

Alameda County

February 13, 2003

FEB 19 2003

Environmental Health

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

Re: Third Quarter 2002 Groundwater Monitoring Report
Former BP Service Station #11105
3519 Castro Valley Boulevard
Castro Valley, California
URS Project #38466024

Dear Mr. Seery:

On behalf of BP (an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Third Quarter 2002 Groundwater Monitoring Report* for the Former BP Service Station #11105, located at 3519 Castro Valley Boulevard, Castro Valley, California.

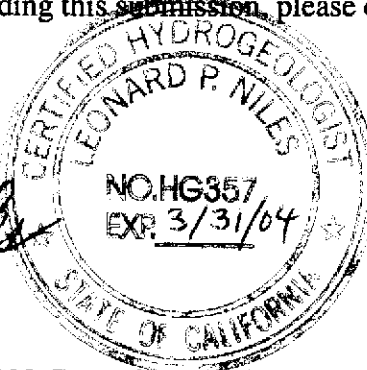
If you have any questions regarding this submission, please call me at (510) 874-1720.

Sincerely,

URS CORPORATION



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



Enclosure: Third Quarter 2002 Groundwater Monitoring Report

cc: Mr. Scott Hooton, BP Oil Company, Environmental Resources management, 295 SW 41st Street, Building 13, Suite N, Renton, WA 98055-4931
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

R E P O R T

Alameda County

FEB 19 2003

Environmental Health

**THIRD QUARTER 2002
GROUNDWATER MONITORING**

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

Prepared for
BP GEM

February 13, 2003

URS

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

38466024

Date: February 7, 2003
Quarter: 4Q 02

BP GEM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11105 Address: 3519 Castro Valley Boulevard, Castro Valley, California
BP Environmental Engineer: Scott Hooton
Consulting Co./Contact Person: URS Corporation/ Leonard Niles
Consultant Project No.: 38466024
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Fourth – 2002):

1. Performed fourth quarter 2002 groundwater monitoring event.
2. Prepared and submitted third quarter 2002 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (First – 2003):

1. Perform first quarter 2003 groundwater monitoring event.
2. Prepare and submit fourth quarter 2002 groundwater monitoring report.

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, biannual</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>6.58 (ESE-5) to 9.23 (ESE-3) feet</u>
Groundwater Gradient (direction):	<u>South-southwest to South -southeast</u>
Groundwater Gradient (magnitude):	<u>0.018 feet per foot</u>

DISCUSSION:

TPH-g was detected in all three wells sampled at concentrations ranging from 290 µg/L (ESE-3) to 1,400 µg/L (ESE-2). Benzene was detected in two of the three wells sampled at concentrations of 55 µg/L (ESE-3) and 140 µg/L (ESE-1). MTBE was detected in all three wells sampled at concentrations ranging from 78 µg/L (ESE-3) to 2,400 µg/L (ESE-2). Groundwater elevations across the site increased by an average of approximately 1.69 feet this quarter, and the groundwater flow direction varied from the South-southwest to the South-southeast at a calculated hydraulic gradient of 0.026 feet per foot.

ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – September 10, 2002
- 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

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)	10/5/92	177.69	11.22	166.47	2100	370	150	17	110	---	(l)	---	PACE
ESB-1D (d)	10/5/92	---	---	---	2300	370	160	16	110	---	(l)	---	PACE
ESB-1	4/1/93	177.69	8.79	168.90	5900	1500	410	110	390	---	(l)	---	PACE
ESB-1	6/29/93	177.69	10.34	167.35	7600	2900	390	130	460	---	(l)	---	PACE
ESB-1	9/23/93	177.69	10.91	166.78	2000	490	40	20	56	600	(e)(l)	---	PACE
QC-1 (d)	9/23/93	---	---	---	1500	420	39	19	56	550	(e)(l)	---	PACE
ESB-1	12/10/93	177.69	9.93	167.76	1800	480	42	19	66	921	(e)(l)	3.2	PACE
QC-1 (d)	12/10/93	---	---	---	1500	380	38	17	55	770	(e)(l)	---	PACE
ESB-1	2/17/94	177.69	9.64	168.05	1900	380	48	24	80	585	(e)(l)	---	PACE
QC-1 (d)	2/17/94	---	---	---	2200	430	42	19	65	491	(e)(l)	---	PACE
ESB-1	8/8/94	177.69	11.72	165.97	2100	450	46	16	50	760	(e)	5.1	PACE
ESB-1	10/12/94	177.69	10.48	167.21	760	240	16	51	39	230	(e)	3.5	PACE
ESB-1	1/19/95	177.69	7.77	169.92	840	600	120	22	58	---	---	8.0	ATI
ESB-1	5/2/95	177.69	8.69	169.00	2000	640	67	24	98	---	---	8.5	ATI
ESB-1	7/28/95	177.69	10.12	167.57	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	7.9	ATI
ESB-1	11/17/95	177.69	10.57	167.12	200	3.4	ND<1.0	1	ND<2.0	600	---	7.7	ATI
ESB-1	2/7/96	177.69	7.41	170.28	730	370	23	21	64	680	---	2.5	SPL
ESB-1	4/23/96	177.69	9.12	168.57	310	100	ND<1	ND<1	ND<1	1500	---	6.3	SPL
ESB-1	7/9/96	177.69	10.12	167.57	730	230	74	13	63	750	---	2.9	SPL
ESB-1	10/10/96	177.69	10.80	166.89	420	26	1.6	7.3	12	430	---	7.4	SPL
ESB-1	1/20/97	177.69	8.52	169.17	660	290	4.2	13	36	450	---	5.9	SPL
ESB-1	4/25/97	177.69	9.77	167.92	410	ND<0.5	ND<1.0	ND<1.0	ND<1.0	580	---	5.3	SPL
ESB-1	7/18/97	177.69	10.55	167.14	420	ND<0.5	ND<1.0	ND<1.0	ND<1.0	370	---	5.0	SPL
ESB-1	10/27/97	177.69	10.36	167.33	300	56	ND<1.0	6.5	ND<1.0	220	---	4.8	SPL
ESB-1	1/22/98	177.69	7.52	170.17	4200	440	9	15	17.7	1300	---	4.2	SPL
ESB-1	4/23/98	177.69	8.80	168.89	15000	3400	190	910	900	4900	---	4.2	SPL
QC-1	4/23/98	---	---	---	15000	2800	140	730	730	4400	---	---	SPL
ESE-1	7/29/98	177.69	9.73	167.96	---	---	---	---	---	---	---	---	---
ESE-1	7/30/98	---	---	---	15000	ND<2.5	ND<5.0	ND<5.0	ND<5.0	15000	---	4.0	SPL
ESE-1	12/17/98	177.69	9.51	168.18	2400	73	1.0	2.8	4.6	2000/2500*	---	---	SPL
ESE-1	3/19/99	177.69	8.65	169.04	4700	58	ND<1.0	ND>1.0	ND<1.0	4700	---	---	SPL
ESE-1	6/23/99	177.69	10.51	167.18	600	170	ND<1.0	7.2	5.0	3900	---	---	SPL
ESE-1	9/27/99	177.69	10.32	167.37	920	200	ND<25	ND<25	ND<25	4900	---	---	SPL
ESE-1	12/9/99	177.69	10.24	167.45	460	130	1.2	5.2	1.5	5100	---	---	PACE
ESE-1	3/9/00	177.69	7.72	169.97	3000 (j)	1300	120	80	140	7300	---	---	PACE
ESE-1	6/8/00	177.69	9.40	168.29	2900	540	9.7	20	17	5200	---	---	PACE
ESE-1	9/18/00	177.69	10.05	167.64	890	3.4	ND<0.5	1.4	ND<0.5	2800	---	---	PACE
ESE-1	12/14/00	177.69	8.20	169.49	1600	11.1	ND<0.5	ND<0.5	ND<0.5	2730	---	---	PACE
ESB-1	3/21/01	177.69	9.75	167.94	5700	2.28	ND<0.5	0.51	ND<1.5	6810	---	---	PACE
ESE-1	6/18/01	177.69	10.21	167.48	2000	152	0.669	3.62	2.34	1980	---	---	PACE
ESE-1	9/18/01	177.69	10.30	167.39	2500	57.1	ND<5.0	6.25	ND<15	2090	---	---	PACE
ESE-1	12/13/01	177.69	9.82	167.87	2800	208	6.05	8.54	9.66	2030	---	---	PACE
ESE-1	3/14/02	177.69	9.10	168.59	1800	140	6.31	4.5	9.41	1970	---	---	PACE
ESB-1	6/19/02	177.69	9.92	167.77	1100	220	2.02	4.23	3.8	1280	---	---	PACE
ESB-1	9/10/02	177.69	10.21	167.48	490 ^d	39	2.9	ND<2.0	4.9	670	---	---	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-2	10/5/92	178.23	11.68	166.55	300	5.4	16	3.9	45	---	(l)	PACE
ESE-2	4/1/93	178.23	9.17	169.06	240	27	ND<0.5	17	2.6	123	(e)(l)	PACE
ESE-2	6/29/93	178.23	10.88	167.35	1700	260	24	110	23	---	(l)	PACE
QC-1	(d) 6/29/93	---	---	---	1300	240	17	110	25	---	(l)	PACE
ESE-2	9/23/93	178.23	11.56	166.67	240	3.1	0.5	0.6	2.5	643	(e)(l)	PACE
ESE-2	12/10/93	178.23	10.48	167.75	250	2.4	2.4	1.5	11	940	(e)(l)	PACE
ESE-2	2/17/94	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	8/8/94	178.23	11.11	167.12	750	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1400	(e)	PACE
ESE-2	10/12/94	178.23	11.31	166.92	1700	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3000	(e)	PACE
ESE-2	1/19/95	178.23	8.25	169.98	300	2	0.9	0.7	1	---	---	ATI
ESE-2	5/2/95	178.23	9.21	169.02	1200	4	ND<2.5	ND<2.5	ND<5.0	---	---	ATI
ESE-2	7/28/95	178.23	10.64	167.59	2000	ND<2.5	ND<2.5	ND<2.5	ND<5.0	---	---	ATI
ESE-2	11/17/95	178.23	11.13	167.10	3600	ND<25	ND<25	ND<25	ND<50	12000	---	ATI
QC-1	(d) 11/17/95	---	---	---	3400	ND<25	ND<25	ND<25	ND<50	12000	---	ATI
ESE-2	2/7/96	178.23	7.94	170.29	450	ND<0.5	ND<1	ND<1	ND<1	2300	---	SPL
ESE-2	4/23/96	178.23	9.73	168.50	260	0.9	ND<1	ND<1	ND<1	8600	---	SPL
ESE-2	7/9/96	178.23	10.70	167.53	780	ND<2.5	ND<5	ND<5	ND<5	13393	---	SPL
ESE-2	10/10/96	178.23	11.39	166.84	2900	ND<0.5	ND<1.0	ND<1.0	ND<1.0	12000	---	SPL
ESE-2	1/20/97	178.23	9.04	169.19	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	13000	---	SPL
ESE-2	4/25/97	178.23	10.31	167.92	2700	ND<0.5	ND<1.0	ND<1.0	ND<1.0	15000	---	SPL
ESE-2	7/18/97	178.23	11.02	167.21	11000	ND<5	ND<10	ND<10	ND<10	11000	---	SPL
ESE-2	10/27/97	178.23	10.93	167.30	6100	ND<2.5	ND<5.0	ND<5.0	ND<5.0	7100	---	SPL
QC-1	(d) 10/27/97	---	---	---	6600	ND<2.5	ND<5.0	ND<5.0	ND<5.0	7400	---	SPL
ESE-2	1/22/98	178.23	7.93	170.30	13000	ND<0.5	ND<1.0	ND<1.0	ND<1.0	10000	---	SPL
QC-1	(d) 1/22/98	---	---	---	13000	ND<0.5	ND<1.0	ND<1.0	ND<1.0	10000	---	SPL
ESE-2	4/23/98	178.23	9.34	168.89	19000	ND<5	ND<10	ND<10	ND<10	36000	---	SPL
ESE-2	7/29/98	178.23	10.29	167.94	---	---	---	---	---	---	---	---
ESE-2	7/30/98	---	---	---	19000	ND<5	ND<10	ND<10	ND<10	36000	---	SPL
ESE-2	12/17/98	178.23	10.20	168.03	12000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	13000/17000*	---	SPL
ESE-2	3/19/99	178.23	9.02	169.21	18000	160	ND<1.0	ND<1.0	ND<1.0	18000	---	SPL
ESE-2	6/23/99	178.23	9.99	168.24	280	ND<1.0	ND<1.0	ND<1.0	ND<1.0	16000	---	SPL
ESE-2	9/27/99	178.23	10.69	167.54	ND<500	ND<25	ND<25	ND<25	ND<25	12000	---	SPL
ESE-2	12/9/99	178.23	11.26	166.97	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.6	12000	---	PACE
ESE-2	3/9/00	178.23	7.95	170.28	ND<50	1.6	ND<0.5	ND<0.5	ND<0.5	7900	---	PACE
ESE-2	6/8/00	178.23	9.66	168.57	1600	ND<0.5	0.73	ND<0.5	2.2	9400	---	PACE
ESE-2	(k) 9/18/00	178.23	---	---	---	---	---	---	---	---	---	---
ESE-2	12/14/00	178.23	11.15	167.08	6000	0.75	ND<0.5	ND<0.5	ND<0.5	11200	---	PACE
ESE-2	3/21/01	178.23	10.35	167.88	6900	786	45.7	37.7	71.5	3790	---	PACE
ESE-2	6/18/01	178.23	11.24	166.99	6400	ND<2.5	ND<2.5	ND<2.5	ND<7.5	9320	---	PACE
ESE-2	9/18/01	178.23	11.35	166.88	4800	ND<12.5	ND<12.5	ND<12.5	ND<37.5	6960	---	PACE
ESE-2	12/13/01	178.23	10.97	167.26	59000	0.592	ND<0.5	ND<0.5	ND<1.0	5940	---	PACE
ESE-2	3/14/02	178.23	10.13	168.10	4500	76	ND<0.5	ND<0.5	ND<1.0	6660	---	PACE
ESE-2	6/19/02	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 ^b	ND<5.0	ND<5.0	ND<5.0	6.3	3100	---	SEQ

