



Atlantic Richfield Company
(a BP affiliated company)

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

February 17, 2005

**Re: First Semi-Annual 2005 Groundwater Monitoring Report
ARCO Service Station #0771
899 Rincon Avenue
Livermore, California
URS Project #38487170**

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



February 17, 2005

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**Re: First Semi-Annual 2005 Groundwater Monitoring Report
ARCO Service Station #0771
899 Rincon Avenue
Livermore, California
URS Project #38487170**

Dear Mr. Shultz:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *First Semi-Annual 2005 Groundwater Monitoring Report* for ARCO Service Station #0771, located at 899 Rincon Avenue, Livermore, California.

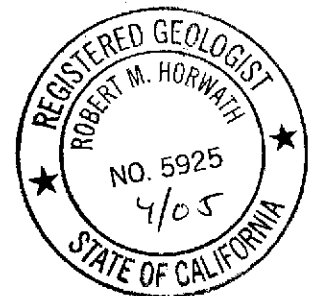
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

Robert Horwath, R.G.
Senior Geologist



Enclosure: First Semi-Annual 2005 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS
Paul M. Smith, Livermore-Pleasanton Fire Department, 3560 Nevada St., Pleasanton, CA 94566
Chuck Headlee, RWQCB, electronic copy uploaded to FTP site

February 15, 2005

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

Alameda County
Environmental Health
FEB 23 2005

RE: Electronic Report Submission

Dear Mr. Schultz:

The purpose of this letter is to inform you that on behalf of the Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) will issue all future quarterly monitoring reports (QMR) electronically to the State Water Resources Control Board's GEOTRACKER website (<http://www.geotracker.swrcb.ca.gov/>). You may access your report directly from this website. If you would prefer to have a PDF copy e-mailed to you or if you would like to continue receiving a paper copy, please contact Rick Murray at (510) 874-1755.

If you have any questions regarding this submission, please call me at (510) 874-3125.

Sincerely,

URS CORPORATION



Rachel Lindvall
QMR Coordinator

R E P O R T

**FIRST SEMI-ANNUAL 2005
GROUNDWATER MONITORING
REPORT**

ARCO SERVICE STATION #0771
899 RINCON AVENUE
LIVERMORE, CALIFORNIA

Prepared for
RM

February 17, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38487170

Date: February 17, 2005
Quarter: 1Q 05

RM SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility No.: 0771 Address: 899 Rincon Avenue, Livermore, California
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38487170
Primary Agency: Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (First – 2005):

1. Performed first quarter 2005 groundwater monitoring event on January 18, 2005.
2. Prepared and submitted this First Semi-Annual 2005 Groundwater Monitoring Report.

WORK PROPOSED FOR NEXT QUARTER (Second– 2005):

1. Prepare and submit second quarter 2005 status report.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Annual (3rd Qtr): MW-2, MW-5, MW-6, MW-11, VW-1
Semi-Annual (1st/3rd Qtr): MW-4, MW-7, RW-1
Frequency of Groundwater Monitoring: Semi-annual
Is Free Product (FP) Present On-Site: No
Cumulative FP Recovered to Date : 3.06 gallons, Wells MW-1, MW-2, and MW-5
FP Recovered This Quarter : None (FP was last recovered in 1992)
Bulk Soil Removed to Date : 1,700 cubic yards of TPH-impacted soil
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 20.64 (MW-9) to 26.76 (MW-8) feet
Groundwater Gradient (direction): North-Northeast
Groundwater Gradient (magnitude): 0.04 feet per foot

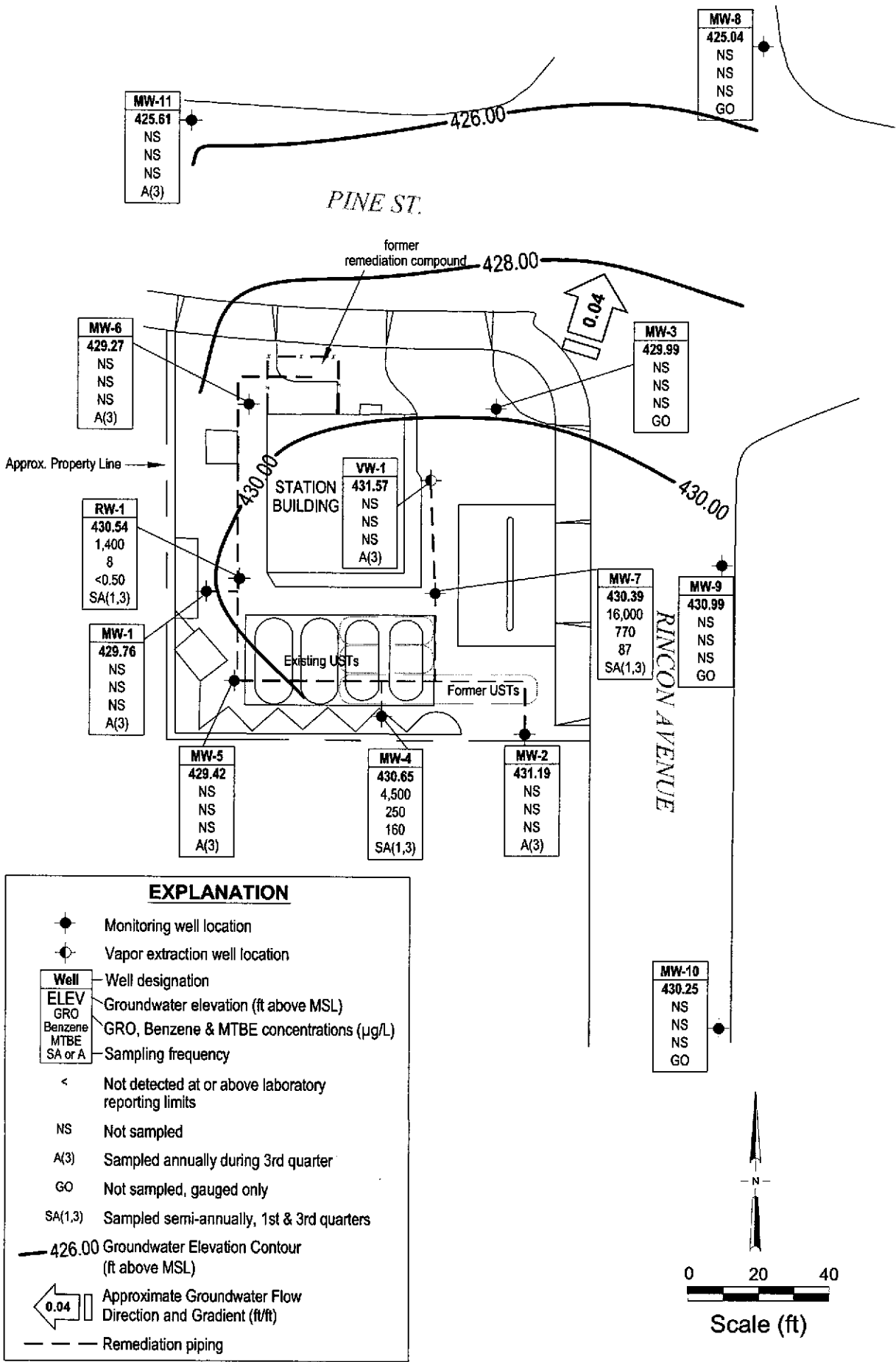
DISCUSSION:

Gasoline range organics (GRO) were detected at or above laboratory reporting limits in all three of the wells sampled this quarter at concentrations ranging from 1,400 µg/L (RW-1) to 16,000 µg/L (MW-7). Benzene was detected at or above laboratory reporting limits in three wells at concentrations ranging from 8.0 µg/L (RW-1) to 770 µg/L (MW-7). Methyl tert-butyl ether (MTBE) was detected at or above laboratory reporting limits in two wells at concentrations of 87 µg/L (MW-7) and 160 µg/L (MW-4). Tert-butyl alcohol (TBA) was detected at or above laboratory reporting limits in two wells at concentrations of 260 µg/L (MW-7) and 630 µg/L (MW-4).

ATTACHMENTS:

- **Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – January 18, 2005**
- **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 Confirmation**

Feb 18, 2005 - 12:29pm
K:\x_empt_waste\BP_GEM\sites\Scot_Robinson\Paul_Supple\0771\Monitoring\Qtr_1_2005\Drawings\771-1\Q05-GW.dwg



Project No. 38487170
ARCO Service Station #0771
899 Rincon Avenue
Livermore, California

