



Alameda County

APR 06 2005

Environmental Health

February 15, 2005

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

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



Atlantic Richfield Company
(a BP affiliated company)

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

April 6, 2005

**Re: First Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #4494
566 Hegenberger Road
Oakland, California
StID: 3854**



Alameda County

APR 06 2005

Environmental Services

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



Alameda County

APR 08 2005

April 6, 2005

Environmental Health

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: First Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #4494
566 Hegenberger Road
Oakland, California
StID: 3854**

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *First Quarter 2005 Groundwater Monitoring Report* for ARCO Service Station #4494, located at 566 Hegenberger Road, Oakland, California.

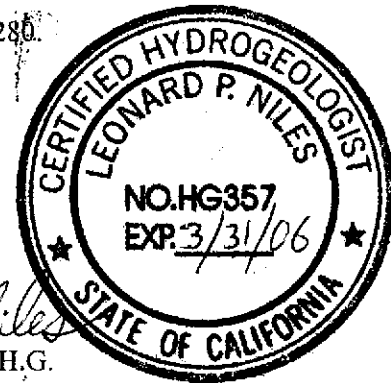
If you have any questions regarding this submission, please call me at (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

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



Enclosure: First Quarter 2005 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS

R E P O R T

Alameda County

APR 03 2005

San Francisco Office

**FIRST QUARTER 2005
GROUNDWATER MONITORING
REPORT**

**ARCO SERVICE STATION #4494
566 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

Prepared for
RM

April 6, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date: April 6, 2005
Quarter: 1Q 05

RM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 4494 Address: 566 Hegenberger Road, Oakland, California
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Primary Agency/Regulatory ID No. Alameda County Environmental Health
ACEH/STID #: 3854

WORK PERFORMED THIS QUARTER (First – 2005):

1. Prepared and submitted Fourth Quarter 2004 Groundwater Monitoring Report.
2. Performed first quarter 2005 monitoring event on February 23, 2005.
3. Prepared and submitted this First Quarter 2005 Groundwater Monitoring Report.

WORK PROPOSED FOR NEXT QUARTER (Second – 2005):

1. Perform second quarter 2005 groundwater monitoring event.
2. Prepare and submit Second Quarter 2005 Groundwater Monitoring Report.

SITE SUMMARY:

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: MW-1, MW-7.
Semi-annually (1st and 3rd Quarter): MW-3 to MW-6, and RW-1
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Bulk Soil Removed to Date: 1,550 cubic yards
Current Remediation Techniques: None
Approximate Depth to Groundwater: 4.61 (MW-6) to 8.75 (MW-3) feet
Groundwater Gradient (direction): Northwest (onsite)
Groundwater Gradient (magnitude): 0.02 feet per foot

DISCUSSION:

During purging, well MW-1 dewatered at 16.5 gallons and well MW-7 dewatered at 6.5 gallons. Gasoline range organics were detected at or above the laboratory reporting limit in two of the seven wells sampled this quarter at concentrations of 180 micrograms per liter ($\mu\text{g/L}$) (MW-7) and 190 $\mu\text{g/L}$ (RW-1). Methyl tert-butyl ether was detected at or above the laboratory reporting limit in two wells at concentrations of 5.0 $\mu\text{g/L}$ (MW-6) and 6.0 $\mu\text{g/L}$ (MW-1). Tert-butyl alcohol (TBA) was detected at or above the laboratory reporting limit in MW-6 at a concentration of 140 $\mu\text{g/L}$. Tert-amyl methyl ether was detected at or above the laboratory reporting limit in one well, MW-1, at a concentration of 2.4 $\mu\text{g/L}$. No other fuel components were detected at or above their respective laboratory reporting limits.

RECOMMENDATIONS:

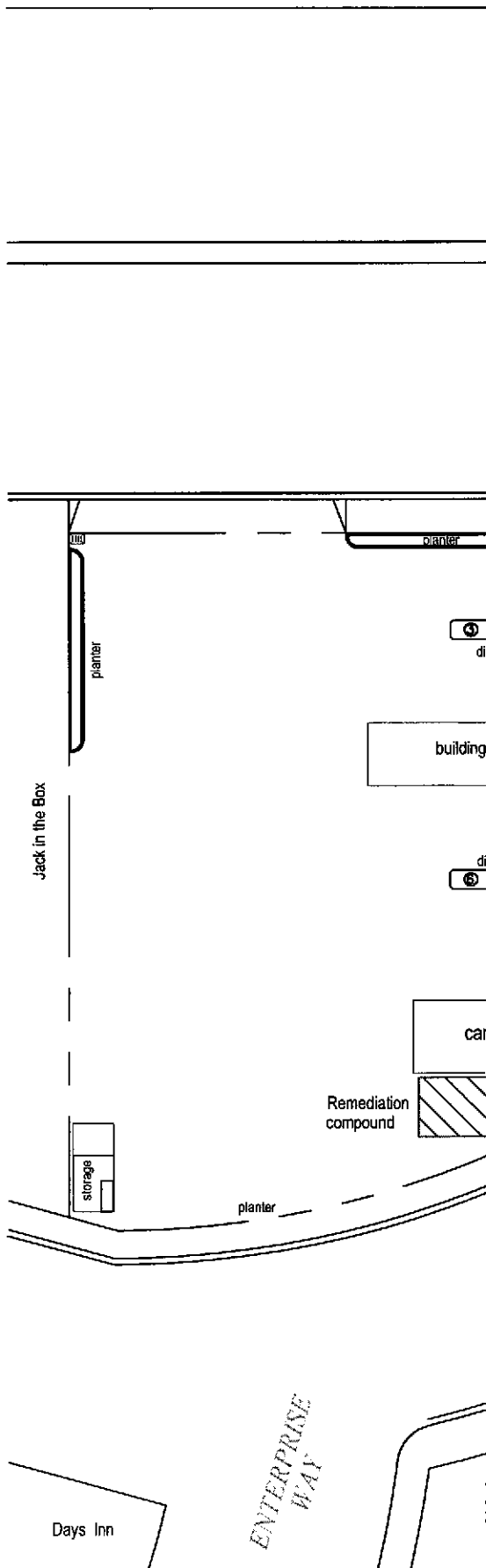
URS recommends that the sampling schedule at the site be reduced as follows:

WELL NUMBER	OLD SCHEDULE	NEW SCHEDULE
MW-1	Quarterly	Semi-Annually
MW-3	Quarterly	Annually
MW-4	Semi-Annually	Annually
MW-5	Semi-Annually	Annually
MW-6	Semi-Annually	Semi-Annually
MW-7	Quarterly	Annually
RW-1	Semi-Annually	Annually

The continued decrease in analyte concentrations supports this recommended reduction in monitoring. All wells except MW-6 have had a significant enough reduction for all analytes that a reduction in sampling frequency to annual monitoring is justified. MW-6 has had continually low to non-detect reporting for all analytes except TBA, so a continued semi-annual monitoring schedule is recommended. MW-1 has had low but fluctuating MtBE concentration so a reduction to semi-annual rather than annual is recommended. URS would like to implement this schedule beginning in the second quarter, 2005.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – February 23, 2005
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additive 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 – Historical Groundwater Data
- Attachment D – Error Check Reports and EDF/Geowell Submittal Confirmations
- Attachment E – Joint Monitoring Data



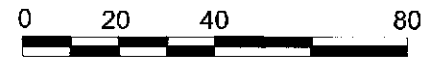
EXPLANATION

- Shell monitoring well
 - ▲ Tank backfill well
 - ⊕ Well used for groundwater extraction
 - ARCO monitoring well
 - ⊖ ARCO recovery well
 - ▲ Canal sampling location
- Well designation
- | | |
|--------|--|
| ELEV | Groundwater elevation |
| GRO | Concentration of GRO, Benzene and MTBE in groundwater (µg/L) |
| Q or A | Sampling period |
- SA(1,3) Sampled semi-annually, 1st & 3rd quarters
 - < Not detected at or above laboratory reporting limits
 - NS Not sampled
 - Q Sampled quarterly
- ← 0.02 Approximate groundwater flow direction and gradient (ft/ft)
- Groundwater elevation contour (ft/MSL) (dashed where estimated)

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



NORTH



Scale (ft)

GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP
First Quarter 2005 (February 23, 2005)

FIGURE

1

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #4494
 566 Hegenberger Rd., Oakland, 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	6/20/2000	--	a	106.1	13.00	--	7.02	99.08	<1,000	<10	<10	<10	<20	14000/15000	---	---
	9/28/2000	--	a	106.1	13.00	--	7.07	99.03	<500	<5.0	<5.0	<5.0	<5.0	13000/18800	---	---
	12/17/2000	--		106.1	13.00	--	6.95	99.15	<50	<0.5	<0.5	<0.5	<0.5	10,600	---	---
	3/28/2001	--		106.1	13.00	--	6.88	99.22	<500	<5.0	<5.0	<5.0	<5.0	16,900	---	---
	6/21/2001	--		106.1	13.00	--	7.18	98.92	<1,000	<10	<10	<10	<10	3,400	---	---
	9/23/2001	--	a	106.1	13.00	--	7.11	98.99	<1,000	<10	<10	<10	<10	2200/1800	---	---
	12/31/2001	--		106.1	13.00	--	6.91	99.19	<5,000	<50	<50	<50	<50	14,000	---	---
	3/14/2002	--		106.1	13.00	--	6.85	99.25	<5,000	<50	<50	<50	<50	6,200	---	---
	4/17/2002	--		106.1	13.00	--	5.89	100.21	<5,000	<50	<50	<50	<50	4,500	---	---
	8/8/2002	--	a, b	106.1	13.00	--	7.19	98.91	230	<2.0	<2.0	<2.0	<2.0	660/440	4.5	7.8
	12/12/2002	--	a, d	106.1	13.00	--	7.28	98.82	630	<5.0	<5.0	<5.0	<5.0	1300/830	1.9	7.6
	3/20/2003	--	e	106.1	13.00	--	6.91	99.19	1,100	<5.0	<5.0	<5.0	<5.0	780	2.2	8.5
	6/23/2003	--		106.1	13.00	--	7.61	98.49	530	<5.0	<5.0	<5.0	<5.0	260	1.2	7.6
	9/22/2003	--		11.36	13.00	--	7.78	3.58	<50	<0.50	<0.50	<0.50	<0.50	17	3.5	7.7
	12/03/2003	P		11.36	13.00	--	7.90	3.46	410	2.6	9.8	<2.5	11	260	2.1	6.9
	03/18/2004	P		11.36	13.00	--	6.68	4.68	<250	<2.5	<2.5	<2.5	<2.5	130	2.4	7.0
	05/25/2004	P		11.36	13.00	--	7.55	3.81	<250	<2.5	<2.5	<2.5	<2.5	120	1.3	7.0
	09/22/2004	P		11.36	13.00	--	6.78	4.58	150	1.5	<1.0	<1.0	<1.0	140	3.8	7.12
	12/22/2004	P		11.36	13.00	--	6.44	4.92	<500	<5.0	<5.0	<5.0	<5.0	74	1.7	6.8
	02/23/2005	P		11.36	13.00	--	7.03	4.33	<50	<0.50	<0.50	<0.50	<0.50	6.0	2.1	7.2
MW-3	6/20/2000	--	a	106.29	7.00	--	9.18	97.11	<50	<0.5	<0.5	<0.5	<1.0	27/27	---	---
	9/28/2000	--	a	106.29	7.00	--	9.33	96.96	<50	<0.5	<0.5	<0.5	<1.0	4.3/<2.0	---	---
	12/17/2000	--		106.29	7.00	--	9.31	96.98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/28/2001	--		106.29	7.00	--	9.23	97.06	<50	<0.5	<0.5	<0.5	<0.5	7.42	---	---
	6/21/2001	--		106.29	7.00	--	9.58	96.71	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	9/23/2001	--		106.29	7.00	--	9.76	96.53	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	12/31/2001	--		106.29	7.00	--	8.78	97.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/14/2002	--		106.29	7.00	--	9.25	97.04	<50	<0.5	<0.5	<0.5	<0.5	4.0	---	---
	4/17/2002	--		106.29	7.00	--	8.44	97.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	8/8/2002	--		106.29	7.00	--	9.63	96.66	<50	<0.5	<0.5	<0.5	<0.5	<2.5	2.6	7.9
	12/12/2002	--	d	106.29	7.00	--	9.51	96.78	<50	<0.5	<0.5	<0.5	<0.5	<2.5	3.0	6.8
	3/20/2003	--	e	106.29	7.00	--	9.40	96.89	<50	<0.50	<0.50	<0.50	<0.50	6.1	1.2	7.0

