

**URS**

Bob  
70-456

June 4, 2004

Mr. Don Hwang  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-8577

Alameda County  
JUN 18 2004  
Environmental Health

**Re: Second Quarter 2004 Groundwater Monitoring Report  
Former BP Service Station #11102  
100 MacArthur Boulevard  
Oakland, California  
URS Project #38486804**

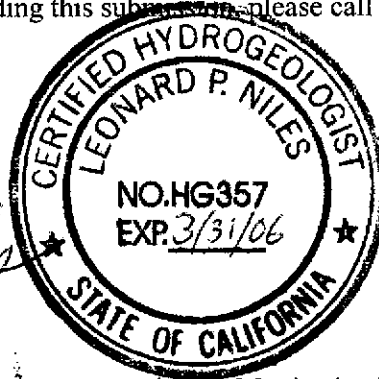
Dear Mr. Hwang:

On behalf of the Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *Second Quarter 2004 Groundwater Monitoring Report* for Former BP Service Station #11102, located at 100 MacArthur Boulevard, Oakland, California.

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

Sincerely,  
URS CORPORATION

*Leonard P. Niles*  
Leonard P. Niles, R.G., C.H.G.  
Project Manager



Enclosure: Second Quarter 2004 Groundwater Monitoring Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)  
Ms. Liz Sewell, ConocoPhillips, 76 Broadway, Sacramento, CA 95818  
Mr. Chris Jimmerson, Delta Environmental Consultants, 3164 Gold Camp Drive, Suite 200,  
Rancho Cordova, California 95670-6021

URS Corporation  
1333 Broadway, Suite 800  
Oakland, CA 94612-1924  
Tel: 510.893.3600  
Fax: 510.874.3268

**REPORT**

ALCOA  
JUN 18 2004  
Environmental Health

**SECOND QUARTER 2004  
GROUNDWATER MONITORING**

FORMER BP SERVICE STATION #11102  
100 MACARTHUR BOULEVARD,  
OAKLAND, CALIFORNIA

*Prepared for*  
Atlantic Richfield Company

June 4, 2004

**URS**

URS Corporation  
1333 Broadway  
Oakland, California 94612

38486804

Date: June 4, 2004  
Quarter: 2Q 04

### BP QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11102 Address: 100 MacArthur Boulevard, Oakland, CA  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation/ Leonard Niles  
Consultant Project No.: 38486804  
Primary Agency/Case #: Alameda County Department of Environmental Health  
(ACDEH)/Case #RO0000456

#### WORK PERFORMED THIS QUARTER (Second – 2004):

1. Performed second quarter 2004 groundwater monitoring event on April 23, 2004.
2. Prepared and submitted second quarter 2004 groundwater monitoring report.
3. Prepared and submitted workplan for additional subsurface investigation.

#### WORK PROPOSED FOR NEXT QUARTER (Third – 2004):

1. Perform third quarter 2004 groundwater monitoring event.
2. Prepare and submit third quarter 2004 groundwater monitoring report.
3. Begin implementing workplan for subsurface investigation pending agency approval.

Current Phase of Project: GW monitoring/sampling  
Frequency of Groundwater Sampling: Wells MW-1 through MW-3 quarterly  
Frequency of Groundwater Monitoring: Quarterly  
Is Free Product (FP) Present On-Site: No  
Current Remediation Techniques: None  
Approximate Depth to Groundwater: 11.45 (MW-1 and MW-2) to 13.17 (MW-3) feet  
Groundwater Gradient (direction): West  
Groundwater Gradient (magnitude): 0.05 feet per foot

#### DISCUSSION:

GRO was detected above laboratory reporting limits in two of the three wells sampled this quarter at concentrations of 470 µg/L (MW-1) and 5,100 µg/L (MW-2). Benzene was detected above laboratory reporting limits in one well at a concentration of 3.4 µg/L (MW-1). MTBE was detected in all three wells at concentrations of 150 µg/L (MW-1), 560 µg/L (MW-3), and 22,000 µg/L (MW-2). TBA was detected above laboratory reporting limits two wells at concentrations of 2,500 µg/L (MW-1) and 11,000 µg/L (MW-2). TAME was detected above laboratory reporting limits in one well at a concentration of 420 µg/L (MW-2). URS is awaiting ACDEH response to the subsurface investigation workplan submitted April 14, 2004. URS increased the groundwater monitoring schedule from semi-annual to quarterly starting in the first quarter 2004, as proposed in our workplan.

**ATTACHMENTS:**

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – April 23, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Chart 1 – Concentration and Water Level Trends, Well MW-1
- Chart 2 – Concentration and Water Level Trends, Well MW-2
- Chart 3 – Concentration and Water Level Trends, Well MW-3
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – EDCC Report and EDF/Geowell Submittal Confirmation


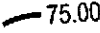
HARRISON STREET

MACARTHUR BOULEVARD

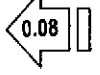
INTERSTATE 580

OAKLAND AVENUE

### EXPLANATION

-  Monitoring Well Location
-  75.00 Groundwater elevation contour (ft/MSL)

<b>Well</b>	Well designation
<b>ELEV</b>	Groundwater elevation (msl)
GRO	GRO, Benzene and MTBE concentrations (µg/L)
Benzene	
MTBE	

-  0.08 Groundwater flow direction and gradient (ft/MSL)

<b>MW-3</b>
73.85
ND<200
ND<25
560

<b>MW-1</b>
78.75
470
3.4
150

<b>MW-2</b>
76.46
5,100
ND<250
22,000

Station Building

former used oil tank

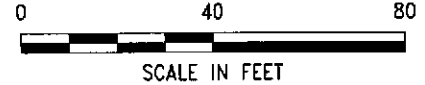
used oil tank

dispenser islands

tank pit



NORTH



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

Project No. 38486804

Former BP Service Station #11102  
100 MacArthur Boulevard  
Oakland, California



**GROUNDWATER ELEVATION CONTOUR  
AND ANALYTICAL SUMMARY MAP**  
Second Quarter 2004 (April 23, 2004)

FIGURE  
**1**

Jun 08, 2004 - 3:42pm X:\b\_ env\ waste\BP\_GEM Sites\11102\Repairs\Monitoring\Dr. 2, 2004\Drawings\GWEC-AS\_4-23.dwg

