	15	53	28	ND<50		---	---	1.9	SPL
MW-5	4/24/96	7.69	6.09	---	1.60	3000	---	180	ND<10	32	14	ND<100		---	---	8.1	SPL
MW-5	7/15/96	7.69	6.57	---	1.12	---	---	---	---	---	---	---		---	---	---	---
MW-5	7/16/96	7.69	---	---	---	ND<50	---	190	ND<10	31	16	ND<100		---	---	8.3	SPL
MW-5	7/30/96	7.69	5.61	---	2.08	---	---	---	---	---	---	---		---	---	---	---
MW-5	8/12/96	7.69	---	---	---	2000	---	150	12	25	18.2	ND<50		---	---	7.6	SPL
MW-5	11/4/96	7.69	8.25	---	-0.56	---	---	---	---	---	---	---		---	---	---	---
MW-5	11/5/96	7.69	---	---	---	5200	---	42	5.5	13	ND<5.0	1700		---	---	7.4	SPL
MW-5	5/17/97	7.69	6.95	---	0.74	80	---	0.56	ND<1.0	ND<1.0	ND<1.0	46		---	---	6.7	SPL
MW-5	8/11/97	7.69	6.72	---	0.97	2700	---	20	12	6.7	9.7	1900		---	---	8.5	SPL
MW-5	11/17/97	7.69	9.49	---	-1.80	8400	---	25	12	8.7	5.4	13000		---	---	7.9	SPL
MW-5	1/29/98	7.69	7.88	---	-0.19	110000	---	2500	110	180	589	180000		---	---	6.8	SPL
MW-5	6/22/98	7.69	7.40	---	0.29	4400	---	47	10	29	20.5	47		---	---	6.6	SPL
MW-5	12/30/98	7.69	6.13	---	1.56	6000	---	18	9.1	22	16	63/44	(f)	---	---	---	SPL
MW-5	3/9/99	7.69	4.79	---	2.90	4600	---	8.8	5.5	12	11	24		---	---	---	SPL
MW-5	6/23/99	7.69	5.95	---	1.74	3400	---	1500	8.9	54	87	7500		---	---	---	SPL
MW-5	9/23/99	7.69	5.43	---	2.26	2600	---	510	14	140	650	580		---	---	---	SPL
MW-5	12/28/99	7.69	5.30	---	2.39	3500	---	900	18	57	140	4800		---	---	---	PACE
MW-5 (h)	3/22/00	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (h)	5/26/00	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (h)	9/6/00	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (h)	9/15/00	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (h)	12/11/00	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (h)	3/29/01	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (j)	6/27/01	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (j)	9/19/01	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5	12/28/01	7.69	4.65	---	3.04	4600	---	19.9	24.6	16.2	57	72.3		---	---	---	PACE
MW-5	3/12/02	7.69	5.35	---	2.34	5100	---	45.4	13.7	22	38.9	31.6		---	---	---	PACE
MW-5	6/13/02	7.69	5.34	---	2.35	2900	---	31.8	ND<12.5	ND<12.5	ND<25	616		---	---	---	PACE
MW-5	9/6/02	7.69	5.46	---	2.23	3400	---	23	5.5	ND<5.0	11	230		---	---	---	SEQ
MW-5 (o)	12/13/02	7.69	5.47	---	2.22	2500	---	12	9.3	4.6	8.8	110		---	---	---	SEQ
MW-5 (p)	2/19/03	7.69	5.29	---	2.40	2800	---	11	5.4	9.7	12	6.4		---	---	---	SEQ
MW-5	6/6/03	7.69	5.30	---	2.39	3200	---	9.1	ND<5.0	7.6	9.3	ND<5.0		---	---	---	SEQ
MW-5	**8/7/03**	**7.69**	**5.33**	**---**	**2.36**	**2200**	**---**	**7.3**	**ND<5.0**	**ND<5.0**	**9.1**	**18**		**---**	**---**	**---**	**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 (a) (Feet)	DTW (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	10/12/93	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	2/15/94	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	5/11/94	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	8/1/94	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	10/18/94	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	1/13/95	8.52	5.95	---	2.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	7.0	ATI
MW-6	4/13/95	8.52	5.44	---	3.08	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	8.5	ATI
MW-6	7/11/95	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	11/2/95	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	2/5/96	8.52	6.27	---	2.25	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100	---	---	2.2	SPL
MW-6	4/24/96	8.52	5.95	---	2.57	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	62	---	---	8.0	SPL
MW-6	7/15/96	8.52	6.39	---	2.13	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50	---	---	8.0	SPL
MW-6	7/30/96	8.52	6.44	---	2.08	---	---	---	---	---	---	---	---	---	---	---
MW-6	11/4/96	8.52	8.05	---	0.47	---	---	---	---	---	---	---	---	---	---	---
MW-6	11/5/96	8.52	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	7.3	SPL
MW-6	5/17/97	8.52	6.75	---	1.77	---	---	---	---	---	---	---	---	---	---	---
MW-6	8/11/97	8.52	6.48	---	2.04	---	---	---	---	---	---	---	---	---	---	---
MW-6	11/17/97	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	1/29/98	8.52	7.98	---	0.54	---	---	---	---	---	---	---	---	---	---	---
MW-6	6/22/98	8.52	7.68	---	0.84	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/30/98	8.52	6.98	---	1.54	---	---	---	---	---	---	---	---	---	---	---
MW-6	3/9/99	8.52	5.90	---	2.62	---	---	---	---	---	---	---	---	---	---	---
MW-6	6/23/99	8.52	6.93	---	1.59	---	---	---	---	---	---	---	---	---	---	---
MW-6	9/23/99	8.52	6.45	---	2.07	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/28/99	8.52	6.33	---	2.19	---	---	---	---	---	---	---	---	---	---	---
MW-6	3/22/00	8.52	5.15	---	3.37	---	---	---	---	---	---	---	---	---	---	---
MW-6	5/26/00	8.52	5.72	---	2.80	---	---	---	---	---	---	---	---	---	---	---
MW-6	9/15/00	8.52	6.02	---	2.50	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/11/00	8.52	6.20	---	2.32	---	---	---	---	---	---	---	---	---	---	---
MW-6	3/29/01	8.52	5.34	---	3.18	750	---	ND<2.5	2.91	ND<2.5	11.8	820	---	---	---	PACE
MW-6	6/27/01	8.52	6.00	---	2.52	760	---	32.9	ND<2.5	ND<2.5	ND<7.5	968	---	---	---	PACE
MW-6	9/19/01	8.52	6.22	---	2.30	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<15	879	---	---	---	PACE
MW-6 (n)	12/28/01	8.52	4.71	---	3.81	---	---	---	---	---	---	---	---	---	---	---
MW-6	3/12/02	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	9/6/02	8.52	6.14	---	2.38	130	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	240	---	---	---	SEQ
MW-6 (o)	12/13/02	8.52	6.05	---	2.47	140	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	200	---	---	---	SEQ
MW-6 (p)	2/19/03	8.52	5.40	---	3.12	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	150	---	---	---	SEQ
MW-6	6/6/03	8.52	5.54	---	2.98	1100	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	140	---	---	---	SEQ
MW-6	**8/7/03**	**8.52**	**5.94**	**---**	**2.58**	**ND<500**	**---**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**160**	**---**	**---**	**---**	**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) (a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet) (b)	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	10/12/93	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	2/15/94	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	5/11/94	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	8/1/94	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	10/18/94	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	1/13/95	7.61	5.39	---	2.22	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---		---	---	8.2	ATI
MW-7	4/13/95	7.61	5.17	---	2.44	63	---	ND<0.5	ND<0.5	ND<0.5	1.4	---		---	---	8.4	ATI
MW-7	7/11/95	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	11/2/95	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	2/5/96	7.61	5.69	---	1.92	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	40		---	---	1.9	SPL
MW-7	4/24/96	7.61	5.59	---	2.02	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	53		---	---	8.2	SPL
MW-7	7/15/96	7.61	6.07	---	1.54	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50		---	---	7.8	SPL
MW-7	7/30/96	7.61	6.04	---	1.57	---	---	---	---	---	---	---		---	---	---	---
MW-7	11/4/96	7.61	7.76	---	-0.15	---	---	---	---	---	---	---		---	---	---	---
MW-7	11/5/96	7.61	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	7.8	SPL
MW-7	5/17/97	7.61	6.42	---	1.19	---	---	---	---	---	---	---		---	---	---	---
MW-7	8/11/97	7.61	6.06	---	1.55	---	---	---	---	---	---	---		---	---	---	---
MW-7	11/17/97	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	1/29/98	7.61	7.44	---	0.17	---	---	---	---	---	---	---		---	---	---	---
MW-7	6/22/98	7.61	7.39	---	0.22	---	---	---	---	---	---	---		---	---	---	---
MW-7	12/30/98	7.61	5.51	---	2.10	---	---	---	---	---	---	---		---	---	---	---
MW-7	3/9/99	7 61	5.57	---	2.04	---	---	---	---	---	---	---		---	---	---	---
MW-7	6/23/99	7.61	6.69	---	0.92	---	---	---	---	---	---	---		---	---	---	---
MW-7	9/23/99	7.61	6.23	---	1.38	---	---	---	---	---	---	---		---	---	---	---
MW-7	12/28/99	7.61	6.08	---	1.53	---	---	---	---	---	---	---		---	---	---	---
MW-7	3/22/00	7.61	4.88	---	2.73	---	---	---	---	---	---	---		---	---	---	---
MW-7	5/26/00	7.61	5.42	---	2.19	---	---	---	---	---	---	---		---	---	---	---
MW-7	9/15/00	7.61	5.79	---	1.82	---	---	---	---	---	---	---		---	---	---	---
MW-7	12/11/00	7.61	5.93	---	1.68	---	---	---	---	---	---	---		---	---	---	---
MW-7	3/29/01	7.61	5.24	---	2.37	600	---	ND<2.5	ND<2.5	ND<2.5	ND<7.5	636		---	---	---	PACE
MW-7	6/27/01	7.61	5.69	---	1.92	590	---	ND<2.5	ND<2.5	ND<2.5	ND<7.5	739		---	---	---	PACE
MW-7	9/19/01	7.61	5.89	---	1.72	560	---	ND<5.0	ND<5.0	ND<5.0	ND<15	1190		---	---	---	PACE
MW-7	12/28/01	7.61	4.53	---	3.08	910	---	22.7	ND<2.5	ND<2.5	ND<5.0	856		---	---	---	PACE