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #4494
 566 Hegenberger Rd., Oakland, 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	6/23/2003	--		106.29	7.00	--	9.36	96.93	<50	<0.50	<0.50	<0.50	<0.50	5.2	0.9	8.2
	9/22/2003	--		11.62	7.00	--	9.48	2.14	<50	<0.50	<0.50	<0.50	<0.50	3.9	1.4	7.9
	12/03/2003	--	g	11.62	7.00	--	9.44	2.18	--	--	--	--	--	--	--	--
	03/18/2004	NP		11.62	7.00	--	8.76	2.86	<50	<0.50	<0.50	<0.50	<0.50	4.6	0.8	7.3
	05/25/2004	--	g	11.62	7.00	--	9.55	2.07	--	--	--	--	--	--	--	--
	09/22/2004	NP		11.62	7.00	--	9.44	2.18	<50	<0.50	<0.50	<0.50	<0.50	4.7	--	--
	12/22/2004	--		11.62	7.00	--	9.06	2.56	--	--	--	--	--	--	--	--
	02/23/2005	NP		11.62	7.00	--	8.75	2.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	8.2
MW-4	6/20/2000	--		107.4	7.00	--	8.49	98.91	<50	<0.5	<0.5	<0.5	<1.0	<10	---	---
	9/28/2000	--		107.4	7.00	--	8.70	98.70	<50	<0.5	<0.5	<0.5	<1.0	<2.5	---	---
	12/17/2000	--		107.4	7.00	--	8.53	98.87	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/28/2001	--		107.4	7.00	--	8.59	98.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	6/21/2001	--		107.4	7.00	--	8.79	98.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	9/23/2001	--		107.4	7.00	--	8.67	98.73	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	12/31/2001	--		107.4	7.00	--	8.03	99.37	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/14/2002	--		107.4	7.00	--	8.48	98.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	4/17/2002	--		107.4	7.00	--	7.79	99.61	<50	<0.5	<0.5	<0.5	<0.5	5.6	---	---
	8/8/2002	--		107.4	7.00	--	8.90	98.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	4.5	8.0
	12/12/2002	--	d	107.4	7.00	--	9.07	98.33	<50	<0.5	<0.5	<0.5	<0.5	<2.5	5.6	6.2
	3/20/2003	--	e	107.4	7.00	--	8.85	98.55	<50	<0.50	<0.50	<0.50	0.50	<0.50	4.8	7.8
	6/23/2003	--		107.4	7.00	--	9.26	98.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	6.3	7.5
	9/22/2003	--		13.18	7.00	--	9.22	3.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	7.4	8.0
	12/03/2003	--	g	13.18	7.00	--	9.48	3.70	--	--	--	--	--	--	--	--
	03/18/2004	NP		13.18	7.00	--	8.32	4.86	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.5	8.4
	05/25/2004	--	g	13.18	7.00	--	9.03	4.15	--	--	--	--	--	--	--	--
	09/22/2004	NP		13.18	7.00	--	8.62	4.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	--
12/22/2004	--		13.18	7.00	--	7.80	5.38	--	--	--	--	--	--	--	--	
02/23/2005	NP		13.18	7.00	--	7.74	5.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.3	
MW-5	6/20/2000	--		105.19	8.00	--	7.65	97.54	<50	<0.5	<0.5	<0.5	<1.0	<10	---	---
	9/28/2000	--		105.19	8.00	--	6.82	98.37	<50	<0.5	<0.5	<0.5	<1.0	<2.5	---	---
	12/17/2000	--		105.19	8.00	--	6.50	98.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/28/2001	--		105.19	8.00	--	6.34	98.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	6/21/2001	--		105.19	8.00	--	7.88	97.31	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #4494
566 Hegenberger Rd., Oakland, 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	9/23/2001	--		105.19	8.00	--	6.98	98.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	
	12/31/2001	--		105.19	8.00	--	5.01	100.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	
	3/14/2002	--		105.19	8.00	--	5.93	99.26	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	
	4/17/2002	--		105.19	8.00	--	5.37	99.82	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	
	8/8/2002	--	b	105.19	8.00	--	6.85	98.34	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.7	7.3	
	12/12/2002	--	d	105.19	8.00	--	6.53	98.66	<50	2.2	4.7	1.3	6.8	<2.5	1.3	7.0	
	3/20/2003	--	e	105.19	8.00	--	6.40	98.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.7	7.1
	6/23/2003	--		105.19	8.00	--	6.72	98.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	7.2
	9/22/2003	--	f	10.63	8.00	--	6.76	3.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	7.2
	12/03/2003	--	g	10.63	8.00	--	6.56	4.07	--	--	--	--	--	--	--	--	--
	03/18/2004	P		10.63	8.00	--	5.98	4.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.7	7.3
	05/25/2004	--	g	10.63	8.00	--	6.77	3.86	--	--	--	--	--	--	--	--	--
	09/22/2004	P		10.63	8.00	--	6.90	3.73	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	7.17
	12/22/2004	--		10.63	8.00	--	6.18	4.45	--	--	--	--	--	--	--	--	--
	02/23/2005	P		10.63	8.00	--	5.36	5.27	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	7.2
	MW-6	6/20/2000	--		105.07	8.00	--	6.24	98.83	<50	<0.5	<0.5	<0.5	<1.0	<10	---	---
		9/28/2000	--		105.07	8.00	--	6.45	98.62	<50	<0.5	<0.5	<0.5	<1.0	<2.5	---	---
12/17/2000		--		105.07	8.00	--	6.26	98.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	
3/28/2001		--		105.07	8.00	--	6.10	98.97	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	
6/21/2001		--		105.07	8.00	--	7.68	97.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	
9/23/2001		--		105.07	8.00	--	6.72	98.35	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	
12/23/2001		--		105.07	8.00	--	4.68	100.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	
3/14/2002		--		105.07	8.00	--	5.55	99.52	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	
4/17/2002		--		105.07	8.00	--	4.96	100.11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	7.0	---	---
8/8/2002		--		105.07	8.00	--	6.46	98.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.7	7.3	
12/12/2002		--	d	105.07	8.00	--	6.18	98.89	65	3.3	8.4	2.7	14	<2.5	1.1	6.9	
3/20/2003		--	e	105.07	8.00	--	6.18	98.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	7.0
6/23/2003		--		105.07	8.00	--	6.15	98.92	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	7.1
9/22/2003		--	f	10.41	8.00	--	6.43	3.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	7.0
12/03/2003		--	g	10.41	8.00	--	6.12	4.29	--	--	--	--	--	--	--	--	--
03/18/2004		P		10.41	8.00	--	5.40	5.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	7.2
05/25/2004		--	g	10.41	8.00	--	6.30	4.11	--	--	--	--	--	--	--	--	--
09/22/2004	P		10.41	8.00	--	6.43	3.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	7.01	

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #4494
566 Hegenberger Rd., Oakland, 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	12/22/2004	--		10.41	8.00	--	5.73	4.68	--	--	--	--	--	--	--	--
	02/23/2005	P		10.41	8.00	--	4.61	5.80	<50	<0.50	<0.50	<0.50	<0.50	5.0	2.6	7.1
MW-7	6/20/2000	--	a	105.52	9.00	--	8.65	96.87	<50	<0.5	<0.5	<0.5	<1.0	13/13	---	---
	9/28/2000	--	a	105.52	9.00	--	8.75	96.77	<50	<0.5	<0.5	<0.5	<1.0	136/261	---	---
	12/17/2000	--		105.52	9.00	--	8.62	96.90	<50	<0.5	<0.5	<0.5	<0.5	27.1	---	---
	3/28/2001	--		105.52	9.00	--	8.66	96.86	<50	<0.5	<0.5	<0.5	<0.5	51.5	---	---
	6/21/2001	--		105.52	9.00	--	8.84	96.68	<50	<0.5	<0.5	<0.5	<0.5	53	---	---
	9/23/2001	--	a	105.52	9.00	--	8.75	96.77	<50	<0.5	<0.5	<0.5	<0.5	35/21	---	---
	12/23/2001	--		105.52	9.00	--	7.79	97.73	<50	<0.5	<0.5	<0.5	<0.5	440	---	---
	3/14/2002	--		105.52	9.00	--	8.30	97.22	<50	<0.5	<0.5	<0.5	<0.5	18	---	---
	4/17/2002	--		105.52	9.00	--	7.43	98.09	<50	<0.5	<0.5	<0.5	<0.5	67	---	---
	8/8/2002	--	a, b	105.52	9.00	--	8.61	96.91	55	<0.5	<0.5	<0.5	<0.5	130/100	1.1	7.1
	12/12/2002	--	a, d, h	105.52	9.00	--	8.55	---	75	<0.5	<0.5	<0.5	<0.5	160/130	1.2	7.0
	3/20/2003	--	e	105.52	9.00	--	8.38	---	<50	<0.50	<0.50	<0.50	<0.50	32	2.2	7.2
	6/23/2003	--		105.52	9.00	--	8.37	---	<50	<0.50	<0.50	<0.50	<0.50	14	0.8	7.1
	9/22/2003	--	f	10.51	9.00	--	8.95	1.56	<50	<0.50	<0.50	<0.50	<0.50	5.3	2.2	7.2
	12/03/2003	P		10.51	9.00	--	8.86	1.65	<50	<0.50	<0.50	<0.50	<0.50	4.2	0.1	7.2
	03/18/2004	P		10.51	9.00	--	8.03	2.48	<50	<0.50	<0.50	<0.50	<0.50	3.0	1.0	7.2
	05/25/2004	P		10.51	9.00	--	8.37	2.14	<50	<0.50	<0.50	<0.50	<0.50	4.1	0.7	7.1
	09/22/2004	P		10.51	9.00	--	8.90	1.61	<50	<0.50	<0.50	<0.50	<0.50	2.3	0.9	7.27
	12/22/2004	P		10.51	9.00	--	7.90	2.61	<50	<0.50	<0.50	<0.50	<0.50	2.7	2.8	7.2
	02/23/2005	P		10.51	9.00	--	8.23	2.28	180	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	7.1
RW-1	6/20/2000	--		---	--	--	8.21	---	<50	<0.5	1.1	<0.5	<1.0	<10	---	---
	9/28/2000	--		---	--	--	8.28	---	<50	<0.5	<0.5	<0.5	<1.0	<2.5	---	---
	12/17/2000	--		---	--	--	8.29	---	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/28/2001	--		---	--	--	8.16	---	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	6/21/2001	--		---	--	--	9.37	---	160	5.1	<0.5	1.1	3.2	<2.5	---	---
	9/23/2001	--		---	--	--	8.75	---	57	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	12/31/2001	--		---	--	--	6.80	---	520	3.1	<0.5	6.4	4.7	<2.5	---	---
	3/14/2002	--		---	--	--	7.86	---	240	3.7	<0.5	0.7	2.8	<2.5	---	---
	4/17/2002	--		---	--	--	7.13	---	<50	<0.5	1.6	<0.5	0.72	<2.5	---	---
	8/8/2002	--	a, c	---	--	--	8.48	---	<50	<0.5	<0.5	<0.5	<0.5	3.7/<0.5	1.1	7.0
	12/12/2002	--		---	--	--	8.63	---	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1.9	6.9