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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-3	10/5/92	178.20	10.58	167.62	430	57	31	3.6	34	---	(1)	PACE
ESE-3	4/1/93	178.20	8.14	170.06	2400	460	220	74	210	---	(1)	PACE
ESE-3	6/29/93	178.20	9.72	168.48	280	56	14	15	13	---	(1)	PACE
ESE-3	9/23/93	178.20	10.46	167.74	72	13	3.5	1.7	4.1	---	(1)	PACE
ESE-3	12/10/93	178.20	9.30	168.90	270	71	32	6.1	33	---	(1)	PACE
ESE-3	2/17/94	178.20	8.97	169.23	520	140	10	20	33	5.74	(1)	PACE
ESE-3	8/8/94	178.20	10.02	168.18	ND<50	8.8	1.6	1.6	2.3	ND<5.0	(1)	PACE
ESE-3	10/12/94	178.20	10.32	167.88	470	190	6.4	15	18	ND<5.0	(1)	PACE
ESE-3	1/19/95	178.20	7.40	170.80	330	260	27	21	20	---	---	ATI
ESE-3	5/2/95	178.20	8.26	169.94	530	180	30	23	44	---	---	ATI
ESE-3	7/28/95	178.20	9.54	168.66	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
ESE-3	11/17/95	178.20	10.04	168.16	ND<50	1.7	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI
ESE-3	2/7/96	178.20	7.08	171.12	ND<50	8.6	ND<1	ND<1	ND<1	ND<10	---	SPL
ESE-3	4/23/96	178.20	8.79	169.41	ND<50	7.6	ND<1	ND<1	ND<1	65	---	SPL
ESE-3	7/9/96	178.20	10.09	168.11	ND<50	12	2.6	2	3.9	26	---	SPL
ESE-3	10/10/96	178.20	10.48	167.72	---	---	---	---	---	---	---	---
ESE-3	10/11/96	178.20	---	---	260	140	ND<1.0	ND<1.0	2.6	ND<10	---	SPL
ESE-3	1/20/97	178.20	8.65	169.55	ND<50	1.5	1.7	ND<1.0	ND<1.0	14	---	SPL
ESE-3	4/25/97	178.20	10.02	168.18	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	14	---	SPL
ESE-3	7/18/97	178.20	10.66	167.54	10000	1400	1400	300	1280	ND<250	---	SPL
ESE-3	10/27/97	178.20	9.83	168.37	ND<250	ND<2.5	ND<5.0	ND<5.0	36	ND<50	---	SPL
ESE-3	1/22/98	178.20	7.06	171.14	130	ND<0.5	ND<1.0	ND<1.0	ND<1.0	120	---	SPL
ESE-3	4/23/98	178.20	8.44	169.76	4800	560	ND<10	15	ND<10	4000	---	SPL
ESE-3	7/29/98	178.20	9.27	168.93	---	---	---	---	---	---	---	---
ESE-3	7/30/98	---	---	---	1800	6.2	ND<5.0	ND<5.0	ND<5.0	1700	---	SPL
ESE-3	12/17/98	178.20	9.15	169.05	600	54	ND<1.0	2.1	4.9	340/480*	---	SPL
ESE-3	3/19/99	178.20	8.14	170.06	2000	260	4.4	13	28	870	---	SPL
ESE-3	6/23/99	178.20	9.44	168.76	290	91	ND<1.0	8.3	16	240	---	SPL
ESE-3	9/27/99	178.20	9.69	168.51	130	35	ND<1.0	2.7	3.8	100	---	SPL
ESE-3	12/9/99	178.20	10.99	167.21	380	84	1.7	8.7	6.3	160	---	PACE
ESE-3	3/9/00	178.20	7.12	171.08	950	190	4.6	39	62	350	---	PACE
ESE-3	6/8/00	178.20	10.92	167.28	300	37	ND<0.5	2.3	1.3	400	---	PACE
ESE-3	9/18/00	178.20	11.12	167.08	920	140	1.3	15	4.8	170	---	PACE
ESE-3	12/14/00	178.20	9.70	168.50	320	64	ND<0.5	6.24	1.76	201	---	PACE
ESE-3	3/21/01	178.20	10.07	168.13	680	80.5	0.546	21.1	18.2	398	---	PACE
ESE-3	6/18/01	178.20	11.42	166.78	380	47	ND<0.5	3.11	ND<1.5	242	---	PACE
ESE-3	9/18/01	178.20	11.55	166.65	340	54.8	ND<0.5	4.36	ND<1.5	79.7	---	PACE
ESE-3	12/13/01	178.20	10.12	168.08	270	31.4	ND<0.5	1.31	2.24	129	---	PACE
ESE-3	3/14/02	178.20	9.84	168.36	670	89.8	0.769	23.4	30.4	413	---	PACE
ESE-3	6/19/02	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

