



Atlantic Richfield Company
(a BP affiliated company)

6 Centerpointe Drive, Room 172
La Palma, CA 90623-1066
Phone: (714) 670-5303
Fax: (714) 670-5195

Atlantic Richfield Company
MAY 9 9 2005
Environmental Services

May 20, 2005

**Re: Second Quarter 2005 Groundwater Monitoring Report
Former BP Service Station #11102
100 MacArthur Boulevard
Oakland, California
ACEH Case # RO0000456**

I declare that, to the best of my knowledge at the present time, the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Kyle Christie
Environmental Business Manager



May 20, 2005

Mr. Robert Schultz
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-8577

RECEIVED
MAY 20 2005
Environmental Health

**Re: Second Quarter 2005 Groundwater Monitoring Report
Former BP Service Station #11102
100 MacArthur Boulevard
Oakland, California
ACEH Case # RO0000456**

Dear Mr. Schultz:

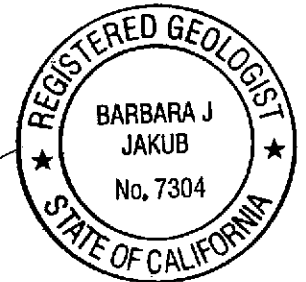
On behalf of the Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Second Quarter 2005 Groundwater Monitoring Report* for Former BP Service Station #11102, located at 100 MacArthur Boulevard, Oakland, California.

If you have any questions regarding this submission, please call (510) 874-1758.

Sincerely,
URS CORPORATION

Lynelle Onishi
Project Manager

Barbara J. Jakub, P.G.
Senior Geologist



Enclosure: Second Quarter 2005 Groundwater Monitoring Report

cc: Mr. Kyle Christie, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS
Ms. Liz Sewell, ConocoPhillips, electronic copy uploaded to URS ftp server
Mr. Chris Jimmerson, Delta Environmental Consultants, electronic copy uploaded to ENFOS

R E P O R T

**SECOND QUARTER 2005
GROUNDWATER MONITORING
REPORT**

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

Prepared for
RM

May 20, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

5/20/05
11:00 AM
11:00 AM

Date: May 20, 2005
Quarter: 2Q 05

RM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11102 Address: 100 MacArthur Boulevard, Oakland, CA
RM Environmental Business Manager: Kyle Christie
Consulting Co./Contact Person: URS Corporation/ Lynelle Onishi
Primary Agency: Alameda County Environmental Health (ACEH)
Primary Agency Case #: RO0000456

WORK PERFORMED THIS QUARTER (Second – 2005):

1. Performed second quarter 2005 groundwater monitoring event on April 13, 2005.
2. Prepared and submitted this second quarter 2005 groundwater monitoring report.
3. Prepared and submitted revised soil and water investigation work plan as requested by ACEH in a letter dated January 27, 2005.

WORK PROPOSED FOR NEXT QUARTER (Third – 2005):

1. Perform third quarter 2005 groundwater monitoring event.
2. Prepare and submit third this quarter 2005 groundwater monitoring report.

Current Phase of Project:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Wells MW-1 through MW-3 quarterly</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
Current Remediation Techniques:	<u>None</u>
Approximate Depth to Groundwater:	<u>10.00 (MW-1) to 14.34 (MW-3) feet</u>
Groundwater Gradient (direction):	<u>West-southwest</u>
Groundwater Gradient (magnitude):	<u>0.08 feet per foot</u>

DISCUSSION:

Gasoline range organics (GRO) and benzene were detected at or above the laboratory reporting limit in one of the three wells sampled this quarter (MW-1) at concentrations of 1,000 micrograms per liter ($\mu\text{g/L}$) and 27 $\mu\text{g/L}$, respectively. Total xylenes were detected at or above the laboratory reporting limit in one of the wells sampled at a concentration of 25 $\mu\text{g/L}$ (MW-1). Methyl tert-butyl ether (MTBE) was detected at or above the laboratory reporting limit in all three wells at concentrations ranging from 9.0 $\mu\text{g/L}$ (MW-3) to 5,300 $\mu\text{g/L}$ (MW-2). Tert-butyl alcohol (TBA) was detected at or above the laboratory reporting limit in two wells at concentrations of 1,400 $\mu\text{g/L}$ (MW-1) and 5,300 $\mu\text{g/L}$ (MW-2). Tert-amyl methyl ether (TAME) was detected at or above the laboratory reporting limit in one well at a concentration of 95 $\mu\text{g/L}$ (MW-2). No other fuel components analyzed were detected at or above their respective laboratory reporting limits in any of the wells sampled this quarter.

ATTACHMENTS:

- **Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – April 13, 2005**
- **Table 1 – Groundwater Elevation and Analytical Data**
- **Table 2 – Fuel Additives Analytical Data**
- **Attachment A – Field Procedures and Field Data Sheets**
- **Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records**
- **Attachment C – Error Check Reports and EDF/Geowell Submittal Confirmations**



HARRISON STREET


MACARTHUR BOULEVARD

INTERSTATE 580

OAKLAND AVENUE

EXPLANATION

-  Monitoring Well Location
-  -76.00 Groundwater elevation contour (ft/MSL)
- | Well |
|---------|
| ELEV |
| GRO |
| Benzene |
| MTBE |

 Well designation
Groundwater elevation (ft/MSL)
GRO, Benzene and MTBE concentrations (µg/L)
-  0.08 Groundwater flow direction and gradient (ft/ft)

MW-3
72.68
<50
<0.50
9.0

MW-1
80.20
1,000
27
48

MW-2
73.88
<5,000
<50
5,300

Station Building

former used oil tank

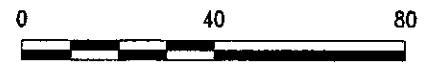
used oil tank

dispenser islands

tank pit



NORTH



SCALE IN FEET

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

May 20, 2005 - 1:47pm X:\x_enu\waste\BP_GEM_Sites\Nites\Sites\1102\Reports\Monitoring\2005 Qtr. 2\Drawings\1102-2005-GW.dwg