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #4494
566 Hegenberger Rd., Oakland, 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	3/20/2003	--	e	---	--	--	8.08	---	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	7.3
	6/23/2003	--		---	--	--	8.28	---	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.3
	9/22/2003	--	f	11.97	--	--	8.42	3.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	7.1
	12/03/2003	--	g	11.97	--	--	8.05	3.92	--	--	--	--	--	--	--	--
	03/18/2004	P		11.97	--	--	7.18	4.79	50	0.54	<0.50	<0.50	<0.50	<0.50	0.9	7.1
	05/25/2004	--	g	11.97	--	--	8.32	3.65	--	--	--	--	--	--	--	--
	09/22/2004	P		11.97	--	--	8.42	3.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	6.7
	12/22/2004	--		11.97	--	--	7.23	4.74	--	--	--	--	--	--	--	--
	02/23/2005	P		11.97	--	--	6.89	5.08	190	<0.50	<0.50	<0.50	<0.50	<0.50	0.71	7.2

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #4494
566 Hegenberger Rd., Oakland, CA

SYMBOLS AND ABBREVIATIONS:

--- = Not calculated, surveyed, available, applicable, analyzed.
< = Not detected at or above specified laboratory reporting limit.
DO = Dissolved oxygen
DTW = Depth to water
ft bgs = Feet below ground surface
GRO = Gasoline range organics
GWE = Groundwater elevation
mg/L = Milligrams per liter
MSL = Mean sea level
MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B prior to 3/20/03 unless otherwise noted.
TPH-g = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8015M prior to 3/20/03 and by 8260b henceforth.
TOC = Top of casing
ug/L = Micrograms per liter

FOOTNOTES:

a = MTBE confirmation analyzed by EPA Method 8260
b = Hydrocarbon pattern is present in the requested fuel quantitation range for TPHg/GRO but does not resemble the pattern of the requested fuel.
c = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
d = Analyzed by EPA Method 8215B/8021B for TPHg/GRO.
e = TPH-g, BTEX, and MTBE analyzed by EPA method 8260B beginning on 2003 sampling event (03/20/03)
f = Top of casing elevations were re-surveyed on July 18, 2003 by URS Corporation of Pleasant Hill, CA
g = Wells MW-3, MW-4, MW-5, MW-6 and RW-1 are sampled semi-annually in the 1st and 3rd quarters.
h = Top of casing was found shattered on December 12, 2002. Top of Casing (TOC) unknown.

NOTES:

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

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPHg was changed to GRO. The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

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

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

Table 2

Fuel Additives Analytical Data
 ARCO Service Station #4494
 566 Hegenberger Rd., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Footnotes/ Comments
MW-1	3/20/2003	<1,000	640	780	<5.0	<5.0	<5.0	---	---	
	6/23/2003	<1,000	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	
	9/22/2003	<100	250	17	<0.50	<0.50	<0.50	---	---	
	12/03/2003	<500	<100	260	<2.5	<2.5	<2.5	--	--	
	03/18/2004	<500	<100	130	<2.5	<2.5	<2.5	<2.5	<2.5	
	05/25/2004	<500	<100	120	<2.5	<2.5	<2.5	<2.5	<2.5	
	09/22/2004	<200	<40	140	<1.0	<1.0	<1.0	<1.0	<1.0	
	12/22/2004	<1,000	<200	74	<5.0	<5.0	<5.0	<5.0	<5.0	
02/23/2005	<100	<20	6.0	<0.50	<0.50	2.4	<0.50	<0.50		
MW-3	3/20/2003	<100	<20	601	<0.50	<0.50	1.1	---	---	
	6/23/2003	<100	<20	5.2	<0.50	<0.50	0.75	<0.50	<0.50	
	9/22/2003	<100	<20	3.9	<0.50	<0.50	<0.50	---	---	
	03/18/2004	<100	<20	4.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	4.7	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/23/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4	3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	---	---	
	6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	---	---	
	03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/23/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5	3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	---	---	
	6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	---	---	
	03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/23/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-6	3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	---	---	
	6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	---	---	
	03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

Fuel Additives Analytical Data
 ARCO Service Station #4494
 566 Hegenberger Rd., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Footnotes/ Comments
MW-6	02/23/2005	<100	140	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7	3/20/2003	<100	<20	21	<0.50	<0.50	0.62	---	---	
	6/23/2003	<100	170	14	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/22/2003	<100	170	5.3	<0.50	<0.50	<0.50	---	---	
	12/03/2003	<100	85	4.2	<0.50	<0.50	<0.50	--	--	
	03/18/2004	<100	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	a
	05/25/2004	<100	43	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/22/2004	<100	34	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/23/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
RW-1	3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	---	---	
	6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	---	---	
	03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/23/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

Fuel Additives Analytical Data ARCO Service Station #4494 566 Hegenberger Rd., Oakland, CA

SYMBOLS AND ABBREVIATIONS:

< = Not detected at or above the laboratory reporting limit

--- = Not analyzed, sampled, available

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 continuing calibration verification was outside of client contractual acceptance limits. However, it was within method acceptance limits and should be useful for its intended purpose.

NOTES:

All fuel oxygenate compounds were analyzed using EPA Method 8260B.

Table 3

Groundwater Gradient Data
ARCO Service Station #4494
566 Hegenberger Rd., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
6/20/2000	North-Northeast	0.02
9/28/2000	North	0.02
12/17/2000	North-Northwest	0.01
3/28/2001	Northwest	0.01
6/21/2001	North	0.02
9/23/2001	North	0.02
12/31/2001	North-Northwest	0.02
3/14/2002	North-Northwest	0.02
4/14/2002	Northwest	0.01
8/8/2002	North-Northwest	0.02
12/12/2002	North-Northwest	0.02
3/20/2003	North-Northwest	0.02
6/23/2003	Northwest	0.01
9/22/2003	Northwest	0.02
12/3/2003	Northwest	0.01
3/18/2004	North-Northwest	0.01
5/25/2004	North-Northwest	0.01
9/22/2004	North-Northwest	0.02
12/22/2004	Northwest	0.02
2/23/2005	Northwest	0.02 (onsite)

NOTE:

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

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 # 050223-P01 Date 2/23/05 Client Arco 4494

Site 566 Hezenberger Rd., Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOB	
MW-1	4					7.03	23.07	TOB	
MW-3	4					8.75	17.86	↓	NP@7'
MW-4	4					7.74	16.57		NP@7'
MW-5	2					5.36	16.97		
MW-6	2					4.61	18.09		
MW-7	4					8.23	13.46		
RW-1	2					6.89	11.28		

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050213-01</u>	Station # <u>Arco494</u>
Sampler: <u>pc</u>	Date: <u>2/23/05</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>23.07</u>	Depth to Water: <u>7.03</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: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Positive Air Displacement Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____ 10.24 ⇒ 80% recharge

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>10.4</u>	X	<u>3</u>	=	<u>31.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
<u>1042</u>	<u>66.1</u>	<u>7.6</u>	<u>10.11</u>	<u>10.5</u>	<u>clear</u>
				<u>pc</u>	
				<u>21</u>	
	<u>66.8</u>	<u>7.2</u>	<u>15.71</u>	<u>DTW-1750</u>	<u>sitedeparture</u>

Did well dewater? Yes No Gallons actually evacuated: 16.5

Sampling Time: 1052 Sampling Date: 2/23/05

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

Analyzed for: GRO BTEX MTBE DRO Other: seela

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050223-PC1</u>	Station # <u>Arco 4494</u>
Sampler: <u>PC</u>	Date: <u>2/23/05</u>
Well I.D.: <u>MU-3</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>17.06</u>	Depth to Water: <u>8.75</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RS2</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: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: <u>10-57</u>
--	--

Top of Screen: 7 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>5.9</u>	x	<u>3</u>	=	<u>17.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>9:50</u>	<u>62.9</u>	<u>8.2</u>	<u>2004</u>		

Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated:
Sampling Time: <u>9:50</u>	Sampling Date: <u>2/23/05</u>
Sample I.D.: <u>MU-3</u>	Laboratory: Pace <u>Sequa</u> Other _____
Analyzed for: GRO BTEX MTBE DRO Other: <u>cececa</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: <u>1.6</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050223-R1</u>	Station # <u>Arco: 4494</u>
Sampler: <u>A</u>	Date: <u>2/23/05</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>16.57</u>	Depth to Water: <u>7.74</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVT</u> Grade	D.O. Meter (if req'd): <u>CS</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 Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
--	--

Top of Screen: 7' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

_____	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>840</u>	<u>62.1</u>	<u>7.3</u>	<u>1115</u>	-	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: _____	
Sampling Time: <u>840</u>	Sampling Date: <u>2/23/05</u>	
Sample I.D.: <u>MW-4</u>	Laboratory: Pace <u>Sequa</u> Other _____	
Analyzed for: GRO BTEX MTBE DRO Other: <u>see COC</u>		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>1.1</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050223-PC1</u>	Station # <u>Arco 4414</u>
Sampler: <u>pc</u>	Date: <u>2/23/05</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>16.97</u>	Depth to Water: <u>5.36</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): <u>YS</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: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
--	---

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

<u>1.9</u>	x	<u>3</u>	=	<u>5.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>915</u>	<u>65.0</u>	<u>7.2</u>	<u>9871</u>	<u>2</u>	
<u>918</u>	<u>66.4</u>	<u>7.2</u>	<u>11.46 mS</u>	<u>4</u>	
<u>920</u>	<u>66.7</u>	<u>7.2</u>	<u>10.68 mS</u>	<u>6</u>	

Did well dewater? Yes <input checked="" type="checkbox"/> <u>NO</u>	Gallons actually evacuated: <u>6</u>
Sampling Time: <u>926</u>	Sampling Date: <u>2/23/05</u>
Sample I.D.: <u>MW-5</u>	Laboratory: Pace <u>Sequon</u> Other _____
Analyzed for: GRO BTEX MTBE DRO	Other: <u>see LOC</u>
D.O. (if req'd):	Pre-purge: _____ mg/L Post-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>050223-PCA</u>	Station # <u>Arco 4494</u>
Sampler: <u>PC</u>	Date: <u>2/23/05</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>10.09</u>	Depth to Water: <u>4.61</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YS</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> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

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

<u>2.2</u>	X	<u>3</u>	=	<u>6.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
854	65.2	7.0	5650	2.2	cloudy
857	66.1	7.1	5874	4.4	↓
900	66.3	7.1	5874	6.6	

Did well dewater? Yes Gallons actually evacuated: 6.6

Sampling Time: 908 Sampling Date: 2/23/05

Sample I.D.: MW-6 Laboratory: Pace Sequola Other _____

Analyzed for: GRO BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050223-PC1</u>	Station # <u>Arco 4494</u>
Sampler: <u>PC</u>	Date: <u>2/23/05</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>13.46</u>	Depth to Water: <u>8.23</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(VSI)</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: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

9.23 ≈ 80% recharge

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>3.4</u>	x	<u>3</u>	=	<u>10.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>1002</u>	<u>63.4</u>	<u>7.2</u>	<u>4355</u>	<u>3.5</u>	<u>'gold', clear</u>
<u>1008</u>	<u>well dewatered</u>	<u>7.1</u>	<u>11.99 mS</u>	<u>DTW-925</u>	
<u>1000</u>	<u>64.8</u>	<u>7.1</u>	<u>11.99 mS</u>	<u>DTW-925</u>	

Did well dewater? Yes No Gallons actually evacuated: 6.5

Sampling Time: 1016 Sampling Date: 2/23/05

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

Analyzed for: GRO BTEX MTBE DRO Other: see LOD

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.3 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050223-R1</u>	Station # <u>Arco494</u>
Sampler: <u>R</u>	Date: <u>2/23/05</u>
Well I.D.: <u>RW-1</u>	Well Diameter: <u>3</u> 3 4 6 8 _____
Total Well Depth: <u>11.28</u>	Depth to Water: <u>6.87</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> <u>EV</u> Grade	D.O. Meter (if req'd): <input checked="" type="checkbox"/> <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: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer
 Positive Air Displacement Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

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

<u>0.7</u>	X	<u>3</u>	=	<u>2.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (µS or µS)	Gals. Removed	Observations
932	57.9	7.3	12.09	0.7	
933	58.9	7.2	13.40	1.4	
935	58.8	7.2	14.00	2.1	

Did well dewater? Yes Gallons actually evacuated: 2.1

Sampling Time: 942 Sampling Date: 2/23/05

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

Analyzed for: GRO BTEX MTBE DRO Other: see col

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

BP GEM OIL COMPANY TYPE A BILL OF LADING

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

The contractor performing this work is 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:

Arco 4494

Station #

566 Hagenbayer Rd., Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

37.9

added equip. any other
rinse water 13.3 adjustments

TOTAL GALS. RECOVERED 51

loaded onto
BTS vehicle # 48

BTS event # time date
050223-PL 1100 2/23/05

signature P.H. Liu

REC'D AT time date
BTS 1530 2/23/05

unloaded by signature P.H. Liu

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 noted on 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.