**GROUNDWATER ELEVATION CONTOUR
 AND ANALYTICAL SUMMARY MAP**
First Quarter 2005 (January 18, 2005)

FIGURE
1

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #0771
 899 Rincon Ave., Livermore, 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	3/20/1995	--		451.73	32.00	41.00	24.50	427.23	90,000	1,800	1,100	1,000	5,600	--	--	--
	6/2/1995	--		451.73	32.00	41.00	25.60	426.13	81,000	2,000	1,400	990	4,600	--	--	--
	8/23/1995	--		451.73	32.00	41.00	29.04	422.69	44,000	2,400	1,900	670	3,800	<300	--	--
	12/4/1995	--		451.73	32.00	41.00	31.31	420.42	22,000	870	660	390	2,200	--	--	--
	2/20/1996	--		451.73	32.00	41.00	22.26	429.47	21,000	1,500	1,200	650	3,500	<300	--	--
	5/15/1996	--		451.73	32.00	41.00	23.42	428.31	36,000	3,000	2,500	960	5,700	<250	--	--
	8/13/1996	--		451.73	32.00	41.00	26.83	424.90	19,000	730	580	450	2,500	<200	--	--
	11/13/1996	--		451.73	32.00	41.00	31.05	420.68	6,600	47	16	74	160	<30	--	--
	3/26/1997	--		451.73	32.00	41.00	26.29	425.44	1,900	100	55	37	200	<30	--	--
	5/15/1997	--		451.73	32.00	41.00	28.65	423.08	16,000	490	250	250	1,100	<120	--	--
	8/26/1997	--		451.73	32.00	41.00	31.53	420.20	190	6.7	3	6.3	25	<3	--	--
	11/5/1997	--		451.73	32.00	41.00	33.93	417.80	63	0.5	<0.5	0.8	2.4	29	--	--
	2/18/1998	--		451.73	32.00	41.00	20.46	431.27	23,000	1,500	610	550	3,000	<120	--	--
	5/20/1998	--		451.73	32.00	41.00	23.84	427.89	50,000	4,400	1,900	1,400	80,000	<300	--	--
	7/30/1998	P		451.73	32.00	41.00	26.94	424.79	150	<0.5	<0.5	<0.5	1.6	<3	8.74	--
	10/29/1998	NP		451.73	32.00	41.00	32.58	419.15	<50	<0.5	<0.5	<0.5	1.8	<3	2.0	--
	3/16/1999	P		451.73	32.00	41.00	26.20	425.53	3,200	160	32	89	390	270	2.0	--
	5/5/1999	P		451.73	32.00	41.00	27.57	424.16	3,600	140	46	76	290	170	11.65	--
	8/26/1999	P		451.73	32.00	41.00	30.25	421.48	3,200	210	29	100	220	120	1.43	--
	12/3/1999	NP		451.73	32.00	41.00	32.70	419.03	53	<0.5	<0.5	<0.5	1	<3	2.12	--
	3/13/2000	P		451.73	32.00	41.00	24.45	427.28	<50	<0.5	<0.5	<0.5	<1	<3	5.81	--
	6/20/2000	--	b	451.73	32.00	41.00	--	--	67.4	3.88	<0.500	1.78	1.48	<2.50	--	--
	6/20/2000	P		451.73	32.00	41.00	27.79	423.94	356	40.1	7.17	11.9	22.7	<2.50	5.1	--
	8/31/2000	--		451.73	32.00	41.00	30.35	421.38	--	--	--	--	--	--	--	--
	2/9/2001	--		451.73	32.00	41.00	30.95	420.78	--	--	--	--	--	--	--	--
	9/17/2001	--		451.73	32.00	41.00	30.85	420.88	--	--	--	--	--	--	--	--
	1/21/2002	--		451.73	32.00	41.00	30.61	421.12	--	--	--	--	--	--	--	--
	7/19/2002	--		451.73	32.00	41.00	31.55	420.18	--	--	--	--	--	--	--	--
	1/15/2003	--		451.73	32.00	41.00	22.99	428.74	--	--	--	--	--	--	--	--
	7/9/2003	--		451.73	32.00	41.00	30.35	421.38	--	--	--	--	--	--	--	--
	02/19/2004	--		451.73	32.00	41.00	26.24	425.49	--	--	--	--	--	--	--	--
	08/04/2004	--		454.23	32.00	41.00	26.36	427.87	--	--	--	--	--	--	--	--
	01/18/2005	--		454.23	32.00	41.00	24.47	429.76	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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	3/20/1995	--		449.49	30.00	38.00	20.27	429.22	54,000	2,600	1,600	1,200	7,600	--	--	--
	6/2/1995	--		449.49	30.00	38.00	22.32	427.17	37,000	2,200	800	980	4,800	--	--	--
	8/23/1995	--		449.49	30.00	38.00	25.69	423.80	65,000	1,100	310	840	3,000	<500	--	--
	12/4/1995	--		449.49	30.00	38.00	28.52	420.97	19,000	680	150	410	1,600	--	--	--
	2/20/1996	--		449.49	30.00	38.00	19.00	430.49	22,000	1,200	240	590	2,200	<300	--	--
	5/15/1996	--		449.49	30.00	38.00	20.03	429.46	25,000	1,200	240	610	2,100	<300	--	--
	8/13/1996	--		449.49	30.00	38.00	24.44	425.05	19,000	640	110	420	1,200	<300	--	--
	11/13/1996	--		449.49	30.00	38.00	28.42	421.07	15,000	260	52	220	640	<200	--	--
	3/26/1997	--		449.49	30.00	38.00	22.98	426.51	17,000	580	120	360	980	<120	--	--
	5/15/1997	--		449.49	30.00	38.00	25.40	424.09	18,000	420	63	340	730	<120	--	--
	8/26/1997	--		449.49	30.00	38.00	28.38	421.11	5,300	210	26	140	270	<120	--	--
	11/5/1997	--		449.49	30.00	38.00	31.93	417.56	560	42	2.6	7	9	<40	--	--
	2/18/1998	--		449.49	30.00	38.00	16.87	432.62	18,000	710	120	480	1,100	130	--	--
	5/20/1998	--		449.49	30.00	38.00	20.29	429.20	16,000	480	72	440	1,100	<120	--	--
	7/30/1998	P		449.49	30.00	38.00	23.51	425.98	9,700	240	33	210	490	<120	9.21	--
	10/29/1998	NP		449.49	30.00	38.00	30.08	419.41	58	<0.5	<0.5	<0.5	1.2	<3	1.0	--
	3/16/1999	P		449.49	30.00	38.00	23.22	426.27	4,700	120	13	90	220	60	2.0	--
	5/5/1999	P		449.49	30.00	38.00	24.05	425.44	5,500	58	7.1	58	98	17	9.09	--
	8/26/1999	P		449.49	30.00	38.00	26.44	423.05	3,700	55	11	60	64	26	1.9	--
	12/3/1999	NP		449.49	30.00	38.00	30.15	419.34	130	<0.5	<0.5	0.7	1.8	<3	1.96	--
	3/13/2000	P		449.49	30.00	38.00	20.68	428.81	<50	<0.5	<0.5	<0.5	<1	<3	--	--
	6/20/2000	P		449.49	30.00	38.00	23.08	426.41	226	2.2	<0.500	4.83	7.88	<2.50	4.9	--
	8/31/2000	P		449.49	30.00	38.00	26.71	422.78	87.1	1.78	<0.500	1.33	1.15	<2.50	1.59	--
	2/9/2001	--		449.49	30.00	38.00	29.65	419.84	--	--	--	--	--	--	--	--
	9/17/2001	P		449.49	30.00	38.00	27.62	421.87	3,100	300	12	8.8	18	120	1.7	--
	1/21/2002	--		449.49	30.00	38.00	27.09	422.40	--	--	--	--	--	--	--	--
	7/19/2002	P	a	449.49	30.00	38.00	27.82	421.67	4,700	280	13	120	19	16	0.8	7.4
	1/15/2003	--		449.49	30.00	38.00	22.18	427.31	--	--	--	--	--	--	--	--
	7/9/2003	--		449.49	30.00	38.00	26.40	423.09	3,900	170	<5.0	100	19	39	2.5	7.0
	02/19/2004	--		449.49	30.00	38.00	23.85	425.64	--	--	--	--	--	--	--	--
	08/04/2004	P		452.05	30.00	38.00	24.71	427.34	5,400	650	21	160	56	78	0.8	7.2
	01/18/2005	--		452.05	30.00	38.00	20.86	431.19	--	--	--	--	--	--	--	--
MW-3	3/20/1995	--		450.28	32.00	40.00	22.19	428.09	94	<0.5	<0.5	<0.5	<0.5	--	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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	6/2/1995	--		450.28	32.00	40.00	23.28	427.00	72	<0.5	<0.5	<0.5	<0.5	--	--	--
	8/23/1995	--		450.28	32.00	40.00	26.55	423.73	98	<0.5	<0.5	<0.6	0.5	<3	--	--
	12/4/1995	--		450.28	32.00	40.00	29.52	420.76	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	2/20/1996	--		450.28	32.00	40.00	19.83	430.45	130	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1996	--		450.28	32.00	40.00	21.03	429.25	120	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
	8/13/1996	--		450.28	32.00	40.00	25.67	424.61	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/13/1996	--		450.28	32.00	40.00	21.57	428.71	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	3/26/1997	--		450.28	32.00	40.00	24.15	426.13	<50	1.1	<0.5	<0.5	<0.5	<3	--	--
	5/15/1997	--		450.28	32.00	40.00	26.85	423.43	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	8/26/1997	--		450.28	32.00	40.00	30.07	420.21	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/5/1997	--		450.28	32.00	40.00	32.46	417.82	<50	<0.5	0.7	<0.5	<0.5	<3	--	--
	2/18/1998	--		450.28	32.00	40.00	17.82	432.46	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/20/1998	--		450.28	32.00	40.00	21.41	428.87	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	7/30/1998	P		450.28	32.00	40.00	26.41	423.87	<50	<0.5	<0.5	<0.5	<0.5	<3	9.56	--
	10/29/1998	P		450.28	32.00	40.00	31.33	418.95	<50	<0.5	<0.5	<0.5	<0.5	<3	1.0	--
	3/16/1999	P		450.28	32.00	40.00	24.61	425.67	<50	<0.5	<0.5	<0.5	<0.5	<3	1.0	--
	5/5/1999	P		450.28	32.00	40.00	25.75	424.53	140	<0.5	<0.5	0.6	<0.5	<3	4.43	--
	8/26/1999	P		450.28	32.00	40.00	28.49	421.79	80	0.6	0.6	0.6	1	<3	1.69	--
