



Atlantic Richfield Company  
(a BP affiliated company)

P.O. Box 6549  
Moraga, California 94570  
Phone: (925) 299-8891  
Fax: (925) 299-8872



**RECEIVED**

*By loppjectop at 10:57 am, Apr 17, 2006*

April 12, 2006

Re: ARCO Service Station # 6041  
7249 Village Parkway  
Dublin, California  
First Quarter 2006 Groundwater Monitoring Report  
ACEH Case # RO0000452

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

Submitted by:

Paul Supple  
Environmental Business Manager



April 10, 2006

**RECEIVED**

*By lopprojectop at 10:57 am, Apr 17, 2006*

Mr. Don Hwang  
Alameda County Environmental Health (ACEH)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**Re: First Quarter 2006 Groundwater Monitoring Report  
ARCO Service Station #6041  
7249 Village Parkway  
Dublin, California  
ACEH Case #RO0000452**

Dear Mr. Hwang:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *First Quarter 2006 Groundwater Monitoring Report* for the ARCO Service Station #6041, located at 7249 Village Parkway, Dublin, California.

If you have any questions regarding this submission, please call (510) 874-3152.

Sincerely,

**URS CORPORATION**

Alok D. Kolekar, P.E.  
Project Manager



Enclosure: First Quarter 2006 Groundwater Monitoring Report

cc: Ms. Karen Petryna, Equiva Services, LLC, P.O. Box 7869, Burbank, CA 91510-7869  
Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS  
Mr. Rob Miller, Broadbent & Associates, Inc., electronic copy uploaded to ENFOS

# REPORT

**RECEIVED**

*By loppjectop at 10:57 am, Apr 17, 2006*

## FIRST QUARTER 2006 GROUNDWATER MONITORING REPORT

ARCO SERVICE STATION #6041  
7249 VILLAGE PARKWAY  
DUBLIN, CALIFORNIA

*Prepared for*  
RM

April 10, 2006

**URS**

URS Corporation  
1333 Broadway, Suite 800  
Oakland, California 94612

Date: April 10, 2006  
Quarter: 1Q 06

### FIRST QUARTER 2006 GROUNDWATER MONITORING REPORT

Former Facility No.: 6041 Address: 7249 Village Parkway, Dublin, California  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Alok D. Kolekar  
Primary Agency: Alameda County Environmental Health (ACEH)  
ACEH Case No.: RO0000452

#### WORK PERFORMED THIS QUARTER (First – 2006):

1. Prepared and submitted the Fourth Quarter 2005 Groundwater Monitoring Report.
2. Performed the first quarter 2006 groundwater monitoring event on March 2, 2006.

#### WORK PROPOSED FOR NEXT QUARTER (Second – 2006):

1. Prepare and submit this First Quarter 2006 Groundwater Monitoring Report.
2. Perform the second quarter 2006 groundwater monitoring event.
3. Prepare and submit the Second Quarter 2006 Groundwater Monitoring Report.

#### SITE SUMMARY:

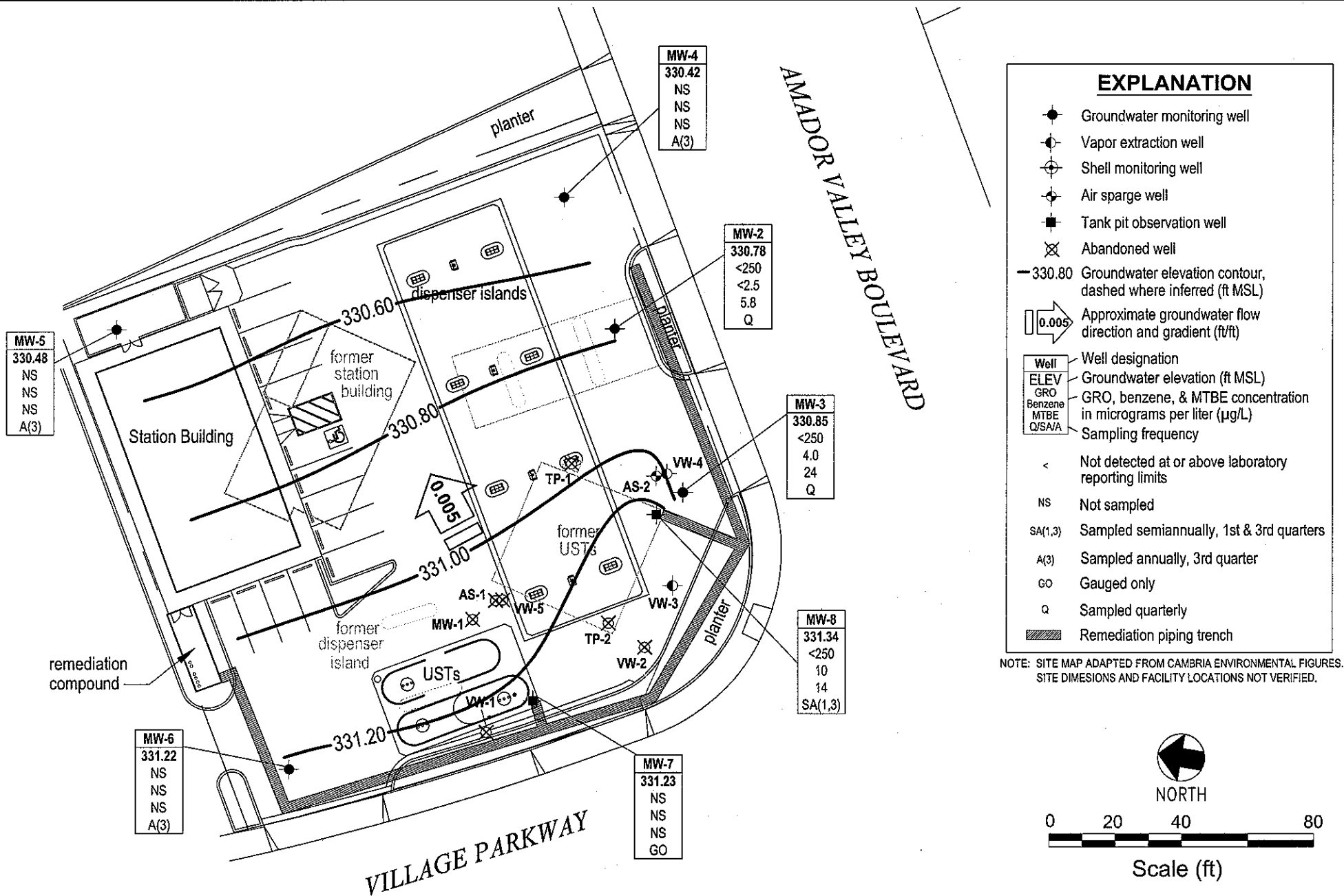
Current Phase of Project:	Groundwater monitoring/sampling
Frequency of Groundwater Sampling:	Quarterly: Wells MW-2 and MW-3 Semi-Annually (1Q, 3Q.): Well MW-8 Annually (3Q): Wells MW-4, MW-5, and MW-6
Frequency of Groundwater Monitoring:	Quarterly: Wells MW-2 to MW-8
Is Free Product Present On-Site:	No
Bulk Soil Removed to Date:	3,208 cubic yards
Current Remediation Techniques:	None
Approximate Depth to Groundwater:	6.45 (MW-4) to 8.11 (MW-5)
Groundwater Gradient (direction):	Northeast
Groundwater Gradient (magnitude):	0.005 feet per foot

#### DISCUSSION:

Benzene was detected at or above the laboratory reporting limit in two of the three wells sampled this quarter at concentrations of 4.0 micrograms per liter ( $\mu\text{g/L}$ ) (MW-3) and 10  $\mu\text{g/L}$  (MW-8). Ethylbenzene and xylenes were detected at or above their respective laboratory reporting limits in one well (MW-8) at concentrations of 4.4  $\mu\text{g/L}$  and 2.6  $\mu\text{g/L}$ , respectively. Methyl tert-butyl ether was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 5.8  $\mu\text{g/L}$  (MW-2) to 24  $\mu\text{g/L}$  (MW-3). Tert-Butyl alcohol was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 200  $\mu\text{g/L}$  (MW-8) to 3,300  $\mu\text{g/L}$  (MW-2). No other fuel components were detected at or above their respective laboratory reporting limits in any of the wells sampled this quarter. During purging prior to sampling, well MW-3 dewatered at 5 gallons.