8 March, 2005

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

RE: ARCO #4494, Oakland, CA
Work Order: MOB0686

Enclosed are the results of analyses for samples received by the laboratory on 02/24/05 09:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Race".

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #4494, Oakland, CA Project Number: G09JZ-0201 Project Manager: Scott Robinson	MOB0686 Reported: 03/08/05 13:22
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOB0686-01	Water	02/23/05 10:52	02/24/05 09:07
MW-3	MOB0686-02	Water	02/23/05 09:50	02/24/05 09:07
MW-4	MOB0686-03	Water	02/23/05 08:40	02/24/05 09:07
MW-5	MOB0686-04	Water	02/23/05 09:26	02/24/05 09:07
MW-6	MOB0686-05	Water	02/23/05 09:08	02/24/05 09:07
MW-7	MOB0686-06	Water	02/23/05 10:16	02/24/05 09:07
RW-1	MOB0686-07	Water	02/23/05 09:42	02/24/05 09:07
TB-449402232005	MOB0686-08	Water	02/23/05 00:00	02/24/05 09:07

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 #4494, Oakland, CA Project Number: G09JZ-0201 Project Manager: Scott Robinson	MOB0686 Reported: 03/08/05 13:22
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Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-1 (MOB0686-01) Water Sampled: 02/23/05 10:52 Received: 02/24/05 09:07

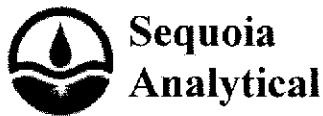
tert-Amyl methyl ether	2.4	0.50	ug/l	1	5C02012	03/02/05	03/03/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	6.0	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 85 % 60-135 " " " "

MW-3 (MOB0686-02) Water Sampled: 02/23/05 09:50 Received: 02/24/05 09:07

tert-Amyl methyl ether	ND	0.50	ug/l	1	5C02012	03/02/05	03/03/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	

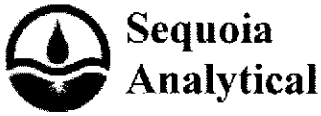
Surrogate: 1,2-Dichloroethane-d4 87 % 60-135 " " " "



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #4494, Oakland, CA Project Number: G09JZ-0201 Project Manager: Scott Robinson	MOB0686 Reported: 03/08/05 13:22
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Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MOB0686-03) Water Sampled: 02/23/05 08:40 Received: 02/24/05 09:07									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5C02012	03/02/05	03/03/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	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>		88 %	60-135	"	"	"	"	"	
MW-5 (MOB0686-04) Water Sampled: 02/23/05 09:26 Received: 02/24/05 09:07									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5C02012	03/02/05	03/03/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	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>		88 %	60-135	"	"	"	"	"	



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

Project: ARCO #4494, Oakland, CA
 Project Number: G09JZ-0201
 Project Manager: Scott Robinson

MOB0686
 Reported:
 03/08/05 13:22

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-6 (MOB0686-05) Water Sampled: 02/23/05 09:08 Received: 02/24/05 09:07										
tert-Amyl methyl ether	ND	0.50		ug/l	1	5C02012	03/02/05	03/03/05	EPA 8260B	
Benzene	ND	0.50		"	"	"	"	"	"	
tert-Butyl alcohol	140	20		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
Ethanol	ND	100		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Methyl tert-butyl ether	5.0	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>		81 %		60-135		"	"	"	"	
MW-7 (MOB0686-06) Water Sampled: 02/23/05 10:16 Received: 02/24/05 09:07										
tert-Amyl methyl ether	ND	0.50		ug/l	1	5C02012	03/02/05	03/03/05	EPA 8260B	
Benzene	ND	0.50		"	"	"	"	"	"	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
Ethanol	ND	100		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	180	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89 %		60-135		"	"	"	"	

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

Project: ARCO #4494, Oakland, CA
Project Number: G09JZ-0201
Project Manager: Scott Robinson

MOB0686
Reported:
03/08/05 13:22

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (MOB0686-07) Water Sampled: 02/23/05 09:42 Received: 02/24/05 09:07									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5C03006	03/03/05	03/03/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	190	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98 %		60-135	"	"	"	"	

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Reported:
03/08/05 13:22

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5C02012 - EPA 5030B P/T / EPA 8260B
Blank (5C02012-BLK1)

Prepared & Analyzed: 03/02/05

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							

Surrogate: 1,2-Dichloroethane-d4

4.63

"

5.00

93

60-135

Laboratory Control Sample (5C02012-BS1)

Prepared & Analyzed: 03/02/05

tert-Amyl methyl ether	10.6	0.50	ug/l	10.0	106	80-115
Benzene	9.83	0.50	"	10.0	98	65-115
tert-Butyl alcohol	48.8	20	"	50.0	98	75-150
Di-isopropyl ether	10.9	0.50	"	10.0	109	75-125
1,2-Dibromoethane (EDB)	9.80	0.50	"	10.0	98	85-120
1,2-Dichloroethane	10.1	0.50	"	10.0	101	85-130
Ethanol	188	100	"	200	94	70-135
Ethyl tert-butyl ether	10.6	0.50	"	10.0	106	75-130
Ethylbenzene	9.83	0.50	"	10.0	98	75-135
Methyl tert-butyl ether	10.6	0.50	"	10.0	106	65-125
Toluene	9.71	0.50	"	10.0	97	85-120
Xylenes (total)	30.9	0.50	"	30.0	103	85-125

Surrogate: 1,2-Dichloroethane-d4

4.47

"

5.00

89

60-135

Sequoia Analytical - Morgan Hill

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 Project Manager: Scott Robinson

 MOB0686
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 03/08/05 13:22

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 5C02012 - EPA 5030B P/T / EPA 8260B
Laboratory Control Sample (5C02012-BS2)

Prepared & Analyzed: 03/02/05

Benzene	5.65	0.50	ug/l	6.40		88	65-115			
Ethylbenzene	7.86	0.50	"	7.52		105	75-135			
Methyl tert-butyl ether	9.43	0.50	"	9.92		95	65-125			
Toluene	32.6	0.50	"	31.9		102	85-120			
Xylenes (total)	40.0	0.50	"	36.6		109	85-125			
Gasoline Range Organics (C4-C12)	425	50	"	440		97	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.65</i>		<i>"</i>	<i>5.00</i>		<i>93</i>	<i>60-135</i>			

Laboratory Control Sample Dup (5C02012-BSD1)

Prepared & Analyzed: 03/02/05

tert-Amyl methyl ether	10.6	0.50	ug/l	10.0		106	80-115	0	15	
Benzene	9.59	0.50	"	10.0		96	65-115	2	20	
tert-Butyl alcohol	49.0	20	"	50.0		98	75-150	0.4	25	
Di-isopropyl ether	11.1	0.50	"	10.0		111	75-125	2	15	
1,2-Dibromoethane (EDB)	9.64	0.50	"	10.0		96	85-120	2	15	
1,2-Dichloroethane	10.5	0.50	"	10.0		105	85-130	4	20	
Ethanol	206	100	"	200		103	70-135	9	35	
Ethyl tert-butyl ether	10.8	0.50	"	10.0		108	75-130	2	25	
Ethylbenzene	9.49	0.50	"	10.0		95	75-135	4	15	
Methyl tert-butyl ether	10.7	0.50	"	10.0		107	65-125	0.9	20	
Toluene	9.30	0.50	"	10.0		93	85-120	4	20	
Xylenes (total)	29.0	0.50	"	30.0		97	85-125	6	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.43</i>		<i>"</i>	<i>5.00</i>		<i>89</i>	<i>60-135</i>			

Matrix Spike (5C02012-MS1)

Source: MOB0689-01

Prepared & Analyzed: 03/02/05

Benzene	376	25	ug/l	320	120	80	65-115			
Ethylbenzene	444	25	"	376	75	98	75-135			
Methyl tert-butyl ether	1600	25	"	496	1300	60	65-125			LN
Toluene	1450	25	"	1600	14	90	85-120			
Xylenes (total)	2010	25	"	1830	88	105	85-125			
Gasoline Range Organics (C4-C12)	21400	2500	"	22000	3500	81	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>3.92</i>		<i>"</i>	<i>5.00</i>		<i>78</i>	<i>60-135</i>			

Sequoia Analytical - Morgan Hill

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Project: ARCO #4494, Oakland, CA
Project Number: G09JZ-0201
Project Manager: Scott Robinson

MOB0686
Reported:
03/08/05 13:22

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 5C02012 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (5C02012-MSD1)	Source: MOB0689-01	Prepared & Analyzed: 03/02/05								
Benzene	394	25	ug/l	320	120	86	65-115	5	20	
Ethylbenzene	472	25	"	376	75	106	75-135	6	15	
Methyl tert-butyl ether	1720	25	"	496	1300	85	65-125	7	20	
Toluene	1580	25	"	1600	14	98	85-120	9	20	
Xylenes (total)	2050	25	"	1830	88	107	85-125	2	20	
Gasoline Range Organics (C4-C12)	22600	2500	"	22000	3500	87	70-124	5	20	
Surrogate: 1,2-Dichloroethane-d4	4.28		"	5.00		86	60-135			

Batch 5C03006 - EPA 5030B P/T / EPA 8260B

Blank (5C03006-BLK1)	Prepared & Analyzed: 03/03/05									
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	4.85		"	5.00		97	60-135			

Laboratory Control Sample (5C03006-BS1)	Prepared & Analyzed: 03/03/05									
tert-Amyl methyl ether	10.5	0.50	ug/l	10.0		105	80-115			
Benzene	9.94	0.50	"	10.0		99	65-115			
tert-Butyl alcohol	49.0	20	"	50.0		98	75-150			
Di-isopropyl ether	11.2	0.50	"	10.0		112	75-125			
1,2-Dibromoethane (EDB)	9.47	0.50	"	10.0		95	85-120			
1,2-Dichloroethane	10.4	0.50	"	10.0		104	85-130			
Ethanol	201	100	"	200		100	70-135			
Ethyl tert-butyl ether	10.9	0.50	"	10.0		109	75-130			
Ethylbenzene	10.2	0.50	"	10.0		102	75-135			
Methyl tert-butyl ether	10.6	0.50	"	10.0		106	65-125			

Sequoia Analytical - Morgan Hill

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 Oakland CA, 94612

 Project: ARCO #4494, Oakland, CA
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 Project Manager: Scott Robinson

 MOB0686
 Reported:
 03/08/05 13:22

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 5C03006 - EPA 5030B P/T / EPA 8260B
Laboratory Control Sample (5C03006-BS1)

Prepared & Analyzed: 03/03/05

Toluene	9.62	0.50	ug/l	10.0		96	85-120			
Xylenes (total)	31.2	0.50	"	30.0		104	85-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.74</i>		"	<i>5.00</i>		<i>95</i>	<i>60-135</i>			

Laboratory Control Sample (5C03006-BS2)

Prepared & Analyzed: 03/03/05

Benzene	5.52	0.50	ug/l	6.40		86	65-115			
Ethylbenzene	7.62	0.50	"	7.52		101	75-135			
Methyl tert-butyl ether	9.78	0.50	"	9.92		99	65-125			
Toluene	31.1	0.50	"	31.9		97	85-120			
Xylenes (total)	39.2	0.50	"	36.6		107	85-125			
Gasoline Range Organics (C4-C12)	399	50	"	440		91	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.94</i>		"	<i>5.00</i>		<i>99</i>	<i>60-135</i>			