Project No. 38487244
Former BP Service Station #11102
100 MacArthur Boulevard
Oakland, California

**GROUNDWATER ELEVATION CONTOUR
AND ANALYTICAL SUMMARY MAP**
Second Quarter 2005 (April 13, 2005)

FIGURE
1

Table 1

Groundwater Elevation and Analytical Data

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

Well No.	Date	P/ NP	Foot Note	TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	DRO/ TPH-d (µg/L)	TOG (µg/L)	HVOC (µg/L)
MW-1	11/4/1989	--	--	90.20	13.21	--	76.99	<500	3.4	0.6	<0.3	<0.3	--	--	SAL	--	<50	<5000	--
	11/11/1989	--	--	90.20	13.32	--	76.88	--	--	--	--	--	--	--	--	--	--	--	--
	4/3/1990	--	--	90.20	12.46	--	77.74	820	64	1.9	23	34	--	--	ANA	--	--	--	--
	7/30/1990	--	--	90.20	12.92	--	77.28	190	11	<5.0	<5.0	<5.0	--	--	ANA	--	<50	<5000	--
	11/20/1990	--	--	90.20	14.08	--	76.12	50	2.4	<0.3	<0.3	<0.3	--	--	SAL	--	79	<5000	--
	3/1/1991	--	--	90.20	13.61	--	76.59	<100	0.9	<0.3	<0.3	0.3	--	--	SAL	--	<1000	14,000	--
	8/19/1991	--	--	90.20	15.74	--	74.46	370	35	0.73	6.4	5.6	--	--	SEQ	--	<50	<5000	--
	11/13/1991	--	--	90.20	14.08	--	76.12	60	0.68	<0.3	<0.3	<0.3	--	--	SEQ	--	<50	<5000	--
	2/24/1992	--	--	90.20	12.52	--	77.68	140	3.9	0.66	1.2	3.8	--	--	SEQ	--	100	<5000	--
	5/19/1992	--	--	90.20	11.80	--	78.40	4,200	440	21	250	37	--	--	SEQ	--	910	<5000	--
	6/17/1992	--	--	90.20	12.01	--	78.19	4,000	350	14	150	17	--	--	SEQ	--	560	<5000	--
	7/22/1992	--	--	90.20	12.42	--	77.78	4,000	<5.0	19	210	61	--	--	ANA	--	--	--	--
	8/14/1992	--	--	90.20	12.75	--	77.45	2,400	330	20	150	47	--	--	SEQ	--	1,700	<5000	--
	11/11/1992	--	--	90.20	13.69	--	76.51	260	30	3.4	7.6	6.8	--	--	ANA	--	92	<5000	--
	6/7/1993	--	c	90.20	--	--	--	3,700	120	12	26	9.5	--	--	PACE	--	--	--	--
	6/7/1993	--	--	90.20	10.93	--	79.27	3,400	98	11	21	7.6	--	--	PACE	--	440	--	--
	12/2/1993	--	--	90.20	12.72	--	77.48	1,100	8.3	3.6	0.6	1.5	--	--	PACE	--	120	<5000	--
	6/22/1994	--	c	90.20	--	--	--	2,100	30	3.2	2	15	2,000 d	--	PACE	--	--	--	--
	6/22/1994	--	--	90.20	11.81	--	78.39	2,100	32	3.8	2.2	17	4,000 d	3.2	PACE	--	<50	<5000	--
	1/10/1995	--	c	90.20	--	--	--	<500	120	<5	5	<10	--	--	ATI	--	--	--	--
	1/10/1995	--	--	90.20	10.97	--	79.23	<500	120	<5	<5	<10	--	3.9	ATI	--	420	--	--
	6/21/1995	--	c,e	90.20	--	--	--	3,600	<13	<5.0	<5.0	<10	--	--	ATI	--	--	--	--
	6/21/1995	--	--	90.20	9.38	--	80.82	4,700	16	<5.0	<5.0	<10	--	6.7	ATI	--	1,300	2,900	0.6
	12/27/1995	--	--	90.20	11.55	--	78.65	430	<2.5	<2.5	<2.5	<5.0	1,200	6.3	ATI	--	2,100	640	--
	6/13/1996	--	--	90.20	9.28	--	80.92	3,200	51	<12	<12	<12	4,000	6.3	SPL	--	920	2,000	--
	12/4/1996	--	f	90.20	11.91	--	78.29	1,400	6.2	<5	<5	<5	2,600	6.7	SPL	--	280	2,000	6
	6/10/1997	--	c	90.20	--	--	--	7,700	14	<25	<25	<25	13,000	--	SPL	--	--	--	--
	6/10/1997	--	--	90.20	8.97	--	81.23	7,900	12	<10	<10	<10	15,000	6	SPL	--	1,700	<5	ND
	12/12/1997	--	--	90.20	11.37	--	78.83	440	8.8	<1.0	2.6	9.4	6,700	5.5	SPL	--	760	1,200	ND
	6/18/1998	--	--	90.20	8.02	--	82.18	7,500	<2.5	<5.0	<5.0	<5.0	5,600	4.9	SPL	--	2,900	<5	ND
	3/9/1999	--	--	90.20	9.80	--	80.40	32,000	100	16	72	110	49,000	--	SPL	--	--	--	--
	9/28/1999	--	--	90.20	10.78	--	79.42	1,000	<5.0	<5.0	<5.0	<5.0	730	--	SPL	--	--	--	<1.0
	10/14/1999	--	--	90.20	10.84	--	79.36	--	--	--	--	--	--	--	SPL	--	660	--	--
	3/27/2000	--	--	90.20	9.83	--	80.37	4,300	160	19	37	43	28,000	--	PACE	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

