

July 18, 2003

Alameda County

JUL 24 2003

Environmental Health

Ms. Eva Chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

Re: **Second Quarter 2003 Groundwater Monitoring Report**
Former BP Service Station #11105
3519 Castro Valley Boulevard
Castro Valley, California
URS Project #38486236

Dear Ms. Chu:

On behalf of the Group Environmental Management Company (a BP affiliated company), URS Corporation (URS) is submitting the *Second Quarter 2003 Groundwater Monitoring Report* for the Former BP Service Station #11105, located at 3519 Castro Valley Boulevard, Castro Valley, California.

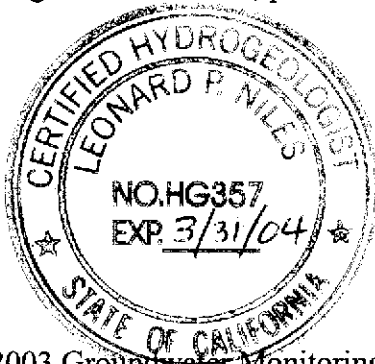
If you have any questions regarding this submission, please call me at (510) 874-1720.

Sincerely,

URS CORPORATION

Leonard P. Niles

Leonard P. Niles, R.G./C.H.G.
Senior Geologist



Enclosure: Second Quarter 2003 Groundwater Monitoring Report

cc: Paul Supple, ARCO, P.O. Box 6549, Moraga, CA 94549
Ade Fagorala, San Francisco Bay Regional Water Quality Control Board, 1515 Clay Street, Suite 1400, Oakland, CA 94612
Azim Shakoori, Castro Valley Chevron, 3519 Castro Valley Boulevard, Castro Valley, CA, 94546
Anthony Farcich, Farcich Family Property Trust, 20707 Tuxedo Court, Castro Valley, CA, 94552
Roger Papler, SOMA Environmental Engineering Inc., 2680 Bishop Drive, Suite 203, San Ramon, CA 94583

R E P O R T

**SECOND QUARTER 2003
GROUNDWATER MONITORING**

**FORMER BP SERVICE STATION #11105
3519 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA**

Prepared for
BP GEM

July 18, 2003

URS

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

38486236

Date: July 18, 2003
 Quarter: 2Q 03

BP GEM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11105 Address: 3519 Castro Valley Boulevard, Castro Valley, California
 BP Environmental Engineer: Paul Supple
 Consulting Co./Contact Person: URS Corporation / Leonard Niles
 Consultant Project No.: 38486236
 Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Second – 2003):

1. Performed second quarter groundwater monitoring event on June 17, 2003.
2. Prepared and submitted first quarter 2003 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Third – 2003):

1. Perform third quarter 2003 groundwater monitoring event (by new consultant).
2. Prepare and submit second quarter 2003 groundwater monitoring report.
3. Prepare and submit subsurface investigation workplan (by new consultant)

Current Phase of Project:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>ESE-1 through ESE-3, quarterly; ESE-5 and MW-7, semi-annual (1st and 3rd Quarter)</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
Current Remediation Techniques:	<u>None currently</u>
Approximate Depth to Groundwater:	<u>6.75 (ESE-5) to 10.19 (ESE-2) feet</u>
Groundwater Gradient (direction):	<u>Southeast to southwest</u>
Groundwater Gradient (magnitude):	<u>0.018 to 0.020</u>

DISCUSSION:

All samples collected this quarter were analyzed for TPH-g, BTEX, MTBE and fuel oxygenates by EPA Method 8260B. TPH-g was detected in all three wells sampled this quarter at concentrations ranging from 520 µg/L (ESE-3) to 10,000 µg/L (ESE-2). Benzene was detected in two wells sampled at concentrations of 17 µg/L (ESE-3) and 140 µg/L (ESE-1). MTBE was detected in all three wells sampled at concentrations ranging from 130 µg/L (ESE-3) to 4,400 µg/L (ESE-2). TAME was only detected in ESE-1, at 18 µg/L.

This site became available to URS on the Geotracker system this quarter. Geowell and EDF data were uploaded for the following quarters: second quarter 2002, third quarter 2002, fourth quarter 2002, first quarter 2003 and second quarter 2003.

Future groundwater monitoring, subsurface investigations, and reporting will be performed from the third quarter 2003 onward by another consultant who is representing the current property owner.

ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Oxygenate Analytical Data
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – June 17, 2003
- Attachment A – Concentration and Water Level Trends (ESE-2)
- Attachment B – Field Procedures and Field Data Sheets
- Attachment C – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment D – EDCC Report and EDF/Geowell Submittal Confirmation

Table 1
Groundwater Elevation and Analytical Data
 Former BP Service Station #11105
 3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
ESE-1 (c)	10/5/1992	177.69	11.22	166.47	2100	370	150	17	110	---	(l) ---	PACE
ESE-1D (d)	10/5/1992	---	---	---	2300	370	160	16	110	---	(l) ---	PACE
ESE-1	4/1/1993	177.69	8.79	168.90	5900	1500	410	110	390	---	(l) ---	PACE
ESE-1	6/29/1993	177.69	10.34	167.35	7600	2900	390	130	460	---	(l) ---	PACE
ESE-1	9/23/1993	177.69	10.91	166.78	2000	490	40	20	56	600	(e)(l) ---	PACE
QC-1 (d)	9/23/1993	---	---	---	1500	420	39	19	56	550	(e)(l) ---	PACE
ESE-1	12/10/1993	177.69	9.93	167.76	1800	480	42	19	66	921	(e)(l) 3.2	PACE
QC-1 (d)	12/10/1993	---	---	---	1500	380	38	17	55	770	(e)(l) ---	PACE
ESE-1	2/17/1994	177.69	9.64	168.05	1900	380	48	24	80	585	(e)(l) ---	PACE
QC-1 (d)	2/17/1994	---	---	---	2200	430	42	19	65	491	(e)(l) ---	PACE
ESE-1	8/8/1994	177.69	11.72	165.97	2100	450	46	16	50	760	(c) 5.1	PACE
ESE-1	10/12/1994	177.69	10.48	167.21	760	240	16	51	39	230	(e) 3.5	PACE
ESE-1	1/19/1995	177.69	7.77	169.92	840	600	120	22	58	---	8.0	ATI
ESE-1	5/2/1995	177.69	8.69	169.00	2000	640	67	24	98	---	8.5	ATI
ESE-1	7/28/1995	177.69	10.12	167.57	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	7.9	ATI
ESE-1	11/17/1995	177.69	10.57	167.12	200	3.4	ND<1.0	1	ND<2.0	600	7.7	ATI
ESE-1	2/7/1996	177.69	7.41	170.28	750	370	23	21	64	680	2.5	SPL
ESE-1	4/23/1996	177.69	9.12	168.57	310	100	ND<1	ND<1	ND<1	1500	6.3	SPL
ESE-1	7/9/1996	177.69	10.12	167.57	730	230	74	13	63	750	2.9	SPL
ESE-1	10/10/1996	177.69	10.80	166.89	420	26	1.6	7.3	12	430	7.4	SPL
ESE-1	1/20/1997	177.69	8.52	169.17	660	290	4.2	13	36	450	5.9	SPL
ESE-1	4/25/1997	177.69	9.77	167.92	410	ND<0.5	ND<1.0	ND<1.0	ND<1.0	580	5.3	SPL
ESE-1	7/18/1997	177.69	10.55	167.14	420	ND<0.5	ND<1.0	ND<1.0	ND<1.0	370	5.0	SPL
ESE-1	10/27/1997	177.69	10.36	167.33	300	56	ND<1.0	6.5	ND<1.0	220	4.8	SPL
ESE-1	1/22/1998	177.69	7.52	170.17	4200	440	9	15	17.7	1300	4.2	SPL
ESE-1	4/23/1998	177.69	8.80	168.89	15000	3400	190	910	900	4900	4.2	SPL
QC-1	4/23/1998	---	---	---	15000	2800	140	730	730	4400	---	SPL
ESE-1	7/29/1998	177.69	9.73	167.96	---	---	---	---	---	---	---	---
ESE-1	7/30/1998	---	---	---	15000	ND<2.5	ND<5.0	ND<5.0	ND<5.0	15000	4.0	SPL
ESE-1	12/17/1998	177.69	9.51	168.18	2400	73	1.0	2.8	4.6	2000/2500*	---	SPL
ESE-1	3/19/1999	177.69	8.65	169.04	4700	58	ND<1.0	ND>1.0	ND<1.0	4700	---	SPL
ESE-1	6/23/1999	177.69	10.51	167.18	600	170	ND<1.0	7.2	5.0	3900	---	SPL
ESE-1	9/27/1999	177.69	10.32	167.37	920	200	ND<25	ND<25	ND<25	4900	---	SPL
ESE-1	12/9/1999	177.69	10.24	167.45	460	130	1.2	5.2	1.5	5100	---	PACE
ESE-1	3/9/2000	177.69	7.72	169.97	3000 (j)	1300	120	80	140	7300	---	PACE
ESE-1	6/8/2000	177.69	9.40	168.29	2900	540	9.7	20	17	5200	---	PACE
ESE-1	9/18/2000	177.69	10.05	167.64	890	3.4	ND<0.5	1.4	ND<0.5	2800	---	PACE