Laboratory Control Sample Dup (5C03006-BSD1)

Prepared & Analyzed: 03/03/05

tert-Amyl methyl ether	10.2	0.50	ug/l	10.0		102	80-115	3	15	
Benzene	9.52	0.50	"	10.0		95	65-115	4	20	
tert-Butyl alcohol	49.2	20	"	50.0		98	75-150	0.4	25	
Di-isopropyl ether	11.8	0.50	"	10.0		118	75-125	5	15	
1,2-Dibromoethane (EDB)	9.36	0.50	"	10.0		94	85-120	1	15	
1,2-Dichloroethane	9.84	0.50	"	10.0		98	85-130	6	20	
Ethanol	197	100	"	200		98	70-135	2	35	
Ethyl tert-butyl ether	10.5	0.50	"	10.0		105	75-130	4	25	
Ethylbenzene	9.60	0.50	"	10.0		96	75-135	6	15	
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	65-125	4	20	
Toluene	9.01	0.50	"	10.0		90	85-120	7	20	
Xylenes (total)	30.4	0.50	"	30.0		101	85-125	3	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.48</i>		"	<i>5.00</i>		<i>90</i>	<i>60-135</i>			

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 MOB0686
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 03/08/05 13:22

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5C03006 - EPA 5030B P/T / EPA 8260B

Matrix Spike (5C03006-MS1)		Source: MOB0687-01			Prepared & Analyzed: 03/03/05					
Benzene	5220	50	ug/l	640	4500	112	65-115			
Ethylbenzene	1840	50	"	752	1000	112	75-135			
Methyl tert-butyl ether	1110	50	"	992	130	99	65-125			
Toluene	3440	50	"	3190	110	104	85-120			
Xylenes (total)	5550	50	"	3660	1500	111	85-125			
Gasoline Range Organics (C4-C12)	59200	5000	"	44000	17000	96	70-124			

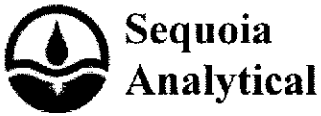
Surrogate: 1,2-Dichloroethane-d4 5.02 " 5.00 100 60-135

Matrix Spike (5C03006-MS2)		Source: MOB0741-05			Prepared: 03/03/05 Analyzed: 03/04/05					
tert-Amyl methyl ether	10.7	0.50	ug/l	10.0	ND	107	80-115			
Benzene	10.2	0.50	"	10.0	ND	102	65-115			
tert-Butyl alcohol	48.1	20	"	50.0	ND	96	75-120			
Di-isopropyl ether	11.2	0.50	"	10.0	ND	112	75-125			
1,2-Dibromoethane (EDB)	9.70	0.50	"	10.0	ND	97	85-120			
1,2-Dichloroethane	11.1	0.50	"	10.0	ND	111	85-130			
Ethanol	187	100	"	200	ND	94	70-135			
Ethyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	75-130			
Ethylbenzene	10.4	0.50	"	10.0	ND	104	75-135			
Methyl tert-butyl ether	11.9	0.50	"	10.0	1.4	105	65-125			
Toluene	9.90	0.50	"	10.0	0.16	97	85-120			
Xylenes (total)	33.2	0.50	"	30.0	ND	111	85-125			

Surrogate: 1,2-Dichloroethane-d4 4.78 " 5.00 96 60-135

Matrix Spike Dup (5C03006-MSD1)		Source: MOB0687-01			Prepared & Analyzed: 03/03/05					
Benzene	5070	50	ug/l	640	4500	89	65-115	3	20	
Ethylbenzene	1720	50	"	752	1000	96	75-135	7	15	
Methyl tert-butyl ether	999	50	"	992	130	88	65-125	11	20	
Toluene	3200	50	"	3190	110	97	85-120	7	20	
Xylenes (total)	5340	50	"	3660	1500	105	85-125	4	20	
Gasoline Range Organics (C4-C12)	53300	5000	"	44000	17000	82	70-124	10	20	

Surrogate: 1,2-Dichloroethane-d4 4.29 " 5.00 86 60-135



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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 5C03006 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (5C03006-MSD2)	Source: MOB0741-05			Prepared: 03/03/05		Analyzed: 03/04/05				
tert-Amyl methyl ether	11.0	0.50	ug/l	10.0	ND	110	80-115	3	15	
Benzene	10.4	0.50	"	10.0	ND	104	65-115	2	20	
tert-Butyl alcohol	49.1	20	"	50.0	ND	98	75-120	2	25	
Di-isopropyl ether	11.6	0.50	"	10.0	ND	116	75-125	4	15	
1,2-Dibromoethane (EDB)	9.77	0.50	"	10.0	ND	98	85-120	0.7	15	
1,2-Dichloroethane	11.7	0.50	"	10.0	ND	117	85-130	5	20	
Ethanol	188	100	"	200	ND	94	70-135	0.5	35	
Ethyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	75-130	2	25	
Ethylbenzene	10.4	0.50	"	10.0	ND	104	75-135	0	15	
Methyl tert-butyl ether	12.8	0.50	"	10.0	1.4	114	65-125	7	20	
Toluene	10.3	0.50	"	10.0	0.16	101	85-120	4	20	
Xylenes (total)	33.0	0.50	"	30.0	ND	110	85-125	0.6	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.89</i>		<i>"</i>	<i>5.00</i>		<i>98</i>	<i>60-135</i>			

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

Project:ARCO #4494, Oakland, CA
Project Number:G09JZ-0201
Project Manager:Scott Robinson

MOB0686
Reported:
03/08/05 13:22

Notes and Definitions

LN MS and/or MSD below 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: Acad 4494
 REC. BY (PRINT): L. Pawlak
 WORKORDER: MOB 6684

DATE REC'D AT LAB: 7-24-05
 TIME REC'D AT LAB: 09:07
 DATE LOGGED IN: 2-25-05

For Regulatory Purposes?
 DRINKING WATER YES / NO
 WASTE WATER YES / 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 <input checked="" type="radio"/> Intact / Broken*	01		mw-1	1102-3	HCL	7	L	7-28-05	
2. Chain-of-Custody	<input checked="" type="radio"/> Present / Absent*	02		-3						
3. Traffic Reports or Packing List:	<input checked="" type="radio"/> Present / Absent	03		-4						
4. Airbill:	<input checked="" type="radio"/> Airbill / Sticker <input checked="" type="radio"/> Present / Absent	04		-5						
5. Airbill #:		05		-6						
6. Sample Labels:	<input checked="" type="radio"/> Present / Absent	06		-7						
7. Sample IDs:	<input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody	07		RW-1						
8. Sample Condition:	<input checked="" type="radio"/> Intact / Broken* / Leaking*	08		713-4494-0223205	UD-2					
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: Is temp 4 +/- 2°C? (Acceptance range for samples requiring thermal pres.)	<input checked="" type="radio"/> Yes / No**									

**Exception (if any): METALS / DFF ON ICE or Problem COC

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

ATTACHMENT C
HISTORICAL GROUNDWATER DATA

Table 2
Liquid Surface Elevation Data

ARCO Service Station 4494
668 Hegarberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPM Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-1	08/08/90	105.31	6.65	6.05	0.00	95.66
	08/19/90		7.00	7.00	0.00	98.31
	08/21/90		7.05	7.05	0.00	98.26
	09/07/90		7.24	7.24	0.00	98.07
	11/20/90		7.48	7.48	0.00	97.85
	11/29/90		7.40	7.40	0.00	97.91
	12/18/90		6.99	6.99	0.00	98.32
	01/28/91		7.23	7.23	0.00	98.08
	02/27/91		7.45	7.45	0.00	97.86
	03/07/91		6.96	6.96	0.00	98.35
	03/28/91		6.02	6.02	0.00	98.29
	05/02/91		7.04	7.04	0.00	98.27
	05/27/91		6.71	6.71	0.00	98.60
	07/24/91		6.91	6.91	0.00	98.40
	08/22/91		6.85	6.85	0.00	98.48
	09/30/91		7.04	7.04	0.00	98.27
	10/17/91		7.22	7.22	0.00	98.09
	11/21/91		7.17	7.17	0.00	98.14
	12/18/91		7.48	7.48	0.00	97.85
	01/19/92		7.44	7.44	0.00	97.87
	02/23/92		6.28	6.28	0.00	98.06
	03/20/92		6.40	6.40	0.00	98.91
	04/20/92		6.88	6.88	0.00	98.43
	05/19/92		7.10	7.10	0.00	98.21
	06/06/92		7.22	7.22	0.00	98.09
	07/15/92		7.82	7.82	0.00	97.39
	08/05/92		7.29	7.29	0.00	98.31
	10/29/92		7.34	7.34	0.00	98.76
	11/28/92		8.15	8.15	0.00	87.93
	08/18/93		7.28	7.28	0.00	98.87
	11/17/93		7.53	7.51	0.00	98.59
	02/21/94		6.98	6.98	0.00	98.54
05/11/94	6.67	6.67	0.00	98.53		
08/12/94	7.12	7.32	0.00	98.98		
11/17/94	6.88	6.88	0.00	99.28		
02/22/95	7.26	7.36	0.00	98.75		
05/24/95	7.07	7.07	0.00	98.09		
08/23/95	7.10	7.10	0.00	98.68		
11/17/95	7.72	7.72	0.00	98.38		
MW-2	08/08/90	108.78	9.82	9.00	0.92	95.66
	08/16/90		NM	NM	0.17	NM
	08/21/90		NM	NM	0.17	NM
	08/07/90		8.34	8.17	0.17	98.44
	11/20/90		9.20	9.2	Sheen	98.58
	11/29/90		9.92	9.82	Sheen	98.89
	12/18/90		8.88	8.88	0.00	98.83
	01/29/91		8.01	8.01	Sheen	98.77
	02/27/91		8.14	8.14	Sheen	98.84
	03/07/91		8.94	8.94	Sheen	98.94
	03/29/91		8.11	8.11	Sheen	97.87
	05/02/91		8.72	8.72	0	97.08

33004128WQ05TBL9.XLS!Table2

Recreated from hard copies of tables developed by Pacific Environmental Group, Inc.