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	10/5/92	177.73	10.33	167.40	98	7.2	1.3	1.1	6.1	---	(l)	---	PACE	
ESE-4	4/1/93	177.73	7.88	169.85	550	93	20	23	33	---	(l)	---	PACE	
ESE-4	6/29/93	177.66	(f) 8.33	169.33	150	23	0.6	5.4	0.5	54	(e)(l)	---	PACE	
ESE-4	9/23/93	177.66	10.05	167.61	110	14	1.7	3.2	4.6	---	(l)	---	PACE	
ESE-4	12/10/93	177.66	8.95	168.71	110	21	7.2	4.2	10	28.75	(l)	2.8	PACE	
ESE-4	2/17/94	177.66	8.65	169.01	210	26	1.2	4.7	11	113	(e)(l)	---	PACE	
ESE-4	8/8/94	177.66	9.76	167.90	76	9.6	ND<0.5	2	ND<0.5	62	(e)	7.0	PACE	
ESE-4	10/12/94	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	1/19/95	177.66	6.97	170.69	140	56	14	24	23	---	---	6.9	ATI	
ESE-4	5/2/95	177.66	7.85	169.81	130	21	2.8	8.6	8.2	---	---	9.1	ATI	
ESE-4	7/28/95	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	11/17/95	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	2/7/96	177.66	6.59	171.07	100	2.6	ND<1	1.6	4.1	42	---	2.0	SPL	
ESE-4	4/23/96	177.66	8.30	169.36	160	37	15	16	31	43	---	5.4	SPL	
ESE-4	7/9/96	177.66	9.21	168.45	60	17	1.5	6.8	11.6	27	---	3.9	SPL	
ESE-4	10/10/96	177.66	9.97	167.69	---	---	---	---	---	---	---	---	---	---
ESE-4	10/11/96	177.66	---	---	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	18	---	5.5	SPL	
ESE-4	1/20/97	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	4/25/97	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	7/18/97	177.66	9.71	167.95	ND<50	15	ND<10	ND<10	ND<10	ND<100	---	4.5	SPL	
ESE-4	10/27/97	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	1/22/97	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	4/23/98	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	7/29/98	177.66	8.96	168.70	---	---	---	---	---	---	---	---	---	---
ESE-4	7/30/98	---	---	---	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	SPL	
ESE-4	12/17/98	177.66	8.32	169.34	---	---	---	---	---	---	---	---	---	---
ESE-4	3/19/99	177.66	7.71	169.95	---	---	---	---	---	---	---	---	---	---
ESE-4	6/23/99	177.66	8.78	168.88	---	---	---	---	---	---	---	---	---	---
ESE-4	9/27/99	177.66	9.27	168.39	---	---	---	---	---	---	---	---	---	---
ESE-4	12/9/99	177.66	9.21	168.45	---	---	---	---	---	---	---	---	---	---
ESE-4	3/9/00	177.66	6.82	170.84	---	---	---	---	---	---	---	---	---	---
ESE-4	6/8/00	177.66	8.72	168.94	---	---	---	---	---	---	---	---	---	---
ESE-4	9/18/00	177.66	9.02	168.64	---	---	---	---	---	---	---	---	---	---
ESE-4	12/14/00	177.66	8.61	169.05	---	---	---	---	---	---	---	---	---	---
ESE-4	3/21/01	177.66	8.61	169.05	---	---	---	---	---	---	---	---	---	---
ESE-4	6/18/01	177.66	9.24	168.42	---	---	---	---	---	---	---	---	---	---
ESE-4	9/18/01	177.66	9.35	168.31	---	---	---	---	---	---	---	---	---	---
ESE-4	12/13/01	177.66	8.53	169.13	---	---	---	---	---	---	---	---	---	---
ESE-4	3/14/02	177.66	8.44	169.22	---	---	---	---	---	---	---	---	---	---
ESE-4	6/19/02	177.66	10.97	166.69	---	---	---	---	---	---	---	---	---	---
ESE-4	9/10/02	177.66	9.27	168.39	---	---	---	---	---	---	---	---	---	---