**Table 1  
Groundwater Elevation and Analytical Data**

Former BP Service Station #11102  
100 MacArthur Boulevard  
Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DEPTH TO WATER (Feet)	GWE (Feet) (b)	GRO / TPH-G (k) (j) (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB
MW-1	11/04/89	90.20	13.21	76.99	ND<500	ND<50	3.4	0.6	ND<0.3	ND<0.3	---	ND<5000	---	0.9	---	---	SAL
	11/11/89		13.32	76.88	---	---	---	---	---	---	---	---	---	---	---	---	---
	04/03/90		12.46	77.74	820	---	64	1.9	23	34	---	---	---	---	---	---	ANA
	07/30/90		12.92	77.28	190	ND<50	11	ND<5.0	ND<5.0	ND<5.0	---	ND<5000	---	ND	---	---	ANA
	11/20/90		14.08	76.12	50	79	2.4	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	---	4.0	---	---	SAL
	03/01/91		13.61	76.59	ND<100	ND<1000	0.9	ND<0.3	ND<0.3	0.3	---	14000	---	ND	---	---	SAL
	08/19/91		15.74	74.46	370	ND<50	35	0.73	6.4	5.6	---	ND<5000	---	1.4	---	---	SEQ
	11/13/91		14.08	76.12	60	ND<50	0.68	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	---	1.0	---	---	SEQ
	02/24/92		12.52	77.68	140	100	3.9	0.66	1.2	3.8	---	ND<5000	---	1.7	---	---	SEQ
	05/19/92		11.8	78.40	4200	910	440	21	250	37	---	ND<5000	---	ND	---	---	SEQ
	06/17/92		12.01	78.19	4000	560	350	14	150	17	---	ND<5000	---	ND	---	---	SEQ
	07/22/92		12.42	77.78	4000	---	ND<5.0	19	210	61	---	---	---	---	---	---	ANA
	08/14/92		12.75	77.45	2400	1700	330	20	150	47	---	ND<5000	---	ND<2.5	---	---	SEQ
	11/11/92		13.69	76.51	260	92	30	3.4	7.6	6.8	---	ND<5000	---	ND<2.5	---	---	ANA
	06/07/93		10.93	79.27	3400	440	98	11	21	7.6	---	---	6.2	0.9	---	---	PACE
(c)	06/07/93		---	---	3700	---	120	12	26	9.5	---	---	---	---	---	---	PACE
	12/02/93		12.72	77.48	1100	120	8.3	3.6	0.6	1.5	---	ND<5000	2.6	1.8	---	---	PACE
	06/22/94		11.81	78.39	2100	ND<50	32	3.8	2.2	17	4000	(d) ND<5000	2.3	3.3	---	3.2	PACE
(c)	06/22/94		---	---	2100	---	30	3.2	2.0	15	2000	(d)	---	---	---	---	PACE
	01/10/95		10.97	79.23	ND<500	420	120	ND<5	ND<5	ND<10	---	---	ND<1	1	---	3.9	ATI
(c)	01/10/95		---	---	ND<500	---	120	ND<5	5	ND<10	---	---	---	---	---	---	ATI
	06/21/95		9.38	80.82	4700	1300	16	ND<5.0	ND<5.0	ND<10	---	2900	2.0	0.38	0.6	(e) 6.7	ATI
(c)	06/21/95		---	---	3600	---	ND<13	ND<5.0	ND<5.0	ND<10	---	---	---	---	---	---	ATI
	12/27/95		11.55	78.65	430	2100	ND<2.5	ND<2.5	ND<2.5	ND<5.0	1200	640	0.67	ND<0.20	---	6.3	ATI
	06/13/96		9.28	80.92	3200	920	51	ND<12	ND<12	ND<12	4000	2000	---	---	---	6.3	SPL
	12/04/96		11.91	78.29	1400	280	6.2	ND<5	ND<5	ND<5	2600	2000	ND<5.0	ND<5.0	6.0	(f) 6.7	SPL
	06/10/97		8.97	81.23	7900	1700	12	ND<10	ND<10	ND<10	15000	ND<5	ND<250	ND<250	ND	6.0	SPL
(c)	06/10/97		---	---	7700	---	14	ND<25	ND<25	ND<25	13000	---	---	---	---	---	SPL
	12/12/97		11.37	78.83	440	760	8.8	ND<1.0	2.6	9.4	6700	1200	ND<1.0	ND<1.0	ND	5.5	SPL
	06/18/98		8.02	82.18	7500	2900	ND<2.5	ND<5.0	ND<5.0	ND<5.0	5600	ND<5	ND<5.0	ND<5.0	ND	4.9	SPL
	03/09/99		9.80	80.40	32000	---	100	16	72	110	49000	---	---	---	---	---	SPL
	09/28/99		10.78	79.42	1000	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	730	---	ND<1.0	ND<1.0	ND<1.0	---	SPL
	10/14/99		10.84	79.36	---	660	---	---	---	---	---	---	---	---	---	---	SPL
	03/27/00		9.83	80.37	4300	---	160	19	37	43	28000	---	---	ND<500	---	---	PACE
	09/28/00		11.33	78.87	2700	---	10	2.6	1.1	2.7	28000	---	---	---	---	---	PACE
	03/08/01		10.96	79.24	8200	---	23.5	6.09	5.23	8.97	11600	---	---	---	---	---	PACE
	09/21/01		12.07	78.13	6000	---	37.9	ND<0.5	ND<0.5	ND<1.5	7370	---	---	---	---	---	PACE
	02/28/02		10.48	79.72	6400	---	60.8	ND<5.0	6.43	ND<10	7750	---	---	---	---	---	PACE
	09/06/02*		11.20	79.00	1400	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	6000	---	---	---	---	---	SEQ
	02/19/03 (h)		11.29	78.91	ND<10000	---	ND<100	110	ND<100	ND<100	4,500	---	---	---	---	---	SEQ
	07/14/03		11.18	79.02	---	---	11	ND<10	ND<10	ND<10	940	---	---	---	---	---	SEQ
	01/14/04		11.74	78.46	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	220	---	---	---	---	---	SEQ
	04/23/04		11.45	78.75	470	(i)	---	3.4	ND<2.5	ND<2.5	ND<2.5	150	---	---	ND<2.5	---	SEQ

**Table 1  
Groundwater Elevation and Analytical Data**

Former BP Service Station #11102  
100 MacArthur Boulevard  
Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DEPTH TO WATER (Feet)	GWE (Feet) (b)	GRO / TPH-G (k) (j) (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB
MW-2	11/04/89	87.91	15.84	72.07	ND<500	---	6.5	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
	11/11/89		14.75	73.16	---	---	---	---	---	---	---	---	---	---	---	---	---
	04/03/90		15.25	72.66	ND<500	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
	07/30/90		15.59	72.32	61	---	6.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
	11/20/90		17.81	70.10	ND<50	---	0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
	03/01/91		17.11	70.80	ND<100	---	0.4	ND<0.3	ND<0.3	ND<0.3	---	---	---	4.0	---	---	SAL
	08/19/91		17.97	69.94	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
	11/13/91		16.76	71.15	38	---	0.32	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
	02/24/92		15.07	72.84	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.58	---	---	---	16	---	---	SEQ
	05/19/92		14.7	73.21	ND<50	---	0.55	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	SEQ
	07/22/92		15.6	72.31	90	---	1.3	0.6	0.9	1.9	---	---	---	---	---	---	ANA
	08/14/92		15.88	72.03	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/11/92		16.19	71.72	52	---	2.8	ND<0.5	ND<0.5	0.9	---	---	---	---	---	---	ANA
(c)	11/11/92		---	---	65	---	3.2	ND<0.5	ND<0.5	1.0	---	---	---	---	---	---	ANA
	06/07/93		14.42	73.49	1200	---	14	2.8	1.9	1.7	---	---	---	---	---	---	PACE
	12/02/93		14.94	---	790	---	3.4	0.5	10	ND<0.5	3700 (d)	---	---	---	---	---	PACE
(c)	12/02/93		---	---	2100	---	32	3.8	2.2	17	3700 (d)	---	2.3	---	---	---	PACE
	06/22/94		14.25	73.66	110	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	120 (d)	---	---	---	---	3.9	PACE
	01/10/95		13.64	74.27	ND<50	---	ND<0.5	ND<0.5	0.6	1	---	---	---	---	---	4.3	ATI
	06/21/95		11.66	76.25	4700	---	ND<10	ND<10	ND<10	ND<20	---	---	---	---	---	7.8	ATI
	12/27/95		13.11	74.80	6100	---	ND<25	ND<25	ND<25	ND<50	20000	---	---	---	---	6.7	ATI
(c)	12/27/95		---	---	6300	---	ND<25	ND<25	ND<25	ND<50	19000	---	---	---	---	---	ATI
	06/13/96		10.86	77.05	8300	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	13000	---	---	---	---	6.5	SPL
(c)	06/13/96		---	---	8700	---	ND<5	ND<5	ND<5	ND<5	13000	---	---	---	---	---	SPL
	12/04/96		13.03	74.88	5900	---	ND<2.5	ND<5	ND<5	ND<5	11000	---	---	---	---	6.3	SPL
(e)	12/04/96		---	---	5900	---	ND<2.5	ND<5	ND<5	ND<5	11000	---	---	---	---	---	SPL
	06/10/97		10.04	77.87	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	5.8	SPL
	12/12/97		12.44	75.47	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	5.7	SPL
	06/18/98		8.89	79.02	50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	5.3	SPL
(c)	06/18/98		---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	SPL
	03/09/99		10.20	77.71	15000	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	23000	---	---	---	---	---	SPL
	09/28/99		11.81	76.10	36000	---	ND<5.0	12	7.0	26	35000	---	ND<5.0	7.7	ND<5.0	---	SPL
	10/14/99		10.27	77.64	---	100	---	---	---	---	---	---	---	---	---	---	SPL
	03/27/00		9.98	77.93	1300	---	ND<0.5	ND<0.5	0.51	ND<0.5	5800	---	---	ND<100	---	---	PACE
	09/28/00		11.40	76.51	1600	---	1.8	1.7	0.54	2.2	15000	---	---	---	---	---	PACE
	03/08/01		11.16	76.75	20000	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	29100	---	---	---	---	---	PACE
	09/21/01		11.65	76.26	5000	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	6110	---	---	---	---	---	PACE
	02/28/02		9.86	78.05	3200	---	35.1	ND<0.5	ND<0.5	ND<1.0	4620	---	---	---	---	---	PACE
	09/06/02*		12.32	75.59	1900	---	ND<10	ND<10	ND<10	ND<10	15000	---	---	---	---	---	SEQ
	02/19/03 (h)		11.63	76.28	45000	---	ND<250	ND<250	ND<250	ND<250	32000	---	---	---	---	---	SEQ
	07/14/03		12.07	75.84	9300	---	ND<500	ND<500	ND<500	ND<500	24000	---	---	---	---	---	SEQ
	01/14/04		11.45	76.46	ND<50000	---	ND<500	ND<500	ND<500	ND<500	21000	---	---	---	---	---	SEQ
	04/23/04		11.45	76.46	5100 (i)	---	ND<250	ND<250	ND<250	ND<250	22000	---	---	ND<250	---	---	SEQ

