



January 25, 2004

R0204

Mr. Amir Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Alameda County

JAN 27 2004

Environmental Health

**Re: Fourth Quarter 2003 Groundwater Monitoring Report
ARCO Service Station #4494
566 Hegenberger Road
Oakland, California
URS Project #38486329**

Dear Mr. Gholami:

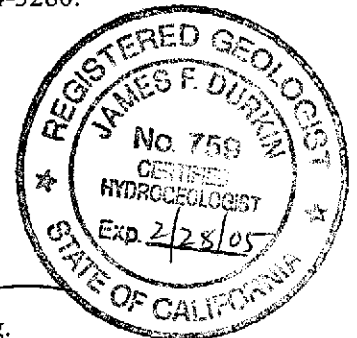
On behalf of Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the *Fourth Quarter 2003 Groundwater Monitoring Report* for ARCO Service Station #4494, located at 566 Hegenberger Road, Oakland, California.

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

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

James F. Durkin, C.Hg.
Senior Geologist

Enclosure: Fourth Quarter 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 6549
Moraga, California 94570
Phone: (925) 299-8891
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Alameda County
JAN 27 2004
Environmental Health

January 25, 2004

RE: Fourth Quarter 2003 Groundwater Monitoring Report
ARCO Service Station #4494
566 Hegenberger Road
Oakland, CA
URS Project #38486329

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

R E P O R T

**FOURTH QUARTER 2003
GROUNDWATER MONITORING**

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

Prepared for
Atlantic Richfield Company

January 25, 2004

URS

URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

38486329

Date: January 25, 2004
Quarter: 4Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 4494 Address: 566 Hegenberger Road, Oakland, California
ARCO Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486329
Primary Agency/Regulatory ID No. Alameda County Health Services Agency (ACHCSA)/STID #3854

WORK PERFORMED THIS QUARTER (Fourth – 2003):

1. Performed fourth quarter 2003 monitoring event on December 3, 2003.
2. Prepared and submitted fourth quarter 2003 groundwater monitoring report.
3. Reduced the sampling frequency of RW-1 and MW-3 through MW-6 from quarterly to semi-annually.

WORK PROPOSED FOR NEXT QUARTER (First– 2003):

1. Perform first quarter 2004 groundwater monitoring event.
2. Prepare and submit first quarter 2004 groundwater monitoring report.

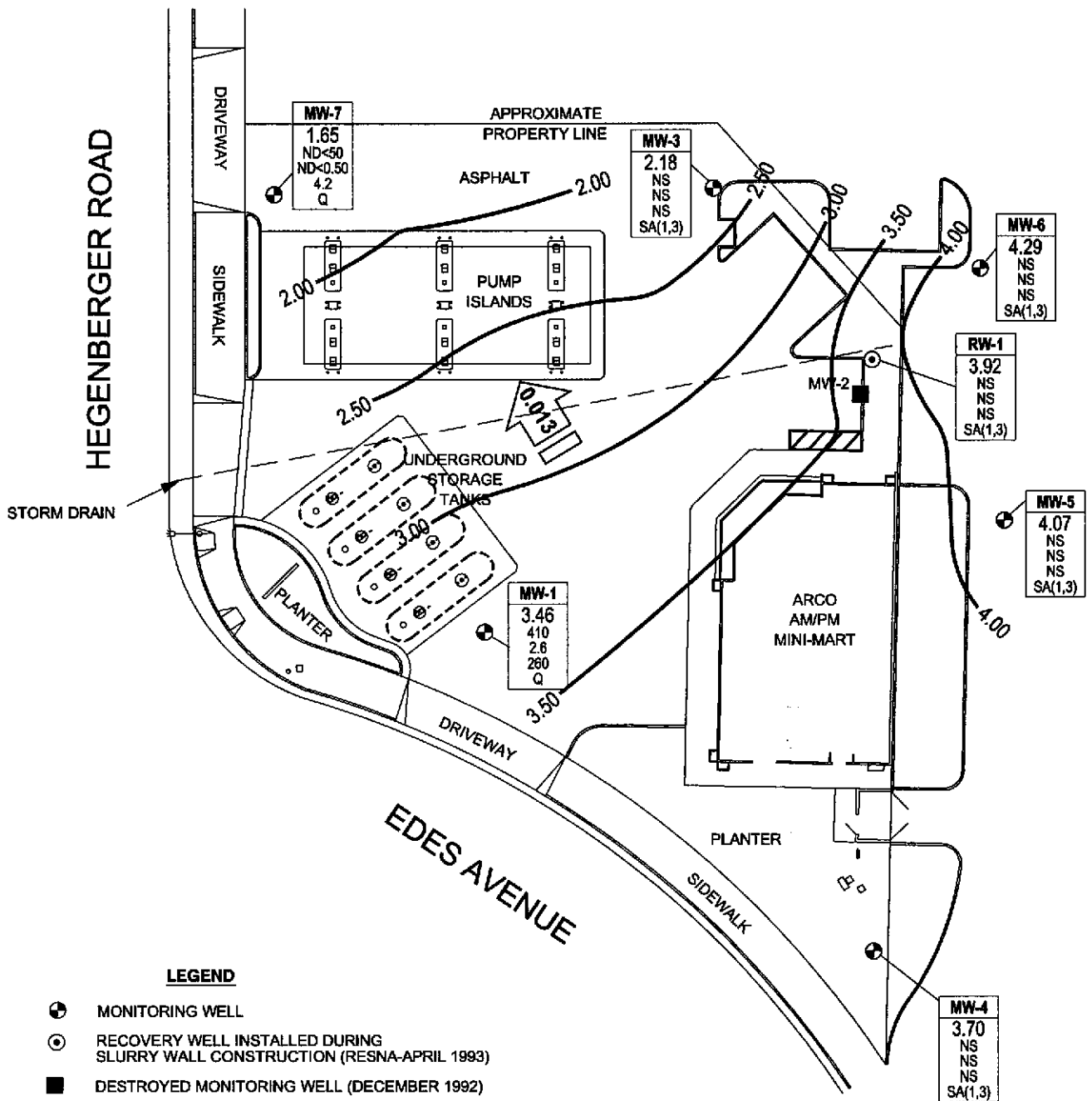
Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: MW-1, MW-7.
Semi-annually (1st and 3rd Quarter): MW-3 to MW-6, and RW-1
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Bulk Soil Removed to Date: 1,550 cubic yards
Current Remediation Techniques: None
Approximate Depth to Groundwater: 6.12 (MW-6) to 9.48 (MW-3) feet
Groundwater Gradient (direction): Northwest
Groundwater Gradient (magnitude): 0.013 feet per foot