**ATTACHMENTS:**

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – March 2, 2006
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Table 3 – Groundwater Gradient 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



**URS**

Project No. 38487565  
ARCO Service Station #6041  
7249 Village Parkway  
Dublin, California

**GROUNDWATER ELEVATION CONTOUR  
AND ANALYTICAL SUMMARY MAP**  
First Quarter 2006 (March 2, 2006)

FIGURE

1

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6041  
7249 Village Parkway, Dublin, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	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)	pH
MW-1	02/15/1995	--		336.56	14.00	17.50	8.53	328.03	820	15	<1	5.2	1.4	--	--	--
	05/24/1995	--		336.56	14.00	17.50	9.00	327.56	640	12	<1	7.3	<1	--	--	--
	08/25/1995	--		336.56	14.00	17.50	10.30	326.26	780	2	<1	2	2	2,500	--	--
	11/28/1995	--		336.56	14.00	17.50	11.01	325.55	570	2.2	<0.5	1.4	0.9	--	--	--
	02/26/1996	--		336.56	14.00	17.50	7.35	329.21	1,100	28	<7	13	7	3,400	--	--
	05/23/1996	--		336.56	14.00	17.50	8.73	327.83	560	8.5	<1	1.1	<1	3,900	--	--
	08/23/1996	--		336.56	14.00	17.50	10.25	326.31	860	<1	<1	<4	2	5,600	--	--
	03/21/1997	--		336.56	14.00	17.50	9.35	327.21	520	12	<0.5	2.7	1.5	6,200	--	--
	08/20/1997	--		336.56	14.00	17.50	10.75	325.81	<5,000	<50	<50	<50	<50	7,400	--	--
	11/21/1997	--		336.56	14.00	17.50	11.10	325.46	<5,000	<50	<50	<50	<50	8,500	--	--
	02/12/1998	P		336.56	14.00	17.50	7.05	329.51	210	<0.5	<0.5	<0.5	<0.5	8,900	1.71	--
	07/31/1998	P		336.56	14.00	17.50	10.04	326.52	<20,000	<200	<200	<200	<200	18,000	2.43	--
	02/17/1999	--		336.56	14.00	17.50	8.50	328.06	<20,000	<200	<200	<200	<200	16,000	1.0	--
	08/24/1999	P		336.56	14.00	17.50	10.40	326.16	190	<0.5	4.4	<0.5	1.1	15,000	--	--
	03/01/2000	P		336.56	14.00	17.50	8.85	327.71	310	20	0.5	7.6	4.0	80,000	1.57	--
	08/18/2000	P		336.56	14.00	17.50	9.35	327.21	<10,000	<100	<100	<100	<100	48,400/ 63,700	1.50	--
	12/27/2000	P		336.56	14.00	17.50	10.81	325.75	<10,000	309	<100	<100	289	44,400	0.51	--
	02/09/2001	--	i	336.56	14.00	17.50	--	--	3,490	432	9.56	146	235	31,800	--	--
	02/09/2001	P		336.56	14.00	17.50	10.65	325.91	2,820	368	<25.0	116	176	23,300	0.58	--
	04/17/2001	--	i	336.56	14.00	17.50	--	--	2,600	70.1	<20.0	32.7	30.6	45,400	--	--
	04/17/2001	P		336.56	14.00	17.50	11.09	325.47	2,900	66.0	<10.0	33.2	25.1	46,500	0.63	--
	07/17/2001	P		336.56	14.00	17.50	11.07	325.59	<10,000	<100	<100	130	520	42,000	0.69	--
	12/21/2001	--	k	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	02/15/1995	--		334.80	10.50	14.00	6.75	328.05	730	110	1.7	25	66	--	--	--
	05/24/1995	--		334.80	10.50	14.00	6.88	327.92	370	110	<1	17	1.9	--	--	--
	08/25/1995	--		334.80	10.50	14.00	7.91	326.89	150	6	<1	<1	<1	2,700	--	--
	11/28/1995	--		334.80	10.50	14.00	9.06	325.74	<50	<0.5	<0.5	<0.5	0.8	--	--	--
	02/26/1996	--		334.80	10.50	14.00	6.65	328.15	350	66	<0.5	11	1.7	<3	--	--
	05/23/1996	--		334.80	10.50	14.00	6.90	327.90	540	140	<2.5	13	<2.5	4,600	--	--
	08/23/1996	--		334.80	10.50	14.00	8.45	326.35	180	0.8	2	0.7	2.6	4,000	--	--
	03/21/1997	--		334.80	10.50	14.00	7.28	327.52	410	90	<1	14	4	3,800	--	--
	08/20/1997	--		334.80	10.50	14.00	8.87	325.93	<5,000	<50	<50	<50	<50	3,100	--	--

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6041  
7249 Village Parkway, Dublin, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	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)	pH
MW-2	11/21/1997	--		334.80	10.50	14.00	9.28	325.52	<2,000	<20	<20	<20	<20	2,600	--	--
	02/12/1998	P		334.80	10.50	14.00	5.90	328.90	310	54	<0.5	6.2	1.1	3,800	3.76	--
	07/31/1998	P		334.80	10.50	14.00	8.12	326.68	6,100	52	220	110	1,100	7,700	2.96	--
	02/17/1999	P		334.80	10.50	14.00	7.18	327.62	<5,000	<50	<50	<50	<50	4,200	1.0	--
	08/24/1999	P		334.80	10.50	14.00	8.68	326.12	200	1.8	16	3.0	32	3,100	--	--
	03/01/2000	P		334.80	10.50	14.00	7.02	327.78	760	24	12	13	59	6,300	1.92	--
	08/18/2000	P		334.80	10.50	14.00	7.75	327.05	<500	<5.00	<5.00	<5.00	<5.00	1,610/1,980	2.03	--
	12/27/2000	--		334.80	10.50	14.00	8.85	325.95	--	--	--	--	--	--	--	--
	02/09/2001	P		334.80	10.50	14.00	8.50	326.30	<50.0	<0.500	<0.500	<0.500	<0.500	9.11	0.53	--
	04/17/2001	--		334.80	10.50	14.00	9.12	325.68	--	--	--	--	--	--	--	--
	07/17/2001	--	i	334.80	10.50	14.00	--	--	3,500	<10	<10	<10	<10	3,500	--	--
	07/17/2001	P		334.80	10.50	14.00	8.99	325.81	1,200	<10	<10	<10	<10	4,200	0.69	--
	12/21/2001	NP		334.80	10.50	14.00	8.65	326.15	65	<0.50	1.2	0.61	6.7	11/6.5	0.48	--
	03/06/2002	NP		334.80	10.50	14.00	8.61	326.19	<50	<0.50	<0.50	<0.50	1.8	31	0.35	--
	04/26/2002	NP		334.80	10.50	14.00	8.20	326.60	92	<0.5	<0.50	<0.50	0.64	98/180	0.19	--
	09/23/2002	P	a, d	334.80	10.50	14.00	8.50	326.30	250	<1.2	<1.2	<1.2	<1.2	1,500	2.1	7.3
	12/27/2002	P	a, d	334.80	10.50	14.00	7.15	327.65	440	<2.5	<2.5	<2.5	<2.5	790	1.4	6.9
	03/12/2003	P	f, g	334.80	10.50	14.00	7.33	---	<50	1.6	<0.50	<0.50	1.2	11	2.7	7.0
	06/28/2003	P	h	337.29	10.50	14.00	7.49	329.80	<50	<0.50	<0.50	<0.50	<0.50	1.2	2.0	7.4
	09/30/2003	P		337.29	10.50	14.00	8.20	329.09	<50	<0.50	<0.50	<0.50	<0.50	5.2	2.2	7.0
	12/05/2003	NP		337.29	10.50	14.00	7.73	329.56	<50	<0.50	<0.50	<0.50	<0.50	2.6	4.3	7.3
	03/10/2004	P		337.29	10.50	14.00	6.70	330.59	<500	<5.0	<5.0	<5.0	<5.0	5.6	2.1	6.4
	06/21/2004	P		337.29	10.50	14.00	7.71	329.58	160	<1.0	<1.0	<1.0	<1.0	1.5	3.1	6.9
	09/17/2004	P		337.29	10.50	14.00	7.45	329.84	<100	<1.0	<1.0	<1.0	<1.0	1.0	3.8	7.0
	12/13/2004	P		337.29	10.50	14.00	7.04	330.25	<50	<0.50	<0.50	<0.50	<0.50	0.54	3.2	6.8
	03/03/2005	P		337.29	10.50	14.00	6.18	331.11	<500	<5.0	<5.0	<5.0	<5.0	<5.0	3.0	--
	06/23/2005	P	n	337.29	10.50	14.00	6.51	330.78	<50	<0.50	<0.50	<0.50	<0.50	4.3	2.6	7.0
	09/16/2005	P		337.29	10.50	14.00	7.65	329.64	<100	<1.0	<1.0	<1.0	<1.0	2.0	1.2	6.8
	12/27/2005	P		337.29	10.50	14.00	7.29	330.00	<250	<2.5	<2.5	<2.5	<2.5	<2.5	1.37	7.3
	03/02/2006	P		337.29	10.50	14.00	6.51	330.78	<250	<2.5	<2.5	<2.5	<2.5	5.8	1.38	6.8
MW-3	02/15/1995	--		335.53	12.00	15.00	8.55	326.98	100	14	<0.5	6.3	<0.5	--	--	--
	05/24/1995	--		335.53	12.00	15.00	8.17	327.36	110	8	<0.5	2.7	<0.5	--	--	--
	08/25/1995	--		335.53	12.00	15.00	9.27	326.26	210	3.6	<0.5	2.9	0.6	20,000	--	--



Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6041  
7249 Village Parkway, Dublin, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	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)	pH
MW-3	11/28/1995	--		335.53	12.00	15.00	9.91	325.62	81	1.5	<0.5	1.4	<0.5	15,000	--	--
	02/26/1996	--		335.53	12.00	15.00	8.42	327.11	16,000	1,600	1,200	300	2,000	9,500	--	--
	05/23/1996	--		335.53	12.00	15.00	7.70	327.83	6,500	690	<10	120	14	8,600	--	--
	08/23/1996	--		335.53	12.00	15.00	9.25	326.28	1,700	85	2.1	61	5.3	11,000	--	--
	03/21/1997	--		335.53	12.00	15.00	8.72	326.81	100	2	<1	1	<1	6,600	--	--
	08/20/1997	--		335.53	12.00	15.00	9.73	325.80	<5,000	<50	<50	<50	<50	7,700	--	--
	11/21/1997	--		335.53	12.00	15.00	10.10	325.43	<5,000	<50	<50	<50	<50	9,700	--	--
	02/12/1998	P		335.53	12.00	15.00	6.68	328.85	110	11	<0.5	<0.5	1.9	10,000	1.02	--
	07/31/1998	P		335.53	12.00	15.00	7.98	327.55	<10,000	<100	<100	<100	<100	13,000	2.59	--
	02/17/1999	P		335.53	12.00	15.00	8.40	327.13	<20,000	<200	<200	<200	<200	23,000	1.0	--
	08/24/1999	P		335.53	12.00	15.00	9.45	326.08	200	0.6	5.6	0.6	1.7	22,000	--	--
	03/01/2000	P		335.53	12.00	15.00	8.32	327.21	320	32	1	6.1	4	58,000	2.42	--
	08/18/2000	P		335.53	12.00	15.00	8.35	327.18	<10,000	<100	<100	<100	<100	46200/55600	1.59	--
	12/27/2000	P		335.53	12.00	15.00	9.75	326.78	29,700	1,620	1,730	<250	6,230	62,600	1.59	--
	02/09/2001	P		335.53	12.00	15.00	9.61	325.92	29,300	2,590	3,530	440	7,080	85,500	0.51	--
	04/17/2001	P		335.53	12.00	15.00	9.94	325.59	16,400	1,680	<25.0	310	2,290	48,700	0.41	--
	07/17/2001	P		335.53	12.00	15.00	9.93	325.60	21,000	1,500	<100	1,100	690	82,000	0.51	--
	12/21/2001	P		335.53	12.00	15.00	9.40	326.13	<5,000	<50	<50	<50	<50	4,300/3,800	0.40	--
	03/06/2002	P		335.53	12.00	15.00	9.33	326.20	<50	1.2	<0.50	1.1	13	880	0.43	--
	04/26/2002	P		335.53	12.00	15.00	9.19	326.34	260	3.7	<1.0	1.1	1.8	460/940	0.2	--
	09/23/2002	P	b, d	335.53	12.00	15.00	9.30	326.23	1,500	41	2.4	9.8	14	980	1.5	7.6
	12/27/2002	P	c, d	335.53	12.00	15.00	7.30	328.23	1,500	300	100	21	66	1,100	2.2	8.6
	03/12/2003	P	f, g	335.53	12.00	15.00	8.06	327.47	<1,000	<10	<10	<10	<10	45	1.6	7.4
	06/28/2003	P	h	338.18	12.00	15.00	8.60	329.58	1,500	20	27	12	45	140	1.7	7.6
	09/30/2003	P		338.18	12.00	15.00	9.04	315.00	<2,500	<25	<25	<25	<25	650	0.9	7.4
	12/05/2003	P		338.18	12.00	15.00	8.57	329.61	<2,500	<25	<25	<25	<25	480	1.3	--
	03/10/2004	P		338.18	12.00	15.00	7.58	330.60	180	7.4	<1.0	<1.0	<1.0	75	2.0	--
	06/21/2004	P	o	338.18	12.00	15.00	8.51	329.67	<2,500	<25	<25	<25	<25	370	4.6	7.6
	09/17/2004	P		338.18	12.00	15.00	8.38	329.80	<5,000	<50	<50	<50	<50	280	1.8	7.1
	12/13/2004	P	o	338.18	12.00	15.00	8.04	330.14	520	89	4.6	3.9	5.8	460	1.9	7.6
	03/03/2005	P		338.18	12.00	15.00	6.89	331.29	300	23	<2.5	<2.5	<2.5	130	1.8	7.6
	06/23/2005	P	n	338.18	12.00	15.00	8.27	329.91	260	6.1	1.1	0.65	2.8	40	1.4	8.0
	09/16/2005	P		338.18	12.00	15.00	8.47	329.71	850	52	<5.0	<5.0	<5.0	270	1.4	7.2

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #6041  
 7249 Village Parkway, Dublin, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	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)	pH
MW-3	12/27/2005	P		338.18	12.00	15.00	7.77	330.41	300	56	<2.5	<2.5	3.6	230	1.54	8.0
	03/02/2006	P		338.18	12.00	15.00	7.33	330.85	<250	4.0	<2.5	<2.5	<2.5	24	1.5	7.2
MW-4	02/15/1995	--		334.22	8.50	14.50	7.85	326.37	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	05/24/1995	--		334.22	8.50	14.50	6.68	327.54	--	--	--	--	--	--	--	--
	08/25/1995	--		334.22	8.50	14.50	6.93	327.29	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/28/1995	--		334.22	8.50	14.50	8.21	326.01	--	--	--	--	--	--	--	--
	02/26/1996	--		334.22	8.50	14.50	6.65	327.57	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	05/23/1996	--		334.22	8.50	14.50	6.47	327.75	--	--	--	--	--	--	--	--
	08/23/1996	--		334.22	8.50	14.50	7.66	326.56	--	--	--	--	--	--	--	--
	03/21/1997	--		334.22	8.50	14.50	6.84	327.38	--	--	--	--	--	--	--	--
	08/20/1997	--		334.22	8.50	14.50	8.32	325.90	--	--	--	--	--	--	--	--
	11/21/1997	--		334.22	8.50	14.50	8.65	325.57	--	--	--	--	--	--	--	--
	02/12/1998	--		334.22	8.50	14.50	6.35	327.87	--	--	--	--	--	--	--	--
	07/31/1998	--		334.22	8.50	14.50	6.84	327.38	--	--	--	--	--	--	--	--
	02/17/1999	--		334.22	8.50	14.50	7.50	326.72	--	--	--	--	--	--	--	--
	08/24/1999	--		334.22	8.50	14.50	9.50	324.72	--	--	--	--	--	--	--	--
	03/01/2000	--		334.22	8.50	14.50	6.93	327.29	--	--	--	--	--	--	--	--
	08/18/2000	--		334.22	8.50	14.50	7.03	327.19	--	--	--	--	--	--	--	--
	12/27/2000	--		334.22	8.50	14.50	8.10	326.12	--	--	--	--	--	--	--	--
	02/09/2001	--		334.22	8.50	14.50	7.97	326.25	--	--	--	--	--	--	--	--
	04/17/2001	--		334.22	8.50	14.50	8.90	325.32	--	--	--	--	--	--	--	--
	07/17/2001	--		334.22	8.50	14.50	8.59	325.63	--	--	--	--	--	--	--	--
	12/21/2001	NP		334.22	8.50	14.50	8.31	325.91	<50	<0.50	<0.50	<0.50	<0.50	4.1/2.0	0.68	--
	03/06/2002	P		334.22	8.50	14.50	8.27	325.95	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.37	--
	04/26/2002	P		334.22	8.50	14.50	8.05	326.17	<50	<0.50	<0.50	<0.50	<0.50	3.6	0.3	--
	09/23/2002	P		334.22	8.50	14.50	7.94	326.28	<50	<0.50	<0.50	<0.50	<0.50	2.9	4.1	7.3
	12/27/2002	--		334.22	8.50	14.50	7.56	326.66	<50	<0.50	<0.50	<0.50	<0.50	2.6	2.1	6.9
	03/12/2003	P	g	334.22	8.50	14.50	7.67	326.55	<50	<0.50	<0.50	<0.50	<0.50	1.6	2.8	6.8
	06/28/2003	P	h	336.87	8.50	14.50	7.60	329.27	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	5.6
	09/30/2003	--		336.87	8.50	14.50	7.66	329.21	<50	<0.50	<0.50	<0.50	<0.50	1.4	2.2	6.9
	12/05/2003	P		336.87	8.50	14.50	5.61	331.26	<50	<0.50	<0.50	<0.50	<0.50	2.3	3.0	--
	03/10/2004	P		336.87	8.50	14.50	6.84	330.03	<50	<0.50	<0.50	<0.50	<0.50	2.1	4.0	--
	06/21/2004	P		336.87	8.50	14.50	7.35	329.52	<50	<0.50	<0.50	<0.50	<0.50	2.0	5.4	6.2