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

Well No.	Date	P/ NP	Foot Note	TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	DRO/TPH-d (µg/L)	TOG (µg/L)	HVOC (µg/L)	
MW-1	9/28/2000	--	--	90.20	11.33	--	78.87	2,700	10	2.6	1.1	2.7	28,000	--	PACE	--	--	--	--	
	3/8/2001	--	--	90.20	10.96	--	79.24	8,200	23.5	6.09	5.23	8.97	11,600	--	PACE	--	--	--	--	
	9/21/2001	--	--	90.20	12.07	--	78.13	6,000	37.9	<0.5	<0.5	<1.5	7,370	--	PACE	--	--	--	--	
	2/28/2002	--	--	90.20	10.48	--	79.72	6,400	60.8	<5.0	6.43	<10	7,750	--	PACE	--	--	--	--	
	9/6/2002	--	--	90.20	11.20	--	79.00	1,400	<5.0	<5.0	<5.0	<5.0	6,000	--	SEQ	--	--	--	--	
	2/19/2003	--	h	90.20	11.29	--	78.91	<10000	<100	110	<100	<100	4,500	--	SEQ	--	--	--	--	
	7/14/2003	--	--	90.20	11.18	--	79.02	710	11	<10	<10	<10	940	--	SEQ	--	--	--	--	
	01/14/2004	--	--	90.20	11.74	--	78.46	<500	<5.0	<5.0	<5.0	<5.0	220	--	SEQM	6.6	--	--	--	
	04/23/2004	P	l	90.20	11.95	--	78.25	470	3.4	<2.5	<2.5	<2.5	150	--	SEQM	6.7	--	--	--	
	07/01/2004	P	--	90.20	11.52	--	78.68	360	<2.5	<2.5	<2.5	<2.5	96	--	SEQM	6.0	--	--	--	
	10/28/2004	P	--	90.20	12.56	--	77.64	390	0.94	<0.50	<0.50	<0.50	43	--	SEQM	6.2	--	--	--	
	01/10/2005	P	--	90.20	11.85	--	78.35	490	17	<2.5	5.8	5.4	85	--	SEQM	7.6	--	--	--	
	04/13/2005	P	--	90.20	10.00	--	80.20	1,000	27	<2.5	<2.5	25	48	--	SEQM	6.6	--	--	--	
	MW-2	11/4/1989	--	--	87.91	15.84	--	72.07	<500	6.5	<0.3	<0.3	<0.3	--	--	SAL	--	--	--	--
		11/11/1989	--	--	87.91	14.75	--	73.16	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1990		--	--	87.91	15.25	--	72.66	<500	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--	
7/30/1990		--	--	87.91	15.59	--	72.32	61	6.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--	
11/20/1990		--	--	87.91	17.81	--	70.10	<50	0.3	<0.3	<0.3	<0.3	--	--	SAL	--	--	--	--	
3/1/1991		--	--	87.91	17.11	--	70.80	<100	0.4	<0.3	<0.3	<0.3	--	--	SAL	--	--	--	--	
8/19/1991		--	--	87.91	17.97	--	69.94	<30	<0.3	<0.3	<0.3	<0.3	--	--	SEQ	--	--	--	--	
11/13/1991		--	--	87.91	16.76	--	71.15	38	0.32	<0.3	<0.3	<0.3	--	--	SEQ	--	--	--	--	
2/24/1992		--	--	87.91	15.07	--	72.84	<50	<0.5	<0.5	<0.5	0.58	--	--	SEQ	--	--	--	--	
5/19/1992		--	--	87.91	14.70	--	73.21	<50	0.55	<0.5	<0.5	<0.5	--	--	SEQ	--	--	--	--	
7/22/1992		--	--	87.91	15.60	--	72.31	90	1.3	0.6	0.9	1.9	--	--	ANA	--	--	--	--	
8/14/1992		--	--	87.91	15.88	--	72.03	--	--	--	--	--	--	--	--	--	--	--	--	
11/11/1992		--	c	87.91	--	--	--	65	3.2	<0.5	<0.5	1	--	--	ANA	--	--	--	--	
11/11/1992		--	--	87.91	16.19	--	71.72	52	2.8	<0.5	<0.5	0.9	--	--	ANA	--	--	--	--	
6/7/1993		--	--	87.91	14.42	--	73.49	1,200	14	2.8	1.9	1.71	--	--	PACE	--	--	--	--	
12/2/1993		--	c	87.91	--	--	--	2,100	32	3.8	2.2	17	3,700 d	--	PACE	--	--	--	--	
12/2/1993		--	--	87.91	14.94	--	72.97	790	3.4	0.5	10	<0.5	3,700 d	--	PACE	--	--	--	--	
6/22/1994		--	--	87.91	14.25	--	73.66	110	<0.5	<0.5	<0.5	<0.5	120 d	3.9	PACE	--	--	--	--	
1/10/1995	--	--	87.91	13.64	--	74.27	<50	<0.5	<0.5	0.6	1	--	4.3	ATI	--	--	--	--		
6/21/1995	--	--	87.91	11.66	--	76.25	4,700	<10	<10	<10	<20	--	7.8	ATI	--	--	--	--		