DISCUSSION:

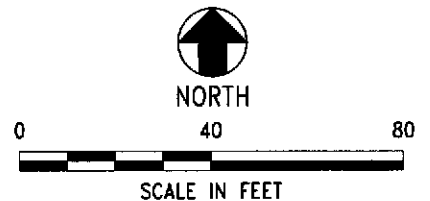
TPH-g was detected above the laboratory reporting limit in one of the two wells sampled this quarter, at a concentration of 410 µg/L (MW-1). Benzene was detected above the laboratory reporting limit in one of the two wells sampled this quarter, at a concentration of 2.6 µg/L (MW-1). MTBE was detected above the laboratory reporting limit in the two wells sampled, at concentrations of 4.2 µg/L (MW-7) and 260 µg/L (MW-1). TBA was detected above the laboratory reporting limit in well MW-7 at a concentration of 85 µg/L. Sample frequency was reduced from quarterly to semi-annually in wells RW-1, MW-3, MW-4, MW-5 and MW-6.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – December 3, 2003
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Table 3 – Fuel Oxygenate Analytical Data
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Historic Groundwater Data
- Attachment D – EDCC Report and EDF/Geowell Submittal Confirmation



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



Project No. 38486329
ARCO Service Station 4494
 566 Hegenberger Road
 Oakland, California

**GROUNDWATER ELEVATION CONTOUR
 AND ANALYTICAL SUMMARY MAP**
 Fourth Quarter 2003 (December 3, 2003)

FIGURE
1

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Well Number	Date Sampled	Top of Riser Elevation ^f (ft)	Depth to Top of Screen (ft, bgs)	Total Well Depth (ft, bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH
MW-1	06/20/00	106.10	13.0	22.7	7.02	99.08	ND<1,000	ND<10	ND<10	ND<10	ND<20	14,000/15,000 ^g	NA	NA
	09/28/00				7.07	99.03	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	13000/18,800 ^g	NA	NA
	12/17/00				6.95	99.15	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10,600	NA	NA
	03/28/01				6.88	99.22	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	16,900	NA	NA
	06/21/01				7.18	98.92	ND<1,000	ND<10	ND<10	ND<10	ND<10	3,400	NA	NA
	09/23/01				7.11	98.99	ND<1,000	ND<10	ND<10	ND<10	ND<10	2200/1800 ^g	NA	NA
	12/31/01				6.91	99.19	ND<5,000	ND<50	ND<50	ND<50	ND<50	14,000	NA	NA
	03/14/02				6.85	99.25	ND<5,000	ND<50	ND<50	ND<50	ND<50	6,200	NA	NA
	04/17/02				5.89	100.21	ND<5,000	ND<50	ND<50	ND<50	ND<50	4,500	NA	NA
	08/08/02				7.19	98.91	230 ^b	ND<2.0	ND<2.0	ND<2.0	ND<2.0	660/440 ^a	4.5	7.8
	12/12/02				7.28	98.82	630 ^d	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1300/830 ^d	1.9	7.6
	03/20/03 ^c				6.91	99.19	1,100	ND<5.0	ND<5.0	ND<5.0	ND<5.0	780	2.2	8.5
	06/23/03				7.61	98.49	530	ND<5.0	ND<5.0	ND<5.0	ND<5.0	260	1.2	7.6
	09/22/03				7.78	-7.78	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	3.5	7.7
	12/03/03				7.90	-7.90	410	2.6	9.8	ND<2.5	11	260	2.1	6.9
	MW-3	06/20/00	106.29	7.0	17.7	9.18	97.11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	27/27 ^h	NA
09/28/00		9.33				96.96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.3/ND<2.0 ^h	NA	NA
12/17/00		9.31				96.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
03/28/01		9.23				97.06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.42	NA	NA
06/21/01		9.58				96.71	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
09/23/01		9.76				96.53	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
12/31/01		8.78				97.51	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
03/14/02		9.25				97.04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4	NA	NA
04/17/02		8.44				97.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
08/08/02		9.63				96.66	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	2.6	7.9
12/12/02		9.51				96.78	ND<50 ^d	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	3.0	6.8
03/20/03 ^e		9.40				96.89	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.1	1.2	7.0
06/23/03		9.36				96.93	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.2	0.9	8.2
09/22/03		9.48	2.14	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.9	1.4	7.9			
12/03/03	9.44	2.18	NS	NS	NS	NS	NS	NS	NS	NS				

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Well Number	Date Sampled	Top of Riser Elevation ^f (ft)	Depth to Top of Screen (ft., bgs)	Total Well Depth (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH
MW-4	06/20/00	107.40	7.0	16.3	8.49	98.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<10	NA	NA
	09/28/00				8.70	98.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<2.5	NA	NA
	12/17/00				8.53	98.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/28/01				8.59	98.81	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/21/01				8.79	98.61	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	09/23/01				8.67	98.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/31/01				8.03	99.37	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/14/02				8.48	98.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/17/02				7.79	99.61	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.6	NA	NA
	08/08/02				8.90	98.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	4.5	8.0
	12/12/02				9.07	98.33	ND<50 ^d	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	5.6	6.2
	03/20/03 ^e				8.85	98.55	ND<50	ND<0.50	ND<0.50	ND<0.50	0.50	ND<0.50	4.8	7.8
	06/23/03				9.26	98.14	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.3	7.5
	09/22/03				13.18	9.22	3.96	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.4	8.0
	12/03/03	9.48	3.70	NS	NS	NS	NS	NS	NS	NS	NS			
MW-5	06/20/00	105.19	8.0	16.6	7.65	97.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<10	NA	NA
	09/28/00				6.82	98.37	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<2.5	NA	NA
	12/17/00				6.50	98.69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/28/01				6.34	98.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/21/01				7.88	97.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	09/23/01				6.98	98.21	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/31/01				5.01	100.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/14/02				5.93	99.26	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/17/02				5.37	99.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.5	NA	NA
	08/08/02				6.85	98.34	ND<50 ^b	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	0.7	7.3
	12/12/02				6.53	98.66	ND<50 ^d	2.2	4.7	1.3	6.8	ND<2.5	1.3	7.0
	03/20/03 ^e				6.40	98.79	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.7	7.1
	06/23/03				6.72	98.47	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.3	7.2
	09/22/03				10.63	6.76	3.87	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.7	7.2
	12/03/03	6.56	4.07	NS	NS	NS	NS	NS	NS	NS	NS			