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WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
ESE-1	12/14/2000	177.69	8.20	169.49	1600	11.1	ND<0.5	ND<0.5	ND<0.5	2730	---	PACE
ESE-1	3/21/2001	177.69	9.75	167.94	5700	2.28	ND<0.5	0.51	ND<1.5	6810	---	PACE
ESE-1	6/18/2001	177.69	10.21	167.48	2000	152	0.669	3.62	2.34	1980	---	PACE
ESE-1	9/18/2001	177.69	10.30	167.39	2500	57.1	ND<5.0	6.25	ND<15	2090	---	PACE
ESE-1	12/13/2001	177.69	9.82	167.87	2800	208	6.05	8.54	9.66	2030	---	PACE
ESE-1	3/14/2002	177.69	9.10	168.59	1800	140	6.31	4.5	9.41	1970	---	PACE
ESE-1	6/19/2002	177.69	9.92	167.77	1100	220	2.02	4.23	3.8	1280	---	PACE
ESE-1	9/10/02*	177.69	10.21	167.48	490	39	2.9	ND<2.0	4.9	670	---	SEQ
ESE-1	12/16/2002	177.69	8.56	169.13	730	140	6.0	3.2	9.1	670	---	SEQ
ESE-1	3/11/2003	177.69	9.40	168.29	1700	490	21	22	41	530	---	SEQ
ESE-1	6/17/2003	177.69 (n)	9.86	167.83	1300	140	ND<10	ND<10	ND<10	480	---	SEQ

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ESE-2	10/5/1992	178.23	11.68	166.55	300	5.4	16	3.9	45	---	(l)	---	PACE
ESE-2	4/1/1993	178.23	9.17	169.06	240	27	ND<0.5	17	2.6	123	(c)(l)	---	PACE
ESE-2	6/29/1993	178.23	10.88	167.35	1700	260	24	110	23	---	(l)	---	PACE
QC-1 (d)	6/29/1993	---	---	---	1300	240	17	110	25	---	(l)	---	PACE
ESE-2	9/23/1993	178.23	11.56	166.67	240	3.1	0.5	0.6	2.5	643	(e)(l)	---	PACE
ESE-2	12/10/1993	178.23	10.48	167.75	250	2.4	2.4	1.5	11	940	(e)(l)	2.6	PACE
ESE-2	2/17/1994	178.23	10.06	168.17	900	ND<0.5	ND<0.5	ND<0.5	ND<0.5	930	(e)(l)	---	PACE
ESE-2	8/8/1994	178.23	11.11	167.12	750	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1400	(e)	5.1	PACE
ESE-2	10/12/1994	178.23	11.31	166.92	1700	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3000	(e)	3.6	PACE
ESE-2	1/19/1995	178.23	8.25	169.98	300	2	0.9	0.7	1	---	---	8.1	ATI
ESE-2	5/2/1995	178.23	9.21	169.02	1200	4	ND<2.5	ND<2.5	ND<5.0	---	---	8.4	ATI
ESE-2	7/28/1995	178.23	10.64	167.59	2000	ND<2.5	ND<2.5	ND<2.5	ND<5.0	---	---	7.7	ATI
ESE-2	11/17/1995	178.23	11.13	167.10	3600	ND<25	ND<25	ND<25	ND<50	12000	---	7.4	ATI
QC-1 (d)	11/17/1995	---	---	---	3400	ND<25	ND<25	ND<25	ND<50	12000	---	---	ATI
ESE-2	2/7/1996	178.23	7.94	170.29	450	ND<0.5	ND<1	ND<1	ND<1	2300	---	1.8	SPL
ESE-2	4/23/1996	178.23	9.73	168.50	260	0.9	ND<1	ND<1	ND<1	8600	---	7.2	SPL
ESE-2	7/9/1996	178.23	10.70	167.53	780	ND<2.5	ND<5	ND<5	ND<5	13393	---	3.0	SPL
ESE-2	10/10/1996	178.23	11.39	166.84	2900	ND<0.5	ND<1.0	ND<1.0	ND<1.0	12000	---	7.0	SPL
ESE-2	1/20/1997	178.23	9.04	169.19	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	13000	---	6.2	SPL
ESE-2	4/25/1997	178.23	10.31	167.92	2700	ND<0.5	ND<1.0	ND<1.0	ND<1.0	15000	---	5.9	SPL
ESE-2	7/18/1997	178.23	11.02	167.21	11000	ND<5	ND<10	ND<10	ND<10	11000	---	5.0	SPL
ESE-2	10/27/1997	178.23	10.93	167.30	6100	ND<2.5	ND<5.0	ND<5.0	ND<5.0	7100	---	4.8	SPL
QC-1 (d)	10/27/1997	---	---	---	6600	ND<2.5	ND<5.0	ND<5.0	ND<5.0	7400	---	---	SPL
ESE-2	1/22/1998	178.23	7.93	170.30	13000	ND<0.5	ND<1.0	ND<1.0	ND<1.0	10000	---	4.6	SPL
QC-1 (d)	1/22/1998	---	---	---	13000	ND<0.5	ND<1.0	ND<1.0	ND<1.0	10000	---	---	SPL
ESE-2	4/23/1998	178.23	9.34	168.89	19000	ND<5	ND<10	ND<10	ND<10	36000	---	4.2	SPL
ESE-2	7/29/1998	178.23	10.29	167.94	---	---	---	---	---	---	---	---	---
ESE-2	7/30/1998	---	---	---	19000	ND<5	ND<10	ND<10	ND<10	36000	---	4.2	SPL
ESE-2	12/17/1998	178.23	10.20	168.03	12000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	13000/17000*	---	---	SPL
ESE-2	3/19/1999	178.23	9.02	169.21	18000	160	ND<1.0	ND<1.0	ND<1.0	18000	---	---	SPL
ESE-2	6/23/1999	178.23	9.99	168.24	280	ND<1.0	ND<1.0	ND<1.0	ND<1.0	16000	---	---	SPL
ESE-2	9/27/1999	178.23	10.69	167.54	ND<500	ND<25	ND<25	ND<25	ND<25	12000	---	---	SPL
ESE-2	12/9/1999	178.23	11.26	166.97	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.6	12000	---	---	PACE
ESE-2	3/9/2000	178.23	7.95	170.28	ND<50	1.6	ND<0.5	ND<0.5	ND<0.5	7900	---	---	PACE
ESE-2	6/8/2000	178.23	9.66	168.57	1600	ND<0.5	0.73	ND<0.5	2.2	9400	---	---	PACE
ESE-2 (k)	9/18/2000	178.23	---	---	---	---	---	---	---	---	---	---	---
ESE-2	12/14/2000	178.23	11.15	167.08	6000	0.75	ND<0.5	ND<0.5	ND<0.5	11200	---	---	PACE

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ESE-2	3/21/2001	178.23	10.35	167.88	6900	786	45.7	37.7	71.5	3790	---	PACE
ESE-2	6/18/2001	178.23	11.24	166.99	6400	ND<2.5	ND<2.5	ND<2.5	ND<7.5	9320	---	PACE
ESE-2	9/18/2001	178.23	11.35	166.88	4800	ND<12.5	ND<12.5	ND<12.5	ND<37.5	6960	---	PACE
ESE-2	12/13/2001	178.23	10.97	167.26	59000	0.592	ND<0.5	ND<0.5	ND<1.0	5940	---	PACE
ESE-2	3/14/2002	178.23	10.13	168.10	4500	76	ND<0.5	ND<0.5	ND<1.0	6660	---	PACE
ESE-2	6/19/2002	178.23	10.91	167.32	250	ND<12.5	ND<12.5	ND<12.5	ND<25	4900	---	PACE
ESE-2	9/10/02*	178.23	10.82	167.41	1500	ND<5.0	ND<5.0	ND<5.0	6.3	3100	---	SEQ
ESE-2	12/16/2002	178.23	7.87	170.36	1400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2400	---	SEQ
ESE-2	3/11/2003	178.23	10.24	167.99	2800	ND<10	ND<10	ND<10	ND<10	4800	---	SEQ
ESE-2	6/17/2003 (n)	178.23	10.19	168.04	10000	ND<100	ND<100	ND<100	ND<100	4400	---	SEQ