**Table 1  
Groundwater Elevation and Analytical Data**

Former BP Service Station #11102  
100 MacArthur Boulevard  
Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DEPTH TO WATER (a) (Feet)	GWE (Feet) (b)	GRO / (j) TPH-G (k) (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB
MW-3	11/04/89	87.02	15.4	71.62	ND<500	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	--	--	--	SAL
	11/11/89		14.1	72.92	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/03/90		13.90	73.12	ND<100	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	--	ANA
	07/30/90		13.77	73.25	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND<5000	--	--	--	--	ANA
	11/20/90		14.67	72.35	ND<50	--	0.3	0.8	0.4	1.5	--	--	--	--	--	--	SAL
	03/01/91		15.22	71.80	ND<100	--	0.4	ND<0.3	ND<0.3	ND<0.3	--	--	--	ND	--	--	SAL
	08/19/91		13.15	73.87	ND<30	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	--	--	--	SEQ
	11/13/91		15.66	71.36	ND<30	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	--	--	--	SEQ
	02/24/92		15.01	72.01	ND<50	--	0.65	1.4	0.66	4.4	--	--	--	ND	--	--	SEQ
	05/19/92		15.52	71.50	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	--	SEQ
	07/22/92		15.63	71.39	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND<5000	--	ND<0.50	--	--	ANA
	08/14/92		13.57	73.45	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/92		14.13	72.89	ND<50	--	ND<0.5	0.7	ND<0.5	1.3	--	--	--	--	--	--	ANA
	06/07/93		12.13	74.89	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	--	PACE
	12/02/93		13.29	73.73	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	--	PACE
	06/22/94		12.78	74.24	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	2.9	PACE
	01/10/95		12.01	75.01	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	1	--	3.8	ATI
	06/21/95		11.57	75.45	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	--	--	--	7.4	ATI
	12/27/95		13.47	73.55	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	5.7	--	--	--	--	7.3	ATI
	06/13/96		11.22	75.80	60	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<10	--	--	--	--	6.8	SPL
	12/04/96		13.28	73.74	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	ND<10	--	--	--	--	6.7	SPL
	06/10/97		10.22	76.80	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	--	--	6.1	SPL
	12/12/97		12.61	74.41	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	--	--	5.6	SPL
(c)	12/12/97		--	--	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	--	--	--	SPL
	06/18/98		9.07	77.95	50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	--	--	5.3	SPL
	06/18/98		12.80	74.22	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/28/99		13.76	73.26	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/27/00		13.77	73.25	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	--	--	--	--	--	PACE
	09/28/00		11.28	75.74	ND<50	--	ND<0.5	7.4	ND<0.5	1.3	2.0	--	--	--	--	--	PACE
	03/08/01		11.75	75.27	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	60.4	--	--	--	--	--	PACE
	09/21/01		11.33	75.69	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1.5	8.18	--	--	--	--	--	PACE
	02/28/02		10.86	76.16	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1.0	25.5	--	--	--	--	--	PACE
	09/06/02*		12.73	74.29	ND<50	--	1.2	ND<0.5	ND<0.5	1.0	16	--	--	--	--	--	SEQ
	02/19/03 (h)		11.72	75.30	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	110	--	--	--	--	--	SEQ
	07/14/03		13.76	73.26	ND<50	--	ND<0.50	ND<0.50	ND<0.50	0.67	28	--	--	--	--	--	SEQ
	01/14/04		14.83	72.19	550	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	380	--	--	--	--	--	SEQ
	04/23/04		13.17	73.85	ND<200 (l)	--	ND<25	ND<25	ND<25	ND<25	560	--	--	ND<25	--	--	SEQ



**Table 1  
Groundwater Elevation and Analytical Data**

Former BP Service Station #11102  
100 MacArthur Boulevard  
Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DEPTH TO WATER (Feet)	GWE (Feet)	GRO / (j) TPH-G (k) (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB
QC-2	(g) 11/11/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
QC-2	(g) 06/07/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2	(g) 12/02/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2	(g) 06/22/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2	(g) 01/10/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	---	---	ATI
QC-2	(g) 06/21/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	ATI
QC-2	(g) 12/27/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	---	---	ATI
QC-2	(g) 06/13/96	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<10	---	---	---	---	---	SPL

**ABBREVIATIONS:**

TOC	Top of casing	(a)	Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.
GWE	Groundwater elevation	(b)	Groundwater elevations in feet above mean sea level.
TPH-G	Total petroleum hydrocarbons as gasoline	(c)	Blind duplicate.
GRO	Gasoline Range Organics	(d)	A copy of the documentation for this data is included in Appendix C of Alisto report 10-076-06-002.
TPH-D	Total petroleum hydrocarbons as diesel	(e)	Tetrachloroethene.
B	Benzene	(f)	Trans-1,2-Dichloroethene
T	Toluene	(g)	Travel blank.
E	Ethylbenzene	(h)	TPH, BTEX, and MTBE analyzed by EPA Method 8260B beginning on 1st Quarter Sampling event (2/19/03)
X	Total xylenes	(i)	Discrete peak @ C6-C7.
TOG	Total oil and grease	(j)	Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPH-g) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.
1,1-DCA	1,1-Dichloroethane	(k)	Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.
1,2-DCA	1,2-Dichloroethane	(l)	GRO analyzed by EPA Method 8015B
1,2-DBA	1,2-Dibromoethane		
HVOC's	Halogenated volatile organic compounds		
MTBE	Methyl tert butyl ether		
DIPE	Di-Isopropyl Ether		
ETBE	Ethyl t-Butyl Ether		
TAME	t-Amyl Methyl Ether		
DO	Dissolved oxygen		
ug/l	Micrograms per liter		
ppm	Parts per million		
ND<	Not detected at or above laboratory reporting limit		
---	Not analyzed/measured/applicable		
SAL	Superior Analytical Laboratory		
ANA	Anametrix, Inc.		
SEQ	Sequoia Analytical Laboratory		
PACE	Pace, Inc.		
ATI	Analytical Technologies, Inc.		
SPL	Southern Petroleum Laboratories		

\* The data within this table collected prior to June 2002 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified the accuracy of this information.