February 15, 1996

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
666 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TDC)	Depth to Liquid (feet, TDC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-2 (cont.)	08/27/91	108.57	9.20	9.2	Sheen	98.59
	07/24/91		9.25	9.25	0.00	98.53
	09/22/91		9.20	9.20	0.00	98.55
	09/30/91		9.31	9.31	Sheen	98.47
	10/17/91		9.39	9.39	Sheen	98.39
	11/21/91		9.20	9.2	0	98.55
	12/18/91		9.28	9.23	Sheen	98.55
	01/16/92		9.96**	9.98	Skimmer	98.52
	02/20/92		9.13**	9.13	Skimmer	98.65
	03/20/92		9.31**	9.31	Skimmer	98.47
	04/20/92		9.69	9.69	Skimmer	98.08
	05/19/92		9.92	9.92	Skimmer	98.66
	08/03/92		9.84	9.84	Skimmer	98.94
	08/08/92		10.19	10.19	Skimmer	98.99
	09/09/92		10.05	10.05	Skimmer	98.82
	10/29/92		10.00	10.00	Skimmer	98.57
11/23/92	9.58	9.57	0.01	98.89		
		Well Destroyed				
MW-3	09/16/90	105.61	8.97	8.97	0.00	98.94
	09/21/90		8.95	8.95	0.00	98.88
	09/07/90		8.98	8.98	0.00	98.53
	11/20/90		8.10	8.10	0.00	98.41
	11/29/90		8.06	8.06	0.00	98.45
	12/19/90		8.67	8.67	0.00	98.84
	01/29/91		8.98	8.98	0.00	98.65
	02/27/91		8.71	8.71	0.00	98.80
	03/07/91		8.49	8.49	0.00	97.02
	03/29/91		7.85	7.85	0.00	97.88
	05/02/91		8.82	8.82	0.00	98.89
	06/27/91		8.94	8.94	0.00	98.57
	07/24/91		8.98	8.98	0.00	98.55
	08/22/91		8.92	8.92	0.00	98.59
	09/30/91		9.04	9.04	0.00	98.47
	10/17/91		8.12	8.12	0.00	98.39
	11/21/91		8.92	8.92	0.00	98.59
	12/18/91		8.97	8.97	0.00	98.94
	01/16/92		8.89	8.89	0.00	98.82
	02/20/92		7.78	7.78	0.00	97.73
	03/20/92		8.15	8.15	0.00	97.36
	04/20/92		8.57	8.57	0.00	98.84
	05/19/92		8.78	8.78	0.00	98.76
	08/08/92		8.74	8.74	0.00	98.77
	07/15/92		9.12	9.12	0.00	98.39
	09/03/92		8.95	8.95	0.00	97.34
	10/29/92		8.78	8.78	0.00	97.81
	11/23/92		8.91	8.91	0.00	98.38
09/16/93	8.82	8.82	0.00	97.87		
11/17/93	8.72	8.72	0.00	97.57		
02/21/94	7.91	7.91	0.00	98.38		
09/11/94	8.09	8.09	0.00	98.20		

3300412B\AQ85TBLS.XLS\Table2

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February 15, 1998

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
668 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-3 (cont.)	08/12/84		8.76	8.76	0.00	97.51
	11/17/84		8.45	8.45	0.00	97.84
	02/22/85		8.55	8.55	0.00	97.84
	05/24/85		8.57	8.57	0.00	97.82
	09/20/85		8.17	8.17	0.00	97.12
	11/17/85		8.38	8.38	0.00	98.50
MW-4	08/16/80	108.61	8.18	8.18	0.00	98.45
	08/21/80		8.22	8.22	0.00	98.39
	09/07/80		8.38	8.39	0.00	98.22
	11/20/80		8.57	8.57	0.00	98.04
	11/29/80		8.53	8.53	0.00	98.08
	12/19/80		8.13	8.13	0.00	98.48
	01/29/81		8.68	8.68	0.00	97.85
	02/27/81		8.44	8.44	0.00	98.17
	03/07/81		8.18	8.18	0.00	98.43
	03/28/81		7.65	7.58	0.00	98.05
	05/02/81		8.25	8.25	0.00	98.38
	06/27/81		7.76	7.76	0.00	98.89
	07/24/81		8.12	8.12	0.00	98.49
	08/22/81		7.88	7.88	0.00	98.53
	09/30/81		8.28	8.28	0.00	98.35
	10/17/81		8.42	8.42	0.00	98.19
	11/21/81		8.65	8.65	0.00	97.98
	12/18/81		8.77	8.77	0.00	97.84
	01/19/82		8.42	8.42	0.00	98.19
	02/20/82		7.80	7.80	0.00	98.01
	03/20/82		7.81	7.81	0.00	98.00
	04/20/82		8.15	8.15	0.00	98.48
	05/19/82		8.14	8.14	0.00	98.47
	06/08/82		8.40	8.40	0.00	98.21
	07/18/82		8.72	8.72	0.00	97.89
	08/06/82	107.40	8.52	8.52	0.00	98.88
	10/28/82		8.63	8.63	0.00	98.77
	11/23/82		8.75	8.75	0.00	98.85
	08/16/83		8.69	8.69	0.00	98.71
	11/17/83		8.11	8.11	0.00	98.29
	02/21/84		8.18	8.18	0.00	98.24
	05/11/84		8.29	8.29	0.00	98.11
08/12/84		8.76	8.76	0.00	98.08	
11/17/84		8.40	8.40	0.00	98.00	
02/22/85		8.72	8.72	0.00	98.68	
05/24/85		8.83	8.83	0.00	98.77	
08/28/85		8.50	8.50	0.00	100.90	
11/17/85		8.15	8.15	0.00	98.25	
MW-5	08/08/82	105.19	7.18	7.18	0.00	98.00
	10/28/82		8.99	8.99	0.00	98.20
	11/23/82		8.90	8.90	0.00	98.28
	09/18/83		7.03	7.03	0.00	98.13
	11/17/83		8.91	8.91	0.00	98.28
	02/21/84		8.82	8.82	0.00	98.67
	05/11/84		8.18	8.18	0.00	99.01
	08/12/84		8.81	8.81	0.00	98.38
	11/17/84		8.38	8.38	0.00	98.81
	02/22/85		8.25	8.25	0.00	98.94

330041254005TBL5.XLS/Tab12

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February 15, 1988

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
565 Hegenberger Road at Eden Avenue
Oakland, California

Well Number	Date Gaged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-6 (cont.)	08/23/85		6.30	6.30	0.00	98.59
	08/23/85		6.60	6.60	0.00	98.29
	11/17/85		7.02	7.02	0.00	98.17
MW-6	08/08/82	105.07	7.01	7.01	0.00	98.08
	10/22/82		6.70	6.70	0.00	98.37
	11/22/82		6.78	6.78	0.00	98.32
	08/18/83		6.71	6.71	0.00	98.39
	11/17/83		6.67	6.67	0.00	98.40
	02/21/84		6.51	6.51	0.00	98.78
	05/11/84		6.98	6.98	0.00	99.09
	08/12/84		6.60	6.60	0.00	98.47
	11/17/84		6.09	6.09	0.00	98.88
	02/22/85		6.88	6.88	0.00	99.22
	05/24/85		6.82	6.82	0.00	99.19
	08/23/85		6.60	6.50	0.00	98.67
	11/17/85		6.78	6.75	0.00	98.32
MW-6	08/08/82	105.52	8.28	8.28	0.00	97.24
	10/22/82		8.02	8.02	0.00	98.00
	11/22/82		8.21	8.21	0.00	97.31
	08/18/83		8.11	8.11	0.00	97.41
	11/17/83		8.11	8.11	0.00	97.41
	02/21/84		7.34	7.34	0.00	98.16
	05/11/84		7.48	7.48	0.00	98.07
	08/12/84		8.13	8.13	0.00	97.39
	11/17/84		7.90	7.80	0.00	97.82
	02/22/85		8.40	8.40	0.00	97.12
	05/24/85		8.29	8.29	0.00	97.28
	08/23/85		8.03	8.00	0.00	98.02
	11/17/85		8.78	8.79	0.00	98.78
RW-1	08/18/83	NM				
	11/17/83					
	02/21/84		7.59	7.59	0.00	NM
	05/11/84		7.96	7.96	0.00	NM
	08/12/84		7.59	7.59	0.00	NM
	11/17/84		7.59	7.59	0.00	NM
	02/22/85		8.00	8.00	0.00	NM
	05/24/85		8.10	8.10	0.00	NM
	08/23/85		8.67	8.67	0.00	NM
	11/17/85		8.15	9.15	0.00	NM

MSL = Mean sea level
TOC = Top of casing
* = Separate-phase hydrocarbons present in well.
** = Skimmer installed (12/24/81).
NM = Not measured

3300412B\0095781.S\1.S\Table2

Recreated from hard copies of tables developed by Pacific Environmental Group, Inc.

February 15, 1998

Table 3
Groundwater Analytical Data
Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
 608 Hegenberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)	
MW-1	08/18/90	<.50	<1.50	<0.50	<0.50	<0.50	<0.50	<5000	
	08/18/90	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<5000	
	11/29/90	<.50	<1.50	0.7	<0.50	<0.50	N/A	N/A	
	08/07/91	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/27/91	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/30/91	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	12/18/91	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/20/92	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/08/92	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/08/92	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/28/92	<.50	<1.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/18/93	<.50	<1.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<.50	<1.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<.50	<1.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/11/94	<.50	<1.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<.50	<1.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<.50	<1.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							
	08/24/95	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
08/28/95	Well Sampled Annually								
11/17/95	Well Sampled Annually								
MW-2	08/18/90	0.82 foot of Separate-Phase Hydrocarbons							
	08/18/90	0.17 foot of Separate-Phase Hydrocarbons							
	08/07/90	Separate-Phase Hydrocarbons							
	11/29/90	Separate-Phase Hydrocarbons							
	08/07/91	Separate-Phase Hydrocarbons							
	08/27/91	Separate-Phase Hydrocarbons							
	08/30/91	Separate-Phase Hydrocarbons							
	12/18/91	Separate-Phase Hydrocarbons							
	03/20/92	48,000	2,000	580	2,300	7,000	N/A	N/A	
	08/08/92	43,000	2,900	940	240	5,100	N/A	N/A	
	08/08/92	78,000	2,530	6,700	2,900	16,000	N/A	N/A	
	10/28/92	NS	NS	NS	NS	NS	NS	NS	
12/08/92	Well Destroyed								
MW-3	08/18/90	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/18/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000	
	08/07/90	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	11/29/90	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/07/91	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/27/91	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/30/91	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	12/18/91	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	03/20/92	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/08/92	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/08/92	<.50	<1.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/28/92	<.50	<1.5	<0.5	<0.5	<0.5	N/A	N/A	
08/18/93	<.50	<1.5	<0.5	<0.5	<0.5	N/A	N/A		
11/17/93	<.50	<1.5	<0.5	<0.5	<0.5	N/A	N/A		

330041284095TBLS.XLS!Table3

Recreated from hard copies of tables developed by Pacific Environmental Group, Inc.

February 15, 1998

Table 3 (continued)
 Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4434
 558 Hegenberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)	
MW-3 (cont.)	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/23/95	Well Sampled Annually							
	11/17/95	Well Sampled Annually							
	MW-4	05/18/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A
		05/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000
11/25/90		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
03/07/91		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/27/91		<50	0.75	1.1	<0.50	1.6	N/A	N/A	
05/30/91		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
12/18/91		<50	0.53	1.2	<0.50	0.55	N/A	N/A	
03/20/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/05/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
05/05/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
10/20/92		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
05/19/93		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/93		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
02/22/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
05/11/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
08/12/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
02/22/95		Well Sampled Annually							
05/24/95		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/23/95	Well Sampled Annually								
11/17/95	Well Sampled Annually								
MW-5	05/05/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/23/95	Well Sampled Annually							
11/17/95	Well Sampled Annually								
MW-6	05/05/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A		
02/22/95	Well Sampled Annually								

33004125VOC95TRLS.XLS\Tab3

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February 15, 1996

Table 3 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4484
588 Hegenberger Road at Estes Avenue
Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)
MW-6 (cont.)	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	08/23/95							
	11/17/95							
Well Sampled Annually								
MW-7	09/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/95							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	08/23/95							
11/17/95								
Well Sampled Annually								
RW-1	05/16/93	NS	NS	NS	NS	NS	NS	NS
	11/17/93	NS	NS	NS	NS	NS	NS	NS
	02/22/94	290	2,100	19	40	68	N/A	N/A
	05/11/94	3,300	32	28	87	310	N/A	N/A
	08/12/94	4,500	42	89	190	400	N/A	N/A
	11/17/94	1,400	38	21	28	210	N/A	N/A
	02/22/95	6,100	140	<10	550	580	N/A	N/A
	05/24/95	940	53	0.75	11	1.4	N/A	N/A
	08/23/95	820	2.1	2.3	0.67	0.67	N/A	N/A
	11/17/95	1,100	7.4	21	48	180	N/A	N/A

ppb = Parts per billion
ppm = Parts per million
N/A = Not applicable
NS = Not sampled

3300412814Q95TBL.SX1.81Tables

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February 15, 1996

Table 4
Groundwater Analytical Data
Total Methyl t-Butyl Ether

ARCO Service Station 4404
535 Hegenberger Road at Esos Avenue
Oakland, California

Well Number	Date Sampled	Methyl t-Butyl Ether (ppb)
MW-1	08/23/95	NS
MW-2	08/23/95	NS
MW-3	08/23/95	NS
MW-4	08/23/95	NS
MW-5	08/23/95	NS
MW-6	08/23/95	NS
MW-7	08/23/95	NS
RW-1	08/23/95	13

ppb = Parts per Billion
NS = Not sampled
See certified analytical report for detection limit.