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ESE-3	10/5/1992	178.20	10.58	167.62	430	57	31	3.6	34	---	(l)	---	PACE
ESE-3	4/1/1993	178.20	8.14	170.06	2400	460	220	74	210	---	(l)	---	PACE
ESE-3	6/29/1993	178.20	9.72	168.48	280	56	14	15	13	---	(l)	---	PACE
ESE-3	9/23/1993	178.20	10.46	167.74	72	13	3.5	1.7	4.1	---	(l)	---	PACE
ESE-3	12/10/1993	178.20	9.30	168.90	270	71	32	6.1	33	---	(l)	2.7	PACE
ESE-3	2/17/1994	178.20	8.97	169.23	520	140	10	20	33	5.74	(l)	---	PACE
ESE-3	8/8/1994	178.20	10.02	168.18	ND<50	8.8	1.6	1.6	2.3	ND<5.0	(l)	6.2	PACE
ESE-3	10/12/1994	178.20	10.32	167.88	470	190	6.4	15	18	ND<5.0	(l)	3.5	PACE
ESE-3	1/19/1995	178.20	7.40	170.80	330	260	27	21	20	---	---	6.7	ATI
ESE-3	5/2/1995	178.20	8.26	169.94	530	180	30	23	44	---	---	8.6	ATI
ESE-3	7/28/1995	178.20	9.54	168.66	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	8.8	ATI
ESE-3	11/17/1995	178.20	10.04	168.16	ND<50	1.7	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	7.3	ATI
ESE-3	2/7/1996	178.20	7.08	171.12	ND<50	8.6	ND<1	ND<1	ND<1	ND<10	---	3.9	SPL
ESE-3	4/23/1996	178.20	8.79	169.41	ND<50	7.6	ND<1	ND<1	ND<1	65	---	6.9	SPL
ESE-3	7/9/1996	178.20	10.09	168.11	ND<50	12	2.6	2	3.9	26	---	3.4	SPL
ESE-3	10/10/1996	178.20	10.48	167.72	---	---	---	---	---	---	---	---	---
ESE-3	10/11/1996	178.20	---	---	260	140	ND<1.0	ND<1.0	2.6	ND<10	---	7.2	SPL
ESE-3	1/20/1997	178.20	8.65	169.55	ND<50	1.5	1.7	ND<1.0	ND<1.0	14	---	5.7	SPL
ESE-3	4/25/1997	178.20	10.02	168.18	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	14	---	5.4	SPL
ESE-3	7/18/1997	178.20	10.66	167.54	10000	1400	1400	300	1280	ND<250	---	5.2	SPL
ESE-3	10/27/1997	178.20	9.83	168.37	ND<250	ND<2.5	ND<5.0	ND<5.0	36	ND<50	---	5.0	SPL
ESE-3	1/22/1998	178.20	7.06	171.14	130	ND<0.5	ND<1.0	ND<1.0	ND<1.0	120	---	4.3	SPL
ESE-3	4/23/1998	178.20	8.44	169.76	4800	560	ND<10	15	ND<10	4000	---	3.9	SPL
ESE-3	7/29/1998	178.20	9.27	168.93	---	---	---	---	---	---	---	---	---
ESE-3	7/30/1998	---	---	---	1800	6.2	ND<5.0	ND<5.0	ND<5.0	1700	---	4.1	SPL
ESE-3	12/17/1998	178.20	9.15	169.05	600	54	ND<1.0	2.1	4.9	340/480*	---	---	SPL
ESE-3	3/19/1999	178.20	8.14	170.06	2000	260	4.4	13	28	870	---	---	SPL
ESE-3	6/23/1999	178.20	9.44	168.76	290	91	ND<1.0	8.3	16	240	---	---	SPL
ESE-3	9/27/1999	178.20	9.69	168.51	130	35	ND<1.0	2.7	3.8	100	---	---	SPL
ESE-3	12/9/1999	178.20	10.99	167.21	380	84	1.7	8.7	6.3	160	---	---	PACE
ESE-3	3/9/2000	178.20	7.12	171.08	950	190	4.6	39	62	350	---	---	PACE
ESE-3	6/8/2000	178.20	10.92	167.28	300	37	ND<0.5	2.3	1.3	400	---	---	PACE
ESE-3	9/18/2000	178.20	11.12	167.08	920	140	1.3	15	4.8	170	---	---	PACE
ESE-3	12/14/2000	178.20	9.70	168.50	320	64	ND<0.5	6.24	1.76	201	---	---	PACE
ESE-3	3/21/2001	178.20	10.07	168.13	680	80.5	0.546	21.1	18.2	398	---	---	PACE
ESE-3	6/18/2001	178.20	11.42	166.78	380	47	ND<0.5	3.11	ND<1.5	242	---	---	PACE
ESE-3	9/18/2001	178.20	11.55	166.65	340	54.8	ND<0.5	4.36	ND<1.5	79.7	---	---	PACE

Table 1
Groundwater Elevation and Analytical Data
 Former BP Service Station #11105
 3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
ESE-3	12/13/2001	178.20	10.12	168.08	270	31.4	ND<0.5	1.31	2.24	129	---	PACE
ESE-3	3/14/2002	178.20	9.84	168.36	670	89.8	0.769	23.4	30.4	413	---	PACE
ESE-3	6/19/2002	178.20	10.57	167.63	130	18.6	ND<0.5	ND<0.5	ND<1.0	166	---	PACE
ESE-3	9/10/02*	178.20	9.90	168.30	88	12	ND<0.5	ND<0.5	ND<0.5	93	---	SEQ
ESE-3	12/16/2002	178.20	9.23	168.97	290	55	17	3.7	14	78	---	SEQ
ESE-3	3/11/2003	178.20	9.05	169.15	100	3.4	ND<0.50	0.54	ND<0.50	140	---	SEQ
ESE-3	6/17/2003 (n)	178.20	9.30	168.90	520	17	ND<5.0	5.3	ND<5.0	130	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB	
ESE-4	10/5/1992	177.73	10.33	167.40	98	7.2	1.3	1.1	6.1	---	(l)	---	PACE
ESE-4	4/1/1993	177.73	7.88	169.85	550	93	20	23	33	---	(l)	---	PACE
ESE-4	6/29/1993	177.66	(f) 8.33	169.33	150	23	0.6	5.4	0.5	54	(e)(l)	---	PACE
ESE-4	9/23/1993	177.66	10.05	167.61	110	14	1.7	3.2	4.6	---	(l)	---	PACE
ESE-4	12/10/1993	177.66	8.95	168.71	110	21	7.2	4.2	10	28.75	(l)	2.8	PACE
ESE-4	2/17/1994	177.66	8.65	169.01	210	26	1.2	4.7	11	113	(e)(l)	---	PACE
ESE-4	8/8/1994	177.66	9.76	167.90	76	9.6	ND<0.5	2	ND<0.5	62	(e)	7.0	PACE
ESE-4	10/12/1994	177.66	9.62	168.04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	44	(e)	3.2	PACE
ESE-4	1/19/1995	177.66	6.97	170.69	140	56	14	24	23	---	---	6.9	ATI
ESE-4	5/2/1995	177.66	7.85	169.81	130	21	2.8	8.6	8.2	---	---	9.1	ATI
ESE-4	7/28/1995	177.66	9.20	168.46	ND<50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	---	---	8.1	ATI
ESE-4	11/17/1995	177.66	9.68	167.98	ND<50	ND<0.5	0.6	ND<0.50	ND<1.0	18	---	5.7	ATI
ESE-4	2/7/1996	177.66	6.59	171.07	100	2.6	ND<1	1.6	4.1	42	---	2.0	SPL
ESE-4	4/23/1996	177.66	8.30	169.36	160	37	15	16	31	43	---	5.4	SPL
ESE-4	7/9/1996	177.66	9.21	168.45	60	17	1.5	6.8	11.6	27	---	3.9	SPL
ESE-4	10/10/1996	177.66	9.97	167.69	---	---	---	---	---	---	---	---	---
ESE-4	10/11/1996	177.66	---	---	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	18	---	5.5	SPL
ESE-4	1/20/1997	177.66	7.68	169.98	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	130	---	4.9	SPL
ESE-4	4/25/1997	177.66	9.15	168.51	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.3	SPL
ESE-4	7/18/1997	177.66	9.71	167.95	ND<50	15	ND<10	ND<10	ND<10	ND<100	---	4.5	SPL
ESE-4	10/27/1997	177.66	9.38	168.28	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.9	SPL
ESE-4	1/22/1997	177.66	6.59	171.07	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	SPL
ESE-4	4/23/1998	177.66	7.90	169.76	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.0	SPL
ESE-4	7/29/1998	177.66	8.96	168.70	---	---	---	---	---	---	---	---	---
ESE-4	7/30/1998	---	---	---	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	SPL
ESE-4	12/17/1998	177.66	8.32	169.34	---	---	---	---	---	---	---	---	---
ESE-4	3/19/1999	177.66	7.71	169.95	---	---	---	---	---	---	---	---	---
ESE-4	6/23/1999	177.66	8.78	168.88	---	---	---	---	---	---	---	---	---
ESE-4	9/27/1999	177.66	9.27	168.39	---	---	---	---	---	---	---	---	---
ESE-4	12/9/1999	177.66	9.21	168.45	---	---	---	---	---	---	---	---	---
ESE-4	3/9/2000	177.66	6.82	170.84	---	---	---	---	---	---	---	---	---
ESE-4	6/8/2000	177.66	8.72	168.94	---	---	---	---	---	---	---	---	---
ESE-4	9/18/2000	177.66	9.02	168.64	---	---	---	---	---	---	---	---	---
ESE-4	12/14/2000	177.66	8.61	169.05	---	---	---	---	---	---	---	---	---
ESE-4	3/21/2001	177.66	8.61	169.05	---	---	---	---	---	---	---	---	---
ESE-4	6/18/2001	177.66	9.24	168.42	---	---	---	---	---	---	---	---	---
ESE-4	9/18/2001	177.66	9.35	168.31	---	---	---	---	---	---	---	---	---

Table 1
Groundwater Elevation and Analytical Data
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WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
ESE-4	12/13/2001	177.66	8.53	169.13	---	---	---	---	---	---	---	---
ESE-4	3/14/2002	177.66	8.44	169.22	---	---	---	---	---	---	---	---
ESE-4	6/19/2002	177.66	10.97	166.69	---	---	---	---	---	---	---	---
ESE-4	9/10/02*	177.66	9.27	168.39	---	---	---	---	---	---	---	---
ESE-4	12/16/2002	177.66	6.90	170.76	---	---	---	---	---	---	---	---
ESE-4	3/11/2003	177.66	8.83	168.83	---	---	---	---	---	---	---	---
ESE-4	6/17/2003	177.66	8.84	168.82	---	---	---	---	---	---	---	---