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)	MTEB (ug/L)	DO (ppm)	LAB
ESE-5	10/5/92	176.08	9.22	166.86	1300	200	3.8	1.2	18	---	(l)	PACE
ESE-5	4/1/93	176.08	7.02	169.06	13000	2200	26	730	1000	---	(l)	PACE
QC-1 (d)	4/1/93	---	---	---	13000	2500	25	740	1100	---	(l)	PACE
ESE-5	6/29/93	176.08	10.21	165.87	7600	1500	9.3	170	100	---	(l)	PACE
ESE-5	9/23/93	176.08	10.64	165.44	560	19	1.2	0.9	1.8	---	(l)	PACE
ESE-5	12/10/93	176.08	9.42	166.66	1700	300	3	76	110	14.07	(l)	2.5 PACE
ESE-5	2/7/94	176.08	9.35	166.73	3500	640	7.8	90	130	45.13	(l)	PACE
ESE-5	8/8/94	176.08	8.76	167.32	2600	210	4.6	9.4	4.4	33	(e)	5.8 PACE
QC-1 (d)	8/8/94	---	---	---	2500	230	4.6	13	4.8	32	(e)	PACE
ESE-5	10/12/94	176.08	8.95	167.13	5600	560	9.5	75	21	79.2	(l)	3.6 PACE
QC-1 (d)	10/12/94	---	---	---	6000	550	10	78	22	77	(e)	PACE
ESE-5	1/19/95	176.08	5.40	170.68	1900	620	ND<5	95	15	---	---	7.6 ATI
QC-1 (d)	1/19/95	---	---	---	1600	620	ND<5	93	17	---	---	ATI
ESE-5	5/2/95	176.08	6.48	169.60	5700	1100	ND<10	180	58	---	---	8.2 ATI
QC-1 (d)	5/2/95	---	---	---	5300	1100	ND<10	180	58	---	---	ATI
ESE-5	7/28/95	176.08	7.97	168.11	520	15	ND<0.50	1.7	1.3	---	---	8.2 ATI
QC-1 (d)	7/28/95	---	---	---	460	7.2	ND<0.50	1.9	1.5	---	---	ATI
ESE-5	11/17/95	176.08	8.39	167.69	850	39	1.8	7.6	2.7	24	---	6.3 ATI
ESE-5	2/7/96	176.08	4.71	171.37	4100	670	6	190	140	ND<50	---	1.5 SPL
ESE-5	4/23/96	176.08	7.35	168.73	3000	570	ND<5	79	100	84	---	6.5 SPL
ESE-5	7/9/96	176.08	9.40	166.68	620	150	1.7	9.3	6.4	25	---	3.7 SPL
ESE-5	10/10/96	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)	10/10/96	---	---	---	1100	31	ND<5.0	ND<5.0	ND<5.0	ND<50	---	SPL
ESE-5	1/20/97	176.08	5.82	170.26	2100	980	ND<25	280	80	ND<250	---	5.4 SPL
QC-1 (d)	1/20/97	---	---	---	2700	910	8.8	280	84	180	---	SPL
ESE-5	4/25/97	176.08	7.24	168.84	---	---	---	---	---	---	---	---
ESE-5	4/28/97	176.08	---	---	ND<250	7.9	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.9 SPL
ESE-5	7/18/97	176.08	7.86	168.22	1200	ND<5	ND<10	ND<10	ND<10	ND<100	---	5.0 SPL
QC-1 (d)	7/18/97	---	---	---	630	31	ND<5.0	ND<5.0	ND<5.0	130	---	SPL
ESE-5	10/27/97	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	1/22/98	176.08	4.64	171.44	170	7.7	ND<1.0	ND<1.0	ND<1.0	130	---	4.6 SPL
ESE-5	4/23/98	176.08	6.31	169.77	720	79	ND<5.0	9.0	ND<5.0	180	---	4.6 SPL
ESE-5	7/29/98	176.08	7.43	168.65	---	---	---	---	---	---	---	---
ESE-5	7/30/98	---	---	---	840	9.8	ND<1.0	4.0	ND<1.0	710	---	4.3 SPL
ESE-5	12/17/98	176.08	7.05	169.03	---	---	---	---	---	---	---	---
ESE-5	3/19/99	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	6/23/99	176.08	7.77	168.31	---	---	---	---	---	---	---	SPL
ESE-5	9/27/99	176.08	8.11	167.97	450	10	ND<5.0	6.3	ND<5.0	220	---	SPL
ESE-5	12/9/99	176.08	7.66	168.42	---	---	---	---	---	---	---	---
ESE-5	3/9/00	176.08	5.08	171.00	1700	170	2.5	45	6.4	140	---	PACE
ESE-5	6/8/00	176.08	7.36	168.72	---	---	---	---	---	---	---	---
ESE-5	9/18/00	176.08	7.71	168.37	130	0.65	ND<0.5	0.71	ND<0.5	51	---	PACE
ESE-5	12/14/00	176.08	2.36	173.72	---	---	---	---	---	---	---	---
ESE-5	3/21/01	176.08	7.42	168.66	1000	10.3	ND<2.5	11	ND<7.5	70.8	---	PACE
ESE-5	6/18/01	176.08	7.92	168.16	---	---	---	---	---	---	---	---
ESE-5	9/18/01	176.08	8.05	168.03	200	0.868	ND<0.5	0.55	ND<1.5	57.5	---	PACE
ESE-5	12/13/01	176.26 (m)	7.80	168.46	---	---	---	---	---	---	---	---
ESE-5	3/14/02	176.26	6.55	169.71	1300	17.1	1.35	15.4	1.42	37.4	---	PACE
ESE-5	6/19/02	176.26	7.83	168.43	---	---	---	---	---	---	---	---
ESE-5	9/10/02	176.26	8.22	168.04	680 ^a	9.9	ND<5.0	ND<5.0	ND<5.0	44	---	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-6	7/28/95	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	11/17/95	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	2/7/96	179.24	7.68	171.56	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	2.4	SPL
MW-6	4/23/96	179.24	9.33	169.91	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	6.6	SPL
MW-6	7/9/96	179.24	10.10	169.14	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	2.7	SPL
MW-6	10/10/96	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	1/20/97	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	4/25/97	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	7/18/97	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	10/27/97	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	1/22/98	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	4/23/98	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	7/29/98	179.24	10.40	168.84	---	---	---	---	---	---	---	---
MW-6	7/30/98	---	---	---	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	3.8	SPL
MW-6	12/17/98	179.24	9.40	169.84	---	---	---	---	---	---	---	---
MW-6	3/19/99	179.24	9.10	170.14	---	---	---	---	---	---	---	---
MW-6	6/23/99	179.24	9.79	169.45	---	---	---	---	---	---	---	---
MW-6	9/27/99	179.24	10.10	169.14	---	---	---	---	---	---	---	---
MW-6	12/9/99	179.24	9.97	169.27	---	---	---	---	---	---	---	---
MW-6	3/9/00	179.24	8.56	170.68	---	---	---	---	---	---	---	---
MW-6	6/8/00	179.24	9.11	170.13	---	---	---	---	---	---	---	---
MW-6	9/18/00	179.24	9.77	169.47	---	---	---	---	---	---	---	---
MW-6	12/14/00	179.24	9.17	170.07	---	---	---	---	---	---	---	---
MW-6	3/21/01	179.24	9.82	169.42	---	---	---	---	---	---	---	---
MW-6	6/18/01	179.24	10.19	169.05	---	---	---	---	---	---	---	---
MW-6	9/18/01	179.24	10.25	168.99	---	---	---	---	---	---	---	---
MW-6	12/13/01	179.24	9.75	169.49	---	---	---	---	---	---	---	---
MW-6	3/14/02	179.24	9.53	169.71	---	---	---	---	---	---	---	---
MW-6	6/19/02	179.24	9.87	169.37	---	---	---	---	---	---	---	---
MW-6	9/10/02	179.24	9.49	169.75	---	---	---	---	---	---	---	---

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	7/28/95	176.55	9.25	167.30	ND<50	0.54 (g)	0.54	ND<0.50	ND<1.0	---	7.1	ATI
MW-7	11/17/95	176.55	9.73	166.82	1100	ND<10	ND<10	ND<10	ND<20	4000	6.3	ATI
MW-7	2/7/96	176.55	6.48	170.07	610	ND<0.5	ND<1	ND<1	ND<1	2500	4.1	SPL
QC-1 (d)	2/7/96	---	---	---	280	ND<0.5	ND<1	ND<1	ND<1	2600	---	SPL
MW-7	4/23/96	176.55	8.37	168.18	110	ND<0.5	ND<1	ND<1	ND<1	3500	6.4	SPL
QC-1 (d)	4/23/96	---	---	---	230	ND<0.5	ND<1	ND<1	ND<1	3500	---	SPL
MW-7	7/9/96	176.55	9.24	167.31	230	ND<0.5	ND<1	ND<1	ND<1	4296	3.1	SPL
QC-1 (d)	7/9/96	---	---	---	220	ND<0.5	ND<1	ND<1	ND<1	4400	---	SPL
MW-7	10/10/96	176.55	10.05	166.50	---	---	---	---	---	---	---	---
MW-7	10/11/96	176.55	---	---	1600	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3000	6.9	SPL
MW-7	1/20/97	176.55	7.51	169.04	ND<50	0.63	1	ND<1.0	ND<1.0	2600	5.7	SPL
MW-7	4/25/97	176.55	8.79	167.76	---	---	---	---	---	---	---	---
MW-7	4/28/97	176.55	---	---	1500	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3600	5.1	SPL
QC-1 (d)	4/28/97	---	---	---	7700	3500	ND<25	74	37	ND<250	---	SPL
MW-7	7/18/97	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	10/27/97	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	1/22/98	176.55	6.45	170.10	3100	ND<0.5	ND<1.0	ND<1.0	1.4	2300	4.2	SPL
MW-7	4/23/98	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	7/29/98	176.55	8.88	167.67	---	---	---	---	---	---	---	---
MW-7	7/30/98	---	---	---	500	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	4.1	SPL
QC-1 (d)	7/30/98	---	---	---	4700	ND<12	ND<25	ND<25	ND<25	4700	---	SPL
MW-7	12/17/98	176.55	8.62	167.93	---	---	---	---	---	---	---	---
MW-7	3/19/99	176.55	7.52	169.03	3800	ND<1.0	ND<1.0	ND<1.0	ND<1.0	3800	---	SPL
MW-7	6/23/99	176.55	9.63	166.92	---	---	---	---	---	---	---	---
MW-7	9/27/99	176.55	9.39	167.16	140	ND<10	ND<10	ND<10	ND<10	3800	---	SPL
MW-7	12/9/99	176.55	9.94	166.61	---	---	---	---	---	---	---	---
MW-7	3/9/00	176.55	6.72	169.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1400	---	PACE
MW-7	6/8/00	176.55	7.38	169.17	---	---	---	---	---	---	---	---
MW-7	9/18/00	176.55	9.18	167.37	190	ND<0.5	ND<0.5	ND<0.5	ND<0.5	580	---	PACE
MW-7	12/14/00	176.55	8.13	168.42	---	---	---	---	---	---	---	---
MW-7	3/21/01	176.55	8.98	167.57	1300	ND<0.5	ND<0.5	ND<0.5	ND<1.5	1460	---	PACE
MW-7	6/18/01	176.55	9.68	166.87	---	---	---	---	---	---	---	---
MW-7	9/18/01	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	12/13/01	176.55	9.26	167.29	---	---	---	---	---	---	---	---
MW-7	3/14/02	176.55	8.69	167.86	800	ND<0.5	ND<0.5	ND<0.5	ND<1.0	952	---	PACE
MW-7	6/19/02	176.55	9.06	167.49	---	---	---	---	---	---	---	---
MW-7	9/10/02	176.55	9.23	167.32	260 ^f	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-8	7/28/95	176.34	7.80	168.54	1100	ND<2.5	ND<2.5	ND<2.5	ND<5.0	---	7.2	ATI
MW-8	11/17/95	176.34	8.29	168.05	8300	75	5.3	670	240	140	7.0	ATI
MW-8	2/7/96	176.34	4.99	171.35	2300	33	ND<10	190	216	ND<100	1.7	SPL
MW-8	4/23/96	176.34	6.09	170.25	2000	390	ND<20	150	26	ND<250	5.1	SPL
MW-8 (h)	7/9/96	---	---	---	---	---	---	---	---	---	---	---
QC-2 (i)	4/1/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	PACE
QC-2 (i)	6/29/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	PACE
QC-2 (i)	9/23/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	PACE
QC-2 (i)	12/10/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	PACE
QC-2 (i)	2/17/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	8/8/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	10/12/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	1/19/95	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	ATI
QC-2 (i)	5/2/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2 (i)	7/28/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2 (i)	11/17/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI
QC-2 (i)	2/7/96	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	SPL
QC-2 (i)	4/23/96	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	SPL
QC-2 (i)	7/9/96	---	---	---	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 #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
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ABBREVIATIONS:

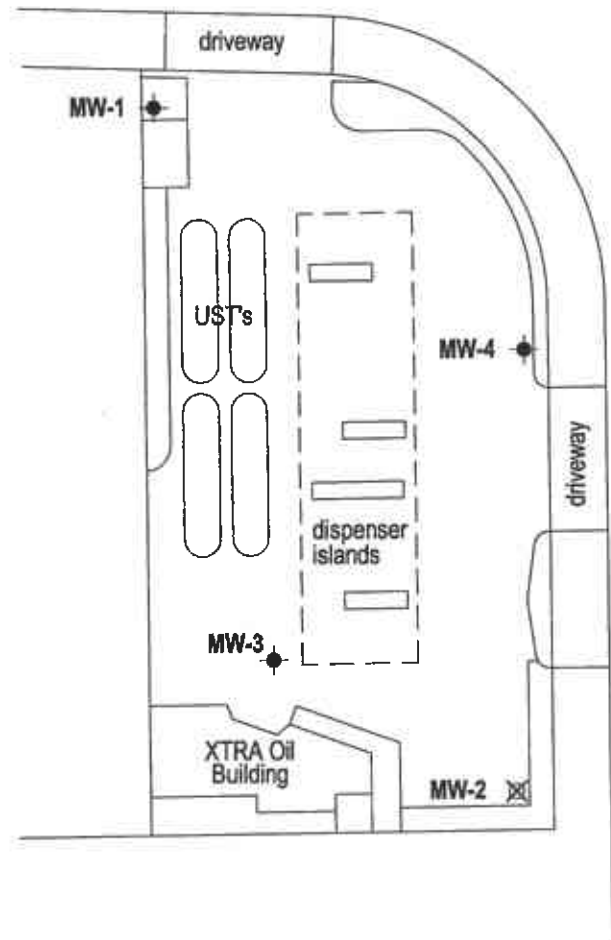
TPH-G	Total petroleum hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
DO	Dissolved oxygen
ug/L	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not applicable/available/measured/analyzed
PACE	Pace, Inc.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

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

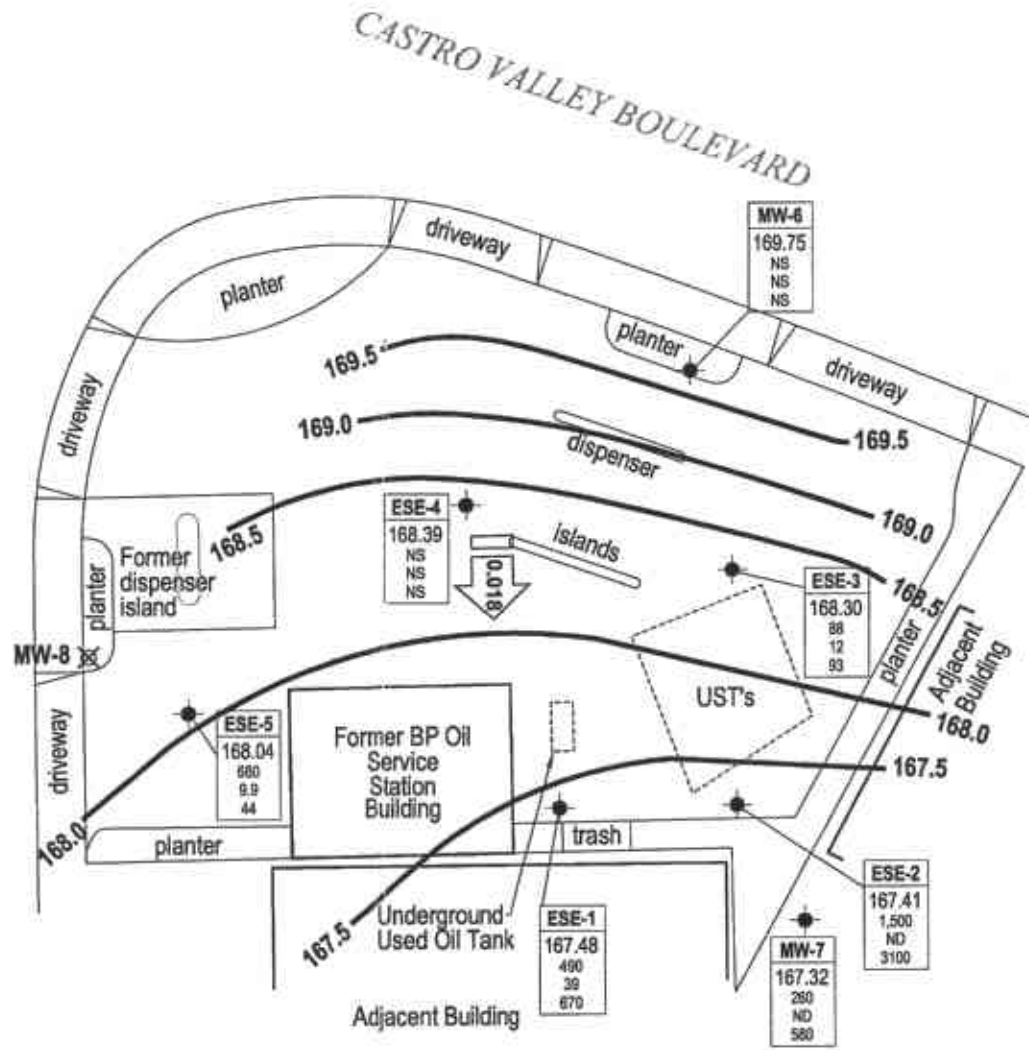
WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
---------	------------------------------	-----------------------------	-----------------------	----------------------------------	--------------	----------	----------	----------	----------	-------------	----------	-----

- (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) Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the requested fuel
- (*) MTBE by EPA 8020/8260.

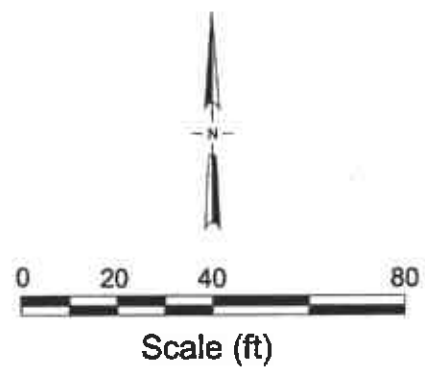
Source: The data within this table collected prior to September 2002 was provided to URS by BP Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.



REDWOOD ROAD



EXPLANATION	
	Monitoring Well Location
	Decommissioned monitoring well
	Vapor extraction well
	Air sparge well
	Well Designation
	Groundwater Elevation above MSL
	Concentrations of TPH-g, Benzene and MTBE in micrograms per liter (µg/L)
ND	Not Detected
NS	Not Sampled
	Groundwater elevation contour
	Approximate groundwater flow direction and gradient (ft/MSL)