MW-7	3/12/02	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	9/6/02	7.61	5.77	---	1.84	350	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	690		---	---	---	SEQ
MW-7 (o)	12/13/02	7.61	5.65	---	1.96	1300	---	ND<10	ND<10	ND<10	ND<10	1800		---	---	---	SEQ
MW-7 (p)	2/19/03	7.61	5.07	---	2.54	1700	---	ND<10	ND<10	ND<10	ND<10	1600		---	---	---	SEQ
MW-7	6/6/03	7.61	5.27	---	2.34	1000	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	510		---	---	---	SEQ
MW-7	**8/7/03**	**7.61**	**5.52**	**---**	**2.09**	**510**	**---**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**520**		**---**	**---**	**---**	**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)	(a) DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b) 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	10/12/93	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	2/15/94	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	5/11/94	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	8/1/94	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	10/18/94	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	1/13/95	8.60	4.96	---	3.64	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---		---	---	6.9	ATI
MW-8	4/13/95	8.60	5.40	---	3.20	270	---	ND<0.5	ND<0.5	ND<0.5	4.4	---		---	---	8.4	ATI
MW-8	7/11/95	8.60	6.01	---	2.59	320	---	ND<0.50	ND<0.50	ND<0.50	3.5	---		---	---	8.0	ATI
MW-8	11/2/95	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	2/5/96	8.60	6.12	---	2.48	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100		---	---	1.5	SPL
MW-8	4/24/96	8.60	6.23	---	2.37	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100		---	---	8.7	SPL
MW-8	7/15/96	8.60	6.70	---	1.90	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50		---	---	8.4	SPL
MW-8	7/30/96	8.60	6.64	---	1.96	---	---	---	---	---	---	---		---	---	---	---
MW-8	11/4/96	8.60	8.36	---	0.24	---	---	---	---	---	---	---		---	---	---	---
MW-8	11/5/96	8.60	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	7.2	SPL
MW-8	5/17/97	8.60	7.03	---	1.57	---	---	---	---	---	---	---		---	---	---	---
MW-8	8/11/97	8.60	6.05	---	2.55	---	---	---	---	---	---	---		---	---	---	---
MW-8	11/17/97	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	1/29/98	8.60	7.90	---	0.70	---	---	---	---	---	---	---		---	---	---	---
MW-8	6/22/98	8.60	7.72	---	0.88	---	---	---	---	---	---	---		---	---	---	---
MW-8 (h)	12/30/98	8.60	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-8 (h)	3/9/99	8.60	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-8	6/23/99	8.60	4.70	---	3.90	---	---	---	---	---	---	---		---	---	---	---
MW-8	9/23/99	8.60	4.22	---	4.38	---	---	---	---	---	---	---		---	---	---	---
MW-8	12/28/99	8.60	4.12	---	4.48	---	---	---	---	---	---	---		---	---	---	---
MW-8	3/22/00	8.60	4.71	---	3.89	---	---	---	---	---	---	---		---	---	---	---
MW-8	5/26/00	8.60	4.98	---	3.62	---	---	---	---	---	---	---		---	---	---	---
MW-8	9/15/00	8.60	4.62	---	3.98	---	---	---	---	---	---	---		---	---	---	---
MW-8	12/11/00	8.60	4.77	---	3.83	---	---	---	---	---	---	---		---	---	---	---
MW-8 (h)	3/29/01	8.60	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-8	6/27/01	8.60	5.11	---	3.49	570	---	ND<2.5	ND<2.5	2.58	ND<7.5	3.43		---	---	---	PACE
MW-8	9/19/01	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	12/28/01	8.60	4.15	---	4.45	440	---	ND<0.5	ND<0.5	0.975	ND<1.0	6.27		---	---	---	PACE
MW-8	3/12/02	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	9/6/02	8.60	5.18	---	3.42	98	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	76		---	---	---	SEQ
MW-8 (o)	12/13/02	8.60	4.84	---	3.76	120	---	ND<0.5	ND<0.5	0.94	0.52	140		---	---	---	SEQ
MW-8 (p)	2/19/03	8.60	4.45	---	4.15	ND<2500	---	ND<25	ND<25	ND<25	ND<25	800		---	---	---	SEQ
MW-8	6/6/03	8.60	5.00	---	3.60	ND<50000	---	ND<500	ND<500	ND<500	ND<500	17000		---	---	---	SEQ
MW-8	**8/7/03**	**8.60**	**4.84**	**---**	**3.76**	**ND<2500**	**---**	**ND<25**	**ND<25**	**ND<25**	**ND<25**	**2400**		**---**	**---**	**---**	**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 (a) (Feet)	DTW (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	10/12/93	8.08	5.66	0.08	2.48	---	---	---	---	---	---	---	---	---	---	---
MW-9	2/15/94	8.08	5.32	0.05	2.80	---	---	---	---	---	---	---	---	---	---	---
MW-9	5/11/94	8.08	5.57	---	2.51	---	---	---	---	---	---	---	---	---	---	---
MW-9	8/1/94	8.08	6.25	---	1.83	---	---	---	---	---	---	---	---	---	---	---
MW-9	10/18/94	8.08	5.59	0.13	2.59	---	---	---	---	---	---	---	---	---	---	---
MW-9	1/13/95	8.08	4.42	0.14	3.77	---	---	---	---	---	---	---	---	---	---	---
MW-9	4/13/95	8.08	4.06	0.11	4.10	---	---	---	---	---	---	---	---	---	---	---
MW-9	7/11/95	8.08	4.21	0.08	3.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/2/95	8.08	5.22	0.05	2.90	---	---	---	---	---	---	---	---	---	---	---
MW-9	2/5/96	8.08	4.76	0.01	3.33	---	---	---	---	---	---	---	---	---	---	---
MW-9	4/24/96	8.08	4.62	0.09	3.53	---	---	---	---	---	---	---	---	---	---	---
MW-9	7/15/96	8.08	5.11	0.04	3.00	---	---	---	---	---	---	---	---	---	---	---
MW-9	7/30/96	8.08	5.15	---	2.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/4/96	8.08	6.75	0.01	1.34	---	---	---	---	---	---	---	---	---	---	---
MW-9	5/17/97	8.08	5.42	---	2.66	97000	---	16000	7700	2300	18400	40000	---	---	7.0	SPL
QC-1 (e)	5/17/97	---	---	---	---	97000	---	16000	8200	2300	17300	39000	---	---	---	SPL
MW-9	8/11/97	8.08	5.37	---	2.71	71000	---	12000	340	2100	4300	26000	---	---	9.1	SPL
QC-1 (e)	8/11/97	---	---	---	---	100000	---	14000	360	3200	5790	27000	---	---	---	SPL
MW-9	11/17/97	8.08	5.62	Sheen	2.46	100000	---	22000	4800	3100	17900	32000	---	---	8.3	SPL
QC-1 (e)	11/17/97	---	---	---	---	100000	---	24000	5300	3500	19300	35000	---	---	---	SPL
MW-9	1/29/98	8.08	4.07	Sheen	4.01	250000	---	20000	21000	3100	18500	110000	---	---	6.6	SPL
QC-1 (e)	1/29/98	---	---	---	---	250000	---	20000	20000	3100	18400	110000	---	---	---	SPL
MW-9	6/22/98	8.08	4.28	---	3.80	280000	---	21000	18000	3800	21200	110000	---	---	5.8	SPL
QC-1 (e)	6/22/98	---	---	---	---	290000	---	20000	17000	3800	21200	110000	---	---	---	SPL
MW-9	12/30/98	8.08	4.95	---	3.13	150000	---	10000	3800	2000	9600	86000/89000 (f)	---	---	---	SPL
MW-9	3/9/99	8.08	3.95	---	4.13	82000	---	6800	570	1400	4700	100000	---	---	---	SPL
MW-9	6/23/99	8.08	5.12	---	2.96	41000	---	11000	820	2300	5200	92000	---	---	---	SPL
MW-9	9/23/99	8.08	4.74	---	3.34	57000	---	12000	5400	1900	9500	89000	---	---	---	SPL
MW-9	12/28/99	8.08	4.58	---	3.50	46000	---	15000	490	2500	3500	100000	---	---	---	PACE
MW-9	3/22/00	8.08	3.90	---	4.18	86000	---	18000	1800	2300	6800	120000	---	---	---	PACE
MW-9	5/26/00	8.08	4.15	---	3.93	82000	---	17000	680	1800	3800	100000	---	---	---	PACE
MW-9	9/6/00	8.08	4.47	---	3.61	100000	---	19000	280	2400	6400	84000	---	---	---	PACE
MW-9	9/15/00	8.08	4.34	---	3.74	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/11/00	8.08	4.41	---	3.67	110000	---	14400	768	2610	6670	123000	---	---	---	PACE
MW-9 (h)	3/29/01	8.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (m)	6/26/01	8.08	5.03	0.13	3.15 (l)	---	---	---	---	---	---	---	---	---	---	---
MW-9 (m)	9/19/01	8.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/28/01	8.08	3.73	---	4.35	110000	---	15000	1500	2280	5530	60900	---	---	---	PACE
MW-9	3/12/02	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	9/6/02	8.08	4.39	---	3.69	47000	---	10000	ND<100	2100	4600	31000	---	---	---	SEQ
MW-9 (o)	12/13/02	8.08	3.97	---	4.11	57000	---	11000	1000	2300	5800	28000	---	---	---	SEQ
MW-9 (p)	2/19/03	8.08	3.25	---	4.83	76000	---	10000	2100	3000	8900	11000	---	---	---	SEQ
MW-9	6/6/03	8.08	3.94	---	4.14	66000	---	9000	ND<500	2500	4400	17000	---	---	---	SEQ
MW-9	**8/7/03**	**8.08**	**3.92**	**Sheen**	**4.16**	**53000**	**---**	**7600**	**ND<250**	**2600**	**4700**	**17000**	**---**	**---**	**---**	**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) (a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet) (b)	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)	11/5/92	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	10/12/93	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	2/15/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	5/11/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	8/1/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	10/18/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	1/13/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	ATI
QC-2 (g)	4/13/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	ATI
QC-2 (g)	7/11/95	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2 (g)	11/2/95	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	ATI
QC-2 (g)	2/5/96	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL
QC-2 (g)	4/24/96	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL
QC-2 (g)	7/16/96	---	---	---	---	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.