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WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
ESE-5	10/5/1992	176.08	9.22	166.86	1300	200	3.8	1.2	18	---	(l) ---	PACE
ESE-5	4/1/1993	176.08	7.02	169.06	13000	2200	26	730	1000	---	(l) ---	PACE
QC-1 (d)	4/1/1993	---	---	---	13000	2500	25	740	1100	---	(l) ---	PACE
ESE-5	6/29/1993	176.08	10.21	165.87	7600	1500	9.3	170	100	---	(l) ---	PACE
ESE-5	9/23/1993	176.08	10.64	165.44	560	19	1.2	0.9	1.8	---	(l) ---	PACE
ESE-5	12/10/1993	176.08	9.42	166.66	1700	300	3	76	110	14.07	(l) 2.5	PACE
ESE-5	2/7/1994	176.08	9.35	166.73	3500	640	7.8	90	130	45.13	(l) ---	PACE
ESE-5	8/8/1994	176.08	8.76	167.32	2600	210	4.6	9.4	4.4	33	(e) 5.8	PACE
QC-1 (d)	8/8/1994	---	---	---	2500	230	4.6	13	4.8	32	(e) ---	PACE
ESE-5	10/12/1994	176.08	8.95	167.13	5600	560	9.5	75	21	79.2	(l) 3.6	PACE
QC-1 (d)	10/12/1994	---	---	---	6000	550	10	78	22	77	(e) ---	PACE
ESE-5	1/19/1995	176.08	5.40	170.68	1900	620	ND<5	95	15	---	7.6	ATI
QC-1 (d)	1/19/1995	---	---	---	1600	620	ND<5	93	17	---	---	ATI
ESE-5	5/2/1995	176.08	6.48	169.60	5700	1100	ND<10	180	58	---	8.2	ATI
QC-1 (d)	5/2/1995	---	---	---	5300	1100	ND<10	180	58	---	---	ATI
ESE-5	7/28/1995	176.08	7.97	168.11	520	15	ND<0.50	1.7	1.3	---	8.2	ATI
QC-1 (d)	7/28/1995	---	---	---	460	7.2	ND<0.50	1.9	1.5	---	---	ATI
ESE-5	11/17/1995	176.08	8.39	167.69	850	39	1.8	7.6	2.7	24	6.3	ATI
ESE-5	2/7/1996	176.08	4.71	171.37	4100	670	6	190	140	ND<50	1.5	SPL
ESE-5	4/23/1996	176.08	7.35	168.73	3000	570	ND<5	79	100	84	6.5	SPL
ESE-5	7/9/1996	176.08	9.40	166.68	620	150	1.7	9.3	6.4	25	3.7	SPL
ESE-5	10/10/1996	176.08	9.04	167.04	1100	29	ND<5.0	ND<5.0	ND<5.0	ND<50	6.3	SPL
QC-1 (d)	10/10/1996	---	---	---	1100	31	ND<5.0	ND<5.0	ND<5.0	ND<50	---	SPL
ESE-5	1/20/1997	176.08	5.82	170.26	2100	980	ND<25	280	80	ND<250	5.4	SPL
QC-1 (d)	1/20/1997	---	---	---	2700	910	8.8	280	84	180	---	SPL
ESE-5	4/25/1997	176.08	7.24	168.84	---	---	---	---	---	---	---	---
ESE-5	4/28/1997	176.08	---	---	ND<250	7.9	ND<5.0	ND<5.0	ND<5.0	ND<50	4.9	SPL
ESE-5	7/18/1997	176.08	7.86	168.22	1200	ND<5	ND<10	ND<10	ND<10	ND<100	5.0	SPL
QC-1 (d)	7/18/1997	---	---	---	630	31	ND<5.0	ND<5.0	ND<5.0	130	---	SPL
ESE-5	10/27/1997	176.08	7.91	168.17	ND<250	5.4	ND<5.0	ND<5.0	ND<5.0	ND<50	5.2	SPL
ESE-5	1/22/1998	176.08	4.64	171.44	170	7.7	ND<1.0	ND<1.0	ND<1.0	130	4.6	SPL
ESE-5	4/23/1998	176.08	6.31	169.77	720	79	ND<5.0	9.0	ND<5.0	180	4.6	SPL
ESE-5	7/29/1998	176.08	7.43	168.65	---	---	---	---	---	---	---	---
ESE-5	7/30/1998	---	---	---	840	9.8	ND<1.0	4.0	ND<1.0	710	4.3	SPL
ESE-5	12/17/1998	176.08	7.05	169.03	---	---	---	---	---	---	---	---
ESE-5	3/19/1999	176.08	5.00	171.08	ND<250	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	---	SPL
ESE-5	6/23/1999	176.08	7.77	168.31	---	---	---	---	---	---	---	SPL

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WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
ESE-5	9/27/1999	176.08	8.11	167.97	450	10	ND<5.0	6.3	ND<5.0	220	---	SPL
ESE-5	12/9/1999	176.08	7.66	168.42	---	---	---	---	---	---	---	---
ESE-5	3/9/2000	176.08	5.08	171.00	1700	170	2.5	45	6.4	140	---	PACE
ESE-5	6/8/2000	176.08	7.36	168.72	---	---	---	---	---	---	---	---
ESE-5	9/18/2000	176.08	7.71	168.37	130	0.65	ND<0.5	0.71	ND<0.5	51	---	PACE
ESE-5	12/14/2000	176.08	2.36	173.72	---	---	---	---	---	---	---	---
ESE-5	3/21/2001	176.08	7.42	168.66	1000	10.3	ND<2.5	11	ND<7.5	70.8	---	PACE
ESE-5	6/18/2001	176.08	7.92	168.16	---	---	---	---	---	---	---	---
ESE-5	9/18/2001	176.08	8.05	168.03	200	0.868	ND<0.5	0.55	ND<1.5	57.5	---	PACE
ESE-5	12/13/2001	176.26	(m) 7.80	168.46	---	---	---	---	---	---	---	---
ESE-5	3/14/2002	176.26	6.55	169.71	1300	17.1	1.35	15.4	1.42	37.4	---	PACE
ESE-5	6/19/2002	176.26	7.83	168.43	---	---	---	---	---	---	---	---
ESE-5	9/10/02*	176.26	8.22	168.04	680	9.9	ND<5.0	ND<5.0	ND<5.0	44	---	SEQ
ESE-5	12/16/2002	176.26	6.58	169.68	---	---	---	---	---	---	---	---
ESE-5	3/11/2003	176.26	6.77	169.49	2100	14	ND<2.5	15	3.0	80	---	---
ESE-5	6/17/2003	176.26	6.75	169.51	---	---	---	---	---	---	---	---

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WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
MW-6	7/28/1995	179.24	10.00	169.24	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	8.1	ATI
MW-6	11/17/1995	179.24	10.44	168.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	6.8	ATI
MW-6	2/7/1996	179.24	7.68	171.56	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	2.4	SPL
MW-6	4/23/1996	179.24	9.33	169.91	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	6.6	SPL
MW-6	7/9/1996	179.24	10.10	169.14	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	2.7	SPL
MW-6	10/10/1996	179.24	11.00	168.24	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.9	SPL
MW-6	1/20/1997	179.24	8.70	170.54	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.5	SPL
MW-6	4/25/1997	179.24	10.16	169.08	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.1	SPL
MW-6	7/18/1997	179.24	10.66	168.58	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.8	SPL
MW-6	10/27/1997	179.24	10.25	168.99	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.8	SPL
MW-6	1/22/1998	179.24	7.76	171.48	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.0	SPL
MW-6	4/23/1998	179.24	9.10	170.14	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.2	SPL
MW-6	7/29/1998	179.24	10.40	168.84	---	---	---	---	---	---	---	---
MW-6	7/30/1998	---	---	---	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	3.8	SPL
MW-6	12/17/1998	179.24	9.40	169.84	---	---	---	---	---	---	---	---
MW-6	3/19/1999	179.24	9.10	170.14	---	---	---	---	---	---	---	---
MW-6	6/23/1999	179.24	9.79	169.45	---	---	---	---	---	---	---	---
MW-6	9/27/1999	179.24	10.10	169.14	---	---	---	---	---	---	---	---
MW-6	12/9/1999	179.24	9.97	169.27	---	---	---	---	---	---	---	---
MW-6	3/9/2000	179.24	8.56	170.68	---	---	---	---	---	---	---	---
MW-6	6/8/2000	179.24	9.11	170.13	---	---	---	---	---	---	---	---
MW-6	9/18/2000	179.24	9.77	169.47	---	---	---	---	---	---	---	---
MW-6	12/14/2000	179.24	9.17	170.07	---	---	---	---	---	---	---	---
MW-6	3/21/2001	179.24	9.82	169.42	---	---	---	---	---	---	---	---
MW-6	6/18/2001	179.24	10.19	169.05	---	---	---	---	---	---	---	---
MW-6	9/18/2001	179.24	10.25	168.99	---	---	---	---	---	---	---	---
MW-6	12/13/2001	179.24	9.75	169.49	---	---	---	---	---	---	---	---
MW-6	3/14/2002	179.24	9.53	169.71	---	---	---	---	---	---	---	---
MW-6	6/19/2002	179.24	9.87	169.37	---	---	---	---	---	---	---	---
MW-6	9/10/02*	179.24	9.49	169.75	---	---	---	---	---	---	---	---
MW-6	12/16/2002	179.24	8.39	170.85	---	---	---	---	---	---	---	---
MW-6	3/11/2003	179.24	9.40	169.84	---	---	---	---	---	---	---	---
MW-6	6/17/2003	179.24	9.71	169.53	---	---	---	---	---	---	---	---