Table 1

Groundwater Elevation and Analytical Data

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

Well No.	Date	P/ NP	Foot Note	TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	DRO/ TPH-d (µg/L)	TOG (µg/L)	HVOC (µg/L)
MW-2	12/27/1995	--	c	87.91	--	--	--	6,300	<25	<25	<25	<50	19,000	--	ATI	--	--	--	--
	12/27/1995	--	--	87.91	13.11	--	74.80	6,100	<25	<25	<25	<50	20,000	6.7	ATI	--	--	--	--
	6/13/1996	--	c	87.91	--	--	--	8,700	<5	<5	<5	<5	13,000	--	SPL	--	--	--	--
	6/13/1996	--	--	87.91	10.86	--	77.05	8,300	<2.5	<2.5	<2.5	<2.5	13,000	6.5	SPL	--	--	--	--
	12/4/1996	--	c	87.91	--	--	--	5,900	<2.5	<5	<5	<5	11,000	--	SPL	--	--	--	--
	12/4/1996	--	--	87.91	13.03	--	74.88	5,900	<2.5	<5	<5	<5	11,000	6.3	SPL	--	--	--	--
	6/10/1997	--	--	87.91	10.04	--	77.87	<50	<0.5	<1.0	<1.0	<1.0	<10	5.8	SPL	--	--	--	--
	12/12/1997	--	--	87.91	12.44	--	75.47	<50	<0.5	<1.0	<1.0	<1.0	<10	5.7	SPL	--	--	--	--
	6/18/1998	--	c	87.91	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	--	--	--
	6/18/1998	--	--	87.91	8.89	--	79.02	50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	--	--	--
	3/9/1999	--	--	87.91	10.20	--	77.71	15,000	<5.0	<5.0	<5.0	<5.0	23,000	--	SPL	--	--	--	--
	9/28/1999	--	--	87.91	11.81	--	76.10	36,000	<5.0	12	7	26	35,000	--	SPL	--	--	--	<5.0
	10/14/1999	--	--	87.91	10.27	--	77.64	--	--	--	--	--	--	--	SPL	--	100	--	--
	3/27/2000	--	--	87.91	9.98	--	77.93	1,300	<0.5	<0.5	0.51	<0.5	5,800	--	PACE	--	--	--	--
	9/28/2000	--	--	87.91	11.40	--	76.51	1,600	1.8	1.7	0.54	2.2	15,000	--	PACE	--	--	--	--
	3/8/2001	--	--	87.91	11.16	--	76.75	20,000	<0.5	<0.5	<0.5	<0.5	29,100	--	PACE	--	--	--	--
	9/21/2001	--	--	87.91	11.65	--	76.26	5,000	<0.5	<0.5	<0.5	<1.5	6,110	--	PACE	--	--	--	--
	2/28/2002	--	--	87.91	9.86	--	78.05	3,200	35.1	<0.5	<0.5	<1.0	4,620	--	PACE	--	--	--	--
	9/6/2002	--	--	87.91	12.32	--	75.59	1,900	<10	<10	<10	<10	15,000	--	SEQ	--	--	--	--
	2/19/2003	--	h	87.91	11.63	--	76.28	45,000	<250	<250	<250	<250	32,000	--	SEQ	--	--	--	--
	7/14/2003	--	--	87.91	12.07	--	75.84	9,300	<500	<500	<500	<500	24,000	--	SEQ	--	--	--	--
	01/14/2004	P	--	87.91	11.45	--	76.46	<50,000	<500	<500	<500	<500	21,000	--	SEQM	6.9	--	--	--
	04/23/2004	P	--	87.91	11.45	--	76.46	5,100	<250	<250	<250	<250	22,000	--	SEQM	6.8	--	--	--
	07/01/2004	P	--	87.91	12.32	--	75.59	<5,000	<50	<50	<50	<50	5,200	--	SEQM	5.6	--	--	--
	10/28/2004	P	--	87.91	13.02	--	74.89	8,500	<50	<50	<50	<50	6,800	--	SEQM	6.2	--	--	--
	01/10/2005	P	--	87.91	14.38	--	73.53	<25,000	<250	<250	<250	<250	7,100	--	SEQM	7.6	--	--	--
	04/13/2005	P	--	87.91	14.03	--	73.88	<5,000	<50	<50	<50	<50	5,300	--	SEQM	6.6	--	--	--
MW-3	11/4/1989	--	--	87.02	15.40	--	71.62	<500	<0.3	<0.3	<0.3	<0.3	--	--	SAL	--	--	--	--
	11/11/1989	--	--	87.02	14.10	--	72.92	--	--	--	--	--	--	--	--	--	--	--	--
	4/3/1990	--	--	87.02	13.90	--	73.12	<100	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
	7/30/1990	--	--	87.02	13.77	--	73.25	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	<5000	--
	11/20/1990	--	--	87.02	14.67	--	72.35	<50	0.3	0.8	0.4	1.5	--	--	SAL	--	--	--	--
	3/1/1991	--	--	87.02	15.22	--	71.80	<100	0.4	<0.3	<0.3	<0.3	--	--	SAL	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