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MW-6	06/20/00	105.07	8.0	17.8	6.24	98.83	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<10	NA	NA
	09/28/00				6.45	98.62	ND<0.50	ND<0.5	ND<0.5	ND<1.0	ND<2.5	NA	NA	
	12/17/00				6.26	98.81	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	03/28/01				6.10	98.97	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	06/21/01				7.68	97.39	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	09/23/01				6.72	98.35	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	12/23/01				4.68	100.39	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	03/14/02				5.55	99.52	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	04/17/02				4.96	100.11	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7	NA	NA
	08/08/02				6.46	98.61	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	0.7	7.3
	12/12/02				6.18	98.89	65 ^d	3.3	8.4	2.7	14	ND<2.5	1.1	6.9
	03/20/03 ^e				6.18	98.89	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.2	7.0
	06/23/03				6.15	98.92	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	7.1
	09/22/03				10.41	6.43	3.98	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.5
	12/03/03	6.12	4.29	NS		NS	NS	NS	NS	NS	NS	NS		
MW-7	06/20/00	105.52	9.0	13.7	8.65	96.87	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	13/13 ^a	NA	NA
	09/28/00				8.75	96.77	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	136/261 ^a	NA	NA
	12/17/00				8.62	96.90	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27.1	NA	NA
	03/28/01				8.66	96.86	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	51.5	NA	NA
	06/21/01				8.84	96.68	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	53	NA	NA
	09/23/01				8.75	96.77	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35/21 ^a	NA	NA
	12/23/01				7.79	97.73	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	440	NA	NA
	03/14/02				8.30	97.22	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	NA	NA
	04/17/02				7.43	98.09	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	67	NA	NA
	08/08/02				8.61	96.91	55 ^b	ND<0.5	ND<0.5	ND<0.5	ND<0.5	130/100 ^a	1.1	7.1
	12/12/02				**	8.55	NC	75 ^d	ND<0.5	ND<0.5	ND<0.5	160/130 ^a	1.2	7.0
	03/20/03 ^e				8.38	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	32	2.2	7.2
	06/23/03				8.37	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	14	0.8	7.1
	09/22/03				10.51	8.95	1.56	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.3	2.2
	12/03/03	8.86	1.65	ND<0.50		ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.2	0.1	7.2		

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Well Number	Date Sampled	Top of Riser Elevation ^f (ft)	Depth to Top of Screen (ft., bgs)	Total Well Depth (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH
RW-1	06/20/00	NE	NA	11.0	8.21	NC	ND<50	ND<0.5	1.1	ND<0.5	ND<1.0	ND<10	NA	NA
	09/28/00				8.28	NC	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<2.5	NA	NA
	12/17/00				8.29	NC	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/28/01				8.16	NC	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/21/01				9.37	NC	160	5.1	ND<0.5	1.1	3.2	ND<2.5	NA	NA
	09/23/01				8.75	NC	57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/31/01				6.80	NC	520	3.1	ND<0.5	6.4	4.7	ND<2.5	NA	NA
	03/14/02				7.86	NC	240	3.7	ND<0.5	0.7	2.8	ND<2.5	NA	NA
	04/17/02				7.13	NC	ND<50	ND<0.5	1.6	ND<0.5	0.72	ND<2.5	NA	NA
	08/08/02				8.48	NC	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7/ND<0.5 ^{ac}	1.1	7.0
	12/12/02				8.63	NC	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	1.9	6.9
	03/20/03 ^b				8.08	NC	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.9	7.3
	06/23/03				8.28	NC	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	7.3
	09/22/03	11.97			8.42	3.55	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	7.1
	12/03/03				8.05	3.92	NS	NS	NS	NS	NS	NS	NS	NS

ft., bgs = feet below ground surface

TPH = Total Petroleum Hydrocarbons analyzed by EPA Method 8015M. (prior to 3/20/03)

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted. (prior to 3/20/03)

µg/L = Micrograms per liter

mg/L = Milligrams per liter

NC = Not calculated

NE = Not surveyed/No elevation

ND< = Not detected at or above specified laboratory detection limit.

NA = Not available, not applicable, or not analyzed

a = Analyzed by EPA Method 8260

b = Hydrocarbon pattern is present in the requested fuel quantitation range 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 Gasoline Range Organics

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

** = Top of casing was found shattered on December 12, 2002. Top of Casing (TOC) unknown.

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

Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06/20/00	North-Northeast	0.015
09/28/00	North	0.018
12/17/00	North-Northwest	0.013
03/28/01	Northwest	0.011
06/21/01	North	0.017
09/23/01	North	0.020
12/31/01	North-Northwest	0.023
03/14/02	North-Northwest	0.017
04/14/02	Northwest	0.007
08/08/02	North-Northwest	0.022
12/12/02	North-Northwest	0.017
03/20/03	North-Northwest	0.016
06/23/03	Northwest	0.014
09/22/03	Northwest	0.017
12/03/03	Northwest	0.013

Note:

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

**Table 3
Fuel Oxygenate Analytical Data**

ARCO Service Station # 4494
566 Hegenberger Road
Oakland, California

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)
MW-1	03/20/03	ND<1,000	640	780	ND<5.0	ND<5.0	ND<5.0	NA	NA
	06/23/03	ND<1,000	ND<200	260	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	09/22/03	ND<100	250	17	ND<0.50	ND<0.50	ND<0.50	NA	NA
	12/03/03	ND<500	ND<100	260	ND<2.5	ND<2.5	ND<2.5	NA	NA
MW-3	03/20/03	ND<100	ND<20	601	ND<0.50	ND<0.50	1.1	NA	NA
	06/23/03	ND<100	ND<20	5.2	ND<0.50	ND<0.50	0.75	ND<0.50	ND<0.50
	09/22/03	ND<100	ND<20	3.9	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-4	03/20/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-5	03/20/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-6	03/20/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-7	03/20/03	ND<100	ND<20	32	ND<0.50	ND<0.50	0.62	NA	NA
	06/23/03	ND<100	170	14	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/03	ND<100	170	5.3	ND<0.50	ND<0.50	ND<0.50	NA	NA
	12/03/03	ND<100	85	4.2	ND<0.50	ND<0.50	ND<0.50	NA	NA
RW-1	03/20/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA

Note = All fuel oxygenate compounds analyzed using EPA Method 8260B
TBA = tert-Butyl alcohol
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert butyl ether
TAME = tert-Amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
µg/L = micrograms per liter
ND< = Not detected at or above laboratory reporting limit
NA = Not analyzed

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 # 031203-DAZ Date 12/3/03 Client 4494

Site 566 Hegenberger Rd. Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4					7.90	22.96	TOC	
* MW-3	4					9.44	17.91		
* MW-4	4					9.48	16.61		
MW-5	2					6.56	16.99		
MW-6	2					6.12	18.20		
MW-7	4					8.86	13.40		
RW-1	2					8.05	11.24		↓
* Gauged w/ stringer in well									

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031203-DAZ	Station # 4494
Sampler: DA	Date: 12/3/03
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 22.96	Depth to Water: 7.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	D.O. Meter (if req'd): YSI <u>HACH</u>

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

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

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

<u>9.8</u>	x	<u>3</u>	=	<u>29.4</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1048	65.3	7.6	24320	10	clear
1049	well dewatered @ 15 g. DTW = 21.06				
1052	67.7	6.9	26030	—	"

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 1055 Sampling Date: 12/3/03

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

Analyzed for: PHG BTEX MTBE TPH-D Other: Oxy's, Ethanol

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.1 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 071203-DA2	Station # 4494
Sampler: DA	Date: 12/3/03
Well I.D.: MW-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 13.40	Depth to Water: 8.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI <u>HACH</u>

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

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

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

<u>2.9</u>	x	<u>3</u>	=	<u>8.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1026	58.8	6.7	5302	3	clear, gas odor
1027	64.1	7.1	8201	6	orange tint, cloudy, odor
1028	66.2	7.2	7923	9	" "

Did well dewater? Yes <input checked="" type="checkbox"/> <u>No</u>	Gallons actually evacuated: <u>9</u>	
Sampling Time: <u>1031</u>	Sampling Date: <u>12/3/03</u>	
Sample I.D.: <u>MW-7</u>	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: <u>Oil's, Ethanol</u>		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>0.1</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

BP GEM OIL COMPANY TYPE **A** BILL OF LADING

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

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

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

4494

Station #

566 Hegenberger Rd. Oakland, CA

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

24

added equip.
rinse water 6

any other
adjustments _____

TOTAL GALS.
RECOVERED 30

loaded onto
BTS vehicle # 49

BTS event #

time date

031203-DAZ

110 12/3/03

signature

David Albert

REC'D AT

time date

unloaded by
signature

1/1

ATTACHMENT B

**LABORATORY PROCEDURES,
CERTIFIED ANALYTICAL REPORTS,
AND CHAIN-OF-CUSTODY RECORDS**

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by the Atlantic Richfield Company have been reviewed and verified by that laboratory.



17 December, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland, CA 94607

RE: ARCO #4494, Oakland, CA
Work Order: MML0161

Enclosed are the results of analyses for samples received by the laboratory on 12/04/03 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen
Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MML0161
Reported:
12/17/03 09:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MML0161-01	Water	12/03/03 10:55	12/04/03 15:15
MW-7	MML0161-02	Water	12/03/03 10:31	12/04/03 15:15

There were custody seal that were received with this project.

URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: ARCO #4494, Oakland, CA
 Project Number: INTRIM-50443
 Project Manager: Scott Robinson

 MML0161
 Reported:
 12/17/03 09:28

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MML0161-01) Water Sampled: 12/03/03 10:55 Received: 12/04/03 15:15									
Ethanol	ND	500	ug/l	5	3L10001	12/10/03	12/11/03	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	260	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	
Benzene	2.6	2.5	"	"	"	"	"	"	
Toluene	9.8	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	11	2.5	"	"	"	"	"	"	
Gasoline Range Organics	410	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		78-129	"	"	"	"	
MW-7 (MML0161-02) Water Sampled: 12/03/03 10:31 Received: 12/04/03 15:15									
Ethanol	ND	100	ug/l	1	3L10001	12/10/03	12/11/03	EPA 8260B	
tert-Butyl alcohol	85	20	"	"	"	"	"	"	
Methyl tert-butyl ether	4.2	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		78-129	"	"	"	"	



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MML0161
Reported:
12/17/03 09:28

**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 3L10001 - EPA 5030B P/T

Blank (3L10001-BLK1)

Prepared & Analyzed: 12/10/03

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics	ND	50	"							

Surrogate: 1,2-Dichloroethane-d4 5.40 " 5.00 108 78-129

Laboratory Control Sample (3L10001-BS1)

Prepared & Analyzed: 12/10/03

Ethanol	203	100	ug/l	200		102	31-186			
tert-Butyl alcohol	44.7	20	"	50.0		89.4	0-206			
Methyl tert-butyl ether	10.0	0.50	"	10.0		100	63-137			
Di-isopropyl ether	9.34	0.50	"	10.0		93.4	76-130			
Ethyl tert-butyl ether	9.63	0.50	"	10.0		96.3	61-141			
tert-Amyl methyl ether	9.39	0.50	"	10.0		93.9	56-140			
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136			
1,2-Dibromoethane (EDB)	9.11	0.50	"	10.0		91.1	77-132			
Benzene	10.3	0.50	"	10.0		103	78-124			
Toluene	9.66	0.50	"	10.0		96.6	78-129			
Ethylbenzene	8.90	0.50	"	10.0		89.0	84-117			
Xylenes (total)	26.5	0.50	"	30.0		88.3	83-125			

Surrogate: 1,2-Dichloroethane-d4 5.32 " 5.00 106 78-129

URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: ARCO #4494, Oakland, CA
 Project Number: INTRIM-50443
 Project Manager: Scott Robinson

 MML0161
 Reported:
 12/17/03 09:28

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 3L10001 - EPA 5030B P/T
Laboratory Control Sample (3L10001-BS2)