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6041  
7249 Village Parkway, Dublin, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	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)	pH
MW-4	09/17/2004	P		336.87	8.50	14.50	7.30	329.57	<50	<0.50	<0.50	<0.50	<0.50	3.5	3.0	6.9
	12/13/2004	P		336.87	8.50	14.50	7.08	329.79	<50	<0.50	<0.50	<0.50	<0.50	5.4	4.0	6.8
	03/03/2005	P		336.87	8.50	14.50	8.11	328.76	<50	<0.50	<0.50	<0.50	<0.50	6.3	2.9	6.9
	06/23/2005	P	p	336.87	8.50	14.50	6.70	330.17	--	--	--	--	--	--	2.2	6.7
	09/16/2005	P		336.87	8.50	14.50	7.28	329.59	<50	<0.50	<0.50	<0.50	<0.50	4.2	1.2	6.9
	12/27/2005	--		336.87	8.50	14.50	7.03	329.84	--	--	--	--	--	--	--	--
	03/02/2006	--		336.87	8.50	14.50	6.45	330.42	--	--	--	--	--	--	--	--
MW-5	02/15/1995	--		335.87	11.00	17.50	7.80	328.07	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	05/24/1995	--		335.87	11.00	17.50	8.10	327.77	--	--	--	--	--	--	--	--
	08/25/1995	--		335.87	11.00	17.50	9.43	326.44	--	--	--	--	--	--	--	--
	11/28/1995	--		335.87	11.00	17.50	10.12	325.75	--	--	--	--	--	--	--	--
	02/26/1996	--		335.87	11.00	17.50	6.73	329.14	--	<0.5	<0.5	<0.5	<0.5	<3	--	--
	05/23/1996	--		335.87	11.00	17.50	7.87	328.00	--	--	--	--	--	--	--	--
	08/23/1996	--		335.87	11.00	17.50	9.46	326.41	--	--	--	--	--	--	--	--
	03/21/1997	--		335.87	11.00	17.50	8.23	327.64	--	--	--	--	--	--	--	--
	08/20/1997	--		335.87	11.00	17.50	9.92	325.95	--	--	--	--	--	--	--	--
	11/21/1997	--		335.87	11.00	17.50	10.18	325.69	--	--	--	--	--	--	--	--
	02/12/1998	--		335.87	11.00	17.50	6.45	329.42	--	--	--	--	--	--	--	--
	07/31/1998	--		335.87	11.00	17.50	8.98	326.89	--	--	--	--	--	--	--	--
	02/17/1999	--		335.87	11.00	17.50	7.65	328.22	--	--	--	--	--	--	--	--
	08/24/1999	--		335.87	11.00	17.50	8.10	327.77	--	--	--	--	--	--	--	--
	03/01/2000	--		335.87	11.00	17.50	7.31	328.56	--	--	--	--	--	--	--	--
	08/18/2000	--		335.87	11.00	17.50	8.65	327.22	--	--	--	--	--	--	--	--
	12/27/2000	--		335.87	11.00	17.50	9.80	326.07	--	--	--	--	--	--	--	--
	02/09/2001	--		335.87	11.00	17.50	9.65	326.22	--	--	--	--	--	--	--	--
	04/17/2001	--		335.87	11.00	17.50	9.92	325.95	--	--	--	--	--	--	--	--
	07/17/2001	--		335.87	11.00	17.50	9.95	325.92	--	--	--	--	--	--	--	--
	12/21/2001	--	m	335.87	11.00	17.50	--	--	--	--	--	--	--	--	--	--
	03/06/2002	--	m	335.87	11.00	17.50	--	--	--	--	--	--	--	--	--	--
	04/26/2002	--	m	335.87	11.00	17.50	--	--	--	--	--	--	--	--	--	--
	09/23/2002	--		335.87	11.00	17.50	7.94	327.93	--	--	--	--	--	--	--	--
	12/27/2002	--		335.87	11.00	17.50	7.57	328.30	<50	<0.50	<0.50	<0.50	0.76	15	0.7	6.9
	03/12/2003	--	g	335.87	11.00	17.50	8.32	327.55	--	--	--	--	--	--	--	--

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6041  
7249 Village Parkway, Dublin, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	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)	pH
MW-5	06/28/2003	--	h	338.59	11.00	17.50	8.58	330.01	--	--	--	--	--	--	--	--
	09/30/2003	--		338.59	11.00	17.50	9.28	329.31	--	--	--	--	--	--	--	--
	12/05/2003	P		338.59	11.00	17.50	9.11	329.48	<50	<0.50	<0.50	<0.50	<0.50	22	2.9	--
	03/10/2004	--		338.59	11.00	17.50	7.57	331.02	--	--	--	--	--	--	--	--
	06/21/2004	--		338.59	11.00	17.50	8.68	329.91	--	--	--	--	--	--	--	--
	09/17/2004	--		338.59	11.00	17.50	--	--	--	--	--	--	--	--	--	--
	09/24/2004	P		338.59	11.00	17.50	8.53	330.06	<50	<0.50	<0.50	<0.50	<0.50	17	1.9	6.8
	12/13/2004	--		338.59	11.00	17.50	8.28	330.31	--	--	--	--	--	--	--	--
	03/03/2005	--		338.59	11.00	17.50	6.78	331.81	--	--	--	--	--	--	--	--
	06/23/2005	--		338.59	11.00	17.50	8.27	330.32	--	--	--	--	--	--	--	--
	09/16/2005	P		338.59	11.00	17.50	9.57	329.02	<50	<0.50	<0.50	<0.50	<0.50	69	1.3	7.0
	12/27/2005	--		338.59	11.00	17.50	8.72	329.87	--	--	--	--	--	--	--	--
	03/02/2006	--		338.59	11.00	17.50	8.11	330.48	--	--	--	--	--	--	--	--
MW-6	02/15/1995	--		335.84	8.50	12.70	7.81	328.03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	05/24/1995	--		335.84	8.50	12.70	8.35	327.49	--	--	--	--	--	--	--	--
	08/25/1995	--		335.84	8.50	12.70	9.71	326.13	--	--	--	--	--	--	--	--
	11/28/1995	--		335.84	8.50	12.70	10.28	325.56	--	--	--	--	--	--	--	--
	02/26/1996	--		335.84	8.50	12.70	6.60	329.24	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	05/23/1996	--		335.84	8.50	12.70	8.05	327.79	--	--	--	--	--	--	--	--
	08/23/1996	--		335.84	8.50	12.70	9.58	326.26	--	--	--	--	--	--	--	--
	03/21/1997	--		335.84	8.50	12.70	8.39	327.45	--	--	--	--	--	--	--	--
	08/20/1997	--		335.84	8.50	12.70	9.98	325.86	--	--	--	--	--	--	--	--
	11/21/1997	--		335.84	8.50	12.70	10.31	325.53	--	--	--	--	--	--	--	--
	02/12/1998	--		335.84	8.50	12.70	3.15	332.69	--	--	--	--	--	--	--	--
	07/31/1998	--		335.84	8.50	12.70	9.29	326.55	--	--	--	--	--	--	--	--
	02/17/1999	--		335.84	8.50	12.70	7.72	328.12	--	--	--	--	--	--	--	--
	08/24/1999	--		335.84	8.50	12.70	9.65	326.19	--	--	--	--	--	--	--	--
	03/01/2000	--		335.84	8.50	12.70	7.35	328.49	--	--	--	--	--	--	--	--
	08/18/2000	--		335.84	8.50	12.70	8.65	327.19	--	--	--	--	--	--	--	--
	12/27/2000	--		335.84	8.50	12.70	9.83	326.01	--	--	--	--	--	--	--	--
	02/09/2001	--		335.84	8.50	12.70	9.62	326.22	--	--	--	--	--	--	--	--
	04/17/2001	--		335.84	8.50	12.70	10.03	325.81	--	--	--	--	--	--	--	--
	07/17/2001	--		335.84	8.50	12.70	9.95	325.89	--	--	--	--	--	--	--	--