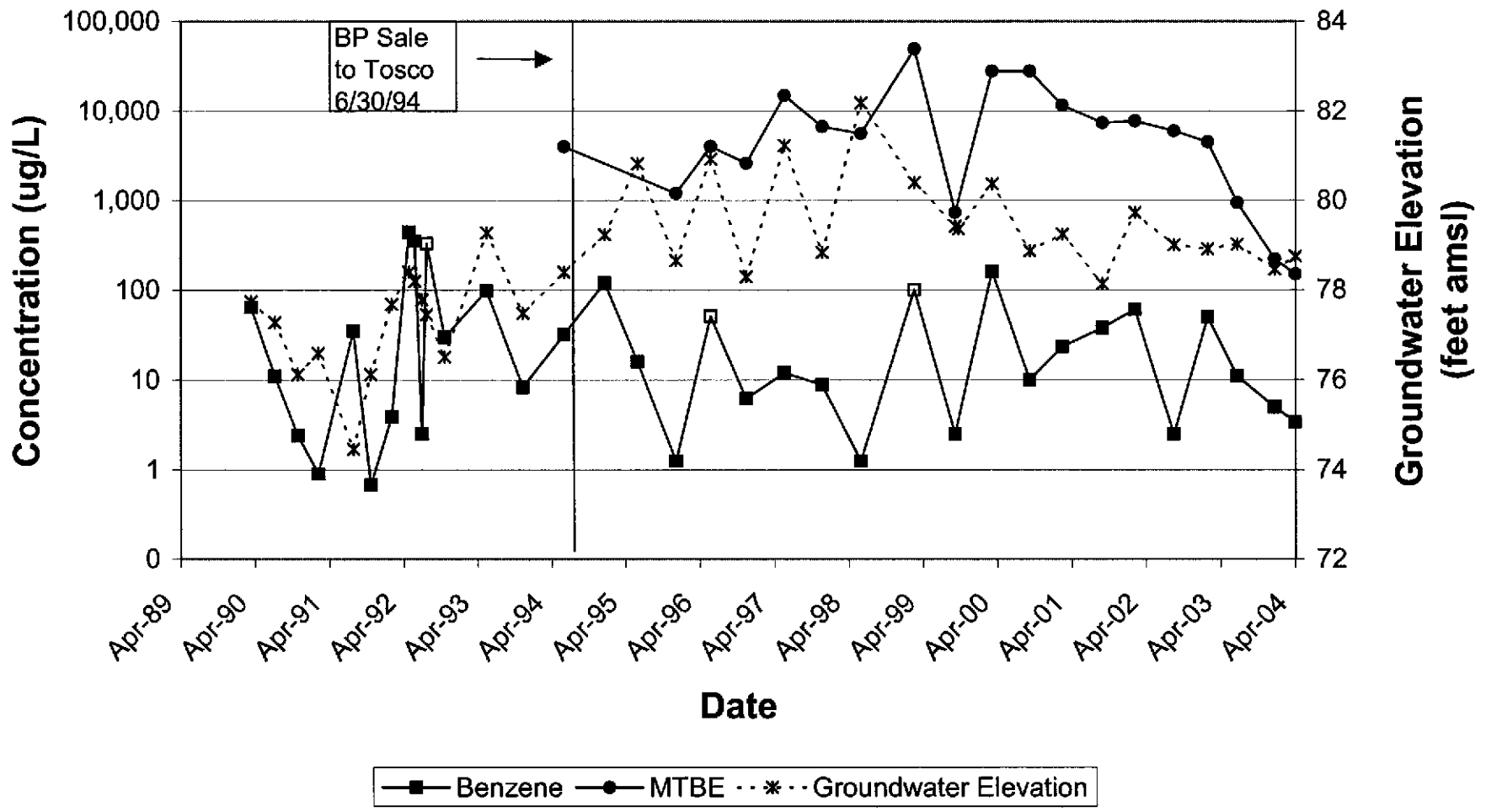
**Table 2**  
**Fuel Oxygenates Analytical Data**  
Former BP Service Station #11102  
100 MacArthur Boulevard  
Oakland, CA

Well ID	DATE OF SAMPLING/ MONITORING	Ethanol (ug/L)	TBA (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
MW-1	7/14/2003	ND<2000	2700	940	ND<20	ND<20	ND<20	NA	NA
	1/14/2004	ND<1000	2500	220	ND<5.0	ND<5.0	ND<5.0	NA	NA
	4/23/2004	ND<500	2500	150	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
MW-2	7/14/2003	ND<100000	ND<20000	24000	ND<1000	ND<1000	ND<1000	NA	NA
	1/14/2004	ND<100000	ND<20000	21000	ND<500	ND<500	ND<500	NA	NA
	4/23/2004	ND<50000	11000	22000	ND<250	ND<250	420	ND<250	ND<250
MW-3	7/14/2003	ND<100	ND<20	28	ND<1.0	ND<1.0	ND<1.0	NA	NA
	1/14/2004	ND<1000	ND<200	380	ND<5.0	ND<5.0	ND<5.0	NA	NA
	4/23/2004	ND<5000	ND<1000	560	ND<25	ND<25	ND<25	ND<25	ND<25

ABBREVIATIONS:

ug/L	Micrograms per liter
ND<	Not detected at or above specified laboratory reporting limit
TBA	tert-Butyl Alcohol
MTBE	Methyl tert butyl ether
DIPE	Di-Isopropyl Ether
ETBE	Ethyl t-Butyl Ether
TAME	tert-Amyl Methyl Ether
1,2-DCA	1,2-Dichloroethane
EDB	1,2-Dibromoethane

