Atlantic Richfield Company
(a BP affiliated company)

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

October 10, 2005

Re: Third Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #0276
10600 MacArthur Boulevard
Oakland, California
ACEH Case #3756

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

URS

October 10, 2005

Ms. Donna Drogos
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Second Floor, Suite 250
Alameda, CA 94502

Re: Third Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #0276
10600 MacArthur Boulevard
Oakland, California
ACEH Case #3756

Dear Ms. Drogas:

On behalf of Atlantic Richfield Company, a BP-affiliated company, URS Corporation (URS) is submitting the *Third Quarter 2005 Groundwater Monitoring Report* for ARCO Service Station #0276, located at 10600 MacArthur Boulevard, Oakland, California.

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

Sincerely,

URS CORPORATION

PROFESSIONAL GEOLOGIST
SCOTT E. ROBINSON
No. 7829
STATE OF CALIFORNIA

Scott Robinson, P.G.
Project Manager

Enclosure: Third Quarter 2005 Groundwater Monitoring Report

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

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
Fax: 510.874.3268

REPORT

THIRD QUARTER 2005 GROUNDWATER MONITORING REPORT

ARCO SERVICE STATION #0276
10600 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Prepared for
RM

October 10, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date:	October 10, 2005
Quarter:	3Q05

THIRD QUARTER 2005 GROUNDWATER MONITORING REPORT

Facility No.:	0276	Address:	10600 MacArthur Boulevard, Oakland, California
RM Environmental Business Manager:			Paul Supple
Consulting Co./Contact Person:			URS Corporation / Scott Robinson
Primary Agency:			Alameda County Environmental Health (ACEH)
ACEH Case #:			3756

WORK PERFORMED THIS QUARTER (Third – 2005):

1. Performed third quarter 2005 groundwater monitoring event on August 11, 2005.
2. Prepared and submitted this Third Quarter 2005 Groundwater Monitoring Report.
3. Well repairs performed on wells RW-1 and MW-6 on August 11, 2005 (Attachment E).

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2005):

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

SITE SUMMARY:

Current Phase of Project:	Groundwater monitoring/sampling
Frequency of Groundwater Sampling:	Quarterly: Wells MW-2, MW-5, and MW-8 Semi-annually (1st & 3rd quarter): Wells MW-6 and MW-7 Annually (1st quarter): Wells MW-1, MW-3, MW-4, WGR-3, and RW-1
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	None
Approximate Depth to Groundwater:	15.97 (MW-2) to 31.40 (MW-6) feet
Groundwater Gradient (direction):	South-Southwest
Groundwater Gradient (magnitude):	0.007 feet per foot

DISCUSSION:

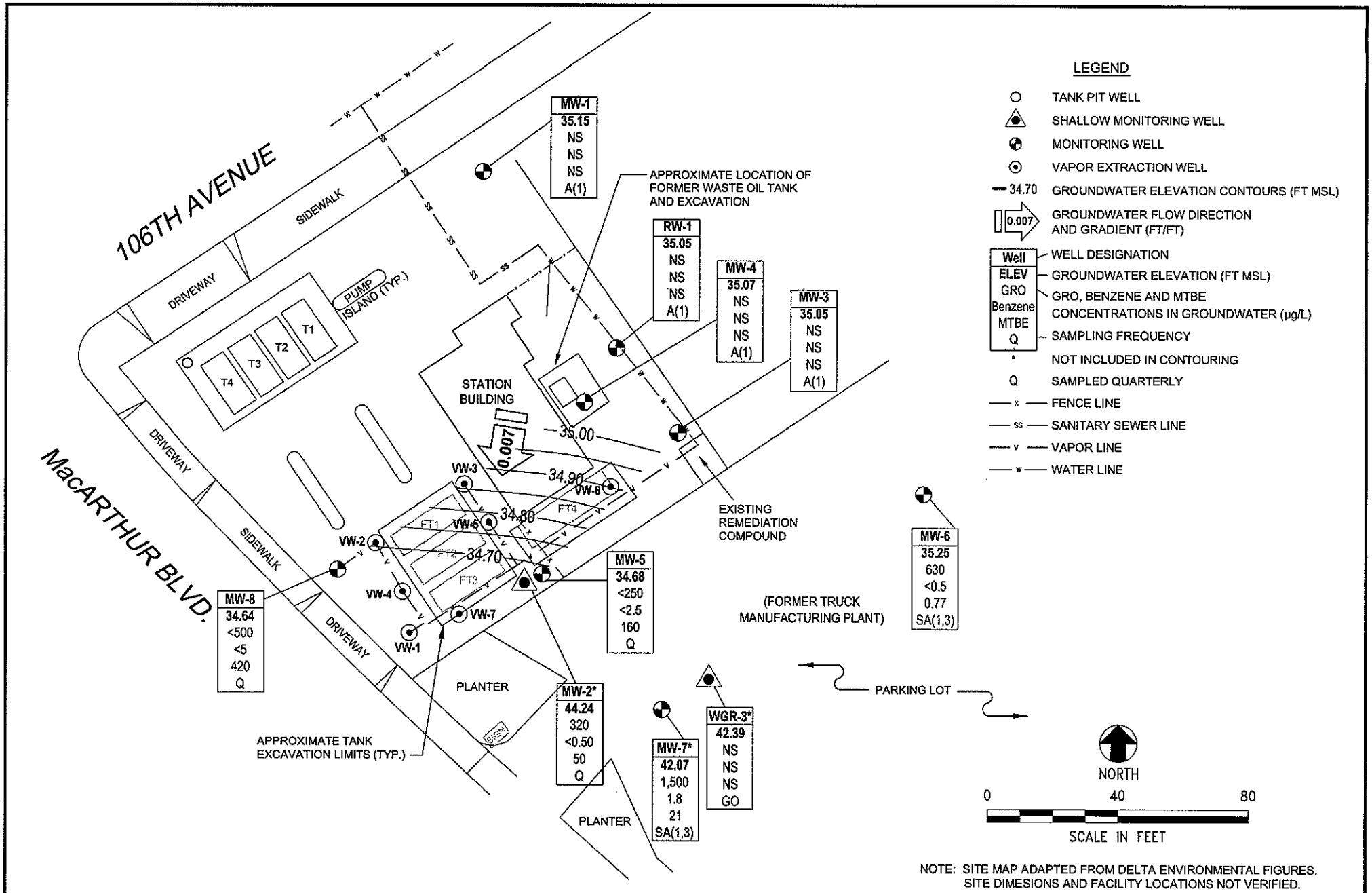
Gasoline range organics (GRO) were detected at or above the laboratory reporting limit in three of the five wells sampled this quarter at concentrations ranging from 320 µg/L (MW-2) to 1,500 µg/L (MW-7). Methyl tert-butyl ether (MTBE) was detected at or above the laboratory reporting limit in all five wells sampled at concentrations ranging from 0.77 µg/L (MW-6) to 420 µg/L (MW-8). Tert-amyl methyl ether (TAME) was detected at or above the laboratory reporting limit in four wells at concentrations ranging from 4.7 µg/L (MW-7) to 24 µg/L (MW-8). 1,2-Dichloroethane (1,2-DCA) was detected at or above the laboratory reporting limit in one well at a concentration

of 9.6 μg/L (MW-5). Benzene was detected at or above the laboratory reporting limit in one well at a concentration of 1.8 μg/L (MW-7). Ethyl benzene was detected at or above the laboratory reporting limit in one well at a concentration of 4.2 μg/L (MW-7). Total xylenes were detected at or above the laboratory reporting limit in one well at a concentration of 1.2 μg/L (MW-7). No other fuel components were detected at or above their respective laboratory reporting limits in any wells sampled this quarter.

ATTACHMENTS:

- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – August 11, 2005
- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Fuel Additives Analytical Data
- Table 3 - Groundwater Gradient Data
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports, Chain-of-Custody Records
- Attachment C - Historical Groundwater Data
- Attachment D – Error Check Reports and EDF/Geowell Submittal Confirmations: 1Q05 and 2Q05
- Attachment E – Well Repair Data Sheets

Oct 05, 2005 - 5:02pm
X:\x_env_waste\BP GEM\Sites\Scott Robinson\Paul Supple\0276\Monitoring\2005 Qtr. 3\276-3Q05-GW.dwg



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

URS	Project No. 38487162 ARCO Service Station #0276 10600 MacArthur Boulevard Oakland, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Third Quarter 2005 (August 11, 2005)	FIGURE 1