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6041  
7249 Village Parkway, Dublin, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	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)	pH
MW-6	12/21/2001	NP		335.84	8.50	12.70	9.47	326.37	<50	<0.50	<0.50	<0.50	0.57	<2.5	0.55	--
	03/06/2002	P		335.84	8.50	12.70	9.31	326.53	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.33	--
	04/26/2002	P		335.84	8.50	12.70	9.09	326.75	<50	<0.50	<0.50	<0.50	0.7	<2.5	0.31	--
	09/23/2002	P		335.84	8.50	12.70	9.14	326.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	7.4
	12/27/2002	--		335.84	8.50	12.70	7.26	328.58	<50	<0.50	<0.50	<0.50	0.63	0.91	0.8	7.0
	03/12/2003	P	g	335.84	8.50	12.70	8.41	327.43	<50	<0.50	<0.50	<0.50	<0.50	0.64	1.3	7.2
	06/28/2003	P	h	338.37	8.50	12.70	8.56	329.81	<50	<0.50	<0.50	<0.50	<0.50	0.62	1.6	6.8
	09/30/2003	--		338.37	8.50	12.70	9.32	329.05	<250	<2.5	<2.5	<2.5	<2.5	3.9	0.8	7.0
	12/05/2003	--		338.37	8.50	12.70	8.96	329.41	--	--	--	--	--	--	--	--
	03/10/2004	--		338.37	8.50	12.70	7.65	330.72	--	--	--	--	--	--	--	--
	06/21/2004	--		338.37	8.50	12.70	8.58	329.79	--	--	--	--	--	--	--	--
	09/17/2004	P		338.37	8.50	12.70	8.47	329.90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	7.0
	12/13/2004	--		338.37	8.50	12.70	8.04	330.33	--	--	--	--	--	--	--	--
	03/03/2005	--		338.37	8.50	12.70	6.60	331.77	--	--	--	--	--	--	--	--
	06/23/2005	--		338.37	8.50	12.70	8.14	330.23	--	--	--	--	--	--	--	--
	09/16/2005	P		338.37	8.50	12.70	8.66	329.71	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	7.1
	12/27/2005	--		338.37	8.50	12.70	7.79	330.58	--	--	--	--	--	--	--	--
	03/02/2006	--		338.37	8.50	12.70	7.15	331.22	--	--	--	--	--	--	--	--
MW-7	12/21/2001	--	j	--	--	8.00	--	--	--	--	--	--	--	--	--	--
	03/06/2002	--	j	--	--	8.00	--	--	--	--	--	--	--	--	--	--
	04/26/2002	--	j	--	--	8.00	--	--	--	--	--	--	--	--	--	--
	09/23/2002	--	j	--	--	8.00	--	--	--	--	--	--	--	--	--	--
	12/27/2002	--	e	--	--	8.00	7.74	--	<50	<0.50	<0.50	<0.50	<0.50	4.7	2.7	7.0
	03/12/2003	--	g, j	--	--	8.00	--	--	--	--	--	--	--	--	--	--
	06/28/2003	--	h, j	338.62	--	8.00	--	--	--	--	--	--	--	--	--	--
	09/30/2003	--	j	338.62	--	8.00	--	--	--	--	--	--	--	--	--	--
	12/05/2003	--	j	338.62	--	8.00	--	--	--	--	--	--	--	--	--	--
	03/10/2004	--		338.62	--	8.00	7.78	330.84	--	--	--	--	--	--	--	--
	06/21/2004	--	j	338.62	--	8.00	--	--	--	--	--	--	--	--	--	--
	09/17/2004	--	j	338.62	--	8.00	--	--	--	--	--	--	--	--	--	--
	12/13/2004	--	j	338.62	--	8.00	--	--	--	--	--	--	--	--	--	--
	03/03/2005	--		338.62	--	8.00	6.81	331.81	--	--	--	--	--	--	--	--
	06/23/2005	--	j	338.62	--	8.00	--	--	--	--	--	--	--	--	--	--

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6041  
7249 Village Parkway, Dublin, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	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)	pH
MW-7	09/16/2005	--	j	338.62	--	8.00	--	--	--	--	--	--	--	--	--	--
	12/27/2005	--		338.62	--	8.00	7.90	330.72	--	--	--	--	--	--	--	--
	03/02/2006	--		338.62	--	8.00	7.39	331.23	--	--	--	--	--	--	--	--
MW-8	12/21/2001	NP		--	--	12.60	8.70	--	<5,000	67	<50	<50	<50	2,400/1,300	0.60	--
	03/06/2002	--	i	--	--	12.60	--	--	170	37	0.67	0.7	1.9	740	--	--
	03/06/2002	P		--	--	12.60	8.63	--	210	41	0.64	0.79	2.0	940	0.25	--
	04/26/2002	--	i	--	--	12.60	--	--	480	74	3.5	11	<1.0	640	--	--
	04/26/2002	P		--	--	12.60	8.15	--	680	95	<1.0	14	2.5	490	0.31	--
	09/30/2002	P	c	--	--	12.60	9.37	--	1,100	120	<5.0	57	8.7	1,100	1.3	6.9
	12/27/2002	P	b	--	--	12.60	7.55	--	350	13	<0.50	2.4	2.2	73	0.8	6.9
	03/12/2003	P	g	--	--	12.60	8.25	--	<2,500	89	<25	<25	<25	740	1.4	6.9
	06/28/2003	P	h	338.27	--	12.60	8.38	329.89	7,000	680	<25	110	180	2,900	1.9	4.8
	09/30/2003	P	a	338.27	--	12.60	9.09	329.18	1,500	240	18	45	150	180	1.0	6.8
	12/05/2003	P		338.27	--	12.60	8.37	329.90	590	60	<2.5	15	4.2	150	1.5	7.1
	03/10/2004	P		338.27	--	12.60	7.41	330.86	690	50	<5.0	7.4	6.8	370	2.2	6.3
	06/21/2004	P		338.27	--	12.60	8.41	329.86	1,300	200	<5.0	65	82	400	0.8	6.8
	09/17/2004	P		338.27	--	12.60	8.25	330.02	580	17	<0.50	1.9	5.8	22	1.3	6.6
	12/13/2004	P		338.27	--	12.60	7.78	330.49	380	24	<0.50	18	4.9	6.6	1.0	6.7
	03/03/2005	P		338.27	--	12.60	6.48	331.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	6.8
	06/23/2005	P	n	338.27	--	12.60	7.91	330.36	160	10	<0.50	3.8	5.4	26	1.8	6.8
	09/16/2005	P		338.27	--	12.60	8.38	329.89	1,700	340	5.0	100	95	49	2.5	6.8
	12/27/2005	--		338.27	--	12.60	7.60	330.67	--	--	--	--	--	--	--	--
	03/02/2006	P		338.27	--	12.60	6.93	331.34	<250	10	<2.5	4.4	2.6	14	0.8	6.8
Shell MW-7	12/27/2000	P		--	--	--	6.45	--	<50.0	<0.500	0.696	<0.500	0.795	<2.50	1.33	--
	02/09/2001	P		--	--	--	6.39	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.13	--
	04/17/2001	P		--	--	--	7.22	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.12	--
	07/17/2001	P		--	--	--	6.93	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.05	--
	12/21/2001	P		--	--	--	7.15	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	03/06/2002	P		--	--	--	7.03	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.95	--
	04/26/2002	P		--	--	--	7.15	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.95	--
	09/27/2002	--	k	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6041  
7249 Village Parkway, Dublin, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	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)	pH
Shell MW-6	12/27/2000	--	i	--	--	--	--	--	79.3	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
	12/27/2000	P		--	--	--	9.13	--	74.7	<0.500	<0.500	<0.500	<0.500	<2.50	1.3	--
	02/09/2001	P		--	--	--	9.05	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.29	--
	04/17/2001	P		--	--	--	10.17	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.95	--
	07/17/2001	P	i	--	--	--	9.50	--	<50	<0.50	<0.50	<0.50	<0.50	4.2	1.03	--
	12/21/2001	P		--	--	--	9.98	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.97	--
	03/06/2002	P		--	--	--	9.90	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.97	--
	04/26/2002	P		--	--	--	9.47	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.97	--
	09/27/2002	--	k	--	--	--	--	--	--	--	--	--	--	--	--	--
VW-2	03/21/1997	--		--	4.00	9.50	8.22	--	150	8.9	<0.5	<0.5	0.6	270	--	--
	08/20/1997	--		--	4.00	9.50	9.16	--	--	--	--	--	--	--	--	--
	11/21/1997	--		--	4.00	9.50	8.27	--	<200	3	<2	<2	<2	180	--	--
	02/12/1998	--		--	4.00	9.50	6.65	--	200	19	<0.5	0.6	<0.5	2,200	--	--
	07/31/1998	--		--	4.00	9.50	7.01	--	--	--	--	--	--	--	--	--
	02/17/1999	--		--	4.00	9.50	8.47	--	--	--	--	--	--	--	--	--
	08/24/1999	--		--	4.00	9.50	8.20	--	--	--	--	--	--	--	--	--
	03/01/2000	--		--	4.00	9.50	8.72	--	--	--	--	--	--	--	--	--
	08/18/2000	NP		--	4.00	9.50	8.40	--	<250	<2.50	<2.50	<2.50	<2.50	537	1.59	--
	12/27/2000	--	j	--	4.00	9.50	8.95	--	--	--	--	--	--	--	--	--
	02/09/2001	--	j	--	4.00	9.50	8.87	--	--	--	--	--	--	--	--	--
	04/17/2001	--	j	--	4.00	9.50	9.00	--	--	--	--	--	--	--	--	--
	07/17/2001	--	j	--	4.00	9.50	8.97	--	--	--	--	--	--	--	--	--
	12/21/2001	--	k	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #6041  
 7249 Village Parkway, Dublin, CA