	12/3/1999	P		450.28	32.00	40.00	31.45	418.83	<50	<0.5	<0.5	<0.5	<1	<3	2.26	--
	3/13/2000	P		450.28	32.00	40.00	22.18	428.10	<50	<0.5	<0.5	<0.5	<1	<3	4.41	--
	6/20/2000	P		450.28	32.00	40.00	26.03	424.25	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	2.3	--
	8/31/2000	--		450.28	32.00	40.00	28.75	421.53	--	--	--	--	--	--	--	--
	2/9/2001	--		450.28	32.00	40.00	31.04	419.24	--	--	--	--	--	--	--	--
	9/17/2001	--		450.28	32.00	40.00	29.04	421.24	--	--	--	--	--	--	--	--
	1/21/2002	--		450.28	32.00	40.00	28.81	421.47	--	--	--	--	--	--	--	--
	7/19/2002	--		450.28	32.00	40.00	28.92	421.36	--	--	--	--	--	--	--	--
	1/15/2003	--		450.28	32.00	40.00	22.88	427.40	--	--	--	--	--	--	--	--
	7/9/2003	--		450.28	32.00	40.00	28.00	422.28	--	--	--	--	--	--	--	--
	02/19/2004	--		450.28	32.00	40.00	25.29	424.99	--	--	--	--	--	--	--	--
	08/04/2004	--		452.75	32.00	40.00	27.40	425.35	--	--	--	--	--	--	--	--
	01/18/2005	--		452.75	32.00	40.00	22.76	429.99	--	--	--	--	--	--	--	--
MW-4	3/20/1995	--		451.09	26.00	42.00	22.68	428.41	12,000	1,000	100	450	700	--	--	--
	6/2/1995	--		451.09	26.00	42.00	24.41	426.68	9,000	850	56	380	430	--	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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	8/23/1995	--		451.09	26.00	42.00	27.72	423.37	5,300	400	25	240	170	<100	--	--
	12/4/1995	--		451.09	26.00	42.00	29.85	421.24	6,700	100	<10	90	38	--	--	--
	2/20/1996	--		451.09	26.00	42.00	21.16	429.93	7,000	360	22	180	160	<70	--	--
	5/15/1996	--		451.09	26.00	42.00	22.18	428.91	--	--	--	--	--	--	--	--
	8/13/1996	--		451.09	26.00	42.00	26.20	424.89	--	--	--	--	--	--	--	--
	11/13/1996	--		451.09	26.00	42.00	29.72	421.37	--	--	--	--	--	--	--	--
	3/26/1997	--		451.09	26.00	42.00	21.86	429.23	8,900	390	33	200	250	<70	--	--
	5/15/1997	--		451.09	26.00	42.00	26.92	424.17	--	--	--	--	--	--	--	--
	8/26/1997	--		451.09	26.00	42.00	29.30	421.79	--	--	--	--	--	--	--	--
	11/5/1997	--		451.09	26.00	42.00	32.14	418.95	--	--	--	--	--	--	--	--
	2/18/1998	--		451.09	26.00	42.00	19.30	431.79	5,300	220	19	160	130	120	--	--
	5/20/1998	--		451.09	26.00	42.00	22.40	428.69	--	--	--	--	--	--	--	--
	7/30/1998	--		451.09	26.00	42.00	25.74	425.35	--	--	--	--	--	--	--	--
	10/29/1998	--		451.09	26.00	42.00	31.26	419.83	--	--	--	--	--	--	--	--
	3/16/1999	P		451.09	26.00	42.00	25.05	426.04	1,900	49	<5	43	<5	82	1.5	--
	5/5/1999	--		451.09	26.00	42.00	26.15	424.94	--	--	--	--	--	--	--	--
	8/26/1999	--		451.09	26.00	42.00	28.60	422.49	--	--	--	--	--	--	1.43	--
	12/3/1999	--		451.09	26.00	42.00	31.53	419.56	--	--	--	--	--	--	--	--
	3/13/2000	P		451.09	26.00	42.00	23.61	427.48	<50	<0.5	<0.5	<0.5	<1	<3	3.82	--
	6/20/2000	--		451.09	26.00	42.00	26.38	424.71	--	--	--	--	--	--	0.4	--
	8/31/2000	NP		451.09	26.00	42.00	29.55	421.54	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.04	--
	2/9/2001	NP		451.09	26.00	42.00	30.30	420.79	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.39	--
	9/17/2001	NP		451.09	26.00	42.00	29.90	421.19	3,400	51	<5.0	16	23	360	0.92	--
	1/21/2002	NP		451.09	26.00	42.00	29.51	421.58	1,900	140	12	27	48	300	1.03	--
	7/19/2002	NP	a	451.09	26.00	42.00	30.77	420.32	2,700	150	9.9	<5.0	<5.0	130	1.0	7.3
	1/15/2003	--	a	451.09	26.00	42.00	23.56	427.53	4,800	150	5.3	28	46	150	1.3	7.0
	7/9/2003	--		451.09	26.00	42.00	29.50	421.59	3,000	210	9.4	6	20	150	2.0	6.9
	02/19/2004	P	c	451.09	26.00	42.00	26.35	424.74	4,800	270	11	25	19	180	1.8	6.2
	08/04/2004	NP		453.80	26.00	42.00	26.48	427.32	4,200	410	13	49	59	300	0.7	6.7
	01/18/2005	P		453.80	26.00	42.00	23.15	430.65	4,500	250	9.5	62	22	160	1.2	6.9
MW-5	3/20/1995	--		451.40	31.50	41.00	23.20	428.20	26,000	1,300	180	890	2,900	--	--	--
	6/2/1995	--		451.40	31.50	41.00	24.80	426.60	39,000	940	160	740	1,900	--	--	--
	8/23/1995	--		451.40	31.50	41.00	28.10	423.30	14,000	490	74	250	890	<300	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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	12/4/1995	--		451.40	31.50	41.00	29.83	421.57	7,600	230	13	61	80	--	--	--
	2/20/1996	--		451.40	31.50	41.00	21.63	429.77	4,300	220	12	45	130	<50	--	--
	5/15/1996	--		451.40	31.50	41.00	22.87	428.53	2,200	380	17	58	84	<40	--	--
	8/13/1996	--		451.40	31.50	41.00	26.48	424.92	1,700	150	16	24	35	47	--	--
	11/13/1996	--		451.40	31.50	41.00	29.68	421.72	850	150	11	19	37	66	--	--
	3/26/1997	--		451.40	31.50	41.00	25.14	426.26	2,400	440	21	79	210	68	--	--
	5/15/1997	--		451.40	31.50	41.00	27.38	424.02	3,900	510	19	140	240	48	--	--
	8/26/1997	--		451.40	31.50	41.00	29.89	421.51	76	4.9	<0.5	1.5	2	9	--	--
	11/5/1997	--		451.40	31.50	41.00	32.57	418.83	63	0.8	<0.5	<0.5	1.2	34	--	--
	2/18/1998	--		451.40	31.50	41.00	19.99	431.41	6,200	630	70	320	640	320	--	--
	5/20/1998	--		451.40	31.50	41.00	23.21	428.19	2,300	340	21	110	140	62	--	--
	7/30/1998	P		451.40	31.50	41.00	26.19	425.21	<50	0.8	<0.5	0.6	0.9	<3	8.83	--
	10/29/1998	NP		451.40	31.50	41.00	31.92	419.48	<50	<0.5	<0.5	<0.5	<0.5	<3	2.0	--
	3/16/1999	P		451.40	31.50	41.00	25.80	425.60	1,300	170	8	59	65	120	2.0	--
	5/5/1999	P		451.40	31.50	41.00	27.09	424.31	320	31	1.1	13	13	19	12.09	--
	8/26/1999	P		451.40	31.50	41.00	29.67	421.73	260	13	1.7	4.2	6.3	150	1.31	--
	12/3/1999	--	d	451.40	31.50	41.00	--	--	--	--	--	--	--	--	--	--
	3/13/2000	P		451.40	31.50	41.00	24.51	426.89	<50	<0.5	<0.5	<0.5	<1	<3	4.41	--
	6/20/2000	P		451.40	31.50	41.00	27.37	424.03	60.8	4.84	<0.500	1.9	1.59	<2.50	5.3	--
	8/31/2000	P		451.40	31.50	41.00	30.21	421.19	<50.0	1.18	<0.500	<0.500	<0.500	3.83	0.97	--
	2/9/2001	--		451.40	31.50	41.00	30.19	421.21	--	--	--	--	--	--	--	--
	9/17/2001	P		451.40	31.50	41.00	30.71	420.69	2,700	120	10	90	77	330	0.81	--
	1/21/2002	--		451.40	31.50	41.00	30.40	421.00	--	--	--	--	--	--	--	--
	7/19/2002	P	a	451.40	31.50	41.00	31.93	419.47	1,600	170	7	120	<5.0	180	1.7	7.2
	1/15/2003	--		451.40	31.50	41.00	23.12	428.28	--	--	--	--	--	--	--	--
	7/9/2003	--		451.40	31.50	41.00	30.95	420.45	2,000	160	5.7	67	27	260	1.5	6.9
	02/19/2004	--		451.40	31.50	41.00	26.73	424.67	--	--	--	--	--	--	--	--
	08/04/2004	P		453.52	31.50	41.00	26.61	426.91	2,100	250	5.3	73	22	250	2.7	7.0
	01/18/2005	--		453.52	31.50	41.00	24.10	429.42	--	--	--	--	--	--	--	--
MW-6	3/20/1995	--		451.37	32.00	42.00	25.19	426.18	2,600	210	87	82	140	--	--	--
	6/2/1995	--		451.37	32.00	42.00	25.75	425.62	1,600	55	7.9	40	26	--	--	--
	8/23/1995	--		451.37	32.00	42.00	29.53	421.84	1,400	42	2.5	36	13	<20	--	--
	12/4/1995	--		451.37	32.00	42.00	32.28	419.09	2,500	52	5.8	59	13	--	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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	2/20/1996	--		451.37	32.00	42.00	22.27	429.10	2,500	120	16	73	12	<30	--	--
	5/15/1996	--		451.37	32.00	42.00	23.86	427.51	2,000	71	6.4	47	25	<15	--	--
	8/13/1996	--		451.37	32.00	42.00	28.55	422.82	3,800	91	8.2	69	25	<20	--	--
	11/13/1996	--		451.37	32.00	42.00	32.04	419.33	1,900	55	3.3	55	8.5	16	--	--
	3/26/1997	--		451.37	32.00	42.00	26.84	424.53	1,800	51	5	32	15	<30	--	--
	5/15/1997	--		451.37	32.00	42.00	29.58	421.79	2,400	46	3	29	9	<12	--	--
	8/26/1997	--		451.37	32.00	42.00	32.67	418.70	1,400	61	6	33	10	<12	--	--
	11/5/1997	--		451.37	32.00	42.00	34.62	416.75	690	29	2.7	18	3.4	9	--	--
	2/18/1998	--		451.37	32.00	42.00	20.09	431.28	1,800	74	5	24	12	19	--	--
	5/20/1998	--		451.37	32.00	42.00	24.05	427.32	1,900	280	4	31	16	9	--	--