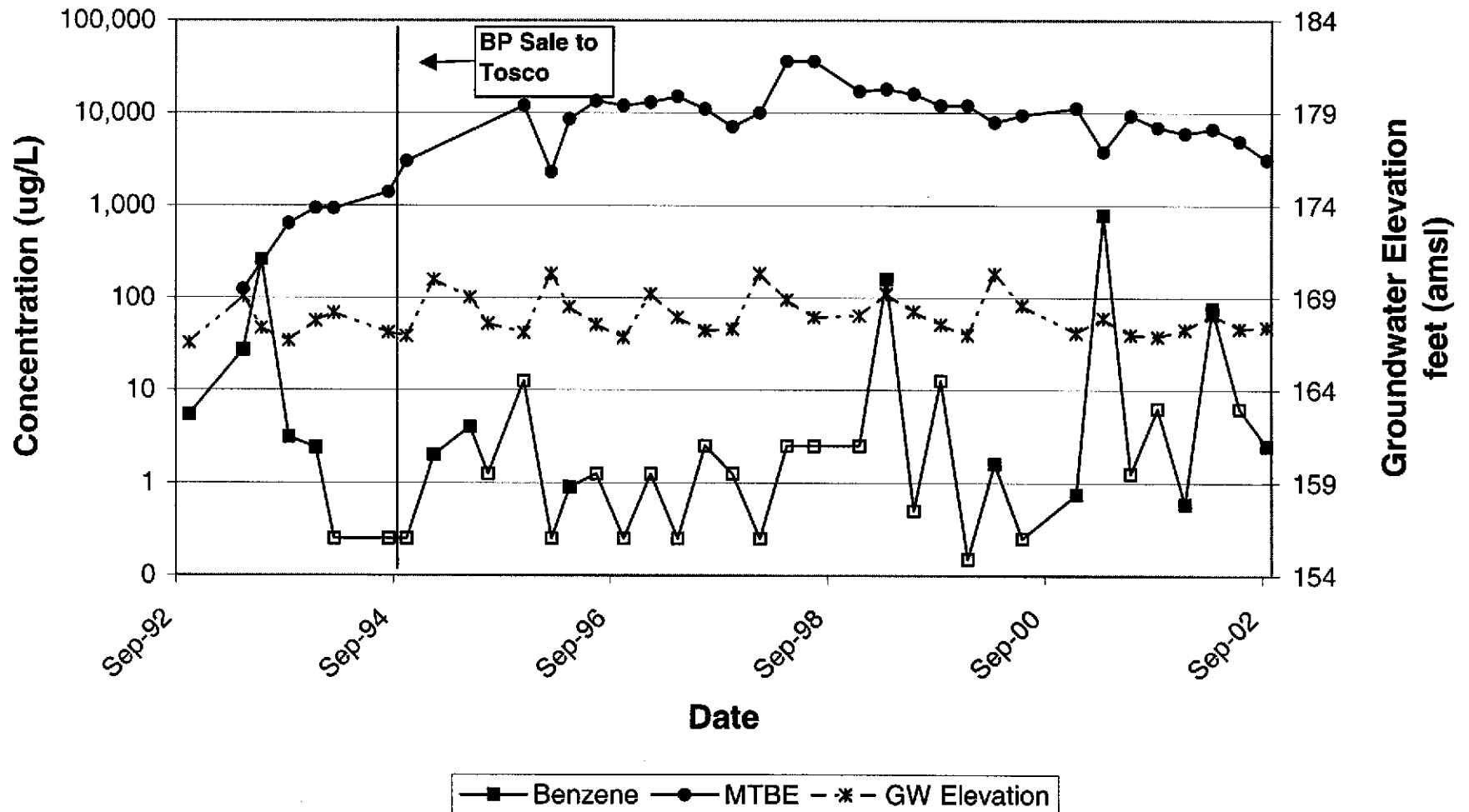
X:\a_001\wast\BP_GEM\Bios\U\Site\11105\Report\Monitoring\Qtr_3_2002\Drawings\GEMC-AB_9-10.dwg

URS	Project No. 38465961	Groundwater Elevation Contour and Analytical Summary Map Third Quarter 2002 (September 10, 2002)	FIGURE 1
	Former BP Service Station #11105 3519 Castro Valley Boulevard Castro Valley, California		

ATTACHMENT A

CONCENTRATION AND WATER LEVEL TRENDS

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 # 020910-M-2 Date 9-10-07 Client BP 11105

Site 3519 Castro Valley Blvd Castro Valley

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 POC	
ESG-1	2					10.21	24.23		S
ESG-2	2					10.562	27.04		S
ESG-3	2					9.90	29.70		S
ESG-4	2					9.27	22.55		G
ESG-5	2					8.22	23.71		S
Mw-6	2					9.49	29.39		G
Mw-7	2					9.23	26.77		✓ S

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020910-A-2</u>	Station # <u>PP1105</u>
Sampler: <u>AM</u>	Date: <u>9-10-02</u>
Well I.D.: <u>ESE-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>29.23</u>	Depth to Water: <u>10.21</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

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

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

<u>3.0</u>	x	<u>3</u>	=	<u>9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>13:48</u>	<u>74.2</u>	<u>7.1</u>	<u>974</u>	<u>3</u>	<u>Cloudy</u>
<u>13:50</u>	<u>72.2</u>	<u>7.2</u>	<u>969</u>	<u>6</u>	<u>" "</u>
<u>13:52</u>	<u>72.6</u>	<u>7.2</u>	<u>982</u>	<u>6</u>	<u>" "</u>

Did well dewater? Yes <input type="checkbox"/> <u>(No)</u>	Gallons actually evacuated: <u>9</u>
Sampling Time: <u>14:00</u>	Sampling Date: <u>9-10-02</u>
Sample I.D.: <u>ESE-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____

Analyzed for: <u>PH-G BTEX MTBE</u> TPH-D Other:
D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020910-A1-2</u>	Station # <u>BP 11105</u>
Sampler: <u>AM</u>	Date: <u>9-10-02</u>
Well I.D.: <u>ESE-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>2704</u>	Depth to Water: <u>10.82</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

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

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Other: _____

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

<u>2.5</u>	x	<u>3</u>	=	<u>7.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
3:25	73.6	7.2	955	2.5	cloudy
3:27	71.2	7.2	977	5	" "
3:28	72.7	7.2	984	7.5	" "

Well dewater? Yes No Gallons actually evacuated: 7.5

Sampling Time: 13:35 Sampling Date: 9-10-02

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

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

Pre-purge:	mg/L	Post-purge:	mg/L
	mV		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020710-A1-2</u>	Station # <u>BP 11105</u>
Sampler: <u>AM</u>	Date: <u>9-10-02</u>
Well I.D.: <u>GSE-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>29.70</u>	Depth to Water: <u>9.90</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <u> </u> <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: <u> </u>	Sampling Method: <u> </u> <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: <u> </u>
---	--

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

<u>3.1</u>	x	<u>3</u>	=	<u>9.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
12:50	77.6	7.2	909	3.1	cloudy
12:52	76.5	7.1	896	6.2	" "
12:54	77.7	7.1	916	9.3	" "

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: <u>9.3</u>	
Sampling Time: <u>13:00</u>	Sampling Date: <u>9-10-02</u>	
Sample I.D.: <u>GSE-3</u>	Laboratory: Pace <u>Sequoia</u> Other <u> </u>	
Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other: <u> </u>		
D.O. (if req'd):	Pre-purge: <u> </u> mg/L	Post-purge: <u> </u> mg/L
O.R.P. (if req'd):	Pre-purge: <u> </u> mV	Post-purge: <u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020910-A-2</u>	Station # <u>PL1105</u>
Sampler: <u>Am</u>	Date: <u>9-10-02</u>
Well I.D.: <u>ESG-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>23.71</u>	Depth to Water: <u>6.22</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>FVO</u> Grade	D.O. Meter (if req'd): YSI HACH

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

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

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

<u>2.4</u>	x	<u>3</u>	=	<u>7.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
12:32	76.7	7.3	1075	2.4	Clear
12:34	75.2	7.2	1096	6.6	" "
12:36	75.3	7.3	1102	7.2	" "

Did well dewater? Yes No Gallons actually evacuated: 7.2

Sampling Time: 12:40 Sampling Date: 9-10-02

Sample I.D.: ESG-5 Laboratory: Pace Sequoia Other _____

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

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020910-Ar-2</u>	Station # <u>BP 11105</u>
Sampler: <u>Am</u>	Date: <u>9-10-02</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>28.77</u>	Depth to Water: <u>9.23</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Middleburg Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

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

<u>3.1</u>	x	<u>3</u>	=	<u>9.3</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>uS</u>)	Gals. Removed	Observations
12:12	77.9	7.9	7466	3.1	clear
12:14	73.4	7.7	741	6.2	ll ll
12:15	73.3	7.6	736	9.3	ll ll

Did well dewater? Yes No Gallons actually evacuated: 9.3

Sampling Time: 12:20 Sampling Date: 9-10-02

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

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

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



Chain of Custody Record

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

Date: 9-12-02

Requested Due Date (mm/dd/yy) _____

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: 3519 Castro Valley Blvd, Castro Valley, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. 11105	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0600100920	Consultant/Contractor Project No.: 020110-M-2
Lab PM: Latonya Pelt	BP/GEM PM Contact: Scott Hooton	Consultant Tele/Fax: 510-874-3101 / 510-874-3268
Tele/Fax: 408-778-9800 / 408-782-6308	Address:	Consultant/Contractor PM: Robert Horwath
Report Type & QC Level: Send EDF Reports		Invoice to: Consultant/Contractor or (BP/GEM) (circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax:	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-G/BTEX (8015/8021)	TPH-D (8015)	MTBE (8021)	MTBE, TAME, E1BE DPE, TBA (8260)	1,2-DCA & EDI (8260)	
1	ESE-1	14:00		✓			3					X	X	X				
2	ESE-2	13:35										X	X	X				
3	ESE-3	13:02										X	X	X				
4	ESE-5	12:40										X	X	X				
5	MW-7	12:20		✓								X	X	X				
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>Albert Madero</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>9-12-02</u>	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>Blaine Tech</u>						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

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

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:

Station # 11105

Station Address 3519 Castro Valley Blvd.