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Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
MW-7	7/28/1995	176.55	9.25	167.30	ND<50	0.54 (g)	0.54	ND<0.50	ND<1.0	---	7.1	ATI
MW-7	11/17/1995	176.55	9.73	166.82	1100	ND<10	ND<10	ND<10	ND<20	4000	6.3	ATI
MW-7	2/7/1996	176.55	6.48	170.07	610	ND<0.5	ND<1	ND<1	ND<1	2500	4.1	SPL
QC-1 (d)	2/7/1996	---	---	---	280	ND<0.5	ND<1	ND<1	ND<1	2600	---	SPL
MW-7	4/23/1996	176.55	8.37	168.18	110	ND<0.5	ND<1	ND<1	ND<1	3500	6.4	SPL
QC-1 (d)	4/23/1996	---	---	---	230	ND<0.5	ND<1	ND<1	ND<1	3500	---	SPL
MW-7	7/9/1996	176.55	9.24	167.31	230	ND<0.5	ND<1	ND<1	ND<1	4296	3.1	SPL
QC-1 (d)	7/9/1996	---	---	---	220	ND<0.5	ND<1	ND<1	ND<1	4400	---	SPL
MW-7	10/10/1996	176.55	10.05	166.50	---	---	---	---	---	---	---	---
MW-7	10/11/1996	176.55	---	---	1600	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3000	6.9	SPL
MW-7	1/20/1997	176.55	7.51	169.04	ND<50	0.63	1	ND<1.0	ND<1.0	2600	5.7	SPL
MW-7	4/25/1997	176.55	8.79	167.76	---	---	---	---	---	---	---	---
MW-7	4/28/1997	176.55	---	---	1500	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3600	5.1	SPL
QC-1 (d)	4/28/1997	---	---	---	7700	3500	ND<25	74	37	ND<250	---	SPL
MW-7	7/18/1997	176.55	9.50	167.05	1400	ND<0.5	ND<1.0	ND<1.0	ND<1.0	2600	5.2	SPL
MW-7	10/27/1997	176.55	9.19	167.36	420	ND<0.5	ND<1.0	ND<1.0	ND<1.0	560	4.9	SPL
MW-7	1/22/1998	176.55	6.45	170.10	3100	ND<0.5	ND<1.0	ND<1.0	1.4	2300	4.2	SPL
MW-7	4/23/1998	176.55	8.02	168.53	3800	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3800	3.9	SPL
MW-7	7/29/1998	176.55	8.88	167.67	---	---	---	---	---	---	---	---
MW-7	7/30/1998	---	---	---	500	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	4.1	SPL
QC-1 (d)	7/30/1998	---	---	---	4700	ND<12	ND<25	ND<25	ND<25	4700	---	SPL
MW-7	12/17/1998	176.55	8.62	167.93	---	---	---	---	---	---	---	---
MW-7	3/19/1999	176.55	7.52	169.03	3800	ND<1.0	ND<1.0	ND<1.0	ND<1.0	3800	---	SPL
MW-7	6/23/1999	176.55	9.63	166.92	---	---	---	---	---	---	---	---
MW-7	9/27/1999	176.55	9.39	167.16	140	ND<10	ND<10	ND<10	ND<10	3800	---	SPL
MW-7	12/9/1999	176.55	9.94	166.61	---	---	---	---	---	---	---	---
MW-7	3/9/2000	176.55	6.72	169.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1400	---	PACE
MW-7	6/8/2000	176.55	7.38	169.17	---	---	---	---	---	---	---	---
MW-7	9/18/2000	176.55	9.18	167.37	190	ND<0.5	ND<0.5	ND<0.5	ND<0.5	580	---	PACE
MW-7	12/14/2000	176.55	8.13	168.42	---	---	---	---	---	---	---	---
MW-7	3/21/2001	176.55	8.98	167.57	1300	ND<0.5	ND<0.5	ND<0.5	ND<1.5	1460	---	PACE
MW-7	6/18/2001	176.55	9.68	166.87	---	---	---	---	---	---	---	---
MW-7	9/18/2001	176.55	9.80	166.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.5	94.9	---	PACE
MW-7	12/13/2001	176.55	9.26	167.29	---	---	---	---	---	---	---	---
MW-7	3/14/2002	176.55	8.69	167.86	800	ND<0.5	ND<0.5	ND<0.5	ND<1.0	952	---	PACE
MW-7	6/19/2002	176.55	9.06	167.49	---	---	---	---	---	---	---	---
MW-7	9/10/02*	176.55	9.23	167.32	260	ND<2.0	ND<2.0	ND<2.0	ND<2.0	580	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
MW-7	12/16/2002	176.55	7.77	168.78	---	---	---	---	---	---	---	---
MW-7	3/11/2003	176.55	8.30	168.25	620	ND<2.5	ND<2.5	ND<2.5	ND<2.5	1100	---	---
MW-7	6/17/2003	176.55	9.51	167.04	---	---	---	---	---	---	---	---

Table 1
Groundwater Elevation and Analytical Data
 Former BP Service Station #11105
 3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
MW-8	7/28/1995	176.34	7.80	168.54	1100	ND<2.5	ND<2.5	ND<2.5	ND<5.0	---	7.2	ATI
MW-8	11/17/1995	176.34	8.29	168.05	8300	75	5.3	670	240	140	7.0	ATI
MW-8	2/7/1996	176.34	4.99	171.35	2300	33	ND<10	190	216	ND<100	1.7	SPL
MW-8	4/23/1996	176.34	6.09	170.25	2000	390	ND<20	150	26	ND<250	5.1	SPL
MW-8 (h)	7/9/1996	---	---	---	---	---	---	---	---	---	---	---
QC-2 (i)	4/1/1993	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l) ---	PACE
QC-2 (i)	6/29/1993	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l) ---	PACE
QC-2 (i)	9/23/1993	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l) ---	PACE
QC-2 (i)	12/10/1993	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l) ---	PACE
QC-2 (i)	2/17/1994	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	8/8/1994	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	10/12/1994	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	1/19/1995	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	ATI
QC-2 (i)	5/2/1995	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2 (i)	7/28/1995	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2 (i)	11/17/1995	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI
QC-2 (i)	2/7/1996	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	SPL
QC-2 (i)	4/23/1996	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	SPL
QC-2 (i)	7/9/1996	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	SPL

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
DO	Dissolved oxygen
ug/L	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not applicable/available/measured/analyzed
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories
SEQ	Sequoia Analytical

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

NOTES:

- (a) Top of casing elevations surveyed relative to mean sea level.
 - (b) Groundwater elevations in feet relative to mean sea level.
 - (c) Additional analysis of the sample collected from ESE-1 on 10/5/92 detected 96 ug/L total petroleum hydrocarbons as diesel and 1.8 ug/L 1,2-dichloroethane.
 - (d) Blind duplicate.
 - (e) A copy of the documentation for this data is included in Alisto report 10-138-09-004.
 - (f) Top of casing lowered by 0.07 foot after the monitoring event on 4/01/93.
 - (g) Sample result may be falsely elevated due to matrix interference.
 - (h) Well destroyed.
 - (i) Travel blank.
 - (j) Gasoline does not include MTBE.
 - (k) Well Inaccessible.
 - (l) A copy of the documentation for this data can be found in Blaine Tech Services report 010618-J-1. MTBE data for the September 28, 1992, September 29, 1992, October 5, 1992, and April 1, 1993 sampling events have been destroyed.
No chromatograms could be located for MTBE data from wells sampled on June 29, 1993; wells ESE-1, ESE-3, ESE-4, ESE-5, and the Trip Blank, sampled on September 23, 1993; and wells ESE-1, ESE-2, and ESE-3, sampled on December 10, 1993.
 - (m) Top of casing altered due to wellhead maintenance.
 - (n) Analyzed for TPH-g, BTEX, MTBE and fuel oxygenates by EPA Method 8260B on 6/17/03 sampling event.
 - (*) MTBE by EPA 8020/8260.
- * During the second quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP.

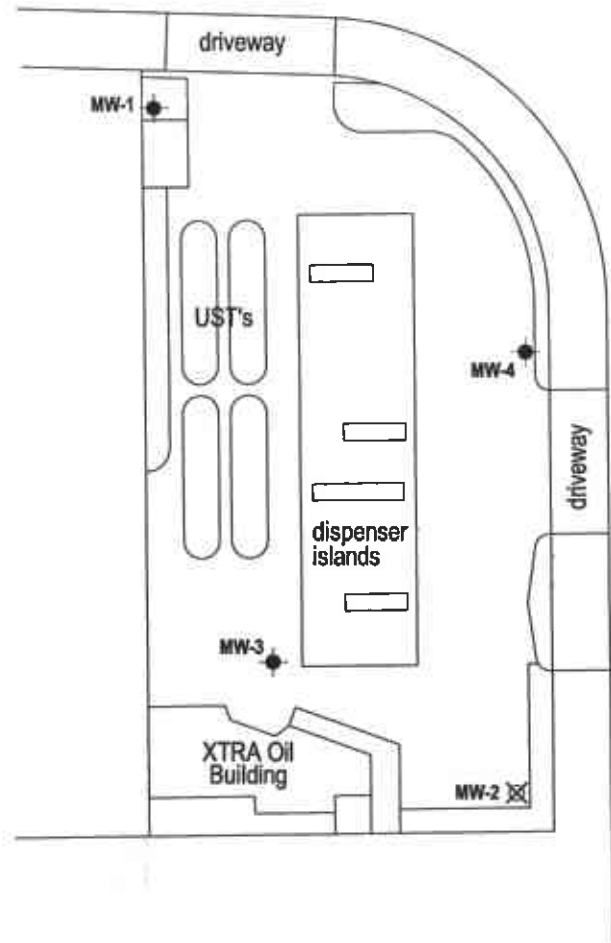
Source: The data within this table collected prior to June 2002 was provided to URS by BP Group Environmental Management company and their previous consultants. URS has not verified the accuracy of this information.