	7/30/1998	P		451.37	32.00	42.00	28.72	422.65	2,300	110	7	36	20	<15	--	--
	10/29/1998	P		451.37	32.00	42.00	32.77	418.60	2,500	14	13	17	12	<12	1.0	--
	3/16/1999	P		451.37	32.00	42.00	26.45	424.92	1,200	65	4	27	13	18	0.5	--
	5/5/1999	P		451.37	32.00	42.00	27.86	423.51	2,200	53	4	26	6	25	5.59	--
	8/26/1999	P		451.37	32.00	42.00	30.49	420.88	1,100	11	6	10	4	13	2.35	--
	12/3/1999	P		451.37	32.00	42.00	32.35	419.02	370	<0.5	<0.5	0.8	<1	4	2.36	--
	3/13/2000	P		451.37	32.00	42.00	28.36	423.01	54	2.1	0.5	0.9	1.4	<3	4.22	--
	6/20/2000	P		451.37	32.00	42.00	28.35	423.02	195	1.83	<0.500	0.528	<0.500	<2.50	3.5	--
	8/31/2000	P		451.37	32.00	42.00	30.20	421.17	276	3.52	0.788	1.15	0.621	8.73	7.0	--
	2/9/2001	--	b	451.37	32.00	42.00	--	--	222	4.49	2.73	0.579	0.523	57.1	--	--
	2/9/2001	P		451.37	32.00	42.00	30.70	420.67	253	5.44	2.93	0.924	0.977	48.9	0.59	--
	9/17/2001	--	b	451.37	32.00	42.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	9/17/2001	P		451.37	32.00	42.00	30.94	420.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.79	--
	1/21/2002	P		451.37	32.00	42.00	30.55	420.82	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.9	--
	7/19/2002	P	a	451.37	32.00	42.00	30.27	421.10	60	2	<0.50	<0.50	<0.50	<0.50	3.5	7.9
	1/15/2003	--	a	451.37	32.00	42.00	22.86	428.51	83	9.1	<0.50	3.4	4.6	1	2.5	7.2
	7/9/2003	P		451.37	32.00	42.00	29.41	421.96	110	<0.50	<0.50	<0.50	<0.50	0.98	2.6	7.1
	02/19/2004	--		451.37	32.00	42.00	43.25	408.12	--	--	--	--	--	--	--	--
	08/04/2004	P		453.83	32.00	42.00	27.71	426.12	540	36	3.8	17	24	5.2	3.5	7.1
	01/18/2005	--		453.83	32.00	42.00	24.56	429.27	--	--	--	--	--	--	--	--
MW-7	3/20/1995	--		450.33	30.00	40.00	22.07	428.26	31,000	2,300	400	620	2,900	--	--	--
	6/2/1995	--		450.33	30.00	40.00	23.42	426.91	40,000	1,400	280	610	2,400	--	--	--
	8/23/1995	--		450.33	30.00	40.00	27.13	423.20	25,000	1,400	200	600	1,600	350	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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	12/4/1995	--		450.33	30.00	40.00	29.45	420.88	23,000	1,100	74	490	720	--	--	--	
	2/20/1996	--		450.33	30.00	40.00	20.25	430.08	39,000	1,200	140	640	1,800	<400	--	--	
	5/15/1996	--		450.33	30.00	40.00	21.38	428.95	--	--	--	--	--	--	--	--	
	8/13/1996	--		450.33	30.00	40.00	25.52	424.81	--	--	--	--	--	--	--	--	
	11/13/1996	--		450.33	30.00	40.00	29.38	420.95	--	--	--	--	--	--	--	--	
	3/26/1997	--		450.33	30.00	40.00	24.36	425.97	35,000	1,100	180	460	1,700	<300	--	--	
	5/15/1997	--		450.33	30.00	40.00	26.90	423.43	--	--	--	--	--	--	--	--	
	8/26/1997	--		450.33	30.00	40.00	30.21	420.12	--	--	--	--	--	--	--	--	
	11/5/1997	--		450.33	30.00	40.00	32.49	417.84	--	--	--	--	--	--	--	--	
	2/18/1998	--		450.33	30.00	40.00	18.10	432.23	19,000	1,100	120	460	1,700	240	--	--	
	5/20/1998	--		450.33	30.00	40.00	21.68	428.65	--	--	--	--	--	--	--	--	
	7/30/1998	--		450.33	30.00	40.00	26.07	424.26	--	--	--	--	--	--	--	--	
	10/29/1998	--		450.33	30.00	40.00	31.13	419.20	--	--	--	--	--	--	--	--	
	3/16/1999	P		450.33	30.00	40.00	24.45	425.88	8,600	430	51	200	680	<120	1.5	--	
	5/5/1999	--		450.33	30.00	40.00	25.84	424.49	--	--	--	--	--	--	--	--	
	8/26/1999	--		450.33	30.00	40.00	28.28	422.05	--	--	--	--	--	--	1.51	--	
	12/3/1999	--		450.33	30.00	40.00	31.57	418.76	--	--	--	--	--	--	--	--	
	3/13/2000	--	d		450.33	30.00	40.00	--	--	--	--	--	--	--	--	--	--
	6/20/2000	--			450.33	30.00	40.00	25.91	424.42	--	--	--	--	--	--	5.4	--
	8/31/2000	--			450.33	30.00	40.00	28.40	421.93	8,410	344	58.9	276	581	202	0.09	--
2/9/2001	--			450.33	30.00	40.00	30.04	420.29	2,030	203	12	17.9	49.4	128	1.55	--	
9/17/2001	P			450.33	30.00	40.00	29.03	421.30	4,800	200	14	9.9	27	160	0.29	--	
1/21/2002	--	b		450.33	30.00	40.00	--	--	2,600	280	17	41	50	97	--	--	
1/21/2002	P			450.33	30.00	40.00	28.98	421.35	4,200	350	20	52	63	99	0.81	--	
7/19/2002	P	a		450.33	30.00	40.00	28.70	421.63	5,700	630	31	330	160	64	0.7	7.3	
1/15/2003	--	a		450.33	30.00	40.00	21.91	428.42	12,000	470	19	340	310	91	1.5	7.0	
7/9/2003	P			450.33	30.00	40.00	27.88	422.45	6,700	590	23	280	92	110	1.0	6.9	
02/19/2004	P	c		450.33	30.00	40.00	25.12	425.21	8,900	670	24	470	120	100	0.8	6.6	
08/04/2004	P			452.70	30.00	40.00	25.92	426.78	9,100	930	29	460	130	140	0.6	7.2	
01/18/2005	P			452.70	30.00	40.00	22.31	430.39	16,000	770	33	590	220	87	1.0	6.9	
MW-8	3/20/1995	--		449.43	27.50	42.50	24.75	424.68	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
	6/2/1995	--		449.43	27.50	42.50	24.95	424.48	--	--	--	--	--	--	--	--	
	8/23/1995	--		449.43	27.50	42.50	30.94	418.49	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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-8	12/4/1995	--		449.43	27.50	42.50	31.99	417.44	--	--	--	--	--	--	--	--	
	2/20/1996	--		449.43	27.50	42.50	21.13	428.30	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
	5/15/1996	--		449.43	27.50	42.50	21.96	427.47	--	--	--	--	--	--	--	--	
	8/13/1996	--		449.43	27.50	42.50	30.20	419.23	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
	11/13/1996	--		449.43	27.50	42.50	33.24	416.19	--	--	--	--	--	--	--	--	
	3/26/1997	--		449.43	27.50	42.50	26.85	422.58	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
	5/15/1997	--		449.43	27.50	42.50	29.69	419.74	--	--	--	--	--	--	--	--	
	8/26/1997	--		449.43	27.50	42.50	34.00	415.43	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
	11/5/1997	--		449.43	27.50	42.50	35.94	413.49	--	--	--	--	--	--	--	--	
	2/18/1998	--		449.43	27.50	42.50	18.18	431.25	<50	0.6	0.6	<0.5	1.1	<3	--	--	
	5/20/1998	--		449.43	27.50	42.50	22.85	426.58	--	--	--	--	--	--	--	--	
	7/30/1998	NP		449.43	27.50	42.50	30.31	419.12	<50	<0.5	<0.5	<0.5	<0.5	<3	8.21	--	
	10/29/1998	--		449.43	27.50	42.50	35.88	413.55	--	--	--	--	--	--	--	--	
	3/16/1999	NP		449.43	27.50	42.50	28.50	420.93	<50	<0.5	<0.5	<0.5	<0.5	<3	1.0	--	
	5/5/1999	--		449.43	27.50	42.50	29.76	419.67	--	--	--	--	--	--	--	--	
	8/26/1999	P		449.43	27.50	42.50	33.51	415.92	<50	<0.5	<0.5	<0.5	<0.5	<3	4.93	--	
	12/3/1999	--		449.43	27.50	42.50	35.83	413.60	--	--	--	--	--	--	--	--	
	3/13/2000	P		449.43	27.50	42.50	26.12	423.31	<50	<0.5	<0.5	<0.5	<1	<3	2.81	--	
	6/20/2000	--		449.43	27.50	42.50	30.91	418.52	--	--	--	--	--	--	--	5.8	--
	8/31/2000	--		449.43	27.50	42.50	33.70	415.73	--	--	--	--	--	--	--	--	--
2/9/2001	--		449.43	27.50	42.50	30.90	418.53	--	--	--	--	--	--	--	--	--	
9/17/2001	--		449.43	27.50	42.50	33.95	415.48	--	--	--	--	--	--	--	--	--	
1/21/2002	--		449.43	27.50	42.50	33.71	415.72	--	--	--	--	--	--	--	--	--	
7/19/2002	--		449.43	27.50	42.50	35.30	414.13	--	--	--	--	--	--	--	--	--	
1/15/2003	--		449.43	27.50	42.50	27.10	422.33	--	--	--	--	--	--	--	--	--	
7/9/2003	--		449.43	27.50	42.50	33.10	416.33	--	--	--	--	--	--	--	--	--	
02/19/2004	--		449.43	27.50	42.50	28.92	420.51	--	--	--	--	--	--	--	--	--	
08/04/2004	--		449.43	27.50	42.50	34.28	417.52	--	--	--	--	--	--	--	--	--	
01/18/2005	--		449.43	27.50	42.50	26.76	425.04	--	--	--	--	--	--	--	--	--	
MW-9	3/20/1995	--		449.21	29.50	39.50	19.11	430.10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
	6/2/1995	--		449.21	29.50	39.50	21.23	427.98	--	--	--	--	--	--	--	--	
	8/23/1995	--		449.21	29.50	39.50	24.33	424.88	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
	12/4/1995	--		449.21	29.50	39.50	27.90	421.31	--	--	--	--	--	--	--	--	