(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) Beginning in the first quarter 2003, TPHg and VOCs analyzed by EPA Method 8260B.

(q) Hydrocarbon pattern is present in the requested fuel quntitation range but does not resemble the pattern of the requested fuel.

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

Sourse:

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.

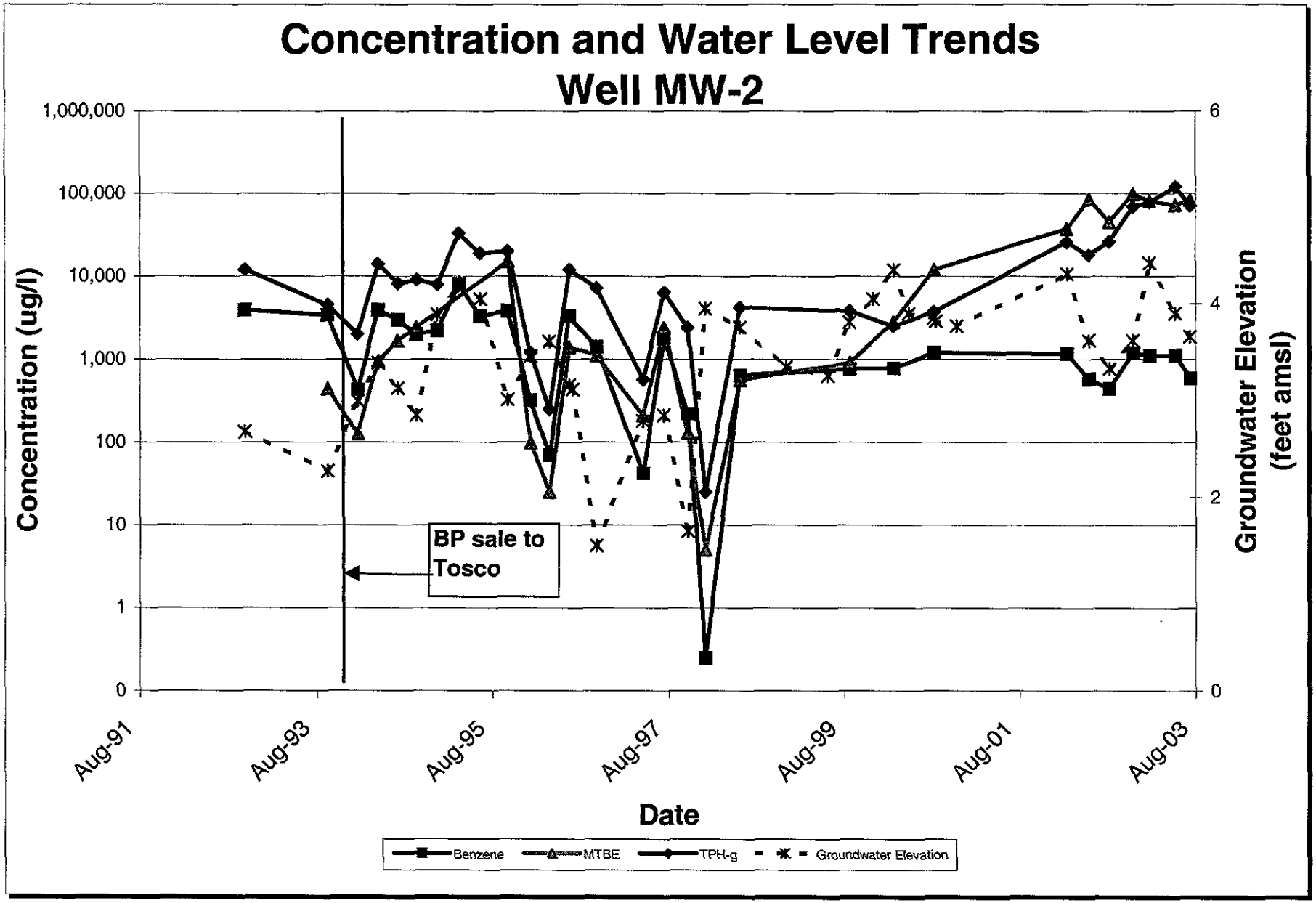
Table 2
Fuel Oxygenate Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