Prepared & Analyzed: 12/10/03

Methyl tert-butyl ether	8.41	0.50	ug/l	9.92		84.8	63-137			
Benzene	5.59	0.50	"	6.40		87.3	78-124			
Toluene	30.0	0.50	"	29.7		101	78-129			
Ethylbenzene	6.99	0.50	"	6.96		100	84-117			
Xylenes (total)	33.4	0.50	"	33.7		99.1	83-125			
Gasoline Range Organics	415	50	"	440		94.3	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.62</i>		<i>"</i>	<i>5.00</i>		<i>112</i>	<i>78-129</i>			

Laboratory Control Sample Dup (3L10001-BSD1)

Prepared: 12/10/03 Analyzed: 12/11/03

Ethanol	191	100	ug/l	200		95.5	31-186	6.09	37	
tert-Butyl alcohol	42.3	20	"	50.0		84.6	0-206	5.52	22	
Methyl tert-butyl ether	9.74	0.50	"	10.0		97.4	63-137	2.63	13	
Di-isopropyl ether	9.35	0.50	"	10.0		93.5	76-130	0.107	9	
Ethyl tert-butyl ether	9.45	0.50	"	10.0		94.5	61-141	1.89	9	
tert-Amyl methyl ether	9.54	0.50	"	10.0		95.4	56-140	1.58	12	
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136	0.00	13	
1,2-Dibromoethane (EDB)	9.27	0.50	"	10.0		92.7	77-132	1.74	9	
Benzene	10.1	0.50	"	10.0		101	78-124	1.96	12	
Toluene	9.50	0.50	"	10.0		95.0	78-129	1.67	10	
Ethylbenzene	9.36	0.50	"	10.0		93.6	84-117	5.04	10	
Xylenes (total)	25.8	0.50	"	30.0		86.0	83-125	2.68	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.27</i>		<i>"</i>	<i>5.00</i>		<i>105</i>	<i>78-129</i>			

Laboratory Control Sample Dup (3L10001-BSD2)

Prepared: 12/10/03 Analyzed: 12/11/03

Methyl tert-butyl ether	8.06	0.50	ug/l	9.92		81.2	63-137	4.25	13	
Benzene	5.58	0.50	"	6.40		87.2	78-124	0.179	12	
Toluene	29.7	0.50	"	29.7		100	78-129	1.01	10	
Ethylbenzene	7.19	0.50	"	6.96		103	84-117	2.82	10	
Xylenes (total)	33.0	0.50	"	33.7		97.9	83-125	1.20	11	
Gasoline Range Organics	393	50	"	440		89.3	70-113	5.45	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.18</i>		<i>"</i>	<i>5.00</i>		<i>104</i>	<i>78-129</i>			

Sequoia Analytical - Morgan Hill

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



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MML0161
Reported:
12/17/03 09:28

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Chain of Custody Record

MML0161

Project Name 4494GWM
 BP BU/GEM CO Portfolio Retail
 BP Laboratory Contract Number: Atlantic Richfield Company
 Requested Due Date (mm/dd/yy) 14 day TAT

Date: 12/3/03

On-site Time: 0925 Temp: 62.1
 Off-site Time: 1125 Temp: 62.3
 Sky Conditions: cloudy
 Meteorological Events: -
 Wind Speed: 5 mph Direction: E

Send To:	BP/GEM Facility No.: <u>ARCO 4494</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>566 HEGENBERGER, OAKLAND, CA</u>	Address: <u>500 12th St., Ste. 200</u>
Lab Address: <u>885 Jarvis Dr.</u> <u>Morgan Hill, CA 95037</u>	Site ID No. <u>ARCO 4494</u>	<u>Oakland, CA 94609-4014</u>
Lab PM: <u>Theresa Allen</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	California Global ID #: <u>T0600100104</u>	Consultant/Contractor Project No.: <u>J5-0000494.01 00427</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
BP/GEM Account No.:	Address: <u>P.O. Box 6549</u> <u>Moraga, CA 94570</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Lab Bottle Order No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	Invoice to: Consultant/Contractor of <u>BP/IRM</u> (Circle one)
		BP/GEM Work Release No: <u>INTRIM -50443</u>

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis							Sample Point Lat/Long and Comments				
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G/BTEX (8015/8021/8260)	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE, DIPE, TBA (8260)	1,2-DCA & EDB (8260)	Ethanol (8260)					
1	MW-1	1055		X			01	3																
2	MW-7	1031		X			02	3																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

Sampler's Name: <u>David Abbott</u>	Relinquished By / Affiliation: <u>David Abbott / BTS</u>	Date: <u>12/4/03</u>	Time: <u>10:06</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>12/4/03</u>	Time: <u>10:06</u>
Sampler's Company: <u>Blaine Tech</u>						
Event Date: <u>12/3/03</u>						
Event Method: <u>[Signature]</u>						
Tracking No.:						

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

Trace Yes No Temperature Blank Yes No Cooler Temperature on Receipt 5 °C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: VRS
 REC. BY (PRINT) TZ
 WORKORDER: MMLO161

DATE REC'D AT LAB: 12/4/07
 TIME REC'D AT LAB: 1515
 DATE LOGGED IN: 12-5-03

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	<input checked="" type="radio"/> Present / <input checked="" type="radio"/> Absent Intact / Broken*	121	40	MW-1 MW-7	(3) Vials L	HIL L	L L	12/3/07	3281070
2. Chain-of-Custody	<input checked="" type="radio"/> Present / <input type="radio"/> Absent*								
3. Traffic Reports or Packing List:	<input type="radio"/> Present / <input checked="" type="radio"/> Absent								
4. Airbill:	Airbill / Sticker <input type="radio"/> Present / <input checked="" type="radio"/> Absent								
5. Airbill #:									
6. Sample Labels:	<input checked="" type="radio"/> Present / <input type="radio"/> Absent								
7. Sample IDs:	<input checked="" type="radio"/> Listed / <input type="radio"/> Not Listed on Chain-of-Custody								
8. Sample Condition:	<input checked="" type="radio"/> Intact / <input type="radio"/> Broken* / <input type="radio"/> Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
10. Sample received within hold time:	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
11. Adequate sample volume received?	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
12. Proper Preservatives used:	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
13. Temp Rec. at Lab: Is temp 4 +/- 2°C?	<u>5°C</u> <input checked="" type="radio"/> Yes / <input type="radio"/> No*								

12/4/07

(Acceptance range for samples requiring thermal pres.)