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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-9	2/20/1996	--		449.21	29.50	39.50	17.86	431.35	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1996	--		449.21	29.50	39.50	18.69	430.52	--	--	--	--	--	--	--	--
	8/13/1996	--		449.21	29.50	39.50	24.17	425.04	--	--	--	--	--	--	--	--
	11/13/1996	--		449.21	29.50	39.50	28.01	421.20	--	--	--	--	--	--	--	--
	3/26/1997	--		449.21	29.50	39.50	22.58	426.63	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1997	--		449.21	29.50	39.50	25.12	424.09	--	--	--	--	--	--	--	--
	8/26/1997	--		449.21	29.50	39.50	28.28	420.93	--	--	--	--	--	--	--	--
	11/5/1997	--		449.21	29.50	39.50	31.18	418.03	--	--	--	--	--	--	--	--
	2/18/1998	--		449.21	29.50	39.50	16.03	433.18	<50	0.6	0.5	<0.5	1	<3	--	--
	5/20/1998	--		449.21	29.50	39.50	19.31	429.90	--	--	--	--	--	--	--	--
	7/30/1998	--		449.21	29.50	39.50	24.90	424.31	--	--	--	--	--	--	--	--
	10/29/1998	--		449.21	29.50	39.50	30.08	419.13	--	--	--	--	--	--	--	--
	3/16/1999	P		449.21	29.50	39.50	22.68	426.53	<50	<0.5	<0.5	<0.5	<0.5	<3	1.0	--
	5/5/1999	--		449.21	29.50	39.50	23.82	425.39	--	--	--	--	--	--	--	--
	8/26/1999	--		449.21	29.50	39.50	26.57	422.64	--	--	--	--	--	--	5.08	--
	12/3/1999	--	d	449.21	29.50	39.50	--	--	--	--	--	--	--	--	--	--
	3/13/2000	P		449.21	29.50	39.50	25.62	423.59	<50	<0.5	<0.5	<0.5	<1	<3	5.43	--
	6/20/2000	--		449.21	29.50	39.50	23.55	425.66	--	--	--	--	--	--	6.2	--
	8/31/2000	--		449.21	29.50	39.50	27.39	421.82	--	--	--	--	--	--	--	--
	2/9/2001	--		449.21	29.50	39.50	28.65	420.56	--	--	--	--	--	--	--	--
	9/17/2001	--		449.21	29.50	39.50	27.51	421.70	--	--	--	--	--	--	--	--
	1/21/2002	--		449.21	29.50	39.50	27.09	422.12	--	--	--	--	--	--	--	--
	7/19/2002	--		449.21	29.50	39.50	27.06	422.15	--	--	--	--	--	--	--	--
	1/15/2003	--		449.21	29.50	39.50	21.78	427.43	--	--	--	--	--	--	--	--
	7/9/2003	--		449.21	29.50	39.50	26.18	423.03	--	--	--	--	--	--	--	--
	02/19/2004	--		449.21	29.50	39.50	23.45	425.76	--	--	--	--	--	--	--	--
	08/04/2004	--		451.63	29.50	39.50	29.24	422.39	--	--	--	--	--	--	--	--
	01/18/2005	--		451.63	29.50	39.50	20.64	430.99	--	--	--	--	--	--	--	--
MW-10	3/20/1995	--		449.22	29.00	37.00	20.96	428.26	--	--	--	--	--	--	--	--
	6/2/1995	--		449.22	29.00	37.00	22.15	427.07	--	--	--	--	--	--	--	--
	8/23/1995	--		449.22	29.00	37.00	24.47	424.75	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	12/4/1995	--		449.22	29.00	37.00	26.97	422.25	--	--	--	--	--	--	--	--
	2/20/1996	--		449.22	29.00	37.00	18.40	430.82	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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-10	5/15/1996	--	d	449.22	29.00	37.00	--	--	--	--	--	--	--	--	--	--
	8/13/1996	--		449.22	29.00	37.00	23.70	425.52	--	--	--	--	--	--	--	--
	11/13/1996	--		449.22	29.00	37.00	27.15	422.07	--	--	--	--	--	--	--	--
	3/26/1997	--		449.22	29.00	37.00	22.23	426.99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1997	--		449.22	29.00	37.00	24.57	424.65	--	--	--	--	--	--	--	--
	8/26/1997	--		449.22	29.00	37.00	27.62	421.60	--	--	--	--	--	--	--	--
	11/5/1997	--		449.22	29.00	37.00	30.79	418.43	--	--	--	--	--	--	--	--
	2/18/1998	--	d	449.22	29.00	37.00	--	--	--	--	--	--	--	--	--	--
	5/20/1998	--		449.22	29.00	37.00	--	--	--	--	--	--	--	--	--	--
	7/30/1998	--		449.22	29.00	37.00	23.90	425.32	--	--	--	--	--	--	--	--
	10/29/1998	--		449.22	29.00	37.00	30.55	418.67	--	--	--	--	--	--	--	--
	3/16/1999	P		449.22	29.00	37.00	23.05	426.17	<50	<0.5	<0.5	<0.5	<0.5	<3	1.0	--
	5/5/1999	--		449.22	29.00	37.00	24.00	425.22	--	--	--	--	--	--	--	--
	8/26/1999	--		449.22	29.00	37.00	26.50	422.72	--	--	--	--	--	--	--	5.15
	12/3/1999	--		449.22	29.00	37.00	30.80	418.42	--	--	--	--	--	--	--	--
	3/13/2000	--	d	449.22	29.00	37.00	26.21	423.01	--	--	--	--	--	--	--	--
	6/20/2000	--		449.22	29.00	37.00	23.52	425.70	--	--	--	--	--	--	--	5.5
	8/31/2000	--		449.22	29.00	37.00	27.52	421.70	--	--	--	--	--	--	--	--
	2/9/2001	--		449.22	29.00	37.00	28.71	420.51	--	--	--	--	--	--	--	--
	9/17/2001	--		449.22	29.00	37.00	27.94	421.28	--	--	--	--	--	--	--	--
	1/21/2002	--		449.22	29.00	37.00	27.44	421.78	--	--	--	--	--	--	--	--
	7/19/2002	--		449.22	29.00	37.00	27.80	421.42	--	--	--	--	--	--	--	--
	1/15/2003	--		449.22	29.00	37.00	23.09	426.13	--	--	--	--	--	--	--	--
7/9/2003	--		449.22	29.00	37.00	26.87	422.35	--	--	--	--	--	--	--	--	
02/19/2004	--		449.22	29.00	37.00	23.39	425.83	--	--	--	--	--	--	--	--	
01/18/2005	--		451.65	29.00	37.00	21.40	430.25	--	--	--	--	--	--	--	--	
MW-11	3/20/1995	--		448.02	29.00	39.00	25.02	423.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	6/2/1995	--		448.02	29.00	39.00	23.82	424.20	--	--	--	--	--	--	--	--
	8/23/1995	--		448.02	29.00	39.00	30.15	417.87	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	12/4/1995	--		448.02	29.00	39.00	31.63	416.39	--	--	--	--	--	--	--	--
	2/20/1996	--		448.02	29.00	39.00	20.94	427.08	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1996	--		448.02	29.00	39.00	23.03	424.99	--	--	--	--	--	--	--	--
	8/13/1996	--		448.02	29.00	39.00	29.19	418.83	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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-11	11/13/1996	--		448.02	29.00	39.00	31.96	416.06	--	--	--	--	--	--	--	--
	3/26/1997	--		448.02	29.00	39.00	26.61	421.41	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1997	--		448.02	29.00	39.00	29.39	418.63	--	--	--	--	--	--	--	--
	8/26/1997	--		448.02	29.00	39.00	33.47	414.55	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/5/1997	--		448.02	29.00	39.00	35.12	412.90	--	--	--	--	--	--	--	--
	2/18/1998	--		448.02	29.00	39.00	18.03	429.99	<50	<0.5	<0.5	<0.5	1	<3	--	--
	5/20/1998	--		448.02	29.00	39.00	23.00	425.02	--	--	--	--	--	--	--	--
	7/30/1998	P		448.02	29.00	39.00	29.30	418.72	<50	<0.5	<0.5	<0.5	<0.5	<3	5.59	--
	10/29/1998	--		448.02	29.00	39.00	34.47	413.55	--	--	--	--	--	--	--	--
	3/16/1999	P		448.02	29.00	39.00	27.88	420.14	<50	<0.5	<0.5	<0.5	<0.5	<3	1.0	--
	5/5/1999	--		448.02	29.00	39.00	26.85	421.17	--	--	--	--	--	--	--	--
	8/26/1999	P		448.02	29.00	39.00	32.74	415.28	<50	<0.5	<0.5	<0.5	<0.5	<3	4.59	--
	12/3/1999	--		448.02	29.00	39.00	34.70	413.32	--	--	--	--	--	--	--	--
	3/13/2000	P		448.02	29.00	39.00	25.94	422.08	<50	<0.5	<0.5	<0.5	<1	<3	3.21	--
	6/20/2000	--		448.02	29.00	39.00	30.40	417.62	--	--	--	--	--	--	3.3	--
	8/31/2000	--	b	448.02	29.00	39.00	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
	8/31/2000	NP		448.02	29.00	39.00	32.68	415.34	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.4	--
	2/9/2001	--		448.02	29.00	39.00	31.17	416.85	--	--	--	--	--	--	--	--
	9/17/2001	NP		448.02	29.00	39.00	32.98	415.04	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.62	--
	1/21/2002	--		448.02	29.00	39.00	31.05	416.97	--	--	--	--	--	--	--	--
	7/19/2002	P		448.02	29.00	39.00	31.67	416.35	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	7.7
	1/15/2003	--		448.02	29.00	39.00	23.75	424.27	--	--	--	--	--	--	--	--
	7/9/2003	P		448.02	29.00	39.00	31.06	416.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	6.6
	02/19/2004	--		448.02	29.00	39.00	27.21	420.81	--	--	--	--	--	--	--	--
	08/04/2004	P		450.41	29.00	39.00	31.71	418.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	7.1
	01/18/2005	--		450.41	29.00	39.00	24.80	425.61	--	--	--	--	--	--	--	--
RW-1	3/20/1995	--		451.67	25.50	40.50	23.76	427.91	15,000	1,000	140	310	950	--	--	--
	6/2/1995	--		451.67	25.50	40.50	25.12	426.55	12,000	1,300	280	420	1,100	--	--	--
	8/23/1995	--		451.67	25.50	40.50	28.80	422.87	8,200	520	190	240	610	<50	--	--
	12/4/1995	--		451.67	25.50	40.50	31.15	420.52	2,600	140	59	83	210	--	--	--
	2/20/1996	--		451.67	25.50	40.50	21.45	430.22	6,300	410	160	180	650	<40	--	--
	5/15/1996	--		451.67	25.50	40.50	22.97	428.70	--	--	--	--	--	--	--	--
	8/13/1996	--		451.67	25.50	40.50	24.74	426.93	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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
RW-1	11/13/1996	--		451.67	25.50	40.50	30.69	420.98	--	--	--	--	--	--	--	--
	3/26/1997	--		451.67	25.50	40.50	25.69	425.98	500	57	3	6.4	18	54	--	--
	5/15/1997	--		451.67	25.50	40.50	28.19	423.48	--	--	--	--	--	--	--	--
	8/26/1997	--		451.67	25.50	40.50	31.21	420.46	--	--	--	--	--	--	--	--
	11/5/1997	--		451.67	25.50	40.50	33.67	418.00	--	--	--	--	--	--	--	--
	2/18/1998	--		451.67	25.50	40.50	20.14	431.53	9,400	200	70	190	710	<60	--	--
	5/20/1998	--		451.67	25.50	40.50	23.43	428.24	--	--	--	--	--	--	--	--
	7/30/1998	--		451.67	25.50	40.50	27.42	424.25	--	--	--	--	--	--	--	--
	10/29/1998	--		451.67	25.50	40.50	32.47	419.20	--	--	--	--	--	--	--	--
	3/16/1999	NP		451.67	25.50	40.50	25.45	426.22	1,100	140	19	45	83	530	1.0	--
	5/5/1999	--		451.67	25.50	40.50	27.23	424.44	--	--	--	--	--	--	--	--
	8/26/1999	--		451.67	25.50	40.50	29.98	421.69	--	--	--	--	--	--	1.39	--
	12/3/1999	--		451.67	25.50	40.50	32.38	419.29	--	--	--	--	--	--	--	--
	3/13/2000	NP		451.67	25.50	40.50	25.53	426.14	1,100	130	3.5	0.7	95	230	4.43	--
	6/20/2000	--		451.67	25.50	40.50	28.31	423.36	--	--	--	--	--	--	1.9	--
	8/31/2000	NP		451.67	25.50	40.50	30.61	421.06	<50.0	<0.500	<0.500	<0.500	<0.500	82.5	3.21	--
	2/9/2001	NP		451.67	25.50	40.50	31.14	420.53	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.84	--
	9/17/2001	NP		451.67	25.50	40.50	31.70	419.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.51	--
	1/21/2002	NP		451.67	25.50	40.50	30.15	421.52	<50	7.7	<0.50	<0.50	1.5	18	0.63	--
	7/19/2002	NP		451.67	25.50	40.50	31.15	420.52	<50	<0.50	<0.50	<0.50	<0.50	13	1.4	6.6
	1/15/2003	--	a	451.67	25.50	40.50	22.20	429.47	860	9	1.6	17	42	1.5	2.8	7.2
	7/9/2003	--		451.67	25.50	40.50	29.56	422.11	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	7.1
	02/19/2004	NP	c	451.67	26.50	40.50	23.53	428.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	6.7
	08/04/2004	P		454.11	25.50	40.50	22.45	431.66	600	<0.50	<0.50	3.3	3.4	<0.50	4.4	7.2
	01/18/2005	P		454.11	25.50	40.50	23.57	430.54	1,400	8.0	1.9	22	68	<0.50	3.6	6.9
VW-1	8/31/2000	P		--	18.50	28.50	20.61	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	10.08	--
	2/9/2001	P		--	18.50	28.50	22.10	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.53	--
	9/17/2001	P		--	18.50	28.50	21.99	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	6.59	--
	1/21/2002	P		--	18.50	28.50	21.50	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.7	--
	7/19/2002	P		--	18.50	28.50	22.42	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.9	7.1
	1/15/2003	--		--	18.50	28.50	22.59	--	<50	<0.50	<0.50	0.63	1.7	<0.50	5.4	7.2
	7/9/2003	--		--	18.50	28.50	22.50	--	<50	<0.50	<0.50	<0.50	0.61	<0.50	2.0	7.0
	02/19/2004	--		--	18.50	28.50	21.04	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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
VW-1	08/04/2004	P		453.29	18.50	28.50	20.48	432.81	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.7	7.0
	01/18/2005	--		453.29	18.50	28.50	21.72	431.57	--	--	--	--	--	--	--	--