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

Well No.	Date	P/ NP	Foot Note	TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	DRO/ TPH-d (µg/L)	TOG (µg/L)	HVOC (µg/L)
MW-3	8/19/1991	--	--	87.02	13.15	--	73.87	<30	<0.3	<0.3	<0.3	<0.3	--	--	SEQ	--	--	--	--
	11/13/1991	--	--	87.02	15.66	--	71.36	<30	<0.3	<0.3	<0.3	<0.3	--	--	SEQ	--	--	--	--
	2/24/1992	--	--	87.02	15.01	--	72.01	<50	0.65	1.4	0.66	4.4	--	--	SEQ	--	--	--	--
	5/19/1992	--	--	87.02	15.52	--	71.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	SEQ	--	--	--	--
	7/22/1992	--	--	87.02	15.63	--	71.39	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	<50	<5000	--
	8/14/1992	--	--	87.02	13.57	--	73.45	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1992	--	--	87.02	14.13	--	72.89	<50	<0.5	0.7	<0.5	1.3	--	--	ANA	--	--	--	--
	6/7/1993	--	--	87.02	12.13	--	74.89	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
	12/2/1993	--	--	87.02	13.29	--	73.73	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
	6/22/1994	--	--	87.02	12.78	--	74.24	<50	<0.5	<0.5	<0.5	<0.5	--	2.9	PACE	--	--	--	--
	1/10/1995	--	--	87.02	12.01	--	75.01	<50	<0.5	<0.5	<0.5	<1	--	3.8	ATI	--	--	--	--
	6/21/1995	--	--	87.02	11.57	--	75.45	<50	<0.50	<0.50	<0.50	<1.0	--	7.4	ATI	--	--	--	--
	12/27/1995	--	--	87.02	13.47	--	73.55	<50	<0.50	<0.50	<0.50	<1.0	5.7	7.3	ATI	--	--	--	--
	6/13/1996	--	--	87.02	11.22	--	75.80	60	<0.5	<0.5	<0.5	<0.5	<10	6.8	SPL	--	--	--	--
	12/4/1996	--	--	87.02	13.28	--	73.74	<50	<0.5	<1	<1	<1	<10	6.7	SPL	--	--	--	--
	6/10/1997	--	--	87.02	10.22	--	76.80	<50	<0.5	<1.0	<1.0	<1.0	<10	6.1	SPL	--	--	--	--
	12/12/1997	--	c	87.02	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	--	--	--
	12/12/1997	--	--	87.02	12.61	--	74.41	<50	<0.5	<1.0	<1.0	<1.0	<10	5.6	SPL	--	--	--	--
	6/18/1998	--	--	87.02	12.80	--	74.22	--	--	--	--	--	--	--	--	--	--	--	--
	6/18/1998	--	--	87.02	9.07	--	77.95	50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	--	--	--
	9/28/1999	--	--	87.02	13.76	--	73.26	--	--	--	--	--	--	--	--	--	--	--	--
	3/27/2000	--	--	87.02	13.77	--	73.25	<50	<0.5	<0.5	<0.5	<0.5	1.6	--	PACE	--	--	--	--
	9/28/2000	--	--	87.02	11.28	--	75.74	<50	<0.5	7.4	<0.5	1.3	2	--	PACE	--	--	--	--
	3/8/2001	--	--	87.02	11.75	--	75.27	<50	<0.5	<0.5	<0.5	<0.5	60.4	--	PACE	--	--	--	--
	9/21/2001	--	--	87.02	11.33	--	75.69	<50	<0.5	<0.5	<0.5	<1.5	8.18	--	PACE	--	--	--	--
	2/28/2002	--	--	87.02	10.86	--	76.16	<50	<0.5	<0.5	<0.5	<1.0	25.5	--	PACE	--	--	--	--
	9/6/2002	--	--	87.02	12.73	--	74.29	<50	1.2	<0.5	<0.5	1	16	--	SEQ	--	--	--	--
	2/19/2003	--	h	87.02	11.72	--	75.30	<500	<5.0	<5.0	<5.0	<5.0	110	--	SEQ	--	--	--	--
	7/14/2003	--	--	87.02	13.76	--	73.26	<50	<0.50	<0.50	<0.50	0.67	28	--	SEQ	--	--	--	--
	01/14/2004	P	--	87.02	14.83	--	72.19	550	<5.0	<5.0	<5.0	<5.0	380	--	SEQM	8.1	--	--	--
	04/23/2004	P	--	87.02	13.17	--	73.85	<200 l	<25	<25	<25	<25	560	--	SEQM	6.8	--	--	--
	07/01/2004	P	--	87.02	15.19	--	71.83	<50	<0.50	<0.50	<0.50	0.50	48	--	SEQM	6.4	--	--	--
	10/28/2004	P	--	87.02	15.50	--	71.52	<500	<5.0	<5.0	<5.0	<5.0	290	--	SEQM	6.3	--	--	--
	01/10/2005	P	--	87.02	15.00	--	72.02	<50	<0.50	<0.50	<0.50	<0.50	18	--	SEQM	7.6	--	--	--

Table 1

Groundwater Elevation and Analytical Data

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

Well No.	Date	P/ NP	Foot Note	TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	DRO/ TPH-d (µg/L)	TOG (µg/L)	HVOC (µg/L)
MW-3	04/13/2005	P	--	87.02	14.34	--	72.68	<50	<0.50	<0.50	<0.50	<0.50	9.0	--	SEQM	7.1	--	--	--
QC-2	11/11/1992	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	---	---
	6/7/1993	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	---	---
	12/2/1993	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	---	---
	6/22/1994	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	---	---
	1/10/1995	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	ATI	--	--	---	---
	6/21/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	--	---	---
	12/27/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	---	---
	6/13/1996	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<10	--	SPL	--	--	---	---

Table 1

Groundwater Elevation and Analytical Data

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

ABBREVIATIONS & SYMBOLS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
DO = Dissolved oxygen
DRO = Diesel Range Organics
DTW = Depth to water in feet below ground surface
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline Range Organics, range C4-C12
GWE = Groundwater elevation measured in feet above mean sea level
HVOC = Halogenated volatile organic compounds
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in feet above mean sea level
TOG = Total oil and grease
TPH-d = Total petroleum hydrocarbons as diesel
TPH-g = Total petroleum hydrocarbons as gasoline
ug/L = Micrograms per liter
ANA = Anametrix, Inc.
PACE = Pace, Inc.
ATI = Analytical Technologies, Inc.
CEI = Celmic Corporation
SAL = Superior Analytical Laboratory
SPL = Southern Petroleum Laboratories
SEQ/SEQM = Sequoia Analytical/Sequoia Morgan Hill Laboratories

FOOTNOTES:

a = Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.
b = Groundwater elevations in feet above mean sea level.
c = Blind duplicate.
d = A copy of the documentation for this data is included in Alisto report 10-076-06-002.
e = Tetrachloroethene.
f = Trans-1,2-Dichloroethene
g = Travel blank.
h = TPH-g, BTEX, and MTBE analyzed by EPA Method 8260B beginning on 1st Quarter Sampling event (2/19/03)
i = Discrete peak @ C6-C7.
l = GRO analyzed by EPA Method 8015B.