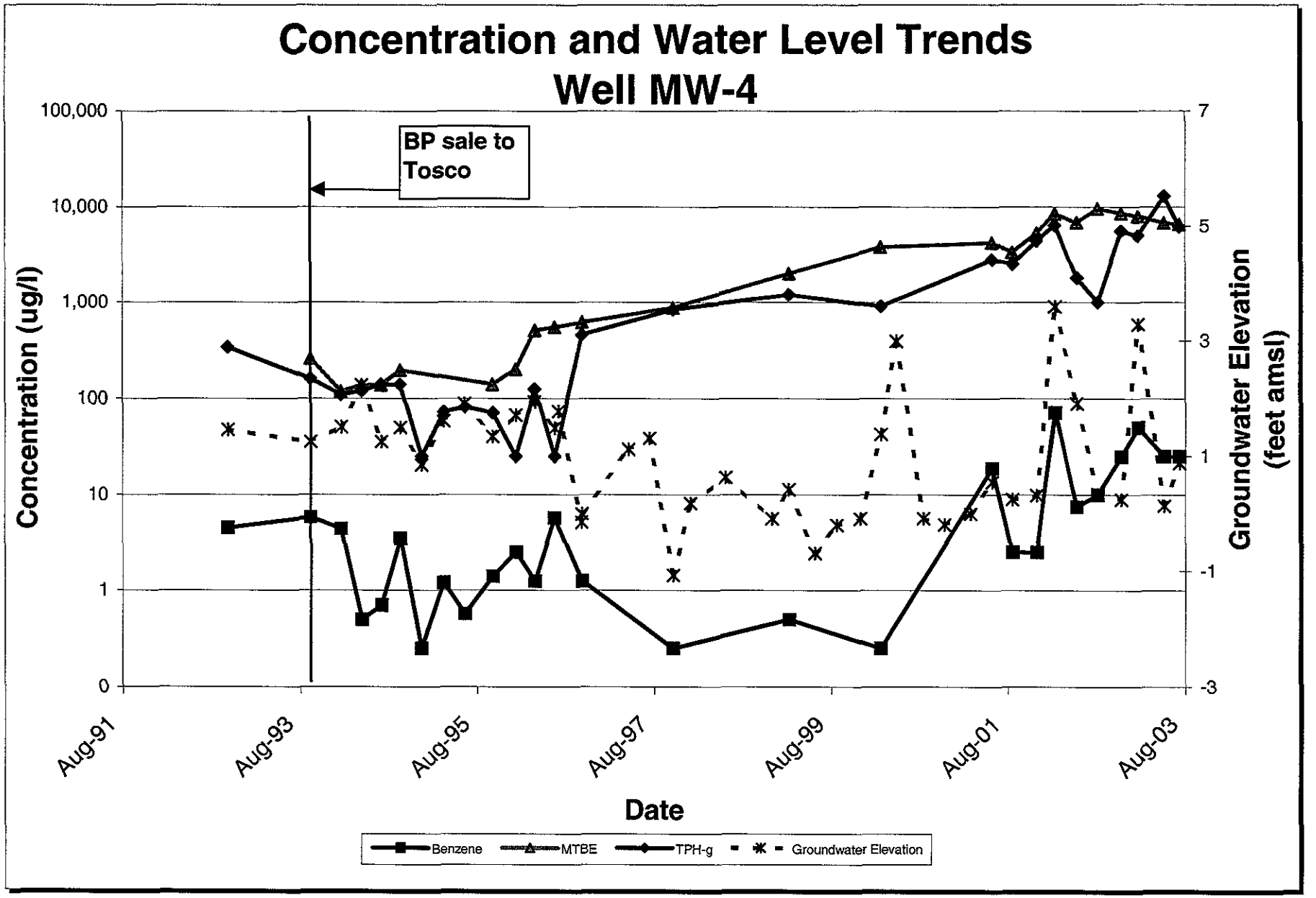
Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	06/06/03	ND<5,000	ND<1,000	1,400	ND<25	ND<25	ND<25	NA	NA
	08/07/03	**ND<1,000**	**560**	**920**	**ND<5.0**	**ND<5.0**	**12**	**ND<5.0**	**ND<5.0**
MW-2	06/06/03	ND<200,000	ND<40,000	72,000	ND<1,000	ND<1,000	1,300	NA	NA
	08/07/03	**ND<100,000**	**45,000**	**83,000**	**ND<500**	**ND<500**	**1,300**	**ND<500**	**ND<500**
MW-3	06/06/03	ND<1,000	ND<200	180	ND<5.0	ND<5.0	16	NA	NA
	08/07/03	**ND<1,000**	**ND<200**	**290**	**ND<5.0**	**ND<5.0**	**20**	**ND<5.0**	**ND<5.0**
MW-4	06/06/03	ND<10,000	2,500	6,800	ND<50	ND<50	190	NA	NA
	08/07/03	**ND<10,000**	**2,400**	**6,600**	**ND<50**	**ND<50**	**160**	**ND<50**	**ND<50**
MW-5	06/06/03	ND<1,000	ND<200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	NA
	08/07/03	**ND<1,000**	**ND<200**	**18**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**
MW-6	06/06/03	ND<1,000	ND<200	140	ND<5.0	ND<5.0	21	NA	NA
	08/07/03	**ND<1,000**	**ND<200**	**160**	**ND<5.0**	**ND<5.0**	**20**	**ND<5.0**	**ND<5.0**
MW-7	06/06/03	ND<1,000	ND<200	510	ND<5.0	ND<5.0	41	NA	NA
	08/07/03	**ND<1,000**	**ND<200**	**520**	**ND<5.0**	**ND<5.0**	**43**	**ND<5.0**	**ND<5.0**
MW-8	06/06/03	ND<100,000	ND<20,000	17,000	ND<500	ND<500	ND<500	NA	NA
	08/07/03	**ND<5,000**	**ND<1,000**	**2,400**	**ND<25**	**ND<25**	**44**	**ND<25**	**ND<25**
MW-9	06/06/03	ND<100,000	ND<20,000	17,000	ND<500	ND<500	ND<500	NA	NA
	08/07/03	**ND<50,000**	**ND<10,000**	**17,000**	**ND<250**	**ND<250**	**350**	**ND<250**	**ND<250**

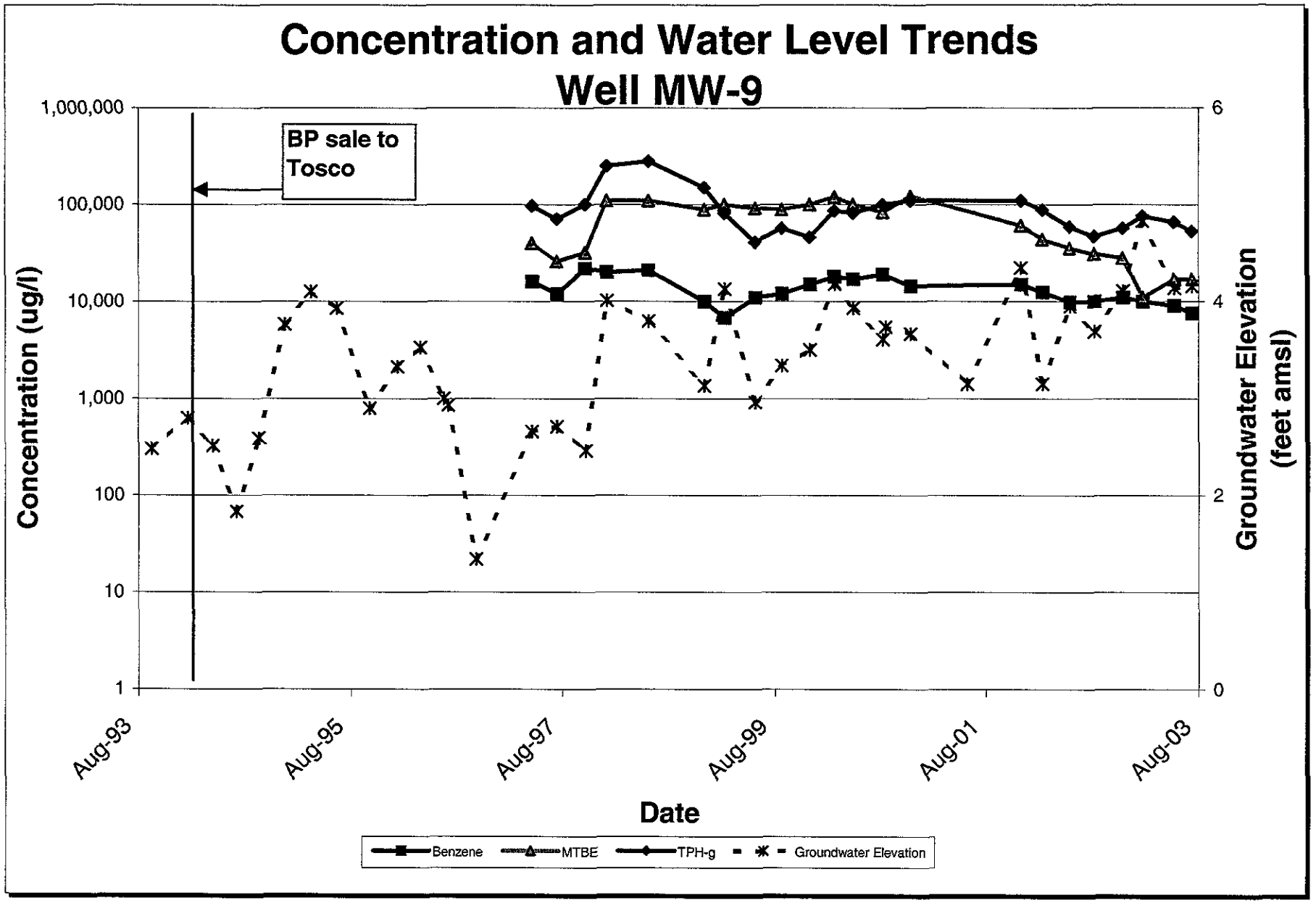
Note: All fuel oxygenate compounds analyzed using EPA Method 8260B
TBA = tert-Butyl alcohol
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert butyl ether
TAME = tert-Amyl methyl ether
1,2-DCA = 1,2-Dibromoethane
EDB = 1,2-Dichloroethane
µg/L = micrograms per liter
ND< = Not detected above the laboratory detection limit.
NA = Data not analyzed.