Total Gallons Collected From Groundwater Monitoring Wells:

added equip. _____
rinse water 5

any other adjustments _____

TOTAL GALS. RECOVERED 47

loaded onto BTS vehicle # _____

BTS event # 020910-1412 time 14:30 date 9/10/02

signature [Signature]

REC'D AT _____ time _____ date _____

unloaded by Albert signature [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
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

30 September, 2002

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

RE: BP Heritage Site #11105, Castro Valley, CA
Sequoia Report: MLI0348

Enclosed are the results of analyses for samples received by the laboratory on 09/11/02 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate #1210



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

Project: BP Heritage Site #11105, Castro Valley, CA
Project Number: BP Heritage Site #11105, Castro Valley,
Project Manager: Robert Horwath

Reported:
09/30/02 07:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ESE-1	MLI0348-01	Water	09/10/02 14:00	09/11/02 16:30
ESE-2	MLI0348-02	Water	09/10/02 13:35	09/11/02 16:30
ESE-3	MLI0348-03	Water	09/10/02 13:00	09/11/02 16:30
ESE-5	MLI0348-04	Water	09/10/02 12:40	09/11/02 16:30
MW-7	MLI0348-05	Water	09/10/02 12:20	09/11/02 16:30

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Latonya Pelt, Project Manager



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

Project: BP Heritage Site #11105, Castro Valley, CA
Project Number: BP Heritage Site #11105, Castro Valley,
Project Manager: Robert Horwath

Reported:
09/30/02 07:53

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ESE-1 (MLI0348-01) Water Sampled: 09/10/02 14:00 Received: 09/11/02 16:30									
Gasoline Range Organics (C6-C10)	490	200	ug/l	4	2I24003	09/24/02	09/24/02	8015Bm/8021 B	HC-12
Benzene	39	2.0	"	"	"	"	"	"	
Toluene	2.9	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	4.9	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	670	10	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	70-130		"	"	"	"	
ESE-2 (MLI0348-02) Water Sampled: 09/10/02 13:35 Received: 09/11/02 16:30									
Gasoline Range Organics (C6-C10)	1500	500	ug/l	10	2I24003	09/24/02	09/24/02	8015Bm/8021 B	HC-12
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	6.3	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	3100	25	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		106 %	70-130		"	"	"	"	
ESE-3 (MLI0348-03) Water Sampled: 09/10/02 13:00 Received: 09/11/02 16:30									
Gasoline Range Organics (C6-C10)	88	50	ug/l	1	2I19002	09/19/02	09/19/02	8015Bm/8021 B	
Benzene	12	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	93	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		74.9 %	70-130		"	"	"	"	



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Project Manager: Robert Horwath

Reported:
09/30/02 07:53

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ESE-5 (MLI0348-04) Water Sampled: 09/10/02 12:40 Received: 09/11/02 16:30									
Gasoline Range Organics (C6-C10)	680	500	ug/l	10	2I19002	09/19/02	09/19/02	8015Bm/8021 B	HC-12
Benzene	9.9	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	44	25	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		74.3 %		70-130	"	"	"	"	
MW-7 (MLI0348-05) Water Sampled: 09/10/02 12:20 Received: 09/11/02 16:30									
Gasoline Range Organics (C6-C10)	260	200	ug/l	4	2I24003	09/24/02	09/24/02	8015Bm/8021 B	HC-12
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	580	10	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %		70-130	"	"	"	"	



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Reported:
09/30/02 07:53

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - 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 2I19002 - EPA 5030B [P/T]

Blank (2I19002-BLK1)

Prepared & Analyzed: 09/19/02

Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.51		"	10.0		95.1	70-130			

LCS (2I19002-BS1)

Prepared & Analyzed: 09/19/02

Benzene	9.65	0.50	ug/l	10.0		96.5	70-130			
Toluene	9.70	0.50	"	10.0		97.0	70-130			
Ethylbenzene	9.38	0.50	"	10.0		93.8	70-130			
Xylenes (total)	29.0	0.50	"	30.0		96.7	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.38		"	10.0		83.8	70-130			

LCS (2I19002-BS2)

Prepared & Analyzed: 09/19/02

Gasoline Range Organics (C6-C10)	231	50	ug/l	250		92.4	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.16		"	10.0		91.6	70-130			

Matrix Spike (2I19002-MS1)

Source: MLI0266-02

Prepared & Analyzed: 09/19/02

Gasoline Range Organics (C6-C10)	493	50	ug/l	550	ND	89.6	60-140			
Benzene	11.0	0.50	"	6.60	ND	167	60-140			QM-07
Toluene	38.5	0.50	"	39.7	ND	97.0	60-140			
Ethylbenzene	9.19	0.50	"	9.20	ND	99.9	60-140			
Xylenes (total)	32.0	0.50	"	46.1	ND	69.1	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.17		"	10.0		61.7	70-130			QM-07

Matrix Spike Dup (2I19002-MSD1)

Source: MLI0266-02

Prepared & Analyzed: 09/19/02

Gasoline Range Organics (C6-C10)	492	50	ug/l	550	ND	89.5	60-140	0.203	25	
Benzene	10.6	0.50	"	6.60	ND	161	60-140	3.70	25	QM-07
Toluene	38.4	0.50	"	39.7	ND	96.7	60-140	0.260	25	
Ethylbenzene	9.26	0.50	"	9.20	ND	101	60-140	0.759	25	
Xylenes (total)	44.9	0.50	"	46.1	ND	97.1	60-140	33.6	25	QM-07
Methyl tert-butyl ether	12.9	2.5	"	10.5	ND	123	60-140		25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	5.35		"	10.0		53.5	70-130			QM-07



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Project: BP Heritage Site #11105, Castro Valley, CA
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Reported:
09/30/02 07:53

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2I24003 - EPA 5030B [P/T]										
Blank (2I24003-BLK1) Prepared & Analyzed: 09/24/02										
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.78		"	10.0		97.8	70-130			
LCS (2I24003-BS1) Prepared & Analyzed: 09/24/02										
Benzene	9.30	0.50	ug/l	10.0		93.0	70-130			
Toluene	9.29	0.50	"	10.0		92.9	70-130			
Ethylbenzene	8.89	0.50	"	10.0		88.9	70-130			
Xylenes (total)	27.2	0.50	"	30.0		90.7	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.50		"	10.0		95.0	70-130			
LCS (2I24003-BS2) Prepared & Analyzed: 09/24/02										
Gasoline Range Organics (C6-C10)	239	50	ug/l	250		95.6	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.3		"	10.0		103	70-130			
Matrix Spike (2I24003-MS1) Source: MLI0354-06 Prepared & Analyzed: 09/24/02										
Gasoline Range Organics (C6-C10)	490	50	ug/l	550	ND	89.1	60-140			
Benzene	9.78	0.50	"	6.60	ND	145	60-140			QM-07
Toluene	43.4	0.50	"	39.7	ND	109	60-140			
Ethylbenzene	9.86	0.50	"	9.20	ND	107	60-140			
Xylenes (total)	48.6	0.50	"	46.1	1.0	103	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	14.9		"	10.0		149	70-130			QM-07
Matrix Spike Dup (2I24003-MSD1) Source: MLI0354-06 Prepared & Analyzed: 09/24/02										
Gasoline Range Organics (C6-C10)	536	50	ug/l	550	ND	97.5	60-140	8.97	25	
Benzene	12.7	0.50	"	6.60	ND	189	60-140	26.0	25	QM-07
Toluene	47.4	0.50	"	39.7	ND	119	60-140	8.81	25	
Ethylbenzene	10.4	0.50	"	9.20	ND	113	60-140	5.33	25	
Xylenes (total)	51.4	0.50	"	46.1	1.0	109	60-140	5.60	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	13.6		"	10.0		136	70-130			QM-07



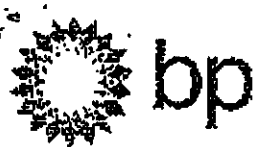
URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: BP Heritage Site #11105, Castro Valley, CA
Project Number: BP Heritage Site #11105, Castro Valley,
Project Manager: Robert Horwath

Reported:
09/30/02 07:53

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.
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Chain of Custody Record

Project Name

BP BU/GEM CO Portfolio:

BP Laboratory Contract Number:

MUE 0378

Date: 9-10-02

Requested Due Date (mm/dd/yy)