Table 1
Groundwater Elevation and Analytical Data
ARCO Service Station #0771
899 Rincon Ave., Livermore, CA

SYMBOLS AND ABBREVIATIONS:

-- = Not analyzed/applicable/sampled/measured
< = Not detected at or above the laboratory detection limit
DO = Dissolved Oxygen
DTW = Depth to water
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline range organics, range C4-C12
GWE = Groundwater elevation
µg/L = Micrograms per liter
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether
NP = Not purged before sampling
P = Purged before sampling
TPH-g = Total petroleum hydrocarbons as gasoline
TOC = Top of casing

FOOTNOTES:

a = Chromatogram Pattern: Gasoline C6-C10
b = Duplicate sample
c = GRO analyzed by EPA Method 8015B modified
d = Well inaccessible

NOTES:

For previous historical groundwater elevation and analytical data please refer to Fourth Quarter 1995 Groundwater Monitoring Program Results and Remediation System Performance Evaluation Report, ARCO Service Station 771, Livermore, California, (EMCON, March 1, 1996).

Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. TPH-g has been 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.

All analytes unless otherwise notes utilized EPA Method 8260B, EPA method 8015B modified prior to 1/15/03, and EPA method 8020 prior to 12/03/99.

Site wells were resurveyed to NAVD '88 datum on March 8, 2004.

Top of screen and bottom of screen depths for MW-3 and MW-6 are estimated from cross-sections.

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

Table 2

Fuel Additives Analytical Data

ARCO Service Station #0771
899 Rincon Ave., Livermore, 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	7/9/2003	<1,000	<200	39	<5.0	<5.0	<5.0	<5.0	<5.0	
	08/04/2004	<2,000	<400	78	<10	<10	<10	<10	<10	
MW-4	7/9/2003	<1,000	750	150	<5.0	<5.0	<5.0	<5.0	<5.0	
	02/19/2004	<1,000	630	180	<10	<10	<10	<5.0	<5.0	
	08/04/2004	<2,000	1,300	300	<10	<10	<10	<10	<10	
	01/18/2005	<1,000	630	160	<5.0	<5.0	<5.0	<5.0	<5.0	a
MW-5	7/9/2003	<1,000	1,100	260	<5.0	<5.0	<5.0	<5.0	<5.0	
	08/04/2004	<1,000	850	250	<5.0	<5.0	<5.0	<5.0	<5.0	
MW-6	7/9/2003	<100	<20	0.98	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/04/2004	<100	<20	5.2	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7	7/9/2003	<1,000	350	110	<5.0	<5.0	<5.0	<5.0	<5.0	
	02/19/2004	<1,000	420	100	<10	<10	<10	<5.0	<5.0	
	08/04/2004	<5,000	<1,000	140	<25	<25	<25	<25	<25	
	01/18/2005	<1,000	260	87	<5.0	<5.0	<5.0	<5.0	<5.0	a
MW-11	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/04/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
RW-1	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/19/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	08/04/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/18/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
VW-1	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/04/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

Fuel Additives Analytical Data
ARCO Service Station #0771
899 Rincon Ave., Livermore, CA

SYMBOLS AND ABBREVIATIONS:

< = Not detected at or above the laboratory reporting limit
1,2-DCA = 1,2 Di-chloroethane
DIPE = Di-isopropyl ether
EDB = Ethyl tert-butyl ether
ETBE = Ethyl tert butyl ether
MTBE = Methyl tert-butyl ether
ug/L = micrograms per liter
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol

FOOTNOTES:

a = Calibration verification is within the method limits but outside the contract limits for ethanol.