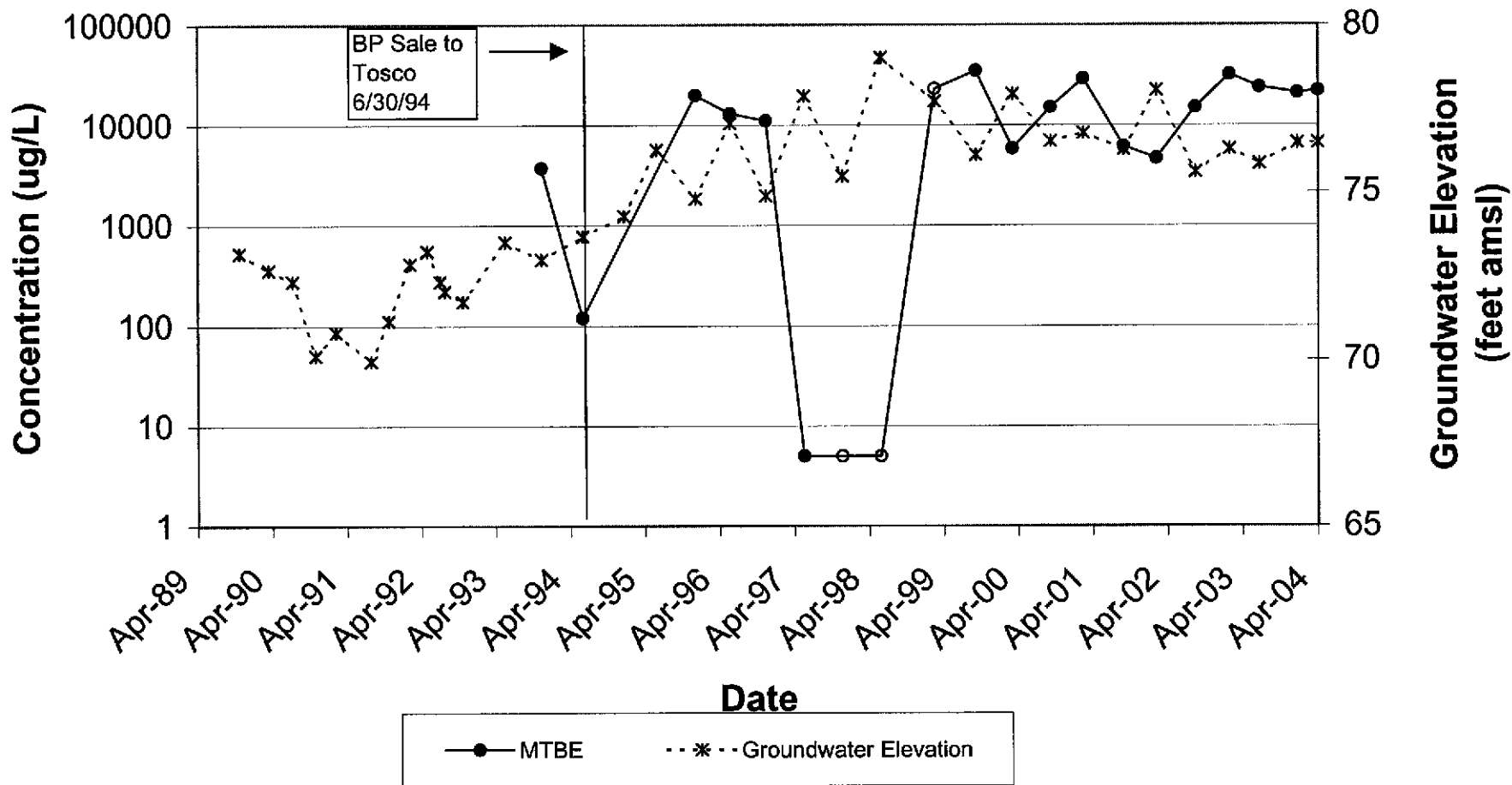
# Concentration and Water Level Trends Well MW-1



Former BP Service Station #11102  
100 MacArthur Blvd  
Oakland, CA

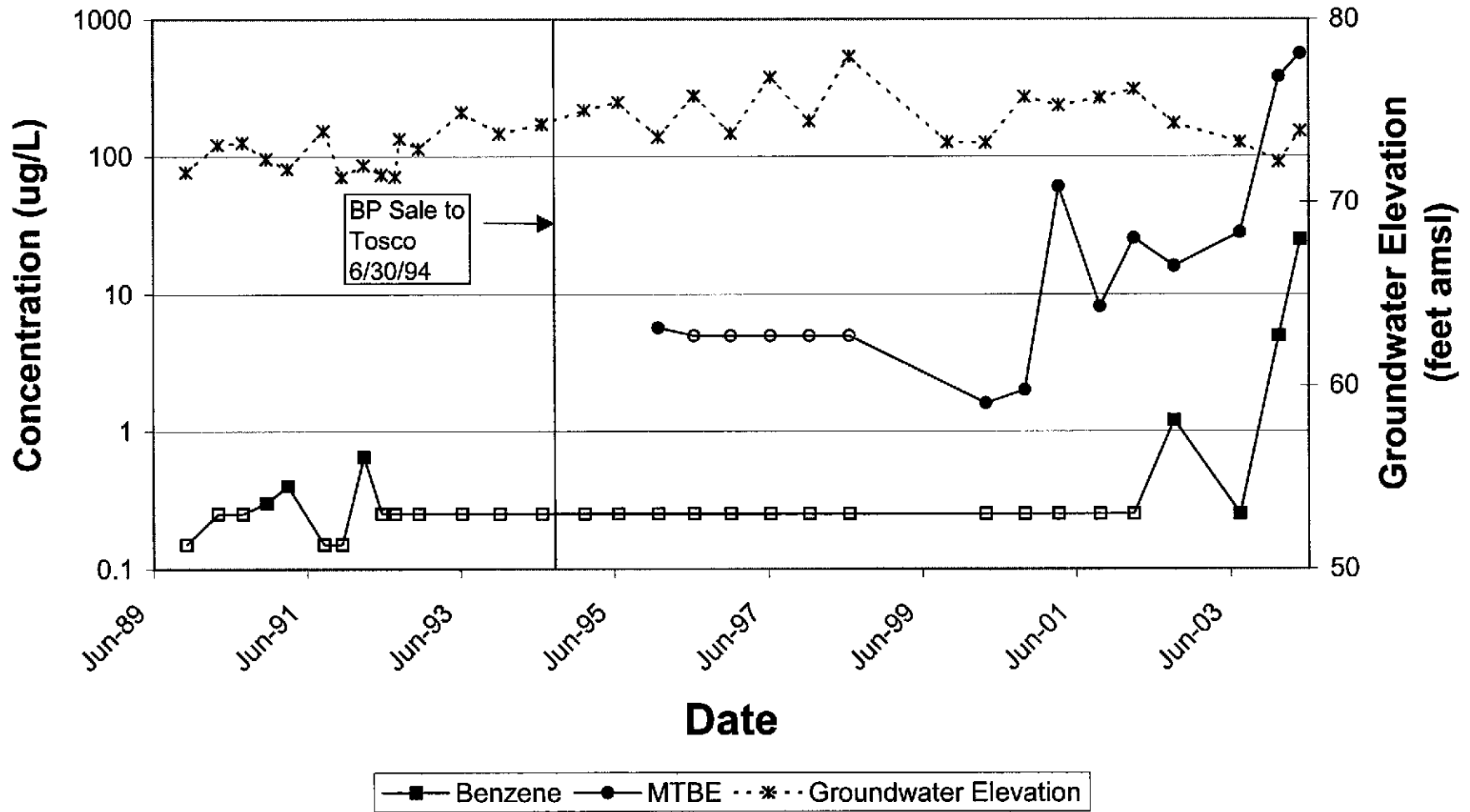
**Chart 1**

# Concentration and Water Level Trends Well MW-2



Former BP Service Station #11102  
100 MacArthur Blvd  
Oakland, CA

# Concentration and Water Level Trends Well MW-3



BP Oil Site No. 11102  
 100 MacArthur Boulevard  
 Oakland, California

**Chart 3**

**ATTACHMENT A**  
**FIELD PROCEDURES AND FIELD DATA SHEETS**

## **FIELD PROCEDURES**

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### **Sampling Procedures**

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe.

Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

## WELL GAUGING DATA

Project # 0210423-SS2 Date 4/23/04 Client BP 11102

Site 100 MACARTHUR BLVD, OAKLAND

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	4					11.05	32.00	
MW-2	4					11.95	32.37	↓
MW-3	4					13.17	32.46	↓



## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040423-552</u>	Station # <u>11102</u>
Sampler: <u>SODH</u>	Date: <u>4/23/04</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>32.00</u>	Depth to Water: <u>11.95</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> 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>13.5</u>	X	<u>3</u>	=	<u>40.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
<u>1257</u>	<u>69.0</u>	<u>6.7</u>	<u>777</u>	<u>13.5</u>	<u>clear</u>
<u>1300</u>	<u>68.5</u>	<u>6.7</u>	<u>812</u>	<u>270</u>	"
<u>1303</u>	<u>68.5</u>	<u>6.7</u>	<u>829</u>	<u>40.5</u>	"

Did well dewater? Yes  No  Gallons actually evacuated: 40.5

Sampling Time: 1306 Sampling Date: 4/23/04

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SPROXY'S, EDB, 1,2-DCA + ETHANOL ALL BY 4/26/04

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040423-552</u>	Station # <u>11102</u>
Sampler: <u>SODH</u>	Date: <u>4/23/04</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <b>(4)</b> 6 8
Total Well Depth: <u>32.37</u>	Depth to Water: <u>11.45</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric <u>Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> 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>13.6</u>	X	<u>3</u>	=	<u>40.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
1243	69.8	6.4	722	13.6	radio
1246	69.8	6.4	718	27.5	"
well dewatered			27.5 gal.		DTW = 30.45
1320	70.1	6.8	940	—	DTW = 25.84 @ site report

Did well dewater? <u>Yes</u> No	Gallons actually evacuated: <u>27.5</u>
Sampling Time: <u>1320</u>	Sampling Date: <u>4/23/04</u>
Sample I.D.: <u>MW-2</u>	Laboratory: Pace <u>Sequoia</u> Other: _____
Analyzed for: TPH-G <u>BTEX</u> MTBE TPH-D Other: <u>GRO, DXY'S, ED, B, 1, 2-DCA + ETHANOL AL BY 8262</u>	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040423-552</u>	Station # <u>11102</u>
Sampler: <u>SOOHT</u>	Date: <u>4/23/04</u>
Well I.D.: <u>NW-3</u>	Well Diameter: 2 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/>
Total Well Depth: <u>32.46</u>	Depth to Water: <u>13.17</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> 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>12.5</u>	x	<u>3</u>	=	<u>37.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
1231	69.3	6.5	917	12.5	Water
1234	69.6	6.6	874	25.0	"
WELL DEWATERED @			25 gal.		DTW = 30.60
1315	70.9	6.8	772	—	DTW = 27.20 @ 545 DEPTH

Did well dewater? Yes No      Gallons actually evacuated: 25

Sampling Time: 1315      Sampling Date: 4/23/04

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SPO, DXY'S, EDB, 1,2-DCA + ENVIRONMENTAL ALL BY 826

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 PLAINTECH 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 # 1102

Station Address 100 MacArthur Blvd OAKLAND

Total Gallons Collected From Groundwater Monitoring Wells:

---

added equip. \_\_\_\_\_ any other adjustments \_\_\_\_\_  
 rinse water \_\_\_\_\_

**TOTAL GALS. RECOVERED** 93 loaded onto BTS vehicle # 84

BTS event # 040423-552 time 1330 date 9/23/04

signature [Signature]

\*\*\*\*\*

REC'D AT BTS time 1415 date 9/23/04

unloaded by signature [Signature]

**ATTACHMENT B**

**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 Atlantic Richfield Company have been reviewed and verified by that laboratory.



18 May, 2004

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

RE: BP Heritage #11102, Oakland, CA  
Work Order: MND0628

Enclosed are the results of analyses for samples received by the laboratory on 04/26/04 11:12. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race  
Senior Project Manager

CA ELAP Certificate #1210



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

Project: BP Heritage #11102, Oakland, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MND0628  
Reported:  
05/18/04 12:55

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MND0628-01	Water	04/23/04 13:06	04/26/04 11:12
MW-2	MND0628-02	Water	04/23/04 13:20	04/26/04 11:12
MW-3	MND0628-03	Water	04/23/04 13:15	04/26/04 11:12

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with intact custody seals.



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

Project: BP Heritage #11102, Oakland, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MND0628  
Reported:  
05/18/04 12:55

**Purgeable Hydrocarbons by EPA 8015B  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (MND0628-01) Water Sampled: 04/23/04 13:06 Received: 04/26/04 11:12</b>									
Gasoline Range Organics (C4-C12)	470	100	ug/l	2	4E06026	05/06/04	05/06/04	EPA 8015B- VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	70-130		"	"	"	"	
<b>MW-2 (MND0628-02) Water Sampled: 04/23/04 13:20 Received: 04/26/04 11:12</b>									
Gasoline Range Organics (C4-C12)	5100	5000	ug/l	100	4E06026	05/06/04	05/06/04	EPA 8015B- VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	70-130		"	"	"	"	
<b>MW-3 (MND0628-03) Water Sampled: 04/23/04 13:15 Received: 04/26/04 11:12</b>									
Gasoline Range Organics (C4-C12)	ND	200	ug/l	4	4E06026	05/06/04	05/06/04	EPA 8015B- VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	70-130		"	"	"	"	

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

Project: BP Heritage #11102, Oakland, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MND0628  
Reported:  
05/18/04 12:55

**BTEX by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (MND0628-01) Water</b> Sampled: 04/23/04 13:06 Received: 04/26/04 11:12									
Benzene	3.4	2.5	ug/l	5	4E07002	05/07/04	05/07/04	EPA 8260B	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	78-129		"	"	"	"	
<b>MW-2 (MND0628-02) Water</b> Sampled: 04/23/04 13:20 Received: 04/26/04 11:12									
Benzene	ND	250	ug/l	500	4E07002	05/07/04	05/07/04	EPA 8260B	
Toluene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
Xylenes (total)	ND	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	78-129		"	"	"	"	
<b>MW-3 (MND0628-03) Water</b> Sampled: 04/23/04 13:15 Received: 04/26/04 11:12									
Benzene	ND	25	ug/l	50	4E07002	05/07/04	05/07/04	EPA 8260B	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	78-129		"	"	"	"	

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

Project: BP Heritage #11102, Oakland, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MND0628  
Reported:  
05/18/04 12:55

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (MND0628-01) Water</b> Sampled: 04/23/04 13:06 Received: 04/26/04 11:12									
Ethanol	ND	500	ug/l	5	4E07002	05/07/04	05/07/04	EPA 8260B	
tert-Butyl alcohol	2500	100	"	"	"	"	"	"	
Methyl tert-butyl ether	150	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	78-129	"	"	"	"	"	
<b>MW-2 (MND0628-02) Water</b> Sampled: 04/23/04 13:20 Received: 04/26/04 11:12									
Ethanol	ND	50000	ug/l	500	4E07002	05/07/04	05/07/04	EPA 8260B	
tert-Butyl alcohol	11000	10000	"	"	"	"	"	"	
Methyl tert-butyl ether	22000	250	"	"	"	"	"	"	
Di-isopropyl ether	ND	250	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	250	"	"	"	"	"	"	
tert-Amyl methyl ether	420	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	78-129	"	"	"	"	"	
<b>MW-3 (MND0628-03) Water</b> Sampled: 04/23/04 13:15 Received: 04/26/04 11:12									
Ethanol	ND	5000	ug/l	50	4E07002	05/07/04	05/07/04	EPA 8260B	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether	560	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	78-129	"	"	"	"	"	

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

 Project: BP Heritage #11102, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MND0628  
 Reported:  
 05/18/04 12:55