NOTES:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPHg has been changed to GRO. The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.
Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12
pH and dissolved oxygen are field measurements.
The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Table 2

Fuel Additives Analytical Data
 Former BP Station #11102
 100 MacArthur Blvd., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Footnotes/ Comments
MW-1	7/14/2003	<2000	2,700	940	<20	<20	<20	--	--	
	01/14/2004	<1,000	2,500	220	<5.0	<5.0	<5.0	<5.0	<5.0	
	04/23/2004	<500	2,500	150	<2.5	<2.5	<2.5	<2.5	<2.5	
	07/01/2004	<500	2,000	96	<2.5	<2.5	<2.5	<2.5	<2.5	
	10/28/2004	<5.0	1,500	43	<0.50	<0.50	0.58	<0.50	<0.50	
	01/10/2005	<500	1,900	85	<2.5	<2.5	<2.5	<2.5	<2.5	
	04/13/2005	<500	1,400	48	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-2	7/14/2003	<100000	<20000	24,000	<1000	<1000	<1000	--	--	
	01/14/2004	<100,000	<20,000	21,000	<500	<500	<500	<500	<500	
	04/23/2004	<50,000	11,000	22,000	<250	<250	420	<250	<250	
	07/01/2004	<10,000	2,900	5,200	<50	<50	110	<50	<50	
	10/28/2004	<5.0	6,700	6,800	<50	<50	120	<50	<50	
	01/10/2005	<50,000	<10,000	7,100	<250	<250	<250	<250	<250	
	04/13/2005	<10,000	5,300	5,300	<50	<50	95	<50	<50	
MW-3	7/14/2003	<100	<20	28	<1.0	<1.0	<1.0	--	--	
	01/14/2004	<1,000	<200	380	<5.0	<5.0	<5.0	<5.0	<5.0	
	04/23/2004	<5,000	<1,000	560	<25	<25	<25	<25	<25	
	07/01/2004	<100	<20	48	<0.50	<0.50	0.52	<0.50	<0.50	
	10/28/2004	<5.0	<200	290	<5.0	<5.0	<5.0	<5.0	<5.0	
	01/10/2005	<100	<20	18	<0.50	<0.50	<0.50	<0.50	<0.50	
	04/13/2005	<100	<20	9.0	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

Fuel Additives Analytical Data

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

SYMBOLS & ABBREVIATIONS:

– = Not analyzed/applicable/measured/available

< = Not detected at or above the laboratory reporting limit.

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

ug/L = Micrograms per Liter

NOTES:

All volatile organic compounds (Ethanol, TBA, MTBE, DIPE, ETBE, and TAME) analyzed using EPA Method 8260B.

ATTACHMENT A
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.

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050413-DAS</u>	Station # <u>BP 1102</u>
Sampler: <u>DA</u>	Date: <u>4/13/05</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>31.80</u>	Depth to Water: <u>10.00</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	<u>4"</u>	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
 Positive Air Displacement 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>14.2</u>	x	<u>3</u>	=	<u>42.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1100	64.1	6.5	656	14.5	clear
1102	64.0	6.6	756	29	"
1105	65.3	6.6	776	43	"

Did well dewater? Yes No Gallons actually evacuated: 43

Sampling Time: 1108 Sampling Date: 4/13/05

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

Analyzed for: GRO BTEX MTBE DRO Other: see vol

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>050413-DA3</u>	Station # <u>BP 1102</u>
Sampler: <u>DA</u>	Date: <u>4/13/05</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>32.13</u>	Depth to Water: <u>14.03</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: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input 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>11.8</u>	x	<u>3</u>	=	<u>35.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1135	67.4	6.8	736	12	clear
1138	67.8	6.5	732	24	well dewatered @ 24g
1140	68.3	6.6	1901	35.5	DNW = 29.21 @ site departure

Did well dewater? Yes No Gallons actually evacuated: ~~35.5~~ 24

Sampling Time: 1143 Sampling Date: 4/13/05

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

Analyzed for: ~~GRO BTEX MTBE~~ DRO Other: see ca

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 #: 050413-DA3	Station # BP 1102
Sampler: DA	Date: 4/13/05
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 32.35	Depth to Water: 14.34
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	<u>4</u> "	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

Positive Air Displacement 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>11.7</u>	x	<u>3</u>	=	<u>35.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1120	64.6	7.0	735	12	clear
1122	66.2	7.1	726	24	"
1124	67.0	7.1	731	35.5	"

Did well dewater? Yes No Gallons actually evacuated: 35.5

Sampling Time: 1124 Sampling Date: 4/13/05

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

Analyzed for: GRO BTEX MTBE DRO Other: see voc

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

BP GEM OIL COMPANY TYPE A BILL OF LADING

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

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

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

BP 11102

Station #

100 Macarthur Blvd. Oakland, CA

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

102.5

added equip.

rinse water 5

any other

adjustments _____

TOTAL GALS.

RECOVERED 107.5

loaded onto

BTS vehicle # 49

BTS event #

050713-DA1

time

1200

date

4/13/05

signature

David Alibut

REC'D AT

time

date

unloaded by

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 RM have been reviewed and verified by that laboratory.



2 May, 2005

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

RE: BP Heritage #11102, Oakland, CA
Work Order: MOD0357

Enclosed are the results of analyses for samples received by the laboratory on 04/14/05 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello For 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:G07T9-0020
 Project Manager:Lynelle Onishi

 MOD0357
 Reported:
 05/02/05 13:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOD0357-01	Water	04/13/05 11:08	04/14/05 15:00
MW-2	MOD0357-02	Water	04/13/05 11:43	04/14/05 15:00
MW-3	MOD0357-03	Water	04/13/05 11:27	04/14/05 15:00
TB-1110204132005	MOD0357-04	Water	04/13/05 00:00	04/14/05 15:00

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 no custody seals.