Table 3

Groundwater Gradient Data
ARCO Service Station #0771
899 Rincon Ave., Livermore, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
3/20/1995	Northwest	0.030
6/2/1995	North-Northwest	0.014
8/23/1995	North-Northwest	0.030
12/4/1995	North-Northwest	0.030
2/20/1996	Northwest	0.016
5/15/1996	Northwest	0.024
8/13/1996	North-Northwest	0.030
11/13/1996	North-Northwest	0.031
3/26/1997	North-Northwest	0.044
5/15/1997	North-Northwest	0.031
8/26/1997	North-Northwest	0.042
11/5/1997	North-Northwest	0.030
2/18/1998	Northwest	0.010
5/20/1998	Northwest	0.030
7/30/1998	North	0.040
10/29/1998	North	0.005
3/16/1999	North-Northwest	0.030
5/5/1999	North	0.040
8/26/1999	North-Northwest	0.050
12/3/1999	North-Northeast	0.060
3/13/2000	North-Northwest	0.066
6/20/2000	North-Northwest	0.050
8/31/2000	North-Northwest	0.062
2/9/2001	North-Northeast	0.014
9/17/2001	North-Northwest	0.061
1/21/2002	North-Northwest	0.050
7/19/2002	North-Northwest	0.044
1/15/2003	Northeast to Southeast	0.038 - 0.016
7/9/2003	Northwest to North-Northwest	0.009 - 0.063
2/19/2004	North	0.044
8/4/2004	Northeast	0.071
1/18/2005	North-Northeast	0.04

The data within this table collected prior to July 2002 was provided to URS by BP Remediation Management 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™ 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 # 050118-DW-2 Date 1-18-05 Client Arco 771

Site 899 Rincon Ave Livermore

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	
MW-1	4					24.47	36.65	↓	
MW-2	4					20.86	33.80		
MW-3	4					22.76	39.55		
MW-4	4					23.15	41.30		S NPO 26'
MW-5	4					24.10	40.00		
MW-6	4					24.56	43.10		
MW-7	4					22.31	39.60		S
MW-8	2					26.76	41.40		
MW-9	2					20.64	38.95		
MW-10	2					21.40	34.00		
MW-11	2					24.80	38.50		
RW-1	6					23.57	39.60	S NPO 25.5	
VW-1	4					21.72	28.15	↓	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050118-DW-2</u>	Station # <u>771</u>
Sampler: <u>DW</u>	Date: <u>1-18-05</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>41.30</u>	Depth to Water: <u>23.15</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 ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement <u>Y</u> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>X</u> Disposable Bailer Extraction Port Other: _____
---	---

Top of Screen: 26' 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 <u>µS</u>)	Gals. Removed	Observations
<u>13:55</u>	<u>64.9</u>	<u>6.9</u>	<u>993</u>	<u>11.8</u>	<u>odor</u>
<u>13:58</u>	<u>67.3</u>	<u>6.8</u>	<u>1086</u>	<u>23.6</u>	"
<u>14:00</u>	<u>68.3</u>	<u>6.9</u>	<u>1066</u>	<u>35.4</u>	"

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: <u>35.4</u>
Sampling Time: <u>14:05</u>	Sampling Date: <u>1-18-05</u>
Sample I.D.: <u>MW-4</u>	Laboratory: Pace <u>(Sequoia)</u> Other _____
Analyzed for: <u>GND</u> <u>BTEX</u> MTBE DRO Other:	
D.O. (if req'd):	Pre-purge: _____ mg/L <u>(Post-purge):</u> <u>1.2</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050118-QW-2</u>	Station # <u>771</u>
Sampler: <u>DW</u>	Date: <u>1-18-05</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>39.60</u>	Depth to Water: <u>22.31</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 ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> 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>11.2</u>	x	<u>3</u>	=	<u>33.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>14:12</u>	<u>64.8</u>	<u>6.9</u>	<u>951</u>	<u>11.2</u>	<u>odor</u>
<u>14:14</u>	<u>65.4</u>	<u>6.9</u>	<u>962</u>	<u>22.4</u>	"
<u>14:17</u>	<u>66.2</u>	<u>6.9</u>	<u>947</u>	<u>33.6</u>	"

Did well dewater? Yes <input checked="" type="checkbox"/> <u>No</u>	Gallons actually evacuated: <u>336</u>
Sampling Time: <u>14:22</u>	Sampling Date: <u>1-18-05</u>
Sample I.D.: <u>MW-7</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>GR</u> <u>BTEX</u> MTBE DRO Other:	
D.O. (if req'd): Pre-purge:	<u>1.0</u> mg/L
O.R.P. (if req'd): Pre-purge:	mV
	Post-purge: mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050118-QW-2</u>	Station # <u>771</u>
Sampler: <u>DW</u>	Date: <u>1-18-05</u>
Well I.D.: <u>RW-1</u>	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: <u>39.60</u>	Depth to Water: <u>23.57</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 ² * 0.163

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

Top of Screen: 25.5' 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>23.6</u>	x	<u>3</u>	=	<u>70.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
13:28	66.1	6.9	740	23.6	
13:33	66.5	6.9	701	47.2	
13:38	66.8	6.9	688	70.8	

Did well dewater? Yes <input checked="" type="checkbox"/> <u>No</u>	Gallons actually evacuated: <u>70.8</u>
Sampling Time: <u>13:43</u>	Sampling Date: <u>1-18-05</u>
Sample I.D.: <u>RW-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>GR0</u> <u>BTEX</u> MTBE DRO Other:	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>3.6</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 BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

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

771		
Station #		
899 Rincon Ave Livermore		
Station Address		
Total Gallons Collected From Groundwater Monitoring Wells:		
120		
added equip.	any other	
rinse water 5	adjustments	
TOTAL GALS.	loaded onto	
RECOVERED 125	BTS vehicle #	47
BTS event #	time	date
050118-DW-2	1430	1/18/05
signature David C. Galt		

REC'D AT	time	date
		1 1
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 Atlantic Richfield Company have been reviewed and verified by that laboratory.



31 January, 2005

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

RE: ARCO #0771, Livermore, CA
Work Order: MOA0550

Enclosed are the results of analyses for samples received by the laboratory on 01/19/05 16:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210



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

Project: ARCO #0771, Livermore, CA
Project Number: G09JZ-0161
Project Manager: Scott Robinson

MOA0550
Reported:
01/31/05 16:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	MOA0550-01	Water	01/18/05 14:05	01/19/05 16:57
MW-7	MOA0550-02	Water	01/18/05 14:22	01/19/05 16:57
RW-1	MOA0550-03	Water	01/18/05 13:43	01/19/05 16:57
TB-771-011805	MOA0550-04	Water	01/18/05 00:00	01/19/05 16:57

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 #0771, Livermore, CA
 Project Number: G09JZ-0161
 Project Manager: Scott Robinson

 MOA0550
 Reported:
 01/31/05 16:15

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MOA0550-01) Water Sampled: 01/18/05 14:05 Received: 01/19/05 16:57									
tert-Amyl methyl ether	ND	5.0	ug/l	10	5A26013	01/26/05	01/27/05	EPA 8260B	
Benzene	250	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	630	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	62	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	160	5.0	"	"	"	"	"	"	
Toluene	9.5	5.0	"	"	"	"	"	"	
Xylenes (total)	22	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	4500	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96 %	60-135		"	"	"	"	
MW-7 (MOA0550-02) Water Sampled: 01/18/05 14:22 Received: 01/19/05 16:57									
tert-Amyl methyl ether	ND	5.0	ug/l	10	5A26013	01/26/05	01/27/05	EPA 8260B	
Benzene	770	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	260	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	590	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	87	5.0	"	"	"	"	"	"	
Toluene	33	5.0	"	"	"	"	"	"	
Xylenes (total)	220	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	16000	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97 %	60-135		"	"	"	"	

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

Project: ARCO #0771, Livermore, CA
Project Number: G09JZ-0161
Project Manager: Scott Robinson

MOA0550
Reported:
01/31/05 16:15

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
RW-1 (MOA0550-03) Water Sampled: 01/18/05 13:43 Received: 01/19/05 16:57										
tert-Amyl methyl ether	ND	0.50		ug/l	1	5A26013	01/26/05	01/27/05	EPA 8260B	
Benzene	8.0	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		"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	22	0.50		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Toluene	1.9	0.50		"	"	"	"	"	"	
Xylenes (total)	68	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	1400	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93 %			60-135	"	"	"	"	

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

 Project: ARCO #0771, Livermore, CA
 Project Number: G09JZ-0161
 Project Manager: Scott Robinson

 MOA0550
 Reported:
 01/31/05 16:15

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 5A26013 - EPA 5030B P/T / EPA 8260B
Blank (5A26013-BLK1)

Prepared & Analyzed: 01/26/05

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	"							IC
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>	5.12		"	5.00		102	60-135			

Laboratory Control Sample (5A26013-BS1)