ATTACHMENT A

CONCENTRATION AND WATER LEVEL TRENDS (MW-4)


Concentration and Water Level Trends
Well MW-2
Concentration (ug/l)
1,000,000
100,000
10,000
1,000
100
10
1
0
Groundwater Elevation (feet amsl)
6
4
2
0
Aug-91
Aug-93
Aug-95
Aug-97
Aug-99
Aug-01
Aug-03
Date
BP sale to Tosco
Benzene
MTBE
TPH-g
Groundwater Elevation


Concentration and Water Level Trends
Well MW-4
BP sale to Tosco
Concentration (ug/l)
100,000
10,000
1,000
100
10
1
0
Groundwater Elevation (feet amsl)
7
5
3
1
-1
-3
Aug-91
Aug-93
Aug-95
Aug-97
Aug-99
Aug-01
Aug-03
Date
Benzene
MTBE
TPH-g
Groundwater Elevation


Concentration and Water Level Trends
Well MW-9
BP sale to Tosco
Concentration (ug/l)
1,000,000
100,000
10,000
1,000
100
10
1
Groundwater Elevation (feet amsl)
6
4
2
0
Aug-93
Aug-95
Aug-97
Aug-99
Aug-01
Aug-03
Date
Benzene
MTBE
TPH-g
Groundwater Elevation

ATTACHMENT B

FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

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 # 030807-DW-1 Date 8-7-03 Client BP / 76

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)	
6	MW-1	2					5.55	11.27		
8	MW-2	2					4.90	11.90		
2	MW-3	2					5.43	11.70		
5	MW-4	2				*	~~8.02~~ 7.24	10.77		
7	MW-5	2					5.33	12.67		
1	MW-6	2					5.94	12.73		
4	MW-7	2					5.52	13.68		
3	MW-8	2					4.84	13.75		
9	MW-9	4	thickened sludgy product on top of water (dispersed)				3.92	13.95		
			* MW-4 - Level seemed low, took 2nd reading before purging							

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030807-DW-1	Station # 1112C
Sampler: Dave Walther	Date: 8-7-03
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 11.27	Depth to Water: 5.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X 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.

0.9 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 2.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
13:25	71.2	7.1	2394	0.9	clear
13:27	71.0	7.1	2331	1.8	cloudy
13:29	69.9	7.1	2340	2.7	gray/odor

Did well dewater? Yes (No)		Gallons actually evacuated: 2.7	
Sampling Time: 13:32		Sampling Date: 8-7-03	
Sample I.D.: MW-1		Laboratory: Pace (Sequoia) Other ____	
Analyzed for: (TPH-G) BTEX (MTBE) TPH-D		Other: Oxygenates by 8260	
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 #: 030807-DW-1	Station # 11126
Sampler: Dave Walter	Date: 8-7-03
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 11.90	Depth to Water: 4.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ____

Sampling Method:
- Bailer
- X 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.

1.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
13:45	72.7	7.1	2212	1.1	grey
13:47	72.8	7.1	2195	2.2	silty/odor
13:49	72.0	7.2	2280	3.3	a little sheen

Did well dewater? Yes (No)		Gallons actually evacuated: 3.3	
Sampling Time: 13:54		Sampling Date: 8-7-03	
Sample I.D.: MW-2		Laboratory: Pace (Sequoia) Other ____	
Analyzed for: (TPH-G BTEX) MTBE TPH-D		Other: Oxygenates by 8260	
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 #: 030807-DW-1	Station # 1112C
Sampler: Dave Walther	Date: 8-7-03
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 11.70	Depth to Water: 5.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- X 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.

1.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = ___ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
11:49	68.0	7.4	2657	1	gray
11:51	69.1	7.4	2551	2	"
11:53	69.2	7.4	2578	3	"

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 11:58 Sampling Date: 8-7-03

Sample I.D.: MW-3 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G BTEX MTBE TPH-D 8015) Other: Oxygenates by 8260, 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 #: 030807-DW-1	Station # 1112C
Sampler: Dave Walter	Date: 8-7-03
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 10.77	Depth to Water: 7.24
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- X 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.

0.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 1.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
13:06	66.8	7.6	2991	0.6	cloudy / lt. grey / odor
	well	dewatered @ 0.7 gl.		DTW=	9.67
13:16	66.1	7.5	3082	—	cloudy / odor DTW= 7.92

Did well dewater? (Yes) No — Gallons actually evacuated: 0.7

Sampling Time: 13:16 — Sampling Date: 8-7-03

Sample I.D.: MW-4 — Laboratory: Pace (Sequoia) Other ___

Analyzed for: TPH-G BTEX (MTBE) TPH-D Other: Oxygenates by 8260

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 #: 030807-DW-1	Station # 11126
Sampler: Dave Walter	Date: 8-7-03
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 12.67	Depth to Water: 5.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method: Bailer / X Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer / X 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.

1.2 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = ____ (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
11:06	66.7	6.7	895	1.2	gray odor
11:08	71.2	6.7	822	2.4	" "
11:10	71.7	6.8	801	3.6	" "

Did well dewater? Yes (No) Gallons actually evacuated: 3.6

Sampling Time: 11:15 Sampling Date: 8-7-03

Sample I.D.: MW-5 Laboratory: Pace (Sequoia) Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: Oxygenates by 8260

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 #: 030807-DW-1	Station # 1126
Sampler: Dave Walther	Date: 8-7-03
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 12.73	Depth to Water: 5.94
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- X 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.

1.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1130	70.8	7.3	2833	1.1	grey
1132	72.3	7.4	2896	2.2	"
1134	72.7	7.4	2831	3.3	"

Did well dewater? Yes (No) Gallons actually evacuated: 3.3

Sampling Time: 1138 Sampling Date: 8-7-03

Sample I.D.: MW-6 Laboratory: Pace (Sequoia) Other ___

Analyzed for: TPH-G BTEX (MTBE) TPH-D Other: Oxygenates by 8260

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 #: 030807-DW-1	Station # 1112C
Sampler: Dave Walter	Date: 8-7-03
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 13.68	Depth to Water: 5.52
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X 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.

1.3 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.9 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1245	75.0	7.3	2705	1.3	gray/odor
1247	76.6	7.3	2947	2.6	" "
1249	76.9	7.3	2901	3.9	" "

Did well dewater? Yes (No) Gallons actually evacuated: 3.9

Sampling Time: 1252 Sampling Date: 8-7-03

Sample I.D.: MW-7 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G) BTEX (MTBE) TPH-D Other: Oxygenates by 8260

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 #: 030807-DW-1	Station # 1126
Sampler: Dave Walter	Date: 8-7-03
Well I.D.: mw-8	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.75	Depth to Water: 4.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Purge Method: Bailer / X Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / X 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.

1.4 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 4.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1225	~~69.5~~ 70.5	7.0	2477	1.4	clear / odor
1228	71.2	7.0	2443	2.8	" "
1230	71.9	7.1	2467	4.2	" "

Did well dewater? Yes (No) Gallons actually evacuated: 4.2

Sampling Time: 1233 Sampling Date: 8-7-03

Sample I.D.: MW-8 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: Oxygenates by 8260

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 #: 030807-DW-1	Station # 1126
Sampler: Dave Walter	Date: 8-7-03
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 13.95	Depth to Water: 3.92
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- X 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.

6.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 19.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
14:30	no parameters due to oil still present			6.5	very heavy sheen thick sludge-like product gelling
14:38	well dewatered @ 10 gl.			DTW ≈ 11'	on bailer. Wiped off each time I pulled from well. No sludge on inside of bailer, only on outside.
14:50	missed parameters				Water looks like oil from a Salad dressing. Appears to be oil in water but not seperated from it. When collec in 5 gl bucket, some seperation occurre

Did well dewater? (Yes) No — Gallons actually evacuated: 10

Sampling Time: 14:50 — Sampling Date: 8-7-03

Sample I.D.: MW-9 — Laboratory: Pace (Sequoia) Other ___

Analyzed for: TPH-G BTEX (MTBE) TPH-D Other: Oxygenates by 8260

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

WELLHEAD INSPECTION CHECKLIST
BP / GEM

Date 8-7-03

Site Address 1700 Powell St. Emeryville

Job Number 030807-DW-1 Technician Dave Walter

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1		X		X			X	
MW-2								
MW-3		X						
MW-4						X		
MW-5			X					
MW-6								
MW-7								
MW-8								
MW-9								

NOTES: MW-6 - Apron cracked, no bolts, rim seal missing

MW-3 - 2 bolts (of 3) present - tabs/bolts stripped, rim seal missing

MW-8 - no bolts, rim seal missing MW-7 Apron breaking up, 3 bolts present all loose

MW-1 - well box filled w/ water

MW-2 2 of 3 bolts present

MW-9 no bolts

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 Powell St. Emeryville, CA

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

38

added equip. rinse water 10

any other adjustments

TOTAL GALS. RECOVERED 48

loaded onto BTS vehicle # 47

BTS event #	time	date
030807-DW-1	1505	8/7/03

signature David C. Scott

* *

REC'D AT	time	date
		/ /

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.