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

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

ATTACHMENT C
HISTORIC GROUNDWATER DATA

Table 2
Liquid Surface Elevation Data

ARCO Service Station 4494
566 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-1	06/06/90	105.31	6.65	6.05	0.00	98.66
	08/16/90		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		7.46	7.46	0.00	97.85
	11/29/90		7.40	7.40	0.00	97.91
	12/19/90		6.99	6.99	0.00	98.32
	01/29/91		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
	03/26/91		6.02	6.02	0.00	99.29
	05/02/91		7.04	7.04	0.00	98.27
	06/27/91		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	98.46
	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		7.46	7.46	0.00	97.85
	01/19/92		7.44	7.44	0.00	97.87
	02/20/92		6.25	6.25	0.00	99.06
	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	
	06/08/92	7.22	7.22	0.00	98.09	
	07/15/92	106.10	7.92	7.92	0.00	97.39
	08/06/92		7.29	7.29	0.00	98.81
	10/29/92		7.34	7.34	0.00	98.76
	11/23/92		8.15	8.15	0.00	97.95
	08/16/93		7.23	7.23	0.00	98.87
	11/17/93		7.51	7.51	0.00	98.59
	02/21/94		6.56	6.56	0.00	99.54
	05/11/94		6.57	6.57	0.00	99.53
08/12/94	7.12		7.12	0.00	98.98	
11/17/94	6.85		6.85	0.00	99.28	
02/22/95	7.35	7.35	0.00	98.75		
05/24/95	7.07	7.07	0.00	99.03		
08/23/95	7.10	7.10	0.00	99.00		
11/17/95	7.72	7.72	0.00	98.38		
MW-2	06/06/90	105.78	9.92*	9.00	0.92	95.86
	08/16/90		NM	NM	0.17	NM
	08/21/90		NM	NM	0.17	NM
	09/07/90		9.34*	9.17	0.17	96.44
	11/20/90		9.20*	9.2	Sheen	96.58
	11/29/90		9.92*	9.92	Sheen	95.86
	12/19/90		8.95	8.95	0/00	96.83
	01/29/91		9.01	9.01	Sheen	96.77
	02/27/91		9.14	9.14	Sheen	96.64
	03/07/91		8.94	8.94	Sheen	96.84
	03/26/91		8.11	8.11	Sheen	97.67
05/02/91	8.72	8.72	0	97.06		

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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
566 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-2 (cont.)	06/27/91		9.20	9.2	Sheen	96.58
	07/24/91		9.25	9.25	0.00	96.53
	08/22/91		9.20	9.20	0.00	96.58
	09/30/91		9.31	9.31	Sheen	96.47
	10/17/91		9.39	9.39	Sheen	96.39
	11/21/91		9.20	9.2	0	96.58
	12/18/91		9.23	9.23	Sheen	96.55
	01/19/92		9.96**	9.96	Skimmer	95.82
	02/20/92		9.13**	9.13	Skimmer	96.65
	03/20/92		9.31**	9.31	Skimmer	96.47
	04/20/92		9.69	9.69	Skimmer	96.09
	05/19/92		9.92	9.92	Skimmer	95.86
	06/08/92		9.84	9.84	Skimmer	95.94
	07/15/92		10.19	10.19	Skimmer	95.59
	08/06/92	106.57	10.05	10.05	Skimmer	96.52
	10/29/92		10.00	10.00	Skimmer	96.57
	11/23/92		9.88	9.87	0.01	96.69
			-----Well Destroyed-----			
MW-3	08/16/90	105.51	8.87	8.87	0.00	96.64
	08/21/90		8.85	8.85	0.00	96.66
	09/07/90		8.98	8.98	0.00	96.53
	11/20/90		9.10	9.10	0.00	96.41
	11/29/90		9.05	9.05	0.00	96.46
	12/19/90		8.67	8.67	0.00	96.84
	01/29/91		8.96	8.96	0.00	96.55
	02/27/91		8.71	8.71	0.00	96.80
	03/07/91		8.49	8.49	0.00	97.02
	03/26/91		7.65	7.65	0.00	97.86
	05/02/91		8.62	8.62	0.00	96.89
	06/27/91		8.94	8.94	0.00	96.57
	07/24/91		8.96	8.96	0.00	96.55
	08/22/91		8.92	8.92	0.00	96.59
	09/30/91		9.04	9.04	0.00	96.47
	10/17/91		9.12	9.12	0.00	96.39
	11/21/91		8.92	8.92	0.00	96.59
	12/18/91		8.97	8.97	0.00	96.54
	01/19/92		8.69	8.69	0.00	96.82
	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	96.94
	05/19/92		8.76	8.76	0.00	96.75
	06/08/92		8.74	8.74	0.00	96.77
	07/15/92		9.12	9.12	0.00	96.39
	08/06/92	106.29	8.95	8.95	0.00	97.34
	10/29/92		8.78	8.78	0.00	97.51
	11/23/92		9.91	9.91	0.00	96.38
08/16/93		8.62	8.62	0.00	97.67	
11/17/93		8.72	8.72	0.00	97.57	
02/21/94		7.91	7.91	0.00	98.38	
05/11/94		8.09	8.09	0.00	98.20	