**Purgeable Hydrocarbons by EPA 8015B - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RBC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4E06026 - EPA 5030B [P/T]</b>										
<b>Blank (4E06026-BLK1)</b>										
Prepared & Analyzed: 05/06/04										
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	43.8		"	40.0		110	70-130			
<b>Laboratory Control Sample (4E06026-BS2)</b>										
Prepared & Analyzed: 05/06/04										
Gasoline Range Organics (C4-C12)	261	50	ug/l	250		104	62-134			
Surrogate: 4-Bromofluorobenzene	46.5		"	40.0		116	70-130			
<b>Matrix Spike (4E06026-MS1)</b>										
Source: MND0609-01										
Prepared & Analyzed: 05/06/04										
Gasoline Range Organics (C4-C12)	510	50	ug/l	550	ND	92.7	62-134			
Surrogate: 4-Bromofluorobenzene	43.2		"	40.0		108	70-130			
<b>Matrix Spike Dup (4E06026-MSD1)</b>										
Source: MND0609-01										
Prepared & Analyzed: 05/06/04										
Gasoline Range Organics (C4-C12)	514	50	ug/l	550	ND	93.5	62-134	0.781	41	
Surrogate: 4-Bromofluorobenzene	41.9		"	40.0		105	70-130			

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

Project: BP Heritage #11102, Oakland, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MND0628  
Reported:  
05/18/04 12:55

**BTEX 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 4E07002 - EPA 5030B P/T**

**Blank (4E07002-BLK1)**

Prepared & Analyzed: 05/07/04

Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.45</i>		<i>"</i>	<i>5.00</i>		<i>109</i>	<i>78-129</i>			

**Laboratory Control Sample (4E07002-BS1)**

Prepared & Analyzed: 05/07/04

Benzene	20.4	0.50	ug/l	20.0		102	69-124			
Toluene	22.8	0.50	"	20.0		114	78-129			
Ethylbenzene	22.1	0.50	"	20.0		110	84-132			
Xylenes (total)	69.7	0.50	"	60.0		116	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.63</i>		<i>"</i>	<i>5.00</i>		<i>113</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (4E07002-BSD1)**

Prepared & Analyzed: 05/07/04

Benzene	19.4	0.50	ug/l	20.0		97.0	69-124	5.03	20	
Toluene	21.7	0.50	"	20.0		108	78-129	4.94	20	
Ethylbenzene	21.1	0.50	"	20.0		106	84-132	4.63	20	
Xylenes (total)	67.0	0.50	"	60.0		112	83-137	3.95	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.79</i>		<i>"</i>	<i>5.00</i>		<i>116</i>	<i>78-129</i>			

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

 Project: BP Heritage #11102, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MND0628  
 Reported:  
 05/18/04 12:55

**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 4E07002 - EPA 5030B P/T**
**Blank (4E07002-BLK1)**

Prepared &amp; Analyzed: 05/07/04

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	"							

*Surrogate: 1,2-Dichloroethane-d4*      5.45      "      5.00      109      78-129

**Laboratory Control Sample (4E07002-BS1)**

Prepared &amp; Analyzed: 05/07/04

Ethanol	335	100	ug/l	400		83.8	31-143			
tert-Butyl alcohol	111	20	"	100		111	56-131			
Methyl tert-butyl ether	18.6	0.50	"	20.0		93.0	63-137			
Di-isopropyl ether	19.0	0.50	"	20.0		95.0	76-130			
Ethyl tert-butyl ether	22.1	0.50	"	20.0		110	81-121			
tert-Amyl methyl ether	22.8	0.50	"	20.0		114	82-140			
1,2-Dichloroethane	21.6	0.50	"	20.0		108	77-136			
1,2-Dibromoethane (EDB)	23.9	0.50	"	20.0		120	77-132			

*Surrogate: 1,2-Dichloroethane-d4*      5.63      "      5.00      113      78-129

**Laboratory Control Sample Dup (4E07002-BSD1)**

Prepared &amp; Analyzed: 05/07/04

Ethanol	354	100	ug/l	400		88.5	31-143	5.52	20	
tert-Butyl alcohol	117	20	"	100		117	56-131	5.26	20	
Methyl tert-butyl ether	18.0	0.50	"	20.0		90.0	63-137	3.28	20	
Di-isopropyl ether	18.3	0.50	"	20.0		91.5	76-130	3.75	20	
Ethyl tert-butyl ether	21.6	0.50	"	20.0		108	81-121	2.29	20	
tert-Amyl methyl ether	22.6	0.50	"	20.0		113	82-140	0.881	20	
1,2-Dichloroethane	20.8	0.50	"	20.0		104	77-136	3.77	20	
1,2-Dibromoethane (EDB)	24.0	0.50	"	20.0		120	77-132	0.418	20	

*Surrogate: 1,2-Dichloroethane-d4*      5.79      "      5.00      116      78-129

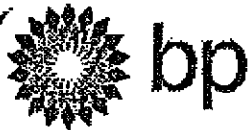
URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland CA, 94612

Project: BP Heritage #11102, Oakland, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MND0628  
**Reported:**  
05/18/04 12:55

### Notes and Definitions

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

MND0628

Project Name GWM  
 BP BU/GEM CO Portfolio Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company  
 Date: 4/27/04 Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: 1215 Temp: 75°  
 Off-site Time: 1330 Temp: 75°  
 Sky Conditions: CCMR  
 Meteorological Events:  
 Wind Speed: \_\_\_\_\_ Direction: \_\_\_\_\_

Send To:	BP/GEM Facility No.: 11102	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 100 MCARTHUR BLVD., OAKLAND, CA	Address: 1333 Broadway, Suite 800
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. 11102	Oakland, CA 94612
	Site Lat/Long:	e-mail EDD: donna.casper@URSCorp.com
	California Global ID #: T0600100908	Consultant/Contractor Project No.:
Lab PM Lisa Race	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-893-3600/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address: P.O. Box 6549	Consultant/Contractor PM: Leonard Niles
Report Type & QC Level: 1 Send BDF Reports	Moraga, CA 94570	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax: 925-299-8891/925-299-8872	BP/GEM Work Release No:

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	GRO/BTEX (8015/8021) (8260)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE, DPE, TBA (8260)	1,2-DCA & EDB (8260)	
1	MU-1	1306	X				3				X			X	X	X			
2	MU-2	1320	X				↓				X			X	X	X			
3	UW-3	1315	X				↓				X			X	X	X			
4	TR-1102-427204	-	X				2											ON HOLD	
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>SUCROAN SUNG</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>BLUME TECH</u>	<i>[Signature]</i>	<u>4/26/04</u>	<u>1028</u>	<i>[Signature]</i>	<u>4/26/04</u>	<u>1028</u>
Shipment Date:	<i>[Signature]</i>	<u>4/27/04</u>	<u>1112</u>	<u>MMK</u>	<u>4-26-04</u>	<u>1112</u>
Shipment Method:						
Shipment Tracking No:						

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

Refrigeration In Place Yes  No  Temperature Blank Yes  No  Cooler Temperature on Receipt 4 °F/C Trip Blank Yes  No



# SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP  
 REC. BY (PRINT): MME  
 WORKORDER: MND0628

DATE REC'D AT LAB: 4-26-09  
 TIME REC'D AT LAB: 1112  
 DATE LOGGED IN: 4-26-09

DRINKING WATER for  
 regulatory purposes: YES /  NO  
 WASTE WATER for  
 regulatory purposes: YES /  NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <u>in bag</u>			MW-1	VOL (3)	HCl	L	4-23-09	
2. Chain-of-Custody			MW-2	↓	↓	↓	↓	
3. Traffic Reports or Packing List:			MW-3	↓	↓	↓	↓	
4. Airbill:			TB 1102 4/22/09	VOL (2)	↓	↓	↓	
5. Airbill #:								
6. Sample Labels:								
7. Sample IDs: on Chain-of-Custody								
8. Sample Condition: Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?								
10. Sample received within hold time:								
11. Adequate sample volume received?								
12. Proper Preservatives used:								
13. Temp Rec. at Lab: Is temp 4 +/-2°C?								
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;">             MME 4-26-09           </div>								

(Acceptance range for samples requiring thermal pres.)  
 \*\*Exception (if any): METALS / DFF ON ICE or Problem COC

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

**ATTACHMENT C**

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

---

## Error Summary Log

05/18/04

EDF 1.2i All files present in deliverable.