ATTACHMENT D

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

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4494

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<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	3/10/2005 1:51:18 PM
<u>GLOBAL ID:</u>	T0600100104
<u>FILE UPLOADED:</u>	ARCO#4494-EDF-MOB0686.zip

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ARCO # 04494 566 HEGENBERGER RD OAKLAND, CA 94621	Regional Board - Case #: 01-0112 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 3854 ALAMEDA COUNTY LOP - (AG)
--	--

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	7
# FIELD POINTS WITH DETECTIONS	4
# 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 > REPDL</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Date/Time of Submittal: 3/10/2005 1:52:13 PM
Facility Global ID: T0600100104
Facility Name: ARCO # 04494
Submittal Title: 1Q2005 QMR EDF ARCO Site 4494
Submittal Type: GW Monitoring Report

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ARCO # 04494 566 HEGENBERGER RD OAKLAND, CA 94621	Regional Board - Case #: 01-0112 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 3854 ALAMEDA COUNTY LOP - (AG)
--	---

CONF #	TITLE	QUARTER
7106950581	1Q2005 QMR EDF ARCO Site 4494	Q1 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	3/10/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	7
# FIELD POINTS WITH DETECTIONS	4
# 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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ATTACHMENT E

JOINT MONITORING DATA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1 (a)	08/26/1998	2,700	28	55	59	39	33,000	NA	NA	NA	NA	NA	NA	10.54	7.91	2.63	1.8
MW-1 (b)	08/26/1998	<1,000	22	<10	<10	<10	17,000	NA	NA	NA	NA	NA	NA	10.54	7.91	2.63	2.2
MW-1	12/28/1998	<5,000	<50.0	<50.0	<50.0	<50.0	153,000	33,000	NA	NA	NA	NA	NA	10.54	8.75	1.79	1.9
MW-1	03/29/1999	<2,000	<20.0	<20.0	<20.0	<20.0	693,000	NA	NA	NA	NA	NA	NA	10.54	8.32	2.22	2.0
MW-1	06/22/1999	20,000	<200	<200	<200	<200	150,000	NA	NA	NA	NA	NA	NA	10.54	9.05	1.49	1.7
MW-1	09/30/1999	<2,500	<25.0	<25.0	<25.0	<25.0	30,900	NA	NA	NA	NA	NA	NA	10.54	8.35	2.19	2.6
MW-1	11/19/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.58	0.96	NA
MW-1	11/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.65	0.89	NA
MW-1	12/02/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.55	0.99	NA
MW-1	12/10/1999	<50.0	29.7	<20.0	<20.0	<20.0	76,300	NA	NA	NA	NA	NA	NA	10.54	8.86	1.68	1.2
MW-1	03/02/2000	<2,500	<25.0	<25.0	<25.0	<25.0	27,600	NA	NA	NA	NA	NA	NA	10.54	8.83	1.71	3.2
MW-1	06/08/2000	<2,000	<20.0	<20.0	<20.0	<20.0	59,000	67,600	NA	NA	NA	NA	NA	10.54	7.78	2.76	1.9
MW-1	09/05/2000	<10,000	411	<100	<100	<100	71,100	115,000 ^e	NA	NA	NA	NA	NA	10.54	7.84	2.70	NA
MW-1	12/15/2000	35,600	1,310	<50.0	<50.0	<50.0	136,000	f	NA	NA	NA	NA	NA	10.54	7.65	2.89	NA
MW-1	03/09/2001	<10,000	1,390	<100	<100	<100	89,600	164,000	NA	NA	NA	NA	NA	10.54	6.44	4.10	NA
MW-1	06/27/2001	<5,000	<50	<50	<50	<50	NA	19,000	NA	NA	NA	NA	NA	10.54	8.46	2.08	NA
MW-1	09/19/2001	<5,000	<50	<50	<50	<50	NA	52,000	NA	NA	NA	NA	NA	10.54	8.10	2.44	NA
MW-1	12/31/2001	<5,000	<25	<25	<25	<25	NA	17,000	NA	NA	NA	NA	NA	10.54	7.31	3.23	NA
MW-1	03/14/2002	<20,000	<200	<200	<200	<200	NA	60,000	NA	NA	NA	NA	NA	10.54	7.68	2.86	NA
MW-1	06/25/2002	<5,000	<50	<50	<50	<50	NA	34,000	NA	NA	NA	NA	NA	10.54	8.40	2.14	NA
MW-1	09/19/2002	<2,500	<25	<25	<25	<25	NA	18,000	NA	NA	NA	NA	NA	10.52	8.58	1.94	NA
MW-1	12/12/2002	<5,000	<50	<50	<50	<50	NA	30,000	NA	NA	NA	NA	NA	10.52	8.41	2.11	NA
MW-1	01/02/2003	NA	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	NA	NA	NA	10.52	7.45	3.07	NA
MW-1	03/20/2003 g	3,800	<25	<25	<25	<25	5,500	NA	NA	NA	NA	NA	NA	10.52	8.21	2.31	NA
MW-1	06/23/2003	<10,000	<100	<100	<100	<200	NA	35,000	NA	NA	NA	NA	NA	10.52	9.02	1.50	NA
MW-1	09/22/2003	<5,000	<50	<50	<50	<100	NA	15,000	NA	NA	NA	NA	NA	10.52	15.74	-5.22	NA
MW-1	12/03/2003	<1,300	<13	<13	<13	<25	NA	3,600	NA	NA	NA	NA	NA	10.52	18.35 h	NA	NA
MW-1	03/18/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	570	NA	NA	NA	NA	NA	10.52	7.32	3.20	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	05/25/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	250	NA	NA	NA	NA	NA	10.52	6.80	3.72	NA
MW-1	09/22/2004	<2,000	<20	<20	<20	<40	NA	170	<80	<80	<80	20,000	<2,000	10.52	6.55	3.97	NA
MW-1	12/22/2004	<500	<5.0	<5.0	<5.0	<10	NA	57	NA	NA	NA	NA	NA	10.52	6.44	4.08	NA
MW-1	02/23/2005	<2,000	<20	<20	<20	<40	NA	110	NA	NA	NA	NA	NA	10.52	5.79	4.73	NA

MW-2 (a)	08/26/1998	<250	3.2	<2.5	<2.5	<2.5	4,000	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.4
MW-2 (b)	08/26/1998	<250	3.1	<2.5	<2.5	<2.5	4,800	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.7
MW-2 (D)(b)	08/26/1998	<250	4.8	<2.5	<2.5	6.0	3,300	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	28.8	NA	NA	NA	NA	NA	NA	9.21	7.34	1.87	2.1
MW-2	03/29/1999	235	<0.500	<0.500	<0.500	3.4	101	NA	NA	NA	NA	NA	NA	9.21	6.85	2.36	2.0
MW-2	06/22/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	9.21	7.10	2.11	1.9
MW-2	09/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	1,700	NA	NA	NA	NA	NA	NA	9.21	8.06	1.15	1.0
MW-2	12/10/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	9.21	8.61	0.60	1.4
MW-2	03/02/2000	<500	11.5	<5.00	<5.00	<5.00	5,280	NA	NA	NA	NA	NA	NA	9.21	6.33	2.88	0.4
MW-2	06/08/2000	<50.0	0.670	<0.500	<0.500	<0.500	3,160	NA	NA	NA	NA	NA	NA	9.21	6.87	2.34	1.6
MW-2	09/05/2000	<1,000	<10.0	<10.0	<10.0	<10.0	9,600	NA	NA	NA	NA	NA	NA	9.21	6.79	2.42	NA
MW-2	12/15/2000	<200	<2.00	<2.00	<2.00	<2.00	6,320	NA	NA	NA	NA	NA	NA	9.21	6.76	2.45	NA
MW-2	03/09/2001	<500	<5.00	<5.00	<5.00	<5.00	17,200	NA	NA	NA	NA	NA	NA	9.21	6.28	2.93	NA
MW-2	06/27/2001	<100	1.4	<1.0	<1.0	<2.0	NA	470	NA	NA	NA	NA	NA	9.21	7.12	2.09	NA
MW-2	09/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	330	NA	NA	NA	NA	NA	9.21	7.17	2.04	NA
MW-2	12/31/2001	<100	<1.0	<1.0	<1.0	<1.0	NA	420	NA	NA	NA	NA	NA	9.21	6.24	2.97	NA
MW-2	03/14/2002	<250	4.5	3.3	<2.5	<2.5	NA	1,600	NA	NA	NA	NA	NA	9.21	6.72	2.49	NA
MW-2	06/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	110	NA	NA	NA	NA	NA	9.21	7.23	1.98	NA
MW-2	09/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	90	NA	NA	NA	NA	NA	9.19	7.48	1.71	NA
MW-2	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	170	NA	NA	NA	NA	NA	9.19	7.33	1.86	NA
MW-2	03/20/2003 g	56	<0.50	<0.50	<0.50	<0.50	58	NA	NA	NA	NA	NA	NA	9.19	7.65	1.54	NA
MW-2	06/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	44	NA	NA	NA	NA	NA	9.19	8.72	0.47	NA
MW-2	09/22/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	37	NA	NA	NA	NA	NA	9.19	8.84	0.35	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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MW-2	12/03/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	99	NA	NA	NA	NA	NA	9.19	8.95	0.24	NA
MW-2	03/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	NA	9.19	7.19	2.00	NA
MW-2	05/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	53	NA	NA	NA	NA	NA	9.19	8.40	0.79	NA
MW-2	09/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	24	<2.0	<2.0	<2.0	100	<50	9.19	7.08	2.11	NA
MW-2	12/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	39	NA	NA	NA	NA	NA	9.19	7.09	2.10	NA
MW-2	02/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	38	NA	NA	NA	NA	NA	9.19	6.50	2.69	NA