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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
566 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.)	08/12/94		8.78	8.78	0.00	97.51
	11/17/94		8.45	8.45	0.00	97.84
	02/22/95		8.95	8.95	0.00	97.34
	05/24/95		8.67	8.67	0.00	97.62
	08/23/95		9.17	9.17	0.00	97.12
	11/17/95		9.39	9.39	0.00	96.90
MW-4	08/16/90	106.61	8.16	8.16	0.00	98.45
	08/21/90		8.22	8.22	0.00	98.39
	09/07/90		8.39	8.39	0.00	98.22
	11/20/90		8.57	8.57	0.00	98.04
	11/29/90		8.53	8.53	0.00	98.08
	12/19/90		8.13	8.13	0.00	98.48
	01/29/91		8.66	8.66	0.00	97.95
	02/27/91		8.44	8.44	0.00	98.17
	03/07/91		8.18	8.18	0.00	98.43
	03/26/91		7.56	7.56	0.00	99.05
	05/02/91		8.25	8.25	0.00	98.36
	06/27/91		7.75	7.75	0.00	98.86
	07/24/91		8.12	8.12	0.00	98.49
	08/22/91		7.98	7.98	0.00	98.63
	09/30/91		8.26	8.26	0.00	98.35
	10/17/91		8.42	8.42	0.00	98.19
	11/21/91		8.65	8.65	0.00	97.96
	12/18/91		8.77	8.77	0.00	97.84
	01/19/92		8.42	8.42	0.00	98.19
	02/20/92		7.60	7.60	0.00	99.01
	03/20/92		7.61	7.61	0.00	99.00
	04/20/92		8.15	8.15	0.00	98.46
	05/19/92		8.14	8.14	0.00	98.47
	06/08/92		8.40	8.40	0.00	98.21
	07/15/92		8.72	8.72	0.00	97.89
	08/06/92	107.40	8.52	8.52	0.00	98.88
	10/29/92		8.63	8.63	0.00	98.77
	11/23/92		8.75	8.75	0.00	98.65
	08/16/93		8.69	8.69	0.00	98.71
	11/17/93		9.11	9.11	0.00	98.29
	02/21/94		8.16	8.16	0.00	99.24
	05/11/94		8.29	8.29	0.00	99.11
08/12/94		8.75	8.75	0.00	98.65	
11/17/94		8.40	8.40	0.00	99.00	
02/22/95		8.72	8.72	0.00	98.68	
05/24/95		8.63	8.63	0.00	98.77	
08/23/95		6.50	6.50	0.00	100.90	
11/17/95		9.15	9.15	0.00	98.25	
MW-5	08/06/92	105.19	7.19	7.19	0.00	98.00
	10/29/92		6.99	6.99	0.00	98.20
	11/23/92		6.90	6.90	0.00	98.29
	08/16/93		7.06	7.06	0.00	98.13
	11/17/93		6.91	6.91	0.00	98.28
	02/21/94		5.52	5.52	0.00	99.67
	05/11/94		6.18	6.18	0.00	99.01
	08/12/94		6.81	6.81	0.00	98.38
	11/17/94		5.38	5.38	0.00	99.81
	02/22/95		6.25	6.25	0.00	98.94

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February 15, 1996

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
566 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-5 (cont.)	05/24/95		6.30	6.30	0.00	98.89	
	08/23/95		6.90	6.90	0.00	98.29	
	11/17/95		7.02	7.02	0.00	98.17	
MW-6	08/06/92	105.07	7.01	7.01	0.00	98.06	
	10/29/92		6.70	6.70	0.00	98.37	
	11/23/92		6.75	6.75	0.00	98.32	
	08/16/93		6.71	6.71	0.00	98.36	
	11/17/93		6.67	6.67	0.00	98.40	
	02/21/94		5.31	5.31	0.00	99.76	
	05/11/94		5.98	5.98	0.00	99.09	
	08/12/94		6.60	6.60	0.00	98.47	
	11/17/94		5.09	5.09	0.00	99.98	
	02/22/95		5.85	5.85	0.00	99.22	
	05/24/95		5.92	5.92	0.00	99.15	
	08/23/95		6.50	6.50	0.00	98.57	
	11/17/95		6.75	6.75	0.00	98.32	
	MW-6	08/06/92	105.52	8.28	8.28	0.00	97.24
		10/29/92		8.62	8.62	0.00	96.90
11/23/92			8.21	8.21	0.00	97.31	
08/16/93			8.11	8.11	0.00	97.41	
11/17/93			8.11	8.11	0.00	97.41	
02/21/94			7.34	7.34	0.00	98.18	
05/11/94			7.45	7.45	0.00	98.07	
08/12/94			8.13	8.13	0.00	97.39	
11/17/94			7.90	7.90	0.00	97.62	
02/22/95			8.40	8.40	0.00	97.12	
05/24/95			8.29	8.29	0.00	97.23	
08/23/95			8.60	8.60	0.00	96.92	
11/17/95			8.73	8.73	0.00	96.79	
RW-1		08/16/93	NM				
		11/17/93					
	02/21/94		7.69	7.69	0.00	NM	
	05/11/94		7.96	7.96	0.00	NM	
	08/12/94		7.58	7.58	0.00	NM	
	11/17/94		7.66	7.66	0.00	NM	
	02/22/95		8.00	8.00	0.00	NM	
	05/24/95		8.10	8.10	0.00	NM	
	08/23/95		8.67	8.67	0.00	NM	
	11/17/95		9.15	9.15	0.00	NM	

MSL = Mean sea level
TOC = Top of casing
* = Separate-phase hydrocarbons present in well.
** = Skimmer installed (12/24/91).
NM = Not measured

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
 566 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-1	06/19/90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5000	
	08/16/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	09/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<5000	
	11/29/90	<50	<0.50	0.7	<0.50	<0.50	N/A	N/A	
	03/07/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	06/27/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	09/30/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	12/18/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	03/20/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	06/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/06/92	<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	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-2	06/19/90	0.92 foot of Separate-Phase Hydrocarbons							
	08/16/90	0.17 foot of Separate-Phase Hydrocarbons							
	09/07/90	Separate-Phase Hydrocarbons							
	11/29/90	Separate-Phase Hydrocarbons							
	03/07/91	Separate-Phase Hydrocarbons							
	06/27/91	Separate-Phase Hydrocarbons							
	09/30/91	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	
	06/08/92	43,000	2,900	940	240	5,100	N/A	N/A	
08/06/92	78,000	2,500	6,700	2,900	16,000	N/A	N/A		
10/29/92	NS	NS	NS	NS	NS	NS	NS		
12/08/92	Well Destroyed								
MW-3	06/19/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/16/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000	
	09/07/90	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	11/29/90	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	03/07/91	<50	<30	<30	<30	<30	N/A	N/A	
	06/27/91	<30	<30	<30	<30	<30	N/A	N/A	
	09/30/91	<30	<30	<30	<30	<30	N/A	N/A	
	12/18/91	<30	<30	<30	<30	<30	N/A	N/A	
	03/20/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	06/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/06/92	<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	

3300412B\4Q95TBLS.XLS\Table3

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 4494
 566 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	08/16/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	09/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000
	11/29/90	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	03/07/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A
	06/27/91	<50	0.75	1.1	<0.30	1.6	N/A	N/A
	09/30/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A
	12/18/91	<50	0.83	1.2	<0.30	0.58	N/A	N/A
	03/20/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	06/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	08/06/92	<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	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	08/06/92	<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	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	08/06/92	<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	Well Sampled Annually							