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0276
10600 Macarthur Blvd., 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	12/17/2000	--		55.92	23.50	28.50	29.16	26.76	5.09	---	---	---	---	--	--	--
	12/28/2001	--		55.92	23.50	28.50	27.38	28.54	8.8	---	---	---	---	--	--	--
	11/27/2002	NP		55.92	23.50	28.50	29.45	26.47	4.2	---	---	---	---	--	2.3	6.7
	7/22/2003	NP		55.92	23.50	28.50	27.58	28.34	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	6.7
	11/07/2003	NP		55.92	23.50	28.50	30.42	25.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.10	6.6
	02/03/2004	NP		55.92	23.50	28.50	38.80	17.12	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.50	6.8
	05/04/2004	NP	g	61.26	23.50	28.50	26.67	34.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	6.6
	08/12/2004	NP		61.26	23.50	28.50	29.49	31.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.20	6.6
	11/10/2004	NP		61.26	23.50	28.50	30.29	30.97	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.10	6.6
	02/03/2005	NP		61.26	23.50	28.50	26.23	35.03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.89	6.5
	05/09/2005	--		61.26	23.50	28.50	22.93	38.33	--	--	--	--	--	--	--	--
	08/11/2005	**--**		**61.26**	**23.50**	**28.50**	**26.11**	**35.15**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-2	12/17/2000	--		55.1	15.00	25.00	15.72	39.38	---	---	---	---	---	--	---	---
	12/28/2001	--		55.1	15.00	25.00	27.38	27.72	---	---	---	---	---	--	---	---
	11/27/2002	--		55.1	15.00	25.00	16.35	38.75	---	---	---	---	---	--	---	---
	7/22/2003	--		55.1	15.00	25.00	16.20	38.90	---	---	---	---	---	--	---	---
	11/07/2003	P		55.10	15.00	25.00	18.22	36.88	990	<5.0	<5.0	<5.0	<5.0	110	1.80	6.7
	02/03/2004	P		55.10	15.00	25.00	13.63	41.47	180	<2.5	<2.5	2.6	4.1	55	1.80	6.5
	05/04/2004	P	g	60.21	15.00	25.00	15.76	44.45	290	<2.5	<2.5	<2.5	<2.5	70	0.60	6.3
	08/12/2004	P		60.21	15.00	25.00	17.21	43.00	<250	<2.5	<2.5	3.2	<2.5	49	1.60	6.6
	11/10/2004	P		60.21	15.00	25.00	15.90	44.31	270	<1.0	<1.0	1.6	<1.0	90	0.90	6.2
	02/03/2005	P		60.21	15.00	25.00	14.29	45.92	480	1.7	<0.50	2.0	1.4	37	1.53	6.5
	05/09/2005	P		60.21	15.00	25.00	14.38	45.83	320	<0.50	<0.50	<0.50	0.64	56	0.57	6.5
	08/11/2005	**P**		**60.21**	**15.00**	**25.00**	**15.97**	**44.24**	**320**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**50**	**1.0**	**6.3**
MW-3	12/17/2000	--		56.55	22.00	27.00	29.78	26.77	158	---	---	---	---	--	--	--
	12/28/2001	--		56.55	22.00	27.00	27.95	28.60	310	20	1.5	13	---	--	--	--
	11/27/2002	NP		56.55	22.00	27.00	30.10	26.45	110	---	---	---	---	--	2.0	7.2
	7/22/2003	NP		56.55	22.00	27.00	28.32	28.23	120	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	5.9
	11/07/2003	NP		56.55	22.00	27.00	30.86	25.69	70	<0.50	<0.50	<0.50	<0.50	<0.50	2.80	6.5
	02/03/2004	NP		56.55	22.00	27.00	27.65	28.90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.10	6.7
	05/04/2004	NP	g	61.89	22.00	27.00	27.57	34.32	<100	<1.0	<1.0	<1.0	<1.0	<1.0	1.60	6.4
	08/12/2004	NP		61.89	22.00	27.00	30.31	31.58	52	<0.50	<0.50	<0.50	<0.50	<0.50	1.60	6.3
	11/10/2004	NP		61.89	22.00	27.00	31.00	30.89	91	<0.50	<0.50	<0.50	<0.50	<0.50	2.60	6.7