Prepared & Analyzed: 01/26/05

tert-Amyl methyl ether	10.1	0.50	ug/l	10.0		101	80-115			
Benzene	9.05	0.50	"	10.0		90	65-115			
tert-Butyl alcohol	50.6	20	"	50.0		101	75-150			
Di-isopropyl ether	8.24	0.50	"	10.0		82	75-125			
1,2-Dibromoethane (EDB)	11.6	0.50	"	10.0		116	85-120			
1,2-Dichloroethane	11.1	0.50	"	10.0		111	85-130			
Ethanol	144	100	"	200		72	70-135			IC
Ethyl tert-butyl ether	9.05	0.50	"	10.0		90	75-130			
Ethylbenzene	9.42	0.50	"	10.0		94	75-135			
Methyl tert-butyl ether	10.5	0.50	"	10.0		105	65-125			
Toluene	10.0	0.50	"	10.0		100	85-120			
Xylenes (total)	28.2	0.50	"	30.0		94	85-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.00		"	5.00		100	60-135			

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

 Project: ARCO #0771, Livermore, CA
 Project Number: G09JZ-0161
 Project Manager: Scott Robinson

 MOA0550
 Reported:
 01/31/05 16:15

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 5A26013 - EPA 5030B P/T / EPA 8260B
Laboratory Control Sample (5A26013-BS2)

Prepared & Analyzed: 01/26/05

Benzene	5.30	0.50	ug/l	6.08		87	65-115			
Ethylbenzene	8.01	0.50	"	7.84		102	75-135			
Methyl tert-butyl ether	9.34	0.50	"	9.60		97	65-125			
Toluene	35.7	0.50	"	32.9		109	85-120			
Xylenes (total)	39.2	0.50	"	38.5		102	85-125			
Gasoline Range Organics (C4-C12)	427	50	"	440		97	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.28</i>		"	<i>5.00</i>		<i>106</i>	<i>60-135</i>			

Laboratory Control Sample Dup (5A26013-BSD1)

Prepared & Analyzed: 01/26/05

tert-Amyl methyl ether	10.4	0.50	ug/l	10.0		104	80-115	3	15	
Benzene	9.49	0.50	"	10.0		95	65-115	5	20	
tert-Butyl alcohol	49.4	20	"	50.0		99	75-150	2	25	
Di-isopropyl ether	8.55	0.50	"	10.0		86	75-125	4	15	
1,2-Dibromoethane (EDB)	11.9	0.50	"	10.0		119	85-120	3	15	
1,2-Dichloroethane	11.6	0.50	"	10.0		116	85-130	4	20	
Ethanol	122	100	"	200		61	70-135	17	35	IC
Ethyl tert-butyl ether	9.32	0.50	"	10.0		93	75-130	3	25	
Ethylbenzene	9.92	0.50	"	10.0		99	75-135	5	15	
Methyl tert-butyl ether	10.6	0.50	"	10.0		106	65-125	0.9	20	
Toluene	10.5	0.50	"	10.0		105	85-120	5	20	
Xylenes (total)	29.0	0.50	"	30.0		97	85-125	3	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.01</i>		"	<i>5.00</i>		<i>100</i>	<i>60-135</i>			

Matrix Spike (5A26013-MS1)

Source: MOA0541-02

Prepared & Analyzed: 01/26/05

Benzene	382	25	ug/l	304	120	86	65-115			
Ethylbenzene	1370	25	"	392	970	102	75-135			
Methyl tert-butyl ether	434	25	"	480	ND	90	65-125			
Toluene	2090	25	"	1640	270	111	85-120			
Xylenes (total)	4190	25	"	1920	2100	109	85-125			
Gasoline Range Organics (C4-C12)	42500	2500	"	22000	22000	93	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.61</i>		"	<i>5.00</i>		<i>92</i>	<i>60-135</i>			

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 #0771, Livermore, CA
Project Number: G09JZ-0161
Project Manager: Scott Robinson

MOA0550
Reported:
01/31/05 16:15

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5A26013 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (5A26013-MSD1)

Source: MOA0541-02

Prepared & Analyzed: 01/26/05

Benzene	354	25	ug/l	304	120	77	65-115	8	20	
Ethylbenzene	1280	25	"	392	970	79	75-135	7	15	
Methyl tert-butyl ether	456	25	"	480	ND	95	65-125	5	20	
Toluene	1890	25	"	1640	270	99	85-120	10	20	
Xylenes (total)	3810	25	"	1920	2100	89	85-125	10	20	
Gasoline Range Organics (C4-C12)	38400	2500	"	22000	22000	75	70-124	10	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.83</i>		<i>"</i>	<i>5.00</i>		<i>97</i>	<i>60-135</i>			

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

Project: ARCO #0771, Livermore, CA
Project Number: G09JZ-0161
Project Manager: Scott Robinson

MOA0550
Reported:
01/31/05 16:15

Notes and Definitions

IC Calib. verif. is within method limits but outside contract limits

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: ARCO 771 Analytical for QMR sampling - 050118-DW-2
 BP BU/AR Region/Infos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 771 > Historical/BL
 State or Lead Regulatory Agency: Alameda County Environmental Health Agency
 Requested Due Date (mm/dd/yyyy): 10 Day TAT

On-site Time: <u>12:00</u>	Temp: <u>56°</u>
Off-site Time: <u>14:40</u>	Temp: <u>49°</u>
Sky Conditions: <u>cloudy</u>	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>Sequoia</u>	BP/AR Facility No.: <u>771</u>	Consultant/Contractor: <u>URS</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>899 Rincon Ave., Livermore, CA 94550</u>	Address: <u>1333 Broadway, Suite 800</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long: <u>37.688142 / -121.783</u>	<u>Oakland, CA 94612</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>TU600100113</u>	Consultant/Contractor Project No.: <u>38486558</u>
Tele/Fax: <u>408.782.8156 / 408.782.6308</u>	Infos Project No.: <u>G09JZ-0161</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or RCOP: <u>Provision</u>	Tele/Fax: <u>510.874.3280 / 510.874.3268</u>
Address: <u>P.O. Box 6549</u>	Phase/VBS: <u>04 - Mon/Remed by Natural Attenuation</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>Moraga, CA 94570</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail EDD To: <u>Donna.Casper@urcorp.com</u>
Tele/Fax: <u>925.299.8891 / 925.299.8872</u>	Cost Element: <u>05 - Subcontracted Costs</u>	Invoice to: <u>Atlantic Richfield Company</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Name, Lat/Long and Comments	
				Sol/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CHROMATEX (8260)	MTBE, TAME, ETBE, DDBP, TBA (8550)	EDB, 1,2-DCA (8260)	Ethanol (8260)			
1	MW-4	14:05	1-18		X		01	3							X	X	X	X		
2	MW-7	14:22	↓				02	1							X	X	X	X		
3	RW-1	13:43	↓				03	1							X	X	X	X		
4	TB-771-01805	-	↓				04	2												ON HOLD
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>Dave Walter</u>	Relinquished By / Affiliation: <u>David C. Galt</u>	Date: <u>11/19/15</u>	Time: <u>1552</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/19/15</u>	Time: <u>1657</u>
Sampler's Company: <u>Blaine Tech</u>						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt N/C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 771
 REC. BY (PRINT): JD
 WORKORDER: MOA 6550

DATE REC'D AT LAB: 1/19/05
 TIME REC'D AT LAB: 1:57
 DATE LOGGED IN: 1-26-05

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) <input checked="" type="radio"/> Present / Absent (Intact / Broken*)	01		MW-4	VOL (3)	hr1	-	W	1/19/05	
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*	02		+ - 7	↓ ↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: <input checked="" type="radio"/> Present / Absent	03		RW-1	↓ ↓	↓	↓	↓	↓	
4. Airbill: <input checked="" type="radio"/> Airbill / Sticker <input checked="" type="radio"/> Present / Absent	04		IB 771-01105	↓ (2)	↓	↓	↓	↓	
5. Airbill #:									
6. Sample Labels: <input checked="" type="radio"/> Present / Absent									
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="radio"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / No*									
12. Proper Preservatives used? <input checked="" type="radio"/> Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="radio"/> Yes / No*									
14. Temp Rec. at Lab: <input checked="" type="radio"/> Yes Is temp 4 +/- 2°C? <input checked="" type="radio"/> Yes / No**									

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

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

ATTACHMENT C
ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL
CONFIRMATION

<h2>Electronic Submittal Information</h2> <p>Main Menu View/Add Facilities Upload EDD Check EDD</p>	
SUCCESSFUL GEO_WELL CHECK - NO ERRORS	
ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	2/7/2005 12:05:34 PM
<p>Processing is complete. No errors were found! You may now proceed to the upload page.</p> <p>Back to Main Menu</p>	

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Submittal Title: 1Q 2005 QMR Geowell ARCO Site
0771

Submittal Date/Time: 2/7/2005 12:06:26 PM

**Confirmation
Number:** 5749729752

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SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	2/7/2005 12:07:23 PM
<u>GLOBAL ID:</u>	T0600100113
<u>FILE UPLOADED:</u>	ARCO#0771-EDF-MOA0550.zip

No errors were found in your EDF upload file.

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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 # 00771	<u>Regional Board - Case #: 01-0121</u>
899 RINCON AVE	SAN FRANCISCO BAY RWQCB (REGION 2)
LIVERMORE, CA 94550	- (BG)
	<u>Local Agency (lead agency) - Case #: 3873</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	3
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%		Y
<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

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CONTACT SITE ADMINISTRATOR.

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Confirmation Number: 9749789059
Date/Time of Submittal: 2/7/2005 12:08:04 PM
Facility Global ID: T0600100113
Facility Name: ARCO # 00771
Submittal Title: 1Q 2005 QMR EDF ARCO Site 0771
Submittal Type: GW Monitoring Report

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

ARCO # 00771 899 RINCON AVE LIVERMORE, CA 94550	Regional Board - Case #: 01-0121 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 3873 ALAMEDA COUNTY LOP - (RWS)
--	--

CONF #	TITLE	QUARTER
9749789059	1Q 2005 QMR EDF ARCO Site 0771	Q1 2005
SUBMITTED BY Srijesh Thapa	SUBMIT DATE 2/7/2005	STATUS 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?	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%	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 > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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