Sequoia
Analytical

885 Jarvis Drive
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22 August, 2003

Leonard Niles
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland, CA 94607

RE: BP Heritage #11126, Emeryville, CA
Work Order: MMH0345

Enclosed are the results of analyses for samples received by the laboratory on 08/08/03 10:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen

Theresa Allen
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMH0345-01	Water	08/07/03 13:32	08/08/03 10:50
MW-2	MMH0345-02	Water	08/07/03 13:54	08/08/03 10:50
MW-3	MMH0345-03	Water	08/07/03 11:58	08/08/03 10:50
MW-4	MMH0345-04	Water	08/07/03 13:16	08/08/03 10:50
MW-5	MMH0345-05	Water	08/07/03 11:15	08/08/03 10:50
MW-6	MMH0345-06	Water	08/07/03 11:38	08/08/03 10:50
MW-7	MMH0345-07	Water	08/07/03 12:52	08/08/03 10:50
MW-8	MMH0345-08	Water	08/07/03 12:33	08/08/03 10:50
MW-9	MMH0345-09	Water	08/07/03 14:50	08/08/03 10:50

There were custody seals received with this project.

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

Diesel Hydrocarbons (C10-C28) by EPA 8015B modified

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMH0345-03) Water Sampled: 08/07/03 11:58 Received: 08/08/03 10:50									
Diesel Range Organics (C10-C28)	**820**	47	ug/l	1	3H13035	08/13/03	08/19/03	8015Bm	HC-12
Surrogate: n-Octacosane		*142 %*	*34-123*		"	"	"	"	*S-04*

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMH0345-01) Water Sampled: 08/07/03 13:32 Received: 08/08/03 10:50									
Ethanol	ND	1000	ug/l	10	3H14001	08/14/03	08/14/03	EPA 8260B	
tert-Butyl alcohol	**560**	200	"	"	"	"	"	"	
Methyl tert-butyl ether	**920**	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	**12**	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Benzene	**290**	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	**15**	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	**2000**	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*78-129*		"	"	"	"	
MW-2 (MMH0345-02) Water Sampled: 08/07/03 13:54 Received: 08/08/03 10:50									
Ethanol	ND	100000	ug/l	1000	3H14001	08/14/03	08/14/03	EPA 8260B	
tert-Butyl alcohol	**45000**	20000	"	"	"	"	"	"	
Methyl tert-butyl ether	**83000**	500	"	"	"	"	"	"	
Di-isopropyl ether	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	500	"	"	"	"	"	"	
tert-Amyl methyl ether	**1300**	500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	500	"	"	"	"	"	"	
Benzene	**590**	500	"	"	"	"	"	"	
Toluene	ND	500	"	"	"	"	"	"	
Ethylbenzene	ND	500	"	"	"	"	"	"	
Xylenes (total)	ND	500	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	**71000**	50000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMH0345-03) Water Sampled: 08/07/03 11:58 Received: 08/08/03 10:50									
Ethanol	ND	1000	ug/l	10	3H14001	08/14/03	08/14/03	EPA 8260B	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Methyl tert-butyl ether	**290**	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	**20**	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Benzene	**5.7**	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*126 %*	*78-129*		"	"	"	"	
MW-4 (MMH0345-04) Water Sampled: 08/07/03 13:16 Received: 08/08/03 10:50									
Ethanol	ND	10000	ug/l	100	3H18010	08/18/03	08/19/03	EPA 8260B	O-12a
tert-Butyl alcohol	**2400**	2000	"	"	"	"	"	"	
Methyl tert-butyl ether	**6600**	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
tert-Amyl methyl ether	**160**	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	**6200**	5000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*91.2 %*	*78-129*		"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MMH0345-05) Water Sampled: 08/07/03 11:15 Received: 08/08/03 10:50									
Ethanol	ND	1000	ug/l	10	3H18010	08/18/03	08/19/03	EPA 8260B	O-12a
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Methyl tert-butyl ether	**18**	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Benzene	**7.3**	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	**9.1**	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	**2200**	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*88.0 %*	*78-129*		"	"	"	"	
MW-6 (MMH0345-06) Water Sampled: 08/07/03 11:38 Received: 08/08/03 10:50									
Ethanol	ND	1000	ug/l	10	3H18010	08/18/03	08/18/03	EPA 8260B	O-12
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Methyl tert-butyl ether	**160**	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	**20**	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*84.0 %*	*78-129*		"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (MMH0345-07) Water Sampled: 08/07/03 12:52 Received: 08/08/03 10:50									
Ethanol	ND	1000	ug/l	10	3H18010	08/18/03	08/18/03	EPA 8260B	O-12
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Methyl tert-butyl ether	**520**	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	**43**	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	**510**	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90.6 %*	*78-129*		"	"	"	"	
MW-8 (MMH0345-08) Water Sampled: 08/07/03 12:33 Received: 08/08/03 10:50									
Ethanol	ND	5000	ug/l	50	3H18010	08/18/03	08/18/03	EPA 8260B	O-12
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether	**2400**	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
tert-Amyl methyl ether	**44**	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Benzene	ND	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*91.6 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (MMH0345-09) Water Sampled: 08/07/03 14:50 Received: 08/08/03 10:50									
Ethanol	ND	50000	ug/l	500	3H18010	08/18/03	08/18/03	EPA 8260B	O-12
tert-Butyl alcohol	ND	10000	"	"	"	"	"	"	
Methyl tert-butyl ether	**17000**	250	"	"	"	"	"	"	
Di-isopropyl ether	ND	250	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	250	"	"	"	"	"	"	
tert-Amyl methyl ether	**350**	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
Benzene	**7600**	250	"	"	"	"	"	"	
Toluene	ND	250	"	"	"	"	"	"	
Ethylbenzene	**2600**	250	"	"	"	"	"	"	
Xylenes (total)	**4700**	250	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	**53000**	25000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMH0345-03) Water	**Sampled: 08/07/03 11:58**	**Received: 08/08/03 10:50**							
Oil & Grease (HEM)	**5.4**	4.8	mg/l	1	3H13023	08/13/03	08/19/03	EPA 1664A	

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500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

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
Batch 3H13035 - EPA 3510C										
Blank (3H13035-BLK1)				Prepared: 08/13/03 Analyzed: 08/19/03						
Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	*35.0*		"	*50.0*		*70.0*	*34-123*			
Laboratory Control Sample (3H13035-BS1)				Prepared: 08/13/03 Analyzed: 08/18/03						
Diesel Range Organics (C10-C28)	415	50	ug/l	500		83.0	51-128			
Surrogate: n-Octacosane	*38.5*		"	*50.0*		*77.0*	*34-123*			
Laboratory Control Sample Dup (3H13035-BSD1)				Prepared: 08/13/03 Analyzed: 08/18/03						
Diesel Range Organics (C10-C28)	408	50	ug/l	500		81.6	51-128	1.70	27	
Surrogate: n-Octacosane	*35.6*		"	*50.0*		*71.2*	*34-123*			

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

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 3H14001 - EPA 5030B P/T										
Blank (3H14001-BLK1)				Prepared & Analyzed: 08/14/03						
Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.85*		"	*5.00*		*117*	*78-129*			
Laboratory Control Sample (3H14001-BS1)				Prepared & Analyzed: 08/14/03						
Methyl tert-butyl ether	11.0	0.50	ug/l	10.0		110	63-137			
Benzene	10.5	0.50	"	10.0		105	78-124			
Toluene	10.1	0.50	"	10.0		101	78-129			
Surrogate: 1,2-Dichloroethane-d4	*5.64*		"	*5.00*		*113*	*78-129*			
Laboratory Control Sample (3H14001-BS2)				Prepared & Analyzed: 08/14/03						
Methyl tert-butyl ether	9.75	0.50	ug/l	9.92		98.3	63-137			
Benzene	5.11	0.50	"	6.40		79.8	78-124			
Toluene	29.9	0.50	"	29.7		101	78-129			
Gasoline Range Organics (C6-C10)	423	50	"	440		96.1	70-113			
Surrogate: 1,2-Dichloroethane-d4	*6.18*		"	*5.00*		*124*	*78-129*			

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

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 3H14001 - EPA 5030B P/T										
Matrix Spike (3H14001-MS1)	**Source: MMH0345-02**			Prepared & Analyzed: 08/14/03						
Methyl tert-butyl ether	98900	500	ug/l	9920	83000	160	63-137			QM-4X
Benzene	6150	500	"	6400	590	86.9	78-124			
Toluene	32200	500	"	29700	ND	108	78-129			
Gasoline Range Organics (C6-C10)	552000	50000	"	440000	71000	109	70-113			
Surrogate: 1,2-Dichloroethane-d4	*6.30*		"	*5.00*		*126*	*78-129*			
Matrix Spike Dup (3H14001-MSD1)	**Source: MMH0345-02**			Prepared & Analyzed: 08/14/03						
Methyl tert-butyl ether	93500	500	ug/l	9920	83000	106	63-137	5.61	13	
Benzene	6170	500	"	6400	590	87.2	78-124	0.325	12	
Toluene	32000	500	"	29700	ND	108	78-129	0.623	10	
Gasoline Range Organics (C6-C10)	534000	50000	"	440000	71000	105	70-113	3.31	9	
Surrogate: 1,2-Dichloroethane-d4	*6.41*		"	*5.00*		*128*	*78-129*			
Batch 3H18010 - EPA 5030B P/T										
Blank (3H18010-BLK1)				Prepared & Analyzed: 08/18/03						
Ethanol	ND	100	ug/l							O-12
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*4.48*		"	*5.00*		*89.6*	*78-129*			