3300412B4Q95TBLS.XLS\Table3

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 4494
 566 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-6 (cont.)	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-7	08/06/92	<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	-----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-----						
RW-1	08/16/93	NS	NS	NS	NS	NS	NS	NS
	11/17/93	NS	NS	NS	NS	NS	NS	NS
	02/22/94	280	2,100	19	40	66	N/A	N/A
	05/11/94	3,300	32	28	87	310	N/A	N/A
	08/12/94	4,600	42	59	190	400	N/A	N/A
	11/17/94	1,400	56	21	28	210	N/A	N/A
	02/22/95	8,100	140	<10	550	560	N/A	N/A
	05/24/95	940	53	0.75	11	1.4	N/A	N/A
	08/23/95	620	2.1	2.3	0.67	0.67	N/A	N/A
	11/17/95	1,100	7.6	21	46	180	N/A	N/A

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

Table 4
Groundwater Analytical Data
Total Methyl t-Butyl Ether

ARCO Service Station 4494
566 Hegenberger Road at Edes 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

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

Error Summary Log

12/19/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #4494, Oakland, CA
Work Order Number:	MML0161
Global ID:	T0600100104
Lab Report Number:	MML0161121720030928

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MML01611217200 MW-1 30928		MML016101	W	CS	8260TPH	SW5030B	12/03/03	12/10/03	12/11/03	3L10001	1
MML01611217200 MW-7 30928		MML016102	W	CS	8260TPH	SW5030B	12/03/03	12/10/03	12/11/03	3L10001	1
		3L10001BSD1	WQ	BD1	8260TPH	SW5030B	//	12/10/03	12/11/03	3L10001	1
		3L10001BSD2	WQ	BD2	8260TPH	SW5030B	//	12/10/03	12/11/03	3L10001	1
		3L10001BS1	WQ	BS1	8260TPH	SW5030B	//	12/10/03	12/10/03	3L10001	1
		3L10001BS2	WQ	BS2	8260TPH	SW5030B	//	12/10/03	12/10/03	3L10001	1
		3L10001BLK1	WQ	LB1	8260TPH	SW5030B	//	12/10/03	12/10/03	3L10001	1

EDFSAMP: Error Summary Log

12/19/03

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
Error: LOGCODE field is blank or invalid	URSO	ARCO #4494, Oakland, CA	MML0161	MW-1	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #4494, Oakland, CA	MML0161	MW-7	W

EDFTEST: Error Summary Log

12/19/03

Error type	Labsampid	Qcocode	Anmcode	Exmcode	Anadate	Run number
Error: ANMCODE field is blank or invalid	3L10001BLK1	LB1	8260TPH	SW5030B	12/10/03	1
Error: ANMCODE field is blank or invalid	3L10001BS1	BS1	8260TPH	SW5030B	12/10/03	1
Error: ANMCODE field is blank or invalid	3L10001BS2	BS2	8260TPH	SW5030B	12/10/03	1
Error: ANMCODE field is blank or invalid	3L10001BSD1	BD1	8260TPH	SW5030B	12/11/03	1
Error: ANMCODE field is blank or invalid	3L10001BSD2	BD2	8260TPH	SW5030B	12/11/03	1
Error: ANMCODE field is blank or invalid	MML016101	CS	8260TPH	SW5030B	12/11/03	1
Error: ANMCODE field is blank or invalid	MML016102	CS	8260TPH	SW5030B	12/11/03	1

EDFRES: Error Summary Log

12/19/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
There are no errors in this data file						//	0	

EDFQC: Error Summary Log

12/19/03

Error type	Lablotct	Anmcode	Parlabel	Qccode	Labqcid
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	BZ	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	BZ	BD2	3L10001BSD2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	BZ	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	BZ	BS2	3L10001BS2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	BZ	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	BZME	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	BZME	BD2	3L10001BSD2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	BZME	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	BZME	BS2	3L10001BS2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	BZME	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DCA12	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DCA12	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DCA12	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DCA12D4	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DCA12D4	BD2	3L10001BSD2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DCA12D4	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DCA12D4	BS2	3L10001BS2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DCA12D4	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DIPE	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DIPE	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	DIPE	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	EBZ	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	EBZ	BD2	3L10001BSD2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	EBZ	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	EBZ	BS2	3L10001BS2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	EBZ	LB1	3L10001BLK1

Error type	Lablotct1	Anmcode	Parlabel	Qccode	Labqcid
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	EDB	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	EDB	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	EDB	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	ETBE	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	ETBE	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	ETBE	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	ETHANOL	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	ETHANOL	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	ETHANOL	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	GRO	BD2	3L10001BSD2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	GRO	BS2	3L10001BS2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	GRO	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	MTBE	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	MTBE	BD2	3L10001BSD2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	MTBE	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	MTBE	BS2	3L10001BS2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	MTBE	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	TAME	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	TAME	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	TAME	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	TBA	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	TBA	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	TBA	LB1	3L10001BLK1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	XYLENES	BD1	3L10001BSD1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	XYLENES	BD2	3L10001BSD2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	XYLENES	BS1	3L10001BS1
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	XYLENES	BS2	3L10001BS2
Error: ANMCODE field is blank or invalid	3L10001	8260TPH	XYLENES	LB1	3L10001BLK1

EDFCL: Error Summary Log

12/19/03

Error type	Cirevdate	Anmcode	Exmcode	Parlabel	Cicode
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DCA12D4	SLSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	BZ	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	BZ	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	BZME	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	BZME	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DCA12	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DCA12	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DCA12D4	SLSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DIPE	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DIPE	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	EBZ	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	EBZ	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	EDB	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	EDB	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	ETBE	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	ETBE	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	ETHANOL	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	ETHANOL	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	GRO	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	GRO	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	MTBE	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	MTBE	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	TAME	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	TAME	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	TBA	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	TBA	LSP

Error type	Cirevdate	Anmcode	Exmcode	Parlabel	Cicode
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	XYLENES	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	XYLENES	LSP

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Facility Name: ARCO # 04494

Submittal Title: 4th Quarter 2003 Monitoring Data

Submittal Type: GW Monitoring Report

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