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

 Project:BP Heritage #11102, Oakland, CA
 Project Number:G07T9-0020
 Project Manager:Lynelle Onishi

 MOD0357
 Reported:
 05/02/05 13:41

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOD0357-01) Water Sampled: 04/13/05 11:08 Received: 04/14/05 15:00									
tert-Amyl methyl ether	ND	2.5	ug/l	5	5D22002	04/22/05	04/22/05	EPA 8260B	
Benzene	27	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	1400	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	48	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	25	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	1000	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>94 %</i>	<i>60-135</i>		"	"	"	"	
MW-2 (MOD0357-02) Water Sampled: 04/13/05 11:43 Received: 04/14/05 15:00									
tert-Amyl methyl ether	95	50	ug/l	100	5D22002	04/22/05	04/22/05	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
tert-Butyl alcohol	5300	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
Ethanol	ND	10000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	5300	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	5000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>91 %</i>	<i>60-135</i>		"	"	"	"	

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

Project:BP Heritage #11102, Oakland, CA
Project Number:G07T9-0020
Project Manager:Lynelle Onishi

MOD0357
Reported:
05/02/05 13:41

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MOD0357-03) Water Sampled: 04/13/05 11:27 Received: 04/14/05 15:00									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5D22002	04/22/05	04/22/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	9.0	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		90 %		60-135	"	"	"	"	

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

Project:BP Heritage #11102, Oakland, CA
Project Number:G07T9-0020
Project Manager:Lynelle Onishi

MOD0357
Reported:
05/02/05 13:41

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5D22002 - EPA 5030B P/T / EPA 8260B
Blank (5D22002-BLK1)

Prepared & Analyzed: 04/22/05

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.26		"	2.50		90	60-135			

Laboratory Control Sample (5D22002-BS1)

Prepared & Analyzed: 04/22/05

tert-Amyl methyl ether	11.2	0.50	ug/l	10.0		112	80-115			
Benzene	10.3	0.50	"	10.0		103	65-115			
tert-Butyl alcohol	63.5	20	"	50.0		127	75-150			
Di-isopropyl ether	10.6	0.50	"	10.0		106	75-125			
1,2-Dibromoethane (EDB)	9.38	0.50	"	10.0		94	85-120			
1,2-Dichloroethane	10.3	0.50	"	10.0		103	85-130			
Ethanol	246	100	"	200		123	70-135			
Ethyl tert-butyl ether	10.6	0.50	"	10.0		106	75-130			
Ethylbenzene	10.8	0.50	"	10.0		108	75-135			
Methyl tert-butyl ether	11.1	0.50	"	10.0		111	65-125			
Toluene	10.4	0.50	"	10.0		104	85-120			
Xylenes (total)	32.7	0.50	"	30.0		109	85-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.24		"	2.50		90	60-135			

Sequoia Analytical - Morgan Hill

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

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

 Project:BP Heritage #11102, Oakland, CA
 Project Number:G07T9-0020
 Project Manager:Lynelle Onishi

 MOD0357
 Reported:
 05/02/05 13:41

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5D22002 - EPA 5030B P/T / EPA 8260B
Laboratory Control Sample (5D22002-BS2)

Prepared & Analyzed: 04/22/05

Benzene	5.64	0.50	ug/l	6.40		88	65-115			
Ethylbenzene	8.24	0.50	"	7.52		110	75-135			
Methyl tert-butyl ether	9.42	0.50	"	9.92		95	65-125			
Toluene	32.8	0.50	"	31.9		103	85-120			
Xylenes (total)	40.3	0.50	"	36.6		110	85-125			
Gasoline Range Organics (C4-C12)	414	50	"	440		94	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.30		"	2.50		92	60-135			

Laboratory Control Sample Dup (5D22002-BSD1)

Prepared & Analyzed: 04/22/05

tert-Amyl methyl ether	10.4	0.50	ug/l	10.0		104	80-115	7	15	
Benzene	10.1	0.50	"	10.0		101	65-115	2	20	
tert-Butyl alcohol	67.2	20	"	50.0		134	75-150	6	25	
Di-isopropyl ether	10.2	0.50	"	10.0		102	75-125	4	15	
1,2-Dibromoethane (EDB)	8.78	0.50	"	10.0		88	85-120	7	15	
1,2-Dichloroethane	9.84	0.50	"	10.0		98	85-130	5	20	
Ethanol	300	100	"	200		150	70-135	20	35	BA
Ethyl tert-butyl ether	10.1	0.50	"	10.0		101	75-130	5	25	
Ethylbenzene	10.3	0.50	"	10.0		103	75-135	5	15	
Methyl tert-butyl ether	10.4	0.50	"	10.0		104	65-125	7	20	
Toluene	10.2	0.50	"	10.0		102	85-120	2	20	
Xylenes (total)	31.5	0.50	"	30.0		105	85-125	4	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.25		"	2.50		90	60-135			

Matrix Spike (5D22002-MS1)

Source: MOD0365-04

Prepared & Analyzed: 04/22/05

Benzene	1380	25	ug/l	320	1100	88	65-115			
Ethylbenzene	1370	25	"	376	970	106	75-135			
Toluene	1920	25	"	1600	290	102	85-120			
Xylenes (total)	5570	25	"	1830	3600	108	85-125			
Gasoline Range Organics (C4-C12)	39900	2500	"	22000	19000	95	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.31		"	2.50		92	60-135			

Sequoia Analytical - Morgan Hill

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

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

Project:BP Heritage #11102, Oakland, CA
Project Number:G07T9-0020
Project Manager:Lynelle Onishi

MOD0357
Reported:
05/02/05 13:41

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 5D22002 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (5D22002-MSD1)	Source: MOD0365-04			Prepared & Analyzed: 04/22/05						
Benzene	1310	25	ug/l	320	1100	66	65-115	5	20	
Ethylbenzene	1330	25	"	376	970	96	75-135	3	15	
Toluene	1860	25	"	1600	290	98	85-120	3	20	
Xylenes (total)	5420	25	"	1830	3600	99	85-125	3	20	
Gasoline Range Organics (C4-C12)	38600	2500	"	22000	19000	89	70-124	3	20	
Surrogate: 1,2-Dichloroethane-d4	2.17		"	2.50		87	60-135			