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0276
10600 Macarthur Blvd., 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	02/03/2005	NP	i	61.89	22.00	27.00	26.85	35.04	180	<0.50	<0.50	<0.50	<0.50	<0.50	2.25	6.5
	05/09/2005	--		61.89	22.00	27.00	23.72	38.17	--	--	--	--	--	--	--	--
	08/11/2005	--		**61.89**	**22.00**	**27.00**	**26.84**	**35.05**	--	--	--	--	--	--	--	--
MW-4	12/17/2000	--		55.98	25.00	45.00	29.22	26.76	225	---	---	---	---	--	--	--
	12/28/2001	--		55.98	25.00	45.00	27.37	28.61	160	1.2	---	---	---	--	--	--
	11/27/2002	NP		55.98	25.00	45.00	29.55	26.43	95	---	---	---	---	--	3.7	6.7
	7/22/2003	NP		55.98	25.00	45.00	27.73	28.25	130	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	6.6
	11/07/2003	NP		55.98	25.00	45.00	30.41	25.57	59	<0.50	<0.50	<0.50	<0.50	<0.50	2.60	6.5
	02/03/2004	NP		55.98	25.00	45.00	27.01	28.97	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.20	7.1
	05/04/2004	NP	g	61.30	25.00	45.00	26.91	34.39	<100	<1.0	<1.0	<1.0	<1.0	<1.0	2.10	6.5
	08/12/2004	NP		61.30	25.00	45.00	29.76	31.54	58	<0.50	<0.50	<0.50	<0.50	<0.50	2.30	6.4
	11/10/2004	NP		61.30	25.00	45.00	30.40	30.90	69	<0.50	<0.50	<0.50	<0.50	<0.50	2.40	6.6
	02/03/2005	NP	i	61.30	25.00	45.00	26.28	35.02	51	<0.50	<0.50	<0.50	<0.50	<0.50	3.77	6.8
	05/09/2005	--		61.30	25.00	45.00	23.14	38.16	--	--	--	--	--	--	--	--
	08/11/2005	--		**61.30**	**25.00**	**45.00**	**26.23**	**35.07**	--	--	--	--	--	--	--	--
MW-5	12/17/2000	--		55.43	23.50	31.50	28.82	26.61	1,040	---	---	---	---	--	--	--
	12/28/2001	--		55.43	23.50	31.50	26.91	28.52	3,200	190	2/4/1900	140	1.9/3.2/2.0	--	--	--
	11/27/2002	P		55.43	23.50	31.50	29.15	26.28	110	---	---	---	---	--	1.4	6.4
	7/22/2003	P		55.43	23.50	31.50	27.43	28.00	160	<1.0	<1.0	<1.0	<1.0	110	1.5	6.6
	11/07/2003	P		55.43	23.50	31.50	29.99	25.44	<250	<2.5	<2.5	<2.5	<2.5	120	0.60	6.2
	02/03/2004	P		55.43	23.50	31.50	26.55	28.88	85	<2.5	<2.5	<2.5	<2.5	71	1.70	6.7
	05/04/2004	P	g	60.73	23.50	31.50	26.47	34.26	<250	<2.5	<2.5	<2.5	<2.5	150	0.90	6.2
	08/12/2004	P		60.73	23.50	31.50	29.49	31.24	<250	<2.5	<2.5	<2.5	<2.5	140	1.80	6.3
	11/10/2004	P		60.73	23.50	31.50	30.15	30.58	170	<1.0	<1.0	<1.0	<1.0	150	1.0	6.3
	02/03/2005	P		60.73	23.50	31.50	25.85	34.88	100	<0.50	<0.50	<0.50	<0.50	16	1.65	6.5
	05/09/2005	P		60.73	23.50	31.50	22.85	37.88	340	<2.5	<2.5	<2.5	<2.5	140	0.87	6.3
	08/11/2005	**P**		**60.73**	**23.50**	**31.50**	**26.05**	**34.68**	**<250**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**160**	**1.60**	**6.3**
MW-6	12/17/2000	--		61.21	37.50	56.00	34.61	26.60	---	---	---	---	---	--	---	---
	12/28/2001	--		61.21	37.50	56.00	32.80	28.41	---	---	---	---	---	--	---	---
	11/27/2002	--		61.21	37.50	56.00	35.00	26.21	---	---	---	---	---	--	---	---
	7/22/2003	--		61.21	37.50	56.00	33.17	28.04	---	---	---	---	---	--	---	---
	11/07/2003	P	d, e	61.21	37.50	56.00	35.70	25.51	<500	<5.0	<5.0	<5.0	<5.0	<5.0	2.70	6.9