**SYMBOLS AND ABBREVIATIONS:**

-- = Not sampled/analyzed/available/applicable  
 < = Not detected at or above specified laboratory reporting limit  
 DO = Dissolved oxygen  
 DTW = Depth to water in ft bgs  
 ft bgs = Feet below ground surface  
 GRO = Gasoline range organics  
 GWE = Groundwater elevation in ft MSL  
 mg/L = Milligrams per liter  
 ft MSL = Feet above mean sea level  
 MTBE = Methyl tert-butyl ether  
 NP = Well was not purged prior to sampling  
 P = Well was purged prior to sampling  
 TOC = Top of casing elevation in ft MSL  
 TPH-g = Total petroleum hydrocarbons as gasoline  
 µg/L = Micrograms per liter

**FOOTNOTES:**

a = Discrete peak at C6-C7 for GRO/TPH-g.  
 b = Hydrocarbon pattern was present in the requested fuel quantitation range but did not resemble the pattern of the requested fuel for GRO/TPH-g.  
 c = Chromatogram Pattern: C6-C10 for GRO/TPH-g.  
 d = Well casing broken, TOC unknown.  
 e = Well mistakenly sampled this quarter.  
 f = Well casing was repaired and needs to be resurveyed.  
 g = Beginning the 1st quarter of 2003, TPH-g, benzene, toluene, ethylbenzene, total xylenes, and MTBE were analyzed by EPA Method 8260B.  
 h = Elevations resurveyed on 7/21/2003.  
 i = Blind duplicate sample.  
 j = Well was dry.  
 k = Well abandoned.  
 m = Well inaccessible.  
 n = Opening calibration verification standard for MTBE outside acceptance criteria.  
 o = Well dewatered.  
 p = VOAs broken prior to analysis of sample.

**NOTES:**

For previous historical GWE and analytical data please refer to fourth quarter 1995 groundwater monitoring program results, ARCO Service Station 6041, Dublin, California, (EMCON, 02/26/96).

pH levels for Well MW-3 on 12/05/03 ranged from 7.2 to 11.25.

The data within this table collected prior to September 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

The values for DO and pH levels were obtained through field measurements.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to 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.

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.



Table 2

## Fuel Additives Analytical Data

ARCO Service Station #6041  
7249 Village Parkway, Dublin, 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-2	12/27/2002	<20,000	<10,000	790	<250	<250	<250	<250	<250	
	03/12/2003	<100	540	11	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/28/2003	<100	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/30/2003	<100	290	5.2	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/05/2003	<100	730	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/10/2004	<1,000	13,000	5.6	<5.0	<5.0	<5.0	<5.0	<5.0	
	06/21/2004	<200	2,900	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	
	09/17/2004	<200	2,100	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	12/13/2004	<100	860	0.54	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/03/2005	<1,000	5,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	06/23/2005	<100	1,900	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	b
	09/16/2005	<200	3,600	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	12/27/2005	<500	3,800	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	c
	03/02/2006	<1,500	3,300	5.8	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-3	12/27/2002	<40,000	<20,000	1,100	<500	<500	<500	<500	<500	
	03/12/2003	<2,000	6,100	45	<10	<10	<10	<10	<10	
	06/28/2003	<2,000	29,000	140	<10	<10	<10	<10	<10	
	09/30/2003	<5,000	39,000	650	<25	<25	<25	<25	<25	
	12/05/2003	<5,000	39,000	480	<25	<25	<25	<25	<25	
	03/10/2004	<200	590	75	<1.0	<1.0	<1.0	<1.0	<1.0	
	06/21/2004	<5,000	34,000	370	<25	<25	<25	<25	<25	
	09/17/2004	<10,000	53,000	280	<50	<50	<50	<50	<50	
	12/13/2004	<500	5,300	460	<2.5	<2.5	<2.5	<2.5	<2.5	
	03/03/2005	<500	940	130	<2.5	<2.5	<2.5	<2.5	<2.5	
	06/23/2005	<100	9,400	40	<0.50	<0.50	<0.50	<0.50	<0.50	b
	09/16/2005	<1,000	20,000	270	<5.0	<5.0	<5.0	<5.0	<5.0	
	12/27/2005	<500	1,700	230	<2.5	<2.5	<2.5	<2.5	<2.5	c
	03/02/2006	<1,500	400	24	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-4	12/27/2002	<40	<20	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/12/2003	<100	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/28/2003	<100	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/30/2003	<100	<20	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/05/2003	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/10/2004	<100	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

## Fuel Additives Analytical Data

ARCO Service Station #6041  
7249 Village Parkway, Dublin, 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-4	06/21/2004	<100	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/17/2004	<100	<20	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/13/2004	<100	85	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/03/2005	<100	<20	6.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/16/2005	<100	79	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5	12/27/2002	<40	<20	15	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/05/2003	<100	<20	22	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/24/2004	<100	<20	17	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/16/2005	<100	<20	69	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-6	12/27/2002	<40	<20	0.91	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/12/2003	<100	<20	0.64	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/28/2003	<100	<20	0.62	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/30/2003	<500	<100	3.9	<2.5	<2.5	<2.5	<2.5	<2.5	
	09/17/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/16/2005	<100	42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7	12/27/2002	<40	<20	4.7	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-8	12/27/2002	<400	260	73	<5.0	<5.0	<5.0	<5.0	<5.0	
	03/12/2003	<5,000	2,200	740	<25	<25	<25	<25	<25	
	06/28/2003	<5,000	12,000	2,900	<25	<25	<25	<25	<25	
	09/30/2003	<2,000	28,000	180	<10	<10	<10	<10	<10	a
	12/05/2003	<500	500	150	<2.5	<2.5	<2.5	<2.5	<2.5	
	03/10/2004	<1,000	420	370	<5.0	<5.0	<5.0	<5.0	<5.0	
	06/21/2004	<1,000	9,200	400	<5.0	<5.0	<5.0	<5.0	<5.0	
	09/17/2004	<100	83	22	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/13/2004	<100	540	6.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/23/2005	<100	440	26	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/16/2005	<500	5,000	49	<2.5	<2.5	<2.5	<2.5	<2.5	
	03/02/2006	<1,500	200	14	<2.5	<2.5	<2.5	<2.5	<2.5	

**Table 2**

**Fuel Additives Analytical Data**  
ARCO Service Station #6041  
7249 Village Parkway, Dublin, CA

**ABBREVIATIONS AND SYMBOLS:**

< = Not detected at or above specified 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

µg/L = micrograms per liter

**FOOTNOTES:**

a = The result for TBA was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.

b = The initial analysis of TBA was within the hold time but required dilution.

c = Calibration verification for ethanol was within method limits but outside contract limits.