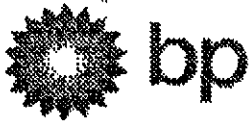
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project:BP Heritage #11102, Oakland, CA
Project Number:G07T9-0020
Project Manager:Lynelle Onishi

MOD0357
Reported:
05/02/05 13:41

Notes and Definitions

BA Relative percent difference out of control
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Chain of Custody Record

Project Name: Analytical for QMR sampling
 BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 11102 > Historical/BL
 State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fr
 Requested Due Date (mm/dd/yy): 10 Day TAT

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

MD06357

Lab Name: Sequoia	BP/AR Facility No.: 11102	Consultant/Contractor: URS
Address: 885 Jarvis Drive Morgan Hill, CA 95037	BP/AR Facility Address: 100 MacArthur Blvd., Oakland, CA 94610	Address: 1333 Broadway, Suite 800 Oakland, CA 94612
Lab PM: Lisa Race	California Global ID No.: T0600100908	Consultant/Contractor Project No.: 38487119
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G07T9-0020	Consultant/Contractor PM: Lynelle Onishi
BP/AR PM Contact: Kyle Christie	Provision or RCOP: Provision	Tele/Fax: 510.874.1758 / 510.874.3268
Address: 4 Centerpointe Dr. La Palma, CA 90623	Phase/WBS: 04 - Mon/Remed by Natural Attenuation	Report Type & QC Level: Level 1 with BDF
Tele/Fax: (714) 670-5303 / (714) 670-5195	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Rachel.Lindvall@urscorp.com
Lab Bottle Order No: 11102	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative				Requested Analysis						Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CEO/BTEX (8260)	MIBX/TAME/ETBE (8260)	DPE/TEA (8260)	DOB, 1,2-DCA (8260)	Stannol (8260)		
1	MW-1	1108	4/13/05	✓			01	3												
2	MW-2	1143	↓	✓			02	↓												
3	MW-3	1127	↓	✓			03	↓												
4	TB-11102-04132005	-	4/13/05	✓			04	2												AM HOLD
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>David Almont</u>	Relinquished By / Affiliation: <u>David Almont / BTS</u>	Date: <u>4/13/05</u>	Time: <u>1410</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>4/13/05</u>	Time: <u>1500</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: _____

Custody Seals In Place Yes + No _____ Temp Blank Yes ✓ No _____ Cooler Temperature on Receipt 5.8°F/C Trip Blank Yes ✓ No _____

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP 11102
 REC. BY (PRINT): JJ
 WORKORDER: M00357

DATE REC'D AT LAB: 4/14/05
 TIME REC'D AT LAB: 1500
 DATE LOGGED IN: 4/17/05

For Regulatory Purposes?
 DRINKING WATER YES/NO NO
 WASTE WATER YES/NO NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	PH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="checkbox"/> Absent Intact / Broken*	01	A-C	MW-1	Vof (3)	HCl	-	W	4/14/05	[Large diagonal line with handwritten signature and date 4/14/05]
2. Chain-of-Custody Present / <input checked="" type="checkbox"/> Absent*	02	A-C	MW-2	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="checkbox"/> Absent	03	A-C	MW-3	↓	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent	04	A, B	TB-11102-04B 2005	↓ (2)	↓	↓	↓	↓	
5. Airbill #:									
6. Sample Labels: Present / Absent									
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper Preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*									
14. Temp Rec. at Lab: Is temp 4 +/- 2°C? Yes / No**									

(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

**ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL
CONFIRMATIONS**

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

SUCCESSFUL GEO_WELL CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	5/3/2005 11:55:09 AM

Processing is complete. No errors were found!
You may now proceed to the [upload page](#).

[Back to Main Menu](#)

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

UPLOADING A GEO_WELL FILE

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

**Submittal Title: 2Q 2005 QMR Geo_Well Site
11102**

Submittal Date/Time: 5/3/2005 11:58:06 AM

**Confirmation
Number: 8317686319**

[Back to Main Menu](#)

Logged in as URSCORP-OAKLAND
(CONTRACTOR)

[CONTACT SITE ADMINISTRATOR.](#)

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	5/3/2005 11:56:52 AM
<u>GLOBAL ID:</u>	T0600100908
<u>FILE UPLOADED:</u>	BP#11102-EDF-MOD0357.zip

No errors were found in your EDF upload file.

If you want to submit this file to the SWRCB, choose the "Upload EDD" option in the above menu and follow the instructions.

When you complete the submittal process, you will be given a confirmation number for your submittal.

[Click here to view the detections report for this upload.](#)

BP 100 MACARTHUR BLVD OAKLAND, CA 94610	<u>Regional Board - Case #: 01-0985</u> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <u>Local Agency (lead agency) - Case #: 1108</u> ALAMEDA COUNTY LOP - (RWS)
---	---

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y

- SURROGATE SPIKE		Y
<u>WATER SAMPLES FOR 8021/8260 SERIES</u>		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%		Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%		Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%		Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%		N
<u>SOIL SAMPLES FOR 8021/8260 SERIES</u>		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%		n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%		n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%		n/a
<u>FIELD QC SAMPLES</u>		
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 1342402756
Date/Time of Submittal: 5/3/2005 12:00:16 PM
Facility Global ID: T0600100908
Facility Name: BP
Submittal Title: 2Q 2005 QMR EDF Site 11102
Submittal Type: GW Monitoring Report

Click [here](#) to view the detections report for this upload.

BP 100 MACARTHUR BLVD OAKLAND, CA 94610	<u>Regional Board - Case #: 01-0985</u> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <u>Local Agency (lead agency) - Case #: 1108</u> ALAMEDA COUNTY LOP - (RWS)
---	--

CONF #	TITLE	QUARTER
1342402756	2Q 2005 QMR EDF Site 11102	Q2 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	5/3/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
---	---

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y	
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y	
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	N	
SOIL SAMPLES FOR 8021/8260 SERIES		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a	
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a	
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a	
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a	
FIELD QC SAMPLES		
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD L</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.