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0276
10600 Macarthur Blvd., 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	02/03/2004	P		61.21	37.50	56.00	32.17	29.04	84	<2.5	<2.5	<2.5	<2.5	<2.5	1.90	7.0
	05/04/2004	P	g	66.65	37.50	56.00	32.07	34.58	<250	<2.5	<2.5	<2.5	<2.5	<2.5	2.0	6.7
	08/12/2004	P		66.65	37.50	56.00	34.90	31.75	660	<0.50	<0.50	<0.50	<0.50	0.81	1.40	6.9
	11/10/2004	P		66.65	37.50	56.00	35.70	30.95	640	<0.50	<0.50	<0.50	<0.50	0.89	2.60	6.8
	02/03/2005	P	i	66.65	37.50	56.00	31.48	35.17	77	<0.50	<0.50	<0.50	<0.50	<0.50	1.73	7.0
	05/09/2005	--		66.65	37.50	56.00	28.37	38.28	--	--	--	--	--	--	--	--
	08/11/2005	**P**		**66.65**	**37.50**	**56.00**	**31.40**	**35.25**	**630**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**0.77**	**1.90**	**6.3**
MW-7	12/17/2000	--		58.22	17.50	37.50	19.94	38.28	---	---	---	---	---	--	---	---
	12/28/2001	--		58.22	17.50	37.50	17.29	40.93	---	---	---	---	---	--	---	---
	11/27/2002	--		58.22	17.50	37.50	21.30	36.92	---	---	---	---	---	--	---	---
	7/22/2003	--		58.22	17.50	37.50	21.36	36.86	---	---	---	---	---	--	---	---
	11/07/2003	P	d	58.22	17.50	37.50	23.76	34.46	3,200	15	<2.5	130	11	53	2.20	6.8
	02/03/2004	P		58.22	17.50	37.50	17.74	40.48	53	<0.50	<0.50	<0.50	0.54	32	1.90	6.4
	02/03/2005	P		63.54	17.50	37.50	18.13	45.41	61	<0.50	<0.50	<0.50	<0.50	14	3.39	6.5
	05/09/2005	--		63.54	17.50	37.50	18.39	45.15	--	--	--	--	--	--	--	--
	08/11/2005	**P**		**63.54**	**17.50**	**37.50**	**21.47**	**42.07**	**1,500**	**1.8**	**<1.0**	**4.2**	**1.2**	**21**	**2.0**	**6.3**
MW-8	12/17/2000	--		53.65	29.00	49.00	27.02	26.63	---	---	---	---	---	--	---	---
	12/28/2001	--		53.65	29.00	49.00	24.99	28.66	---	---	---	---	---	--	---	---
	11/27/2002	--		53.65	29.00	49.00	27.45	26.20	---	---	---	---	---	--	---	---
	7/22/2003	--		53.65	29.00	49.00	25.74	27.91	---	---	---	---	---	--	---	---
	11/07/2003	P		53.65	29.00	49.00	28.27	25.38	<500	<5.0	<5.0	<5.0	<5.0	440	2.60	6.5
	02/03/2004	P	f	53.65	29.00	49.00	24.80	28.85	170	<12	<12	<12	<12	470	3.0	6.7
	05/04/2004	P	g	58.96	29.00	49.00	24.81	34.15	<1,000	<10	<10	<10	<10	700	3.80	6.4
	08/12/2004	P		58.96	29.00	49.00	27.72	31.24	<2,500	<25	<25	<25	<25	400	3.40	6.5
	11/10/2004	P		58.96	29.00	49.00	28.41	30.55	<500	<5.0	<5.0	<5.0	<5.0	480	3.40	6.3
	02/03/2005	P		58.96	29.00	49.00	24.01	34.95	<50	<0.50	<0.50	<0.50	<0.50	45	1.43	6.4
	05/09/2005	P	i	58.96	29.00	49.00	21.07	37.89	640	<5.0	<5.0	<5.0	<5.0	440	1.06	6.4
	08/11/2005	**P**		**58.96**	**29.00**	**49.00**	**24.32**	**34.64**	**<500**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**420**	**5.0**	**6.1**
RW-1	12/17/2000	--		56.32	36.00	51.00	29.57	26.75	---	---	---	---	---	--	---	---
	12/28/2001	--		56.32	36.00	51.00	27.64	28.68	---	---	---	---	---	--	---	---
	11/27/2002	--		56.32	36.00	51.00	29.93	26.39	---	---	---	---	---	--	---	---
	7/22/2003	--		56.32	36.00	51.00	28.09	28.23	---	---	---	---	---	--	---	---