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Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage #11102, Oakla
Work Order Number:	MND0628
Global ID:	T0600100908
Lab Report Number:	MND0628051820041255

## Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MND0628051820 041255	MW-1	MND062801	W	CS	8260FA	SW5030B	04/23/04	05/07/04	05/07/04	4E07002	1	
MND0628051820 041255	MW-1	MND062801	W	CS	SW8015B	SW5030B	04/23/04	05/06/04	05/06/04	4E06026	1	
MND0628051820 041255	MW-1	MND062801	W	CS	SW8260B	SW5030B	04/23/04	05/07/04	05/07/04	4E07002	1	
MND0628051820 041255	MW-2	MND062802	W	CS	8260FA	SW5030B	04/23/04	05/07/04	05/07/04	4E07002	1	
MND0628051820 041255	MW-2	MND062802	W	CS	SW8015B	SW5030B	04/23/04	05/06/04	05/06/04	4E06026	1	
MND0628051820 041255	MW-2	MND062802	W	CS	SW8260B	SW5030B	04/23/04	05/07/04	05/07/04	4E07002	1	
MND0628051820 041255	MW-3	MND062803	W	CS	8260FA	SW5030B	04/23/04	05/07/04	05/07/04	4E07002	1	
MND0628051820 041255	MW-3	MND062803	W	CS	SW8015B	SW5030B	04/23/04	05/06/04	05/06/04	4E06026	1	
MND0628051820 041255	MW-3	MND062803	W	CS	SW8260B	SW5030B	04/23/04	05/07/04	05/07/04	4E07002	1	
		MND060901	W	NC	SW8015B	SW5030B	//	05/06/04	05/06/04	4E06026	1	
		4E06026BS2	WQ	BS2	SW8015B	SW5030B	//	05/06/04	05/06/04	4E06026	1	
		4E06026BLK1	WQ	LB1	SW8015B	SW5030B	//	05/06/04	05/06/04	4E06026	1	
		4E06026MS1	W	MS1	SW8015B	SW5030B	//	05/06/04	05/06/04	4E06026	1	
		4E06026MSD1	W	SD1	SW8015B	SW5030B	//	05/06/04	05/06/04	4E06026	1	
		4E07002BSD1	WQ	BD1	8260FA	SW5030B	//	05/07/04	05/07/04	4E07002	1	
		4E07002BSD1	WQ	BD1	SW8260B	SW5030B	//	05/07/04	05/07/04	4E07002	1	
		4E07002BS1	WQ	BS1	8260FA	SW5030B	//	05/07/04	05/07/04	4E07002	1	
		4E07002BS1	WQ	BS1	SW8260B	SW5030B	//	05/07/04	05/07/04	4E07002	1	
		4E07002BLK1	WQ	LB1	8260FA	SW5030B	//	05/07/04	05/07/04	4E07002	1	
		4E07002BLK1	WQ	LB1	SW8260B	SW5030B	//	05/07/04	05/07/04	4E07002	1	

# EDFSAMP: Error Summary Log

05/18/04

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

# EDFTEST: Error Summary Log

05/18/04

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					11	0

# EDFRES: Error Summary Log

05/18/04

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4E06026MS1	MS1	W	SW8015B	PR	05/06/04	1	BR4FBZ
Warning: extra parameter	4E06026MS1	MS1	W	SW8015B	PR	05/06/04	1	GROC4C12
Warning: extra parameter	4E06026MSD1	SD1	W	SW8015B	PR	05/06/04	1	BR4FBZ
Warning: extra parameter	4E06026MSD1	SD1	W	SW8015B	PR	05/06/04	1	GROC4C12
Warning: extra parameter	MND060901	NC	W	SW8015B	PR	05/06/04	1	BR4FBZ
Warning: extra parameter	MND060901	NC	W	SW8015B	PR	05/06/04	1	GROC4C12
Warning: extra parameter	MND062801	CS	W	8260FA	PR	05/07/04	1	DCA12D4
Warning: extra parameter	MND062801	CS	W	SW8015B	PR	05/06/04	1	BR4FBZ
Warning: extra parameter	MND062801	CS	W	SW8015B	PR	05/06/04	1	GROC4C12
Warning: extra parameter	MND062801	CS	W	SW8260B	PR	05/07/04	1	XYLENES
Warning: extra parameter	MND062802	CS	W	8260FA	PR	05/07/04	1	DCA12D4
Warning: extra parameter	MND062802	CS	W	SW8015B	PR	05/06/04	1	BR4FBZ
Warning: extra parameter	MND062802	CS	W	SW8015B	PR	05/06/04	1	GROC4C12
Warning: extra parameter	MND062802	CS	W	SW8260B	PR	05/07/04	1	XYLENES
Warning: extra parameter	MND062803	CS	W	8260FA	PR	05/07/04	1	DCA12D4
Warning: extra parameter	MND062803	CS	W	SW8015B	PR	05/06/04	1	BR4FBZ
Warning: extra parameter	MND062803	CS	W	SW8015B	PR	05/06/04	1	GROC4C12
Warning: extra parameter	MND062803	CS	W	SW8260B	PR	05/07/04	1	XYLENES
Warning: extra parameter	4E06026BLK1	LB1	WQ	SW8015B	PR	05/06/04	1	BR4FBZ
Warning: extra parameter	4E06026BLK1	LB1	WQ	SW8015B	PR	05/06/04	1	GROC4C12
Warning: extra parameter	4E06026BS2	BS2	WQ	SW8015B	PR	05/06/04	1	BR4FBZ
Warning: extra parameter	4E06026BS2	BS2	WQ	SW8015B	PR	05/06/04	1	GROC4C12
Warning: extra parameter	4E07002BLK1	LB1	WQ	8260FA	PR	05/07/04	1	DCA12D4
Warning: extra parameter	4E07002BLK1	LB1	WQ	SW8260B	PR	05/07/04	1	XYLENES
Warning: extra parameter	4E07002BS1	BS1	WQ	8260FA	PR	05/07/04	1	DCA12D4

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4E07002BS1	BS1	WQ	SW8260B	PR	05/07/04	1	XYLENES
Warning: extra parameter	4E07002BSD1	BD1	WQ	8260FA	PR	05/07/04	1	DCA12D4
Warning: extra parameter	4E07002BSD1	BD1	WQ	SW8260B	PR	05/07/04	1	XYLENES



# EDFQC: Error Summary Log

05/18/04

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

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## EDFCL: Error Summary Log

05/18/04

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

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**Confirmation Number:** 2023559391

**Date/Time of Submittal:** 5/18/2004 4:31:09 PM

**Facility Global ID:** T0600100908

**Facility Name:** BP

**Submittal Title:** 2nd Qtr 2004 Monitoring Report #11102

**Submittal Type:** GW Monitoring Report

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CONTACT SITE ADMINISTRATOR.

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

**Submittal Title:** 2nd Qtr 2004 Geowell #11102

**Submittal Date/Time:** 5/18/2004 4:31:46 PM

**Confirmation Number:** 8192814469

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