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: 3519 Castro Valley Blvd. Castro Valley, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. 11105	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed.rehan@urscorp.com
	California Global ID #: T0600100920	Consultant/Contractor Project No.: 020110-4-2
Lab PM: Latonya Pelt	BP/GEM PM Contact: Scott Hooton	Consultant: Tele/Fax: 510-874-3101 / 510-874-3268
Tele/Fax: 408-776-9800 / 408-782-6308	Address:	Consultant/Contractor PM: Robert Horwath
Report Type & QC Level: Send EDF Reports	Tele/Fax:	(Invoice to) Consultant/Contractor or (BP/GEM) (Circle one)
BP/GEM Account No.: 400-6-21124		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-G/BTEX (8015/8021)	TPH-D (8015)	MTBE (8021)	MTBE, TAME, ETBE, DIPE, TBA (8260)		1,2-DCA & EDB (8260)
1	ESE-1 ✓	11:00		✓			01	3										
2	ESE-2 ✓	13:35					02											
3	ESE-3 ✓	13:02					03											
4	ESE-4 ✓	12:40					04											
5	MW-7 ✓	12:20		✓			05											
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>Albert Madero</u>	Relinquished By / Affiliation:	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>Blaine Tech</u>	<u>[Signature]</u>	<u>9/10/02</u>	<u>1350</u>	<u>[Signature]</u>	<u>9/10/02</u>	<u>1356</u>
Shipment Date:	<u>[Signature]</u>	<u>9/10/02</u>	<u>1630</u>	<u>[Signature]</u>	<u>9-11-02</u>	<u>1630</u>
Shipment Method:						
Shipment Tracking No.:						

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

Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt Trip Blank Yes No

ATTACHMENT D

EDCC REPORT

Error Summary Log

01/31/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage Site #11105,
Work Order Number:	MLI0348
Global ID:	T0600100920
Lab Report Number:	MLI0348112020020643

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MLI034811202002	ESE-1 0643	MLI034801	W	CS	SW8020F	SW5030B	09/10/02	09/24/02	09/24/02	2I24003	1	
MLI034811202002	ESE-2 0643	MLI034802	W	CS	SW8020F	SW5030B	09/10/02	09/24/02	09/24/02	2I24003	1	
MLI034811202002	ESE-3 0643	MLI034803	W	CS	SW8020F	SW5030B	09/10/02	09/19/02	09/19/02	2I19002	1	
MLI034811202002	ESE-5 0643	MLI034804	W	CS	SW8020F	SW5030B	09/10/02	09/19/02	09/19/02	2I19002	1	
MLI034811202002	MW-7 0643	MLI034805	W	CS	SW8020F	SW5030B	09/10/02	09/24/02	09/24/02	2I24003	1	
		MLI026602	W	NC	SW8020F	SW5030B	//	09/19/02	09/19/02	2I19002	1	
		MLI035406	W	NC	SW8020F	SW5030B	//	09/24/02	09/24/02	2I24003	1	
		2I19002BS1	WQ	BS1	SW8020F	SW5030B	//	09/19/02	09/19/02	2I19002	1	
		2I19002BS2	WQ	BS2	SW8020F	SW5030B	//	09/19/02	09/19/02	2I19002	1	
		2I19002BLK1	WQ	LB1	SW8020F	SW5030B	//	09/19/02	09/19/02	2I19002	1	
		2I19002MS1	W	MS1	SW8020F	SW5030B	//	09/19/02	09/19/02	2I19002	1	
		2I19002MSD1	W	SD1	SW8020F	SW5030B	//	09/19/02	09/19/02	2I19002	1	
		2I24003BS1	WQ	BS1	SW8020F	SW5030B	//	09/24/02	09/24/02	2I24003	1	
		2I24003BS2	WQ	BS2	SW8020F	SW5030B	//	09/24/02	09/24/02	2I24003	1	
		2I24003BLK1	WQ	LB1	SW8020F	SW5030B	//	09/24/02	09/24/02	2I24003	1	
		2I24003MS1	W	MS1	SW8020F	SW5030B	//	09/24/02	09/24/02	2I24003	1	
		2I24003MSD1	W	SD1	SW8020F	SW5030B	//	09/24/02	09/24/02	2I24003	1	

EDFSAMP: Error Summary Log

01/31/03

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

EDFTEST: Error Summary Log

01/31/03

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

EDFRES: Error Summary Log

01/31/03

Error type	Labsampid	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2I19002MS1	MS1	W	SW8020F	PR	09/19/02	1	AAATFBZME
Warning: extra parameter	2I19002MS1	MS1	W	SW8020F	PR	09/19/02	1	GROC6C10
Warning: extra parameter	2I19002MSD1	SD1	W	SW8020F	PR	09/19/02	1	AAATFBZME
Warning: extra parameter	2I19002MSD1	SD1	W	SW8020F	PR	09/19/02	1	GROC6C10
Warning: extra parameter	2I24003MS1	MS1	W	SW8020F	PR	09/24/02	1	AAATFBZME
Warning: extra parameter	2I24003MS1	MS1	W	SW8020F	PR	09/24/02	1	GROC6C10
Warning: extra parameter	2I24003MSD1	SD1	W	SW8020F	PR	09/24/02	1	AAATFBZME
Warning: extra parameter	2I24003MSD1	SD1	W	SW8020F	PR	09/24/02	1	GROC6C10
Warning: extra parameter	MLI026602	NC	W	SW8020F	PR	09/19/02	1	AAATFBZME
Warning: extra parameter	MLI026602	NC	W	SW8020F	PR	09/19/02	1	GROC6C10
Warning: extra parameter	MLI034801	CS	W	SW8020F	PR	09/24/02	1	AAATFBZME
Warning: extra parameter	MLI034801	CS	W	SW8020F	PR	09/24/02	1	GROC6C10
Warning: extra parameter	MLI034801	CS	W	SW8020F	PR	09/24/02	1	MTBE
Warning: extra parameter	MLI034802	CS	W	SW8020F	PR	09/24/02	1	AAATFBZME
Warning: extra parameter	MLI034802	CS	W	SW8020F	PR	09/24/02	1	GROC6C10
Warning: extra parameter	MLI034802	CS	W	SW8020F	PR	09/24/02	1	MTBE
Warning: extra parameter	MLI034803	CS	W	SW8020F	PR	09/19/02	1	AAATFBZME
Warning: extra parameter	MLI034803	CS	W	SW8020F	PR	09/19/02	1	GROC6C10
Warning: extra parameter	MLI034803	CS	W	SW8020F	PR	09/19/02	1	MTBE
Warning: extra parameter	MLI034804	CS	W	SW8020F	PR	09/19/02	1	AAATFBZME
Warning: extra parameter	MLI034804	CS	W	SW8020F	PR	09/19/02	1	GROC6C10
Warning: extra parameter	MLI034804	CS	W	SW8020F	PR	09/19/02	1	MTBE
Warning: extra parameter	MLI034805	CS	W	SW8020F	PR	09/24/02	1	AAATFBZME
Warning: extra parameter	MLI034805	CS	W	SW8020F	PR	09/24/02	1	GROC6C10
Warning: extra parameter	MLI034805	CS	W	SW8020F	PR	09/24/02	1	MTBE

Error type	Labsampid	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MLI035406	NC	W	SW8020F	PR	09/24/02	1	AAATFBZME
Warning: extra parameter	MLI035406	NC	W	SW8020F	PR	09/24/02	1	GROC6C10
Warning: extra parameter	2I19002BLK1	LB1	WQ	SW8020F	PR	09/19/02	1	AAATFBZME
Warning: extra parameter	2I19002BLK1	LB1	WQ	SW8020F	PR	09/19/02	1	GROC6C10
Warning: extra parameter	2I19002BLK1	LB1	WQ	SW8020F	PR	09/19/02	1	MTBE
Warning: extra parameter	2I19002BS1	BS1	WQ	SW8020F	PR	09/19/02	1	AAATFBZME
Warning: extra parameter	2I19002BS2	BS2	WQ	SW8020F	PR	09/19/02	1	AAATFBZME
Warning: extra parameter	2I19002BS2	BS2	WQ	SW8020F	PR	09/19/02	1	GROC6C10
Warning: extra parameter	2I24003BLK1	LB1	WQ	SW8020F	PR	09/24/02	1	AAATFBZME
Warning: extra parameter	2I24003BLK1	LB1	WQ	SW8020F	PR	09/24/02	1	GROC6C10
Warning: extra parameter	2I24003BLK1	LB1	WQ	SW8020F	PR	09/24/02	1	MTBE
Warning: extra parameter	2I24003BS1	BS1	WQ	SW8020F	PR	09/24/02	1	AAATFBZME
Warning: extra parameter	2I24003BS2	BS2	WQ	SW8020F	PR	09/24/02	1	AAATFBZME
Warning: extra parameter	2I24003BS2	BS2	WQ	SW8020F	PR	09/24/02	1	GROC6C10

EDFQC: Error Summary Log

01/31/03

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

EDFCL: Error Summary Log

01/31/03

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