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0276
10600 Macarthur Blvd., 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	11/07/2003	P		56.32	36.00	51.00	30.64	25.68	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.10	7.0
	02/03/2004	P		56.32	36.00	51.00	27.28	29.04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	6.70	7.1
	05/04/2004	P	g	61.65	36.00	51.00	27.16	34.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.40	6.8
	08/12/2004	P		61.65	36.00	51.00	30.10	31.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.20	7.1
	11/10/2004	P		61.65	36.00	51.00	30.79	30.86	<100	<0.50	<0.50	<0.50	<0.50	<0.50	5.70	6.9
	02/03/2005	P		61.65	36.00	51.00	26.61	35.04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.57	7.1
	05/09/2005	--		61.65	36.00	51.00	23.51	38.14	--	--	--	--	--	--	--	--
	08/11/2005	**--**		**61.65**	**36.00**	**51.00**	**26.60**	**35.05**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
WGR-3	12/17/2000	--		---	--	--	19.21	---	---	---	---	---	---	--	---	---
	12/28/2001	--	h	---	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/2002	--		---	--	--	20.60	---	---	---	---	---	---	--	---	---
	7/22/2003	--		---	--	--	20.77	---	---	---	---	---	---	--	---	---
	05/04/2004	P	g	63.27	--	--	19.53	43.74	<50	<0.50	<0.50	<0.50	<0.50	11	1.80	6.5
	08/12/2004	P		63.27	--	--	22.20	41.07	<50	<0.50	<0.50	<0.50	<0.50	35	2.0	--
	11/10/2004	P		63.27	--	--	19.98	43.29	<50	<0.50	<0.50	<0.50	<0.50	5.6	0.30	6.3
	02/03/2005	P		63.27	--	--	16.91	46.36	<50	<0.50	<0.50	<0.50	<0.50	1.1	2.04	6.5
	05/09/2005	--		63.27	--	--	17.29	45.98	--	--	--	--	--	--	--	--
	08/11/2005	**--**		**63.27**	**--**	**--**	**20.88**	**42.39**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0276
10600 Macarthur Blvd., Oakland, CA

SYMBOLS & ABBREVIATIONS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline Range Organics, range C4-C12
GWE = Groundwater elevation measured in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Not Purged prior to sampling
P = Purged prior to sampling
TOC = Top of casing measured in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
ug/L = Micrograms per liter

FOOTNOTES:
a = 1,1 DCE; this footnote is no longer applicable
b = 1,2 DCA; this footnote is no longer applicable
c = Chlorobenzene; this footnote is no longer applicable
d = sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. Results may still be used for intended purpose.
e = The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits
f = Discrete peak @ C5 for GRO/TPH-g.
g = Site was re-surveyed to NAVD' 88 on January 26, 2004.
h = Well is dry.
i = Hydrocarbon result for GRO partly due to individual peak(s) in quantification range.
NOTES:
Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g has been changed to GRO. The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

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

Groundwater samples were analyzed by EPA method 8015B for GRO and EPA method 8260B for BTEX, fuel oxygenates, ethanol, and PCE.

pH and DO levels are field measurements.