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

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 3H18010 - EPA 5030B P/T										
Laboratory Control Sample (3H18010-BS1)				Prepared & Analyzed: 08/18/03						
Methyl tert-butyl ether	9.64	0.50	ug/l	10.0		96.4	63-137			
Benzene	10.0	0.50	"	10.0		100	78-124			
Toluene	10.6	0.50	"	10.0		106	78-129			
Surrogate: 1,2-Dichloroethane-d4	*4.52*		"	*5.00*		*90.4*	*78-129*			
Laboratory Control Sample (3H18010-BS2)				Prepared & Analyzed: 08/18/03						
Methyl tert-butyl ether	7.77	0.50	ug/l	9.92		78.3	63-137			
Benzene	5.15	0.50	"	6.40		80.5	78-124			
Toluene	32.3	0.50	"	29.7		109	78-129			
Gasoline Range Organics (C6-C10)	412	50	"	440		93.6	70-113			
Surrogate: 1,2-Dichloroethane-d4	*4.43*		"	*5.00*		*88.6*	*78-129*			
Laboratory Control Sample Dup (3H18010-BSD1)				Prepared & Analyzed: 08/18/03						
Methyl tert-butyl ether	9.19	0.50	ug/l	10.0		91.9	63-137	4.78	13	
Benzene	10.4	0.50	"	10.0		104	78-124	3.92	12	
Toluene	10.8	0.50	"	10.0		108	78-129	1.87	10	
Surrogate: 1,2-Dichloroethane-d4	*4.73*		"	*5.00*		*94.6*	*78-129*			
Laboratory Control Sample Dup (3H18010-BSD2)				Prepared & Analyzed: 08/18/03						
Methyl tert-butyl ether	7.75	0.50	ug/l	9.92		78.1	63-137	0.258	13	
Benzene	5.32	0.50	"	6.40		83.1	78-124	3.25	12	
Toluene	33.6	0.50	"	29.7		113	78-129	3.95	10	
Gasoline Range Organics (C6-C10)	404	50	"	440		91.8	70-113	1.96	9	
Surrogate: 1,2-Dichloroethane-d4	*4.65*		"	*5.00*		*93.0*	*78-129*			
Matrix Spike (3H18010-MS1)	**Source: MMH0345-09**			Prepared & Analyzed: 08/18/03						
Methyl tert-butyl ether	19700	250	ug/l	4960	17000	54.4	63-137			QM-07
Benzene	9960	250	"	3200	7600	73.8	78-124			QM-07
Toluene	16400	250	"	14800	120	110	78-129			
Gasoline Range Organics (C6-C10)	251000	25000	"	220000	53000	90.0	70-113			
Surrogate: 1,2-Dichloroethane-d4	*4.75*		"	*5.00*		*95.0*	*78-129*			

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

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 3H18010 - EPA 5030B P/T										
Matrix Spike Dup (3H18010-MSD1)	**Source: MMH0345-09**			Prepared & Analyzed: 08/18/03						
Methyl tert-butyl ether	19600	250	ug/l	4960	17000	52.4	63-137	0.509	13	QM-07
Benzene	9760	250	"	3200	7600	67.5	78-124	2.03	12	QM-07
Toluene	16100	250	"	14800	120	108	78-129	1.85	10	
Gasoline Range Organics (C6-C10)	249000	25000	"	220000	53000	89.1	70-113	0.800	9	
Surrogate: 1,2-Dichloroethane-d4	*4.74*		"	*5.00*		*94.8*	*78-129*			

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3H13023 - General Prep										
Blank (3H13023-BLK1)				Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM)	ND	5.0	mg/l							
Laboratory Control Sample (3H13023-BS1)				Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM)	19.8	5.0	mg/l	20.0		99.0	78-118			
Laboratory Control Sample Dup (3H13023-BSD1)				Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM)	19.9	5.0	mg/l	20.0		99.5	78-118	0.504	18	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MMH0345
500 12th Street, Suite 200	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Leonard Niles	08/22/03 17:41

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.
O-12	"The continuing calibration verification was outside of client contractual acceptance limits by 1.7% low. However, it was within method acceptance limits. The data should still be useful for its intended purpose."
O-12a	"The continuing calibration verification was outside of client contractual acceptance limits by 10.5% low. However, it was within method acceptance limits. The data should still be useful for its intended purpose."
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-4X	The spike recovery was outside of control limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
S-04	The surrogate recovery for this sample is outside control limits due to interference from the sample matrix.
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

bp

Project Name 030807-DW-1

BP BU/GEM CO Portfolio:

BP Laboratory Contract Number:

Date: 8-7-03 Requested Due Date (mm/dd/yy) STANDARD MMH0345

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.	Site ID No. 11126	Oakland, CA 94609-4014
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0600100208	Consultant/Contractor Project No.:
Lab PM: Latonya Pell	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-1720 / 510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address: P.O. Box 6549	Consultant/Contractor PM: Leonard Niles
Report Type & QC Level: Send EDF Reports	Moraga, CA 94570	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax: 925-299-8891/925-299-8872	BP/GEM Work Release No:

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8260)	Requested Analysis: TPH-D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE (8260)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Requested Analysis: Ethanol (8260)	Requested Analysis: TOG	Sample Point Lat/Long and Comments
1	MW-1	13:32		X			01	3				X	X				X		X		
2	MW-2	13:54					02	3				X	X				X		X		
3	MW-3	11:58					03	7	X			X	X	X			X		X	X	
4	MW-4	13:16					04	3					X				X		X		
5	MW-5	11:15					05	1					X				X		X		
6	MW-6	11:38					06						X				X		X		
7	MW-7	12:52					07						X				X		X		
8	MW-8	13:33					08						X				X		X		
9	MW-9	14:50					09						X				X		X		
10	Trip Blank	—		X			10	2				X									ON HOLD

Sampler's Name: Dave Walker	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Blaine Tech Services	David Clark	8/8	9:20		8/8/03	9:20
Shipment Date:		8/8/03	1050		8/8/03	1050
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals In Place Yes X No Temperature Blank Yes X No Cooler Temperature on Receipt 3.6 °F/C Trip Blank Yes X No

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

BP COC Rev. 1 2/5/02

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT): AS
WORKORDER: MHH0365

DATE REC'D AT LAB: 8-8-03
TIME REC'D AT LAB: 1030
DATE LOGGED IN: 8-8-03

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s): (Present) / Absent; (Intact) / Broken*			MW-1	(3) voas	HCl	L	8-7-03	lot-B 236030
2. Chain-of-Custody: (Present) / Absent*			MW-2	↓				
3. Traffic Reports or Packing List: Present / Absent			MW-3	(3) voas	HCl			
4. Airbill: Airbill / Sticker Present / (Absent)				(2) Lamber	HCl			
5. Airbill #:			↓	(2) Lamber	–			
6. Sample Labels: (Present) / Absent			MW-4	(3) voas	HCl			
7. Sample IDs: (Listed) / Not Listed on Chain-of-Custody			MW-5					
8. Sample Condition: (Intact) / Broken* / Leaking*			MW-6					
			MW-7					
			MW-8					
			MW-9	↓	↓			
			trip blank	(2) voas	HCl	↓	↓	
9. Does information on custody reports, traffic reports and sample labels agree? (Yes) / No*								
10. Sample received within hold time: (Yes) / No*								
11. Proper Preservatives used: (Yes) / No*								
12. Temp Rec. at Lab: 3.6°C Is temp 4 +/-2°C? (Yes) / No**								

8-8-03 AS

(Acceptance range for samples requiring thermal pres.)