**NOTES:**

All fuel oxygenate compounds analyzed using EPA Method 8260B.

**Table 3**  
**Groundwater Gradient Data**  
 ARCO Service Station #6041  
 7249 Village Parkway, Dublin, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
2/15/1995	NR	NR
5/24/1995	East-Southeast	0.002
8/25/1995	Northwest	0.006
11/28/1995	North	0.006
2/26/1996	East	0.012
5/23/1996	Flat Gradient	Flat Gradient
8/23/1996	Flat Gradient	Flat Gradient
3/21/1997	South-Southeast	0.005
8/20/1997	South-Southwest	0.001
11/21/1997	South-Southwest	0.002
2/12/1998	East	0.024
7/31/1998	Northwest	0.01
2/17/1999	Southeast	0.007
8/24/1999	South-Southwest	0.013
3/1/2000	South-Southeast	0.005
9/26/2000	South-Southeast	0.002
12/27/2000	West-Southwest	0.003
2/9/2001	West-Southwest	0.003
4/17/2001	South-Southwest	0.015
7/17/2001	South-Southwest	0.003
12/21/2001	East	0.002
3/6/2002	East	0.003
4/26/2002	Southeast	0.003
9/27/2002	South	0.013
12/27/2002	Southeast	0.011
3/12/2003	South-Southeast	0.008
6/28/2003	South	0.001
9/30/2003	Southwest	0.002
12/5/2003	West	0.009
3/10/2004	South-Southeast	0.003
6/21/2004	Southeast	0.004
9/17/2004	Variable	0.001 - 0.007
9/17/2004	Variable	0.001-0.007
12/13/2004	East	0.002
3/3/2005	East	0.02
6/23/2005	Variable	0.02 - 0.005
9/16/2005	Northeast	0.005

**Table 3**

**Groundwater Gradient Data**  
ARCO Service Station #6041  
7249 Village Parkway, Dublin, CA

<b>Date Sampled</b>	<b>Approximate Flow Direction</b>	<b>Approximate Hydraulic Gradient</b>
12/27/2005	East-Northeast	0.007
3/2/2006	Northeast	0.005

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

**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<sup>TM</sup> 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 # 060302-MD Date 3/2/06 Client Arco

Site 7249 Village Parkway, Dublin

[illegible]



# ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>060302-MW1</u>	Station # <u>6041</u>
Sampler: <u>MWD</u>	Date: <u>3/2/06</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>9.50</u>	Depth to Water: <u>6.51</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade:	D.O. Meter (if req'd): <u>YSI</u> 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: Bailer  
Disposable Bailer  
 Positive Air Displacement  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: Bailer  
Disposable Bailer  
 Extraction Port  
 Other: \_\_\_\_\_

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

<u>2</u>	X	<u>3</u>	=	<u>6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1240	67.2	7.0	3465	2	clear
1244	68.5	6.9	3517	4	
1248	68.7	6.8	3517	6	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Time: 1250 Sampling Date: 3/2/06

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

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA BDB Ethanol Other: See Cox

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 #: 1260202-MW1	Station # 6041
Sampler: MW	Date: 3/2/06
Well I.D.: MW-3	Well Diameter: 2 3 4 6 8
Total Well Depth: 13.96	Depth to Water: 7.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade.	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer  
 Disposable Bailer  
 Positive Air Displacement  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: Bailer  
 Disposable Bailer  
 Extraction Port  
 Other: \_\_\_\_\_

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

$$\frac{4.3}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{12.9}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1304	67.6	7.7	344	4.5	cloudy, odor
					well dewatered 5gal
1345	68.7	7.2	537	-	cloudy, odor

Did well dewater? Yes (No)	Gallons actually evacuated: 5 gal
Sampling Time: 1345	Sampling Date: 3/2/06
Sample I.D.: MW-3	Laboratory: Pace Sequoia Other
Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol	Other: Secc
D.O. (if req'd):	Pre-purge: mg/L Post-purge: 1.5 mg/L
O.R.P. (if req'd):	Pre-purge: mV Post-purge: mV

# ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>060302-MW-1</u>	Station # <u>104</u>
Sampler: <u>MW</u>	Date: <u>3/2/06</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>12.67</u>	Depth to Water: <u>6.93</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> 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: 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>3.7</u>	x	<u>3</u>	=	<u>11.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1309	67.3	6.7	726	4	odor cloudy
1310	66.8	6.8	796	8	↓ ↓
1312	67.1	6.8	797	11.5	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Gallons actually evacuated: <u>11.5</u>	
Sampling Time: <u>1320</u>		Sampling Date: <u>3/2/06</u>	
Sample I.D.: <u>MW-8</u>		Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol Other: <u>See COC</u>			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: <u>0.8</u> 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:

Station #

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

added equip.  
rinse water

any other  
adjustments

**TOTAL GALS.  
RECOVERED** 23

loaded onto  
BTS vehicle # 59

BTS event #

time

date

060302-WD 1415 3/2/06

signature

REC'D AT

time

date

BTS 1515 3/2/06  
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.



31 March, 2006

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

RE: ARCO #6041, Dublin, CA  
Work Order: MPC0094

Enclosed are the results of analyses for samples received by the laboratory on 03/02/06 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race  
Senior Project Manager

CA ELAP Certificate #1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.



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

Project: ARCO #6041, Dublin, CA  
Project Number: G0C1W-0011  
Project Manager: Alok Kolekar

MPC0094  
Reported:  
03/31/06 13:17

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	MPC0094-01	Water	03/02/06 12:50	03/02/06 17:40
MW-3	MPC0094-02	Water	03/02/06 13:45	03/02/06 17:40
MW-8	MPC0094-03	Water	03/02/06 13:20	03/02/06 17:40
TB-6041-03022006	MPC0094-04	Water	03/02/06 00:00	03/02/06 17:40

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: ARCO #6041, Dublin, CA  
Project Number: G0C1W-0011  
Project Manager: Alok Kolekar

MPC0094  
Reported:  
03/31/06 13:17

### Volatile Organic Compounds by EPA Method 8260B

#### Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-2 (MPC0094-01) Water    Sampled: 03/02/06 12:50    Received: 03/02/06 17:40</b>									
tert-Amyl methyl ether	ND	2.5	ug/l	5	6C16003	03/16/06	03/16/06	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
<b>tert-Butyl alcohol</b>	<b>3300</b>	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	1500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>5.8</b>	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97 %	60-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %	70-120		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	65-130		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	70-120		"	"	"	"	
<b>MW-3 (MPC0094-02) Water    Sampled: 03/02/06 13:45    Received: 03/02/06 17:40</b>									
tert-Amyl methyl ether	ND	2.5	ug/l	5	6C16003	03/16/06	03/16/06	EPA 8260B	
<b>Benzene</b>	<b>4.0</b>	2.5	"	"	"	"	"	"	
<b>tert-Butyl alcohol</b>	<b>400</b>	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	1500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>24</b>	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %	60-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	70-120		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99 %	65-130		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %	70-120		"	"	"	"	



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

Project: ARCO #6041, Dublin, CA  
Project Number: G0C1W-0011  
Project Manager: Alok Kolekar

MPC0094  
Reported:  
03/31/06 13:17

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-8 (MPC0094-03) Water    Sampled: 03/02/06 13:20    Received: 03/02/06 17:40</b>									
tert-Amyl methyl ether	ND	2.5	ug/l	5	6C16003	03/16/06	03/16/06	EPA 8260B	
<b>Benzene</b>	<b>10</b>	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	200	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	1500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>4.4</b>	2.5	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>14</b>	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2.6</b>	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		60-135	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %		70-120	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %		65-130	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97 %		70-120	"	"	"	"	

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

Project: ARCO #6041, Dublin, CA  
Project Number: G0C1W-0011  
Project Manager: Alok Kolekar

MPC0094  
Reported:  
03/31/06 13:17

**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 6C16003 - EPA 5030B P/T / EPA 8260B**

**Blank (6C16003-BLK1)**

Prepared & Analyzed: 03/16/06

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	300	"							
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	"							
Surrogate: 1,2-Dichloroethane-d4	5.07		"	5.00		101	60-135			
Surrogate: Toluene-d8	5.24		"	5.00		105	70-120			
Surrogate: Dibromofluoromethane	4.92		"	5.00		98	65-130			
Surrogate: 4-Bromofluorobenzene	4.87		"	5.00		97	70-120			