Table 2
Fuel Oxygenates Analytical Data
 Former BP Service Station #11105
 3519 Castro Valley Blvd, Castro Valley, CA

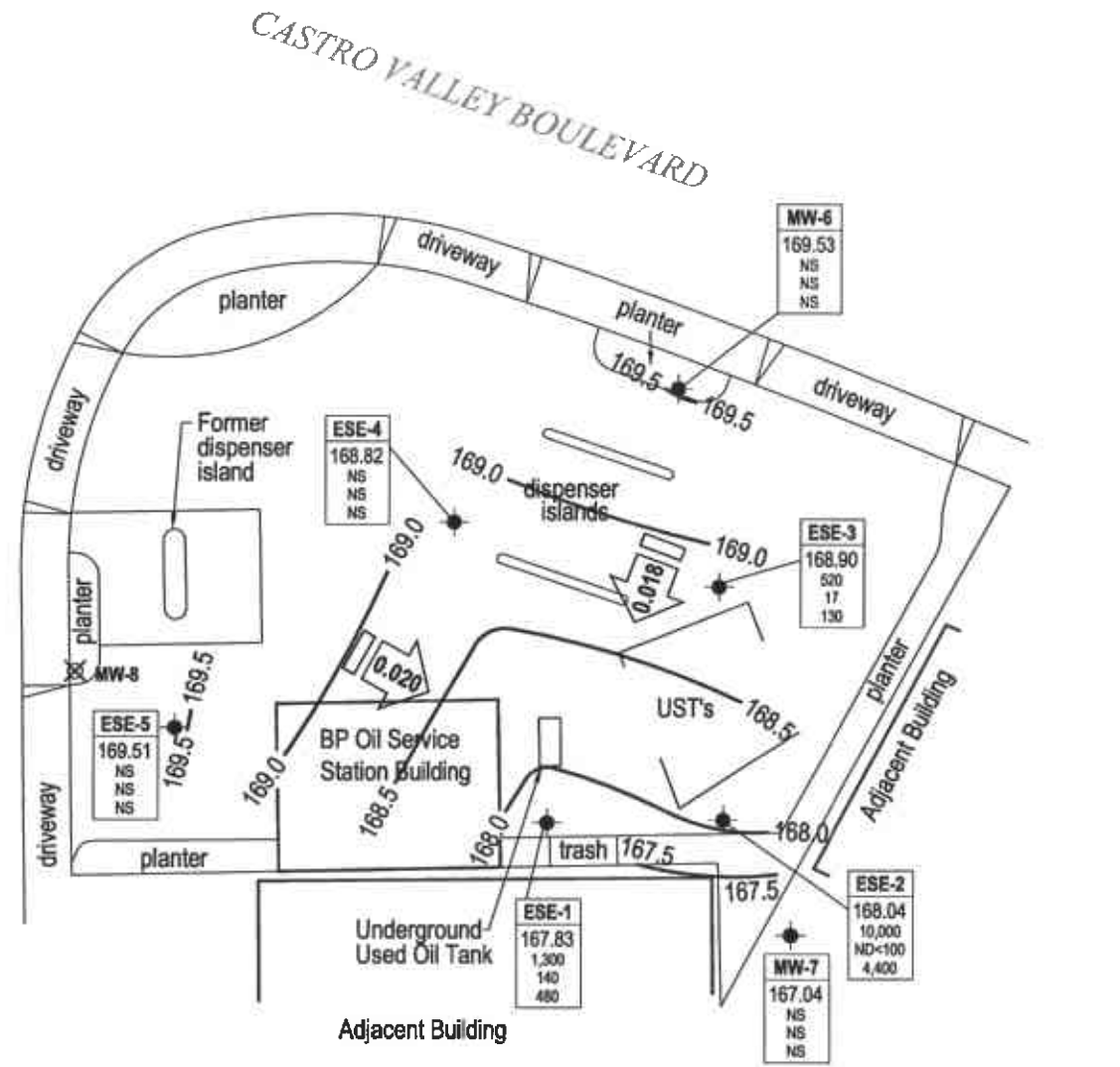
Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
ESE-1	06/17/03	ND<2,000	ND<400	480	ND<10	ND<10	18
ESE-2	06/17/03	ND<20,000	ND<4,000	4,400	ND<100	ND<100	ND<100
ESE-3	06/17/03	ND<1,000	ND<200	130	ND<5.0	ND<5.0	ND<5.0

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
 µg/L = micrograms per liter
 ND< = Not detected at or above specified laboratory method detection limit

X:\a_001\wast\BP_GEMSite\Site\Niles Sheet11106\Reports\Monitoring\Corr. 2, 2003\Drawings\GWEC-AS_6-17.dwg, 07/18/2003 02:58:08 PM, JKMT, URS

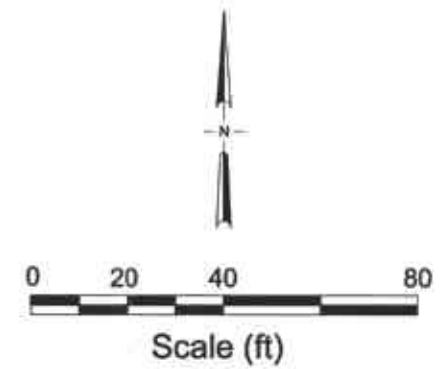


REDWOOD ROAD



EXPLANATION

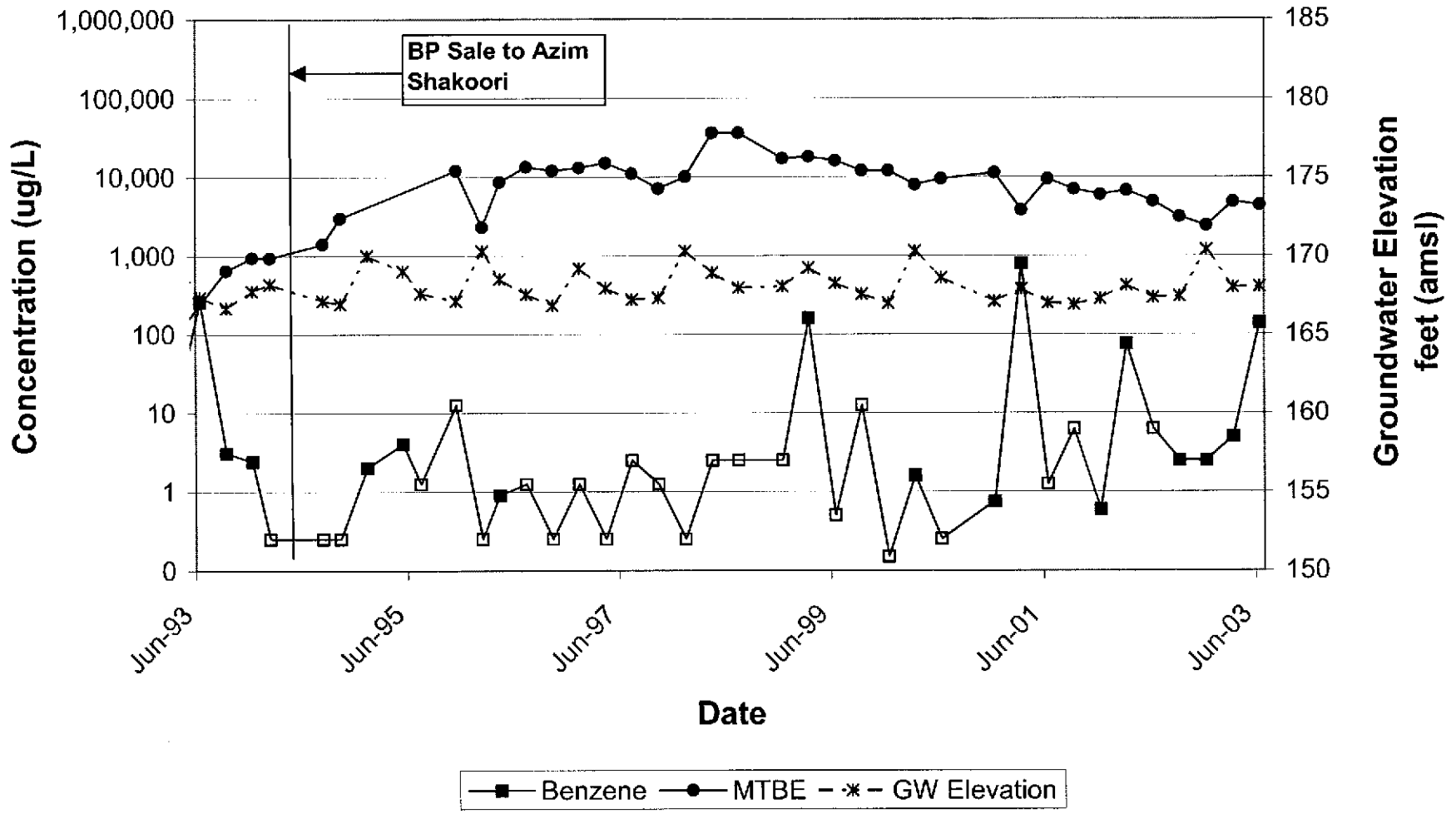
- ⊗ Abandoned monitoring well
- ⊕ Monitoring well
- Well ID — Well Designation
- ELEV — Groundwater elevation (ft above MSL)
- TPHg — Concentration of TPH-g, Benzene and MTBE in groundwater in micrograms per liter (µg/L)
- ND< — Not detected at or above laboratory reporting limits
- NS — Not Sampled
- 169.0 Groundwater elevation contour (Feet above MSL)
- ← 0.020 Approximate groundwater flow direction and gradient (ft/ft)