**Exception (if any): Metals / DFF (Direct From Field) or Problem COC

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

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

09/02/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage #11126, Emery
Work Order Number:	MMH0345
Global ID:	T0600100208
Lab Report Number:	MMH0345082220031741

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MMH03450822200	MW-1	MMH034501	W	CS	8260FAB	SW5030B	08/07/03	08/14/03	08/14/03	3H14001	1	
31741												
MMH03450822200	MW-2	MMH034502	W	CS	8260FAB	SW5030B	08/07/03	08/14/03	08/14/03	3H14001	1	
31741												
MMH03450822200	MW-3	MMH034503	W	CS	8260FAB	SW5030B	08/07/03	08/14/03	08/14/03	3H14001	1	
31741												
MMH03450822200	MW-3	MMH034503	W	CS	E1664A	METHOD	08/07/03	08/13/03	08/19/03	3H13023	1	
31741												
MMH03450822200	MW-3	MMH034503	W	CS	M8015	3510ARO	08/07/03	08/13/03	08/19/03	3H13035	1	
31741												
MMH03450822200	MW-4	MMH034504	W	CS	8260FAB	SW5030B	08/07/03	08/18/03	08/19/03	3H18010	1	
31741												
MMH03450822200	MW-5	MMH034505	W	CS	8260FAB	SW5030B	08/07/03	08/18/03	08/19/03	3H18010	1	
31741												
MMH03450822200	MW-6	MMH034506	W	CS	8260FAB	SW5030B	08/07/03	08/18/03	08/18/03	3H18010	1	
31741												
MMH03450822200	MW-7	MMH034507	W	CS	8260FAB	SW5030B	08/07/03	08/18/03	08/18/03	3H18010	1	
31741												
MMH03450822200	MW-8	MMH034508	W	CS	8260FAB	SW5030B	08/07/03	08/18/03	08/18/03	3H18010	1	
31741												
MMH03450822200	MW-9	MMH034509	W	CS	8260FAB	SW5030B	08/07/03	08/18/03	08/18/03	3H18010	1	
31741												
		3H13023BSD1	WQ	BD1	E1664A	METHOD	/ /	08/13/03	08/14/03	3H13023	1	
		3H13023BS1	WQ	BS1	E1664A	METHOD	/ /	08/13/03	08/14/03	3H13023	1	
		3H13023BLK1	WQ	LB1	E1664A	METHOD	/ /	08/13/03	08/14/03	3H13023	1	
		3H13035BSD1	WQ	BD1	M8015	3510ARO	/ /	08/13/03	08/18/03	3H13035	1	
		3H13035BS1	WQ	BS1	M8015	3510ARO	/ /	08/13/03	08/18/03	3H13035	1	
		3H13035BLK1	WQ	LB1	M8015	3510ARO	/ /	08/13/03	08/19/03	3H13035	1	
		3H14001BS1	WQ	BS1	8260FAB	SW5030B	/ /	08/14/03	08/14/03	3H14001	1	
		3H14001BS2	WQ	BS2	8260FAB	SW5030B	/ /	08/14/03	08/14/03	3H14001	1	
		3H14001BLK1	WQ	LB1	8260FAB	SW5030B	/ /	08/14/03	08/14/03	3H14001	1	
		3H14001MS1	W	MS1	8260FAB	SW5030B	/ /	08/14/03	08/14/03	3H14001	1	
		3H14001MSD1	W	SD1	8260FAB	SW5030B	/ /	08/14/03	08/14/03	3H14001	1	
		3H18010BSD1	WQ	BD1	8260FAB	SW5030B	/ /	08/18/03	08/18/03	3H18010	1	
		3H18010BSD2	WQ	BD2	8260FAB	SW5030B	/ /	08/18/03	08/18/03	3H18010	1	
		3H18010BS1	WQ	BS1	8260FAB	SW5030B	/ /	08/18/03	08/18/03	3H18010	1	
		3H18010BS2	WQ	BS2	8260FAB	SW5030B	/ /	08/18/03	08/18/03	3H18010	1	
		3H18010BLK1	WQ	LB1	8260FAB	SW5030B	/ /	08/18/03	08/18/03	3H18010	1	
		3H18010MS1	W	MS1	8260FAB	SW5030B	/ /	08/18/03	08/18/03	3H18010	1	

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
		3H18010MSD1	W	SD1	8260FAB	SW5030B	/ /	08/18/03	08/18/03	3H18010	1	

EDFSAMP: Error Summary Log

09/02/03

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

EDFTEST: Error Summary Log

09/02/03

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

EDFRES: Error Summary Log

09/02/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3H14001MS1	MS1	W	8260FAB	PR	08/14/03	1	DCA12D4
Warning: extra parameter	3H14001MS1	MS1	W	8260FAB	PR	08/14/03	1	GROC6C10
Warning: extra parameter	3H14001MSD1	SD1	W	8260FAB	PR	08/14/03	1	DCA12D4
Warning: extra parameter	3H14001MSD1	SD1	W	8260FAB	PR	08/14/03	1	GROC6C10
Warning: extra parameter	3H18010MS1	MS1	W	8260FAB	PR	08/18/03	1	DCA12D4
Warning: extra parameter	3H18010MS1	MS1	W	8260FAB	PR	08/18/03	1	GROC6C10
Warning: extra parameter	3H18010MSD1	SD1	W	8260FAB	PR	08/18/03	1	DCA12D4
Warning: extra parameter	3H18010MSD1	SD1	W	8260FAB	PR	08/18/03	1	GROC6C10
Warning: extra parameter	MMH034501	CS	W	8260FAB	PR	08/14/03	1	DCA12D4
Warning: extra parameter	MMH034501	CS	W	8260FAB	PR	08/14/03	1	GROC6C10
Warning: extra parameter	MMH034502	CS	W	8260FAB	PR	08/14/03	1	DCA12D4
Warning: extra parameter	MMH034502	CS	W	8260FAB	PR	08/14/03	1	GROC6C10
Warning: extra parameter	MMH034503	CS	W	8260FAB	PR	08/14/03	1	DCA12D4
Warning: extra parameter	MMH034503	CS	W	8260FAB	PR	08/14/03	1	GROC6C10
Warning: extra parameter	MMH034503	CS	W	E1664A	PR	08/19/03	1	OILGREASE
Warning: extra parameter	MMH034504	CS	W	8260FAB	PR	08/19/03	1	DCA12D4
Warning: extra parameter	MMH034504	CS	W	8260FAB	PR	08/19/03	1	GROC6C10
Warning: extra parameter	MMH034505	CS	W	8260FAB	PR	08/19/03	1	DCA12D4
Warning: extra parameter	MMH034505	CS	W	8260FAB	PR	08/19/03	1	GROC6C10
Warning: extra parameter	MMH034506	CS	W	8260FAB	PR	08/18/03	1	DCA12D4
Warning: extra parameter	MMH034506	CS	W	8260FAB	PR	08/18/03	1	GROC6C10
Warning: extra parameter	MMH034507	CS	W	8260FAB	PR	08/18/03	1	DCA12D4
Warning: extra parameter	MMH034507	CS	W	8260FAB	PR	08/18/03	1	GROC6C10
Warning: extra parameter	MMH034508	CS	W	8260FAB	PR	08/18/03	1	DCA12D4
Warning: extra parameter	MMH034508	CS	W	8260FAB	PR	08/18/03	1	GROC6C10
Warning: extra parameter	MMH034509	CS	W	8260FAB	PR	08/18/03	1	DCA12D4

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MMH034509	CS	W	8260FAB	PR	08/18/03	1	GROC6C10
Warning: extra parameter	3H13023BLK1	LB1	WQ	E1664A	PR	08/14/03	1	OILGREASE
Warning: extra parameter	3H13023BS1	BS1	WQ	E1664A	PR	08/14/03	1	OILGREASE
Warning: extra parameter	3H13023BSD1	BD1	WQ	E1664A	PR	08/14/03	1	OILGREASE
Warning: extra parameter	3H14001BLK1	LB1	WQ	8260FAB	PR	08/14/03	1	DCA12D4
Warning: extra parameter	3H14001BLK1	LB1	WQ	8260FAB	PR	08/14/03	1	GROC6C10
Warning: extra parameter	3H14001BS1	BS1	WQ	8260FAB	PR	08/14/03	1	DCA12D4
Warning: extra parameter	3H14001BS2	BS2	WQ	8260FAB	PR	08/14/03	1	DCA12D4
Warning: extra parameter	3H14001BS2	BS2	WQ	8260FAB	PR	08/14/03	1	GROC6C10
Warning: extra parameter	3H18010BLK1	LB1	WQ	8260FAB	PR	08/18/03	1	DCA12D4
Warning: extra parameter	3H18010BLK1	LB1	WQ	8260FAB	PR	08/18/03	1	GROC6C10
Warning: extra parameter	3H18010BS1	BS1	WQ	8260FAB	PR	08/18/03	1	DCA12D4
Warning: extra parameter	3H18010BS2	BS2	WQ	8260FAB	PR	08/18/03	1	DCA12D4
Warning: extra parameter	3H18010BS2	BS2	WQ	8260FAB	PR	08/18/03	1	GROC6C10
Warning: extra parameter	3H18010BSD1	BD1	WQ	8260FAB	PR	08/18/03	1	DCA12D4
Warning: extra parameter	3H18010BSD2	BD2	WQ	8260FAB	PR	08/18/03	1	DCA12D4
Warning: extra parameter	3H18010BSD2	BD2	WQ	8260FAB	PR	08/18/03	1	GROC6C10

EDFQC: Error Summary Log

09/02/03

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

EDFCL: Error Summary Log

09/02/03

Error type	Clrevdate	Anmcode	Exmcode	Parlabel	Clcode
There are no errors in this data file	/ /				

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Confirmation Number: 6594834804
Date/Time of Submittal: 9/2/2003 10:08:10 AM
Facility Global ID: T0600100208
Facility Name: BP MOBIL
Submittal Title: Third Quarter 03 Ground Water Monitoring Site #11126
Submittal Type: GW Monitoring Report

Logged in as URSCORP-OAKLAND
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Processing is complete. No errors were found!
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Submittal Title:	**Third Quarter 03 Geowell for site # 11126**
Submittal Date/Time:	**9/2/2003 10:10:52 AM**
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