**Laboratory Control Sample (6C16003-BS1)**

Prepared & Analyzed: 03/16/06

tert-Amyl methyl ether	15.7	0.50	ug/l	16.3		96	80-115			
Benzene	5.51	0.50	"	5.04		109	65-115			
tert-Butyl alcohol	144	20	"	169		85	75-150			
Di-isopropyl ether	17.2	0.50	"	16.2		106	75-125			
1,2-Dibromoethane (EDB)	16.3	0.50	"	16.6		98	85-120			
1,2-Dichloroethane	16.4	0.50	"	15.5		106	85-130			
Ethanol	135	300	"	165		82	70-135			
Ethyl tert-butyl ether	17.2	0.50	"	16.4		105	75-130			
Ethylbenzene	6.98	0.50	"	7.28		96	75-135			
Methyl tert-butyl ether	8.14	0.50	"	7.84		104	65-125			
Toluene	33.8	0.50	"	38.0		89	85-120			
Xylenes (total)	41.0	0.50	"	40.8		100	85-125			
Gasoline Range Organics (C4-C12)	421	50	"	440		96	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.01		"	5.00		100	60-135			
Surrogate: Toluene-d8	5.17		"	5.00		103	70-120			
Surrogate: Dibromofluoromethane	5.04		"	5.00		101	65-130			
Surrogate: 4-Bromofluorobenzene	4.90		"	5.00		98	70-120			

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: ARCO #6041, Dublin, CA  
Project Number: G0C1W-0011  
Project Manager: Alok Kolekar

MPC0094  
Reported:  
03/31/06 13:17

**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 6C16003 - EPA 5030B P/T / EPA 8260B**

<b>Matrix Spike (6C16003-MS1)</b>		<b>Source: MPC0094-01</b>		<b>Prepared &amp; Analyzed: 03/16/06</b>						
tert-Amyl methyl ether	77.2	2.5	ug/l	81.6	ND	95	80-115			
Benzene	26.4	2.5	"	25.2	ND	105	65-115			
tert-Butyl alcohol	3940	100	"	844	3300	76	75-120			
Di-isopropyl ether	82.7	2.5	"	81.2	ND	102	75-125			
1,2-Dibromoethane (EDB)	80.9	2.5	"	83.2	ND	97	85-120			
1,2-Dichloroethane	80.9	2.5	"	77.6	ND	104	85-130			
Ethanol	703	1500	"	824	ND	85	70-135			
Ethyl tert-butyl ether	83.6	2.5	"	82.0	ND	102	75-130			
Ethylbenzene	37.9	2.5	"	36.4	ND	104	75-135			
Methyl tert-butyl ether	44.8	2.5	"	39.2	5.8	99	65-125			
Toluene	174	2.5	"	190	0.90	91	85-120			
Xylenes (total)	217	2.5	"	204	ND	106	85-125			
Gasoline Range Organics (C4-C12)	2240	250	"	2200	88	98	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.88		"	5.00		98	60-135			
Surrogate: Toluene-d8	5.22		"	5.00		104	70-120			
Surrogate: Dibromofluoromethane	4.97		"	5.00		99	65-130			
Surrogate: 4-Bromofluorobenzene	5.14		"	5.00		103	70-120			

<b>Matrix Spike Dup (6C16003-MSD1)</b>		<b>Source: MPC0094-01</b>		<b>Prepared &amp; Analyzed: 03/16/06</b>						
tert-Amyl methyl ether	77.5	2.5	ug/l	81.6	ND	95	80-115	0.4	15	
Benzene	27.4	2.5	"	25.2	ND	109	65-115	4	20	
tert-Butyl alcohol	4530	100	"	844	3300	146	75-120	14	25	LM
Di-isopropyl ether	83.2	2.5	"	81.2	ND	102	75-125	0.6	15	
1,2-Dibromoethane (EDB)	81.3	2.5	"	83.2	ND	98	85-120	0.5	15	
1,2-Dichloroethane	79.7	2.5	"	77.6	ND	103	85-130	1	20	
Ethanol	861	1500	"	824	ND	104	70-135	20	35	
Ethyl tert-butyl ether	81.1	2.5	"	82.0	ND	99	75-130	3	25	
Ethylbenzene	37.0	2.5	"	36.4	ND	102	75-135	2	15	
Methyl tert-butyl ether	45.3	2.5	"	39.2	5.8	101	65-125	1	20	
Toluene	169	2.5	"	190	0.90	88	85-120	3	20	
Xylenes (total)	210	2.5	"	204	ND	103	85-125	3	20	
Gasoline Range Organics (C4-C12)	2160	250	"	2200	88	94	60-140	4	25	
Surrogate: 1,2-Dichloroethane-d4	5.09		"	5.00		102	60-135			
Surrogate: Toluene-d8	5.17		"	5.00		103	70-120			
Surrogate: Dibromofluoromethane	5.04		"	5.00		101	65-130			
Surrogate: 4-Bromofluorobenzene	4.95		"	5.00		99	70-120			

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: ARCO #6041, Dublin, CA  
Project Number: G0C1W-0011  
Project Manager: Alok Kolekar

MPC0094  
Reported:  
03/31/06 13:17

**Notes and Definitions**

LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).  
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



# SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS  
 REC. BY (PRINT) EB  
 WORKORDER: MPC 0004

DATE REC'D AT LAB: 3-2-04  
 TIME REC'D AT LAB: 1730  
 DATE LOGGED IN: 3-3-04

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERV ATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <u>Present</u> / Absent Intact / Broken*									
2. Chain-of-Custody <u>Present</u> / Absent*									
3. Traffic Reports or Packing List: <u>Present</u> / Absent									
4. Airbill: <u>Airbill</u> / Sticker <u>Present</u> / Absent									
5. Airbill #:									
6. Sample Labels: <u>Present</u> / Absent									
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody									
8. Sample Condition: <u>Intact</u> / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <u>Yes</u> / No*									
10. Sample received within hold time? <u>Yes</u> / No*									
11. Adequate sample volume received? <u>Yes</u> / No*									
12. Proper preservatives used? <u>Yes</u> / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <u>Yes</u> / No*									
14. Read Temp: <u>3.2</u> °C Corrected Temp: <u>3.2</u> °C Is corrected temp 4 +/-2°C? <u>Yes</u> / No**									

\*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 EDF](#) | [Check EDF](#)

### SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	4/4/2006 12:01:00 PM
<u>GLOBAL ID:</u>	T0600100109
<u>FILE UPLOADED:</u>	ARCO#6041-EDF- MPC0094.zip

No errors were found in your EDF upload file.

**If you want to submit this file to the SWRCB, choose the "Upload EDF" 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.

**ARCO # 06041**  
7249 VILLAGE PKWY  
DUBLIN, CA 94568

**Regional Board - Case #: 01-0117**  
SAN FRANCISCO BAY RWQCB (REGION 2)  
**Local Agency (lead agency) - Case #:**  
**RO0000452**  
ALAMEDA COUNTY LOP - (RWS)

### SAMPLE DETECTIONS REPORT

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

### METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	Y
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% Y

**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 &gt; 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:** 6562205195

**Date/Time of Submittal:** 4/4/2006 12:01:55 PM

**Facility Global ID:** T0600100109

**Facility Name:** ARCO # 06041

**Submittal Title:** 1Q 2006 QMR BP/ARCO 6041 EDF

**Submittal Type:** GW Monitoring Report

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

**ARCO # 06041**  
7249 VILLAGE PKWY  
DUBLIN, CA 94568

**Regional Board - Case #: 01-0117**  
SAN FRANCISCO BAY RWQCB (REGION 2)  
**Local Agency (lead agency) - Case #: RO0000452**  
ALAMEDA COUNTY LOP - (RWS)

CONF #	TITLE	QUARTER
6562205195	1Q 2006 QMR BP/ARCO 6041 EDF	Q1 2006
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	4/4/2006	PENDING REVIEW

### SAMPLE DETECTIONS REPORT

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

### METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	Y
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%	Y

### 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 &gt; 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](#)

### SUCCESSFUL GEO\_WELL CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	4/4/2006 11:49:08 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:** 1Q 2006 QMR BP/ARCO 6041  
GEOWELL

**Submittal Date/Time:** 4/4/2006 11:53:16 AM

**Confirmation**  
**Number:** 5742176651

**[Back to Main Menu](#)**

Logged in as URSCORP-OAKLAND  
(CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).