URS	Project No. 38486236	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Second Quarter 2003 (June 17, 2003)	FIGURE 1
	Former BP Service Station #11105 3519 Castro Valley Boulevard Castro Valley, California		

ATTACHMENT A
CONCENTRATION AND WATER LEVEL TRENDS
(ESE-2)

Concentration and Water Level Trends ESE-2



Former BP Service Station #11105
3519 Castro Valley Boulevard
Castro Valley, California

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 # 030617-MM Date 6/17/03 Client BP 11105

Site 3519 CASANO VALLEY BLVD., CASANO VALLEY

6
7
3
1
5
2
4

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	
ESE-1	2					9.86	29.22	TOC	S
ESE-2	2					10.19	27.00	}	S
ESE-3	2					9.30	29.80		S
ESE-4	2					8.84	22.54		GO
ESE-5	2					6.75	23.83		GO
MW-6	2					9.71	28.95		GO
MW-7	2					9.51	29.00	✓	GO

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030617-MM1	Station # BP 11105
Sampler: MM	Date: 6/17/03
Well I.D.: ESE-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29.22	Depth to Water: 9.86
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

19.36
13.73 = 80%

Purge Method: Bailer Disposable Bailer (Middleburg) Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer (Disposable Bailer) Extraction Port Other: _____
--	---

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

3.1	x	3	=	9.3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
805	64.3	6.8	943	3.1	clear
812	65.2	6.9	942	6.2	cloudy (light brown)
818	65.2	6.9	930	9.3	DTW = 10.50

Did well dewater? Yes No Gallons actually evacuated: 9.3

Sampling Time: 825 DTW = 10.50 Sampling Date: 6/17/03

Sample I.D.: ESE-1 Laboratory: Pace Sequoia Other _____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's + Ethanol (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 #: 030617-MM1	Station # BP 1105
Sampler: MM	Date: 6/17/03
Well I.D.: ESE-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 27.00	Depth to Water: 10.19
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) 2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

16-81
13.55 = 80%

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

Sampling Method: Bailer Disposable Bailer Extraction Port
Other: _____

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

2.7	x	3	=	8.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
844	64.3	6.8	990	2.7	clear
847	64.3	6.8	965	5.4	
850	64.5	6.8	962	8.1	DW = 12.22

Did well dewater? Yes No Gallons actually evacuated: 8.1

Sampling Time: 855 DW = 12.22 Sampling Date: 6/17/03

Sample I.D.: ESE-2 Laboratory: Pace Sequoia Other _____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's + Ethanol (B260)

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 #: 030617-MM1	Station # BP 11105
Sampler: MM	Date: 6/17/03
Well I.D.: ESE-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29.00	Depth to Water: 9.30
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

26.5
13.40 = 80%

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

Sampling Method: Bailer Disposable Bailer Extraction Port
Other: _____

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

3.3	x	3	=	9.9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
725	68.1	6.8	1032	3.5	clear, slight gas odor
730	67.3	6.7	988	7.0	
734	66.7	6.7	979	10.5	DN = 13.24

Did well dewater? Yes No Gallons actually evacuated: 10.5

Sampling Time: 740 DN = 13.24 Sampling Date: 6/17/03

Sample I.D.: ESE-3 Laboratory: Pace Sequoia Other _____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's + Ethanol (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 GEM OIL COMPANY TYPE A BILL OF LADING

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

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

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

BP 11105

Station #

3519 CASTRO VALLEY BLVD., CASTRO VALLEY

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

27.9

added equip. 7.0 any other adjustments _____

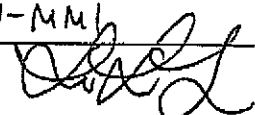
rinse water _____

TOTAL GALS. RECOVERED 34.9

loaded onto BTS vehicle # 12

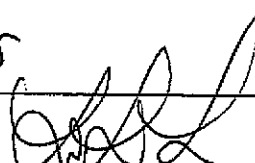
BTS event # time date

030617-MMH 920 6/17/03

signature 

REC'D AT time date

BTS 1320 6/17/03

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.



1 July, 2003

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

RE: BP Heritage #11105, Castro Valley, CA
Sequoia Work Order: MMF0436

Enclosed are the results of analyses for samples received by the laboratory on 06/17/03 15:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate #1210



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

Project: BP Heritage #11105, Castro Valley, CA
Project Number: N/P
Project Manager: Leonard Niles

MMF0436
Reported:
07/01/03 06:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ESE-1	MMF0436-01	Water	06/17/03 08:25	06/17/03 15:06
ESE-2	MMF0436-02	Water	06/17/03 08:55	06/17/03 15:06
ESE-3	MMF0436-03	Water	06/17/03 07:40	06/17/03 15:06

There were no custody seals that were received with this project.

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

 Project: BP Heritage #11105, Castro Valley, CA
 Project Number: N/P
 Project Manager: Leonard Niles

 MMF0436
 Reported:
 07/01/03 06:48

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ESE-1 (MMF0436-01) Water Sampled: 06/17/03 08:25 Received: 06/17/03 15:06									
Ethanol	ND	2000	ug/l	20	3F24003	06/24/03	06/25/03	EPA 8260B	
tert-Butyl alcohol	ND	400	"	"	"	"	"	"	
Methyl tert-butyl ether	480	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
tert-Amyl methyl ether	18	10	"	"	"	"	"	"	
Benzene	140	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	1300	1000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		115 %	78-129	"	"	"	"	"	
ESE-2 (MMF0436-02) Water Sampled: 06/17/03 08:55 Received: 06/17/03 15:06									
Ethanol	ND	20000	ug/l	200	3F24003	06/24/03	06/25/03	EPA 8260B	
tert-Butyl alcohol	ND	4000	"	"	"	"	"	"	
Methyl tert-butyl ether	4400	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	100	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	100	"	"	"	"	"	"	
Benzene	ND	100	"	"	"	"	"	"	
Toluene	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	100	"	"	"	"	"	"	
Xylenes (total)	ND	100	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	10000	10000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	78-129	"	"	"	"	"	



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

Project: BP Heritage #11105, Castro Valley, CA
Project Number: N/P
Project Manager: Leonard Niles

MMF0436
Reported:
07/01/03 06:48

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ESE-3 (MMF0436-03) Water Sampled: 06/17/03 07:40 Received: 06/17/03 15:06									
Ethanol	ND	1000	ug/l	10	3F24003	06/24/03	06/24/03	EPA 8260B	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Methyl tert-butyl ether	130	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	17	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	5.3	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	520	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		78-129	"	"	"	"	

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

 Project: BP Heritage #11105, Castro Valley, CA
 Project Number: N/P
 Project Manager: Leonard Niles

 MMF0436
 Reported:
 07/01/03 06:48

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F24003 - EPA 5035
Blank (3F24003-BLK1)

Prepared & Analyzed: 06/24/03

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	"							

<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.30		"	5.00		106	78-129			
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Laboratory Control Sample (3F24003-BS1)

Prepared & Analyzed: 06/24/03

Methyl tert-butyl ether	11.7	0.50	ug/l	10.0		117	63-137			
Benzene	10.5	0.50	"	10.0		105	78-124			
Toluene	10.7	0.50	"	10.0		107	78-129			

<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.36		"	5.00		107	78-129			
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Laboratory Control Sample (3F24003-BS2)

Prepared & Analyzed: 06/24/03

Methyl tert-butyl ether	7.76	0.50	ug/l	9.92		78.2	63-137			
Benzene	4.76	0.50	"	6.40		74.4	78-124			Q-LIM
Toluene	30.0	0.50	"	29.7		101	78-129			
Gasoline Range Organics (C6-C10)	356	50	"	440		80.9	70-113			

<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.09		"	5.00		102	78-129			
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Sequoia Analytical - Morgan Hill

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

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

 Project: BP Heritage #11105, Castro Valley, CA
 Project Number: N/P
 Project Manager: Leonard Niles