MW-3 (a)	08/26/1998	2,300	180	330	<0.50	420	44,000	NA	NA	NA	NA	NA	NA	9.45	6.52	2.93	1.8
MW-3 (b)	08/26/1998	<50	<0.50	<0.50	<0.50	<0.50	52,000	75,000	NA	NA	NA	NA	NA	9.45	6.52	2.93	2.3
MW-3	12/28/1998	<5,00	139	<50.0	<50.0	<50.0	15,100	NA	NA	NA	NA	NA	NA	9.45	6.73	2.72	1.7
MW-3	03/29/1999	52,500	5,500	6,900	1,360	6,250	508,000	630,000 (c)	NA	NA	NA	NA	NA	9.45	6.21	3.24	2.1
MW-3	06/22/1999	58,000	6,600	9,850	1,640	6,950	677,000	653,000	NA	NA	NA	NA	NA	9.45	7.00	2.45	1.3
MW-3	09/30/1999	4,360	121	122	36.1	647	33,700	35,600	NA	NA	NA	NA	NA	9.45	6.84	2.61	0.6
MW-3	11/19/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	7.93	1.52	NA
MW-3	11/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	8.25	1.20	NA
MW-3	12/02/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	7.55	1.90	NA
MW-3	12/10/1999	4,220	973	26.3	273	584	88,200	NA	NA	NA	NA	NA	NA	9.45	7.28	2.17	2.5
MW-3	03/02/2000	65,300	5,210	10,300	2,650	15,100	56,800	59,800e	NA	NA	NA	NA	NA	9.45	5.87	3.58	d
MW-3	06/08/2000	72,700	3,570	10,200	2,100	13,400	44,400	NA	NA	NA	NA	NA	NA	9.45	5.32	4.13	1.1
MW-3	09/05/2000	26,100	959	2,910	1,090	5,640	24,000	NA	NA	NA	NA	NA	NA	9.45	5.60	3.85	NA
MW-3	12/15/2000	5,190	438	8.39	483	530	19,100	11,800f	NA	NA	NA	NA	NA	9.45	6.27	3.18	NA
MW-3	03/09/2001	5,880	472	42.2	392	1,290	41,800	NA	NA	NA	NA	NA	NA	9.45	5.71	3.74	NA
MW-3	06/27/2001	9,100	330	79	140	1,600	NA	31,000	NA	NA	NA	NA	NA	9.45	6.88	2.57	NA
MW-3	09/19/2001	790	14	18	17	67	NA	8,100	NA	NA	NA	NA	NA	9.45	6.70	2.75	NA
MW-3	12/31/2001	<5,000	220	<50	86	<50	NA	22,000	NA	NA	NA	NA	NA	9.45	5.92	3.53	NA
MW-3	03/14/2002	<2,500	<25	<25	<25	<25	NA	12,000	NA	NA	NA	NA	NA	9.45	6.25	3.20	NA
MW-3	06/25/2002	<10,000	160	<100	<100	<100	NA	42,000	NA	NA	NA	NA	NA	9.45	6.65	2.80	NA
MW-3	09/19/2002	<10,000	650	<100	280	360	NA	84,000	NA	NA	NA	NA	NA	9.45	6.51	2.94	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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MW-3	12/12/2002	<10,000	170	<100	<100	<100	NA	45,000	NA	NA	NA	NA	NA	9.45	6.97	2.48	NA
MW-3	01/02/2003	NA	59	<5.0	5.3	<10	NA	NA	NA	NA	NA	NA	NA	9.45	5.90	3.55	NA
MW-3	03/20/2003 g	5,100	<50	<50	<50	<50	4,400	NA	NA	NA	NA	NA	NA	9.45	6.87	2.58	NA
MW-3	06/23/2003	<5,000	<50	<50	<50	<100	NA	8,100	NA	NA	NA	NA	NA	9.45	13.80	-4.35	NA
MW-3	09/22/2003	<250	<2.5	4.6	<2.5	<5.0	NA	470	NA	NA	NA	NA	NA	9.45	6.31	3.14	NA
MW-3	12/03/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	180	NA	NA	NA	NA	NA	9.45	14.77 h	NA	NA
MW-3	03/18/2004	<1,000	14	<10	<10	<20	NA	2,500	NA	NA	NA	NA	NA	9.45	6.07	3.38	NA
MW-3	05/25/2004	3,900	<10	66	23	470	NA	140	NA	NA	NA	NA	NA	9.45	14.63	-5.18	NA
MW-3	09/22/2004	<10,000	830	<100	290	450	NA	28,000	<400	<400	<400	13,000	<10,000	9.45	4.86	4.59	NA
MW-3	12/22/2004	94	<0.50	<0.50	<0.50	<1.0	NA	84	NA	NA	NA	NA	NA	9.45	6.93	2.52	NA
MW-3	02/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	85	NA	NA	NA	NA	NA	9.45	5.68	3.77	NA

MW-4	09/25/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.88	7.64	2.24	NA
MW-4	12/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	9.88	7.55	2.33	NA
MW-4	03/09/2001	<50.0	<0.500	0.730	<0.500	0.529	3.16	NA	NA	NA	NA	NA	NA	9.88	7.04	2.84	NA
MW-4	06/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.76	2.12	NA
MW-4	09/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.69	2.19	NA
MW-4	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.08	2.80	NA
MW-4	03/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.57	2.31	NA
MW-4	06/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.50	1.38	NA
MW-4	09/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.22	1.66	NA
MW-4	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.08	1.80	NA
MW-4	03/20/2003 g	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	NA	NA	NA	9.88	7.92	1.96	NA
MW-4	06/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.18	1.70	NA
MW-4	09/22/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	NA	9.88	8.28	1.60	NA
MW-4	12/03/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	NA	9.88	8.44	1.44	NA
MW-4	03/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	NA	9.88	7.52	2.36	NA
MW-4	05/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	NA	NA	NA	NA	NA	9.88	8.30	1.58	NA

WELL CONCENTRATIONS
Shell-branded Service Station
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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MW-4	09/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	<2.0	<2.0	<2.0	<5.0	<50	9.88	7.72	2.16	NA
MW-4	12/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	NA	NA	NA	NA	NA	9.88	7.32	2.56	NA
MW-4	02/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	18	NA	NA	NA	NA	NA	9.88	6.95	2.93	NA

MW-5	06/18/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.36	NA	NA
MW-5	06/25/2002	<10,000	<100	<100	<100	<100	NA	60,000	NA	NA	NA	NA	NA	NA	8.30	NA	NA
MW-5	09/19/2002	<2,000	<20	<20	<20	<20	NA	7,200	NA	NA	NA	NA	NA	10.03	8.44	1.59	NA
MW-5	12/12/2002	<5,000	<50	<50	<50	<50	NA	33,000	NA	NA	NA	NA	NA	10.03	8.49	1.54	NA
MW-5	03/20/2003 g	12,000	<50	<50	<50	<50	15,000	NA	NA	NA	NA	NA	NA	10.03	8.23	1.80	NA
MW-5	06/23/2003	<1,000	<10	<10	<10	<20	NA	1,700	NA	NA	NA	NA	NA	10.03	16.70	-6.67	NA
MW-5	09/22/2003	<2,500	<25	<25	<25	<50	NA	4,400	NA	NA	NA	NA	NA	10.03	16.70	-6.67	NA
MW-5	12/03/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	70	NA	NA	NA	NA	NA	10.03	16.79	-6.76	NA
MW-5	03/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	43	NA	NA	NA	NA	NA	10.03	16.78	-6.75	NA
MW-5	05/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	30	NA	NA	NA	NA	NA	10.03	13.02	-2.99	NA
MW-5	09/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	<2.0	<2.0	<2.0	83	<50	10.03	5.91	4.12	NA
MW-5	12/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	67	NA	NA	NA	NA	NA	10.03	5.72	4.31	NA
MW-5	02/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	120	NA	NA	NA	NA	NA	10.03	4.41	5.62	NA

C-1	09/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	1.44	NA	NA
C-1	03/29/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	2.59	NA	NA
C-1	06/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	3.72	NA	NA
C-1	09/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	3.08	NA	NA
C-1	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	0.64	NA	NA
C-1	03/20/2003 g	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	NA	NA	NA	NA	4.61	NA	NA

SD-1	09/19/2001	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	03/29/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	06/25/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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SD-1	09/19/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	12/12/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	03/20/2003	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SD-2	09/19/2001	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	03/29/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	06/25/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	09/19/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	12/12/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	03/20/2003	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

BW-A	06/22/1999	318	<0.50	<0.50	0.590	1.48	4,470	NA	NA	NA	NA	NA	NA	NA	4.71	NA	1.1
BW-A	06/25/2002	<500	<5.0	<5.0	<5.0	18	NA	3,100	NA	NA	NA	NA	NA	NA	5.14	NA	NA
BW-A	09/19/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	<20	NA	NA	NA	NA	NA	NA	7.19	NA	NA
BW-A	12/12/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	2,900	NA	NA	NA	NA	NA	NA	6.40	NA	NA
BW-A	03/20/2003 g	<2,500	<25	<25	<25	<25	<250	NA	NA	NA	NA	NA	NA	NA	5.36	NA	NA
BW-A	06/23/2003	<1,000	<10	<10	<10	<20	NA	<100	NA	NA	NA	NA	NA	NA	10.27	NA	NA

BW-B	06/22/1999	<250	<2.5	<2.5	<2.5	<2.5	8,600	NA	NA	NA	NA	NA	NA	NA	5.90	NA	1.2
BW-B	06/27/2001	<5,000	<50	<50	<50	<50	NA	40,000	NA	NA	NA	NA	NA	NA	5.83	NA	NA
BW-B	12/31/2001	<2,000	<20	<20	<20	<20	NA	9,200	NA	NA	NA	NA	NA	NA	4.19	NA	NA
BW-B	03/14/2002	<2,000	<20	<20	<20	<20	NA	9,400	NA	NA	NA	NA	NA	NA	5.24	NA	NA
BW-B	06/25/2002	<2,000	<20	<20	<20	<20	NA	6,600	NA	NA	NA	NA	NA	NA	6.19	NA	NA
BW-B	09/19/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	<50	NA	NA	NA	NA	NA	NA	8.46	NA	NA
BW-B	12/12/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	1,700	NA	NA	NA	NA	NA	NA	7.46	NA	NA
BW-B	03/20/2003 g	170	<1.0	<1.0	<1.0	<1.0	190	NA	NA	NA	NA	NA	NA	NA	6.23	NA	NA
BW-B	06/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	43	NA	NA	NA	NA	NA	NA	9.95	NA	NA

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BW-C	06/22/1999	<50	<0.50	<0.50	<0.50	0.98	11,000	NA	NA	NA	NA	NA	NA	NA	5.91	NA	1.6
BW-C	06/25/2002	<5,000	<50	<50	<50	<50	NA	20,000	NA	NA	NA	NA	NA	NA	6.49	NA	NA
BW-C	09/19/2002	<1,000	<10	<10	<10	<10	NA	400	NA	NA	NA	NA	NA	NA	8.52	NA	NA
BW-C	12/12/2002	<2,000	<20	<20	<20	<20	NA	8,000	NA	NA	NA	NA	NA	NA	7.57	NA	NA
BW-C	03/20/2003 g	270	<1.0	<1.0	<1.0	<1.0	250	NA	NA	NA	NA	NA	NA	NA	6.48	NA	NA
BW-C	06/23/2003	<1,000	<10	<10	<10	<20	NA	170	NA	NA	NA	NA	NA	NA	11.48	NA	NA
BW-D	06/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2,190	NA	NA	NA	NA	NA	NA	NA	4.78	NA	1.4
BW-D	06/25/2002	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BW-D	07/02/2002	<1,000	23	<10	<10	<10	NA	<100	NA	NA	NA	NA	NA	NA	6.36	NA	NA
BW-D	09/19/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	<25	NA	NA	NA	NA	NA	NA	7.25	NA	NA
BW-D	12/12/2002	<5,000	<50	<50	<50	<50	NA	16,000	NA	NA	NA	NA	NA	NA	6.21	NA	NA
BW-D	03/20/2003 g	71	<0.50	<0.50	<0.50	<0.50	55	NA	NA	NA	NA	NA	NA	NA	5.23	NA	NA
BW-D	06/23/2003	<1,000	<10	<10	<10	<20	NA	<100	NA	NA	NA	NA	NA	NA	10.25	NA	NA
BW-D	09/22/2003	<100	<1.0	<1.0	<1.0	<2.0	NA	120	NA	NA	NA	NA	NA	NA	10.18	NA	NA
BW-D	12/03/2003	<1,300	110	<13	<13	29	NA	560	NA	NA	NA	NA	NA	NA	10.20	NA	NA
BW-D	03/18/2004	<50	0.67	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	NA	NA	NA	3.42	NA	NA
BW-D	05/25/2004	<50	1.4	0.96	<0.50	<1.0	NA	1.7	NA	NA	NA	NA	NA	NA	8.83	NA	NA
BW-D	09/22/2004	<100	6.9	<1.0	2.1	4.2	NA	210	NA	NA	NA	NA	NA	NA	2.75	NA	NA
BW-D	12/22/2004	61	2.1	2.9	<0.50	3.6	NA	5.4	NA	NA	NA	NA	NA	NA	3.67	NA	NA
BW-D	02/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	1.2	NA	NA	NA	NA	NA	NA	2.88	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ppm = Parts per million

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Notes:

a = Pre-purge

b = Post purge

c = Lab confirmed MTBE by mistake. MTBE value at MW-1 should have been confirmed instead.

d = DO reading not taken.

e = Sample was analyzed outside of the EPA recommended holding time.

f = The second highest MTBE hit was mistakenly confirmed. MTBE for MW-1 should have been confirmed.

g = On March 20, 2003, all analyses run by EPA Method 8015/8020.

h = Depth to top of pump; pump prevented depth to water measurement.

Ethanol analyzed by EPA Method 8260B.

Site surveyed September 21, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

C-1 is a canal sample location.

SD-1 and SD-2 are storm drains.

Wells MW-1 through MW-5 surveyed January 24 and June 19, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

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