 MMF0436
 Reported:
 07/01/03 06:48

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3F24003 - EPA 5035									
Laboratory Control Sample Dup (3F24003-BSD1)					Prepared: 06/24/03 Analyzed: 06/25/03				
Methyl tert-butyl ether	10.4	0.50	ug/l	10.0		104 63-137	11.8	13	
Benzene	9.13	0.50	"	10.0		91.3 78-124	14.0	12	QR-02
Toluene	9.22	0.50	"	10.0		92.2 78-129	14.9	10	QR-02
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.22		"	5.00		104 78-129			
Laboratory Control Sample Dup (3F24003-BSD2)					Prepared: 06/24/03 Analyzed: 06/25/03				
Methyl tert-butyl ether	8.90	0.50	ug/l	9.92		89.7 63-137	13.7	13	QR-02
Benzene	4.69	0.50	"	6.40		73.3 78-124	1.48	12	Q-LIM
Toluene	29.8	0.50	"	29.7		100 78-129	0.669	10	
Gasoline Range Organics (C6-C10)	401	50	"	440		91.1 70-113	11.9	9	QR-02
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.35		"	5.00		107 78-129			
Matrix Spike (3F24003-MS1)					Source: MMF0436-03		Prepared & Analyzed: 06/24/03		
Methyl tert-butyl ether	188	5.0	ug/l	99.2	130	58.5 63-137			QM-07
Benzene	61.9	5.0	"	64.0	17	70.2 78-124			QM-07
Toluene	297	5.0	"	297	ND	100 78-129			
Gasoline Range Organics (C6-C10)	4510	500	"	4400	520	90.7 70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.76		"	5.00		95.2 78-129			
Matrix Spike Dup (3F24003-MSD1)					Source: MMF0436-03		Prepared & Analyzed: 06/24/03		
Methyl tert-butyl ether	227	5.0	ug/l	99.2	130	97.8 63-137	18.8	13	QR-07
Benzene	64.4	5.0	"	64.0	17	74.1 78-124	3.96	12	QM-07
Toluene	295	5.0	"	297	ND	99.3 78-129	0.676	10	
Gasoline Range Organics (C6-C10)	4410	500	"	4400	520	88.4 70-113	2.24	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.45		"	5.00		109 78-129			

Sequoia Analytical - Morgan Hill

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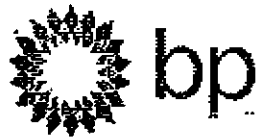
URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: BP Heritage #11105, Castro Valley, CA
Project Number: N/P
Project Manager: Leonard Niles

MMF0436
Reported:
07/01/03 06:48

Notes and Definitions

- Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their 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.
- QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-07 The RPD was outside control limits. The results may still be useful for their intended purpose.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Chain of Custody Record

Project Name 030617-MM/
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____

Date: 6/17/03

Requested Due Date (mm/dd/yy) _____

MMF 0936

On-site Time: 6:15 Temp: 60
 Off-site Time: 9:20 Temp: 60
 Sky Conditions: cloudy
 Meteorological Events: _____
 Wind Speed: _____ Direction: _____

Send To: _____	BP/GEM Facility No.: _____	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>3519 Castro Valley Blvd, Castro Valley, CA</u>	Address: <u>500 12th St, Ste. 200</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>11105</u>	<u>Oakland, CA 94609-4014</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long: _____	e-mail EDD: <u>ayed_rehan@urscorp.com</u>
Lab PM: <u>Latonya Pelt</u>	California Global ID #: <u>T0800100920</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	BP/GEM PM Contact: <u>Scott Hooton</u>	Consultant Tele/Fax: <u>510-874-1720 / 510-874-3268</u>
Report Type & QC Level: <u>Send EDP Reports</u>	Address: <u>295 SW 41st St., Bldg. 13 Ste N</u>	Consultant/Contractor PM: <u>Leonard Miles</u>
BP/GEM Account No.: <u>400-6-21124</u>	City: <u>Renton, WA 98055</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
	Tele/Fax: <u>425-251-0689/251-251-0736</u>	BP/GEM Work Release No.: _____

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis					Sample Point Lat/Long and Comments	
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-C/BTEX (8015/8016/8021) (8266)	TPH-D (8015)	MTBE (8021)	MTBE (8260)		MTBE, TAME, ETBE (8015/8016/8021) (8266)
1	ESE-1	825	X				01	3										
2	ESE-2	855	X				02	3										
3	ESE-3	740	X				02	3										
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>MICHAEL MCNAMARA</u>	Relinquished By / Affiliation: <u>[Signature] OTS</u>	Date: <u>6/18/03</u>	Time: <u>1359</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>6/17/03</u>	Time: <u>1506</u>
Sampler's Company: <u>BLAINE TECH SERVICES</u>						
Shipment Date: _____						
Shipment Method: _____						
Shipment Tracking No: _____						

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

Today Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 6 °F/C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
 REC. BY (PRINT) [Signature]
 WORKORDER: MMF0434

DATE REC'D AT LAB: 6/17/03
 TIME REC'D AT LAB: 15:06
 DATE LOGGED IN: 6-18-03

Drinking water for regulatory purposes: YES/NO YES NO
 Wastewater for regulatory purposes: YES/NO 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 / <input checked="" type="radio"/> Absent Intact / Broken*	01	A.C.	ESE-1	(3) vials	HCL	L	6/17/03	/
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*	02	L	2	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent	03	L	3	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
5. Airbill #:								
6. Sample Labels: <input checked="" type="radio"/> Present / Absent								
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*								
9. Does information on custody reports, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*								
10. Sample received within hold time: <input checked="" type="radio"/> Yes / No*								
11. Proper Preservatives used: <input checked="" type="radio"/> Yes / No*								
12. Temp Rec. at Lab: <u>6°C</u> Is temp 4 +/- 2°C? <input checked="" type="radio"/> Yes / No**								

(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

07/14/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage #11105, Castr
Work Order Number:	MMF0436
Global ID:	T0600100920
Lab Report Number:	MMF0436070120030648

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctf	Run	Sub
MMF0436070120 030648	ESE-1	MMF043601	W	CS	8260+OX	SW5035	06/17/03	06/24/03	06/25/03	3F24003	1	
MMF0436070120 030648	ESE-2	MMF043602	W	CS	8260+OX	SW5035	06/17/03	06/24/03	06/25/03	3F24003	1	
MMF0436070120 030648	ESE-3	MMF043603	W	CS	8260+OX	SW5035	06/17/03	06/24/03	06/24/03	3F24003	1	
		3F24003BSD1	WQ	BD1	8260+OX	SW5035	//	06/24/03	06/25/03	3F24003	1	
		3F24003BSD2	WQ	BD2	8260+OX	SW5035	//	06/24/03	06/25/03	3F24003	1	
		3F24003BS1	WQ	BS1	8260+OX	SW5035	//	06/24/03	06/24/03	3F24003	1	
		3F24003BS2	WQ	BS2	8260+OX	SW5035	//	06/24/03	06/24/03	3F24003	1	
		3F24003BLK1	WQ	LB1	8260+OX	SW5035	//	06/24/03	06/24/03	3F24003	1	
		3F24003MS1	W	MS1	8260+OX	SW5035	//	06/24/03	06/24/03	3F24003	1	
		3F24003MSD1	W	SD1	8260+OX	SW5035	//	06/24/03	06/24/03	3F24003	1	

EDFSAMP: Error Summary Log

07/14/03

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

EDFTEST: Error Summary Log

07/14/03

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

EDFRES: Error Summary Log

07/14/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3F24003MS1	MS1	W	8260+OX	PR	06/24/03	1	GROC6C10
Warning: extra parameter	3F24003MSD1	SD1	W	8260+OX	PR	06/24/03	1	GROC6C10
Warning: extra parameter	MMF043601	CS	W	8260+OX	PR	06/25/03	1	GROC6C10
Warning: extra parameter	MMF043601	CS	W	8260+OX	PR	06/25/03	1	XYLENES
Warning: extra parameter	MMF043602	CS	W	8260+OX	PR	06/25/03	1	GROC6C10
Warning: extra parameter	MMF043602	CS	W	8260+OX	PR	06/25/03	1	XYLENES
Warning: extra parameter	MMF043603	CS	W	8260+OX	PR	06/24/03	1	GROC6C10
Warning: extra parameter	MMF043603	CS	W	8260+OX	PR	06/24/03	1	XYLENES
Warning: extra parameter	3F24003BLK1	LB1	WQ	8260+OX	PR	06/24/03	1	GROC6C10
Warning: extra parameter	3F24003BLK1	LB1	WQ	8260+OX	PR	06/24/03	1	XYLENES
Warning: extra parameter	3F24003BS2	BS2	WQ	8260+OX	PR	06/24/03	1	GROC6C10
Warning: extra parameter	3F24003BSD2	BD2	WQ	8260+OX	PR	06/25/03	1	GROC6C10

EDFQC: Error Summary Log

07/14/03

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

EDFCL: Error Summary Log

07/14/03

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

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Confirmation Number: 2530300021

Date/Time of Submittal: 7/14/2003 9:51:25 AM

Facility Global ID: T0600100920

Facility Name: BP

Submittal Title: Second Quarter 2003 Groundwater Monitoring Report Site #11105

Submittal Type: GW Monitoring Report

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#11105

Submittal Date/Time: 7/14/2003 9:52:29 AM

**Confirmation
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Facility Global ID: T0600100920

Facility Name: BP

Submittal Title: First Quarter 2003 Groundwater Monitoring Report

Submittal Type: GW Monitoring Report

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Submittal Title: First Quarter 2003 Groundwater Monitoring Report. Site #11105

Submittal Date/Time: 6/18/2003 8:04:23 PM

Confirmation Number: 2166813492

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Confirmation Number: 6606598436

Date/Time of Submittal: 6/18/2003 8:06:24 PM

Facility Global ID: T0600100920

Facility Name: BP

Submittal Title: Fourth Quarter 2002 Groundwater Monitoring Report

Submittal Type: GW Monitoring Report

Logged in as URSCORP-OAKLAND (CONTRACTOR)

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Submittal Title: Fourth Quarter 2002 Groundwater Monitoring Report. Site #11105

Submittal Date/Time: 6/18/2003 8:07:35 PM

Confirmation Number: 8092014908

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