Table 2

Fuel Additives Analytical Data

ARCO Service Station #0276
10600 Macarthur Blvd., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	trans-1,2 DCE (µg/L)	cis-1,2 DCE (µg/L)	VOC (µg/L)	Oxygen (µg/L)	PCE (µg/L)	TCE (µg/L)	Footnotes/ Comments
MW-1	12/17/2000	---	---	--	---	---	---	---	---	--	--	--	--	5.09	--	
	12/28/2001	---	---	--	---	---	---	---	---	--	--	--	--	8.8	--	
	11/27/2002	---	---	--	---	---	---	---	---	--	--	--	--	4.2	--	
	7/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	6.0	--	
	11/07/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	3.0	--	
	02/03/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	--	--	--	--	21	--	
	05/04/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	34	--	
	08/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	4.5	--	
	11/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	4.9	--	
	02/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	58	--	e
MW-2	11/07/2003	<1,000	<200	110	<5.0	<5.0	28	--	--	--	--	--	--	<5.0	--	
	02/03/2004	<500	<100	55	<5.0	<5.0	16	<2.5	<2.5	--	--	--	--	<2.5	--	
	05/04/2004	<500	<100	70	<2.5	<2.5	15	<2.5	<2.5	--	--	--	--	<2.5	--	
	08/12/2004	<500	<100	49	<2.5	<2.5	14	<2.5	<2.5	--	--	--	--	<0.50	--	
	11/10/2004	<200	<40	90	<1.0	<1.0	19	<1.0	<1.0	--	--	--	--	<1.0	--	
	02/03/2005	<100	<20	37	<0.50	<0.50	13	<0.50	<0.50	--	--	--	--	<0.50	--	e
	05/09/2005	<100	<20	56	<0.50	<0.50	17	<0.50	<0.50	--	--	--	--	<0.50	--	e
	08/11/2005	**<100**	**<20**	**50**	**<0.50**	**<0.50**	**8.5**	**<0.50**	**<0.50**	**--**	**--**	**--**	**--**	**<0.50**	**--**	
MW-3	12/17/2000	---	---	--	---	---	---	---	---	--	--	--	--	158	--	
	12/28/2001	---	---	--	---	---	---	---	---	1.5	13	--	--	310	20	
	11/27/2002	---	---	--	---	---	---	---	---	--	--	--	--	110	--	
	7/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	80	--	
	11/07/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	80	--	
	02/03/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	--	--	--	--	110	--	
	05/04/2004	<200	<40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	110	--	
	08/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	61	--	
	11/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	99	--	
	02/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	160	--	e
MW-4	12/17/2000	---	---	--	---	---	---	---	---	--	--	--	--	225	--	
	12/28/2001	---	---	--	---	---	---	---	---	--	--	--	--	160	1.2	
	11/27/2002	---	---	--	---	---	---	---	---	--	--	--	--	95	--	
	7/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	94	--	
	11/07/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	68	--	

Table 2

Fuel Additives Analytical Data

ARCO Service Station #0276
10600 Macarthur Blvd., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	trans-1,2 DCE (µg/L)	cis-1,2 DCE (µg/L)	VOC (µg/L)	Oxygen (µg/L)	PCE (µg/L)	TCE (µg/L)	Footnotes/ Comments
MW-4	02/03/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	--	--	--	--	83	--	
	05/04/2004	<200	<40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	81	--	
	08/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	59	--	
	11/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	78	--	
	02/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	61	--	e
MW-5	12/17/2000	---	---	--	---	---	---	---	---	--	--	--	--	1,040	--	
	12/28/2001	---	---	--	---	---	---	---	---	36	140	1.9, 3.2, 2.0	--	3,200	190	a,b,c
	11/27/2002	---	---	--	---	---	---	---	---	--	--	--	--	110	--	
	7/22/2003	<200	<40	110	1.4	<1.0	3.2	12	<1.0	--	--	--	--	55	--	
	11/07/2003	<500	<100	120	<2.5	<2.5	6.6	--	--	--	--	--	--	42	--	
	02/03/2004	<500	<100	71	<5.0	<5.0	<5.0	12	<2.5	--	--	--	--	130	--	
	05/04/2004	<500	<100	150	<2.5	<2.5	5.9	8.8	<2.5	--	--	--	--	36	--	
	08/12/2004	<500	<100	140	<2.5	<2.5	10	10	<2.5	--	--	--	--	37	--	
	11/10/2004	<200	<40	150	1.1	<1.0	9.5	9.8	<1.0	--	--	--	--	50	--	
	02/03/2005	<100	<20	16	<0.50	<0.50	0.54	2.7	<0.50	--	--	--	--	480	--	e
	05/09/2005	<500	<100	140	<2.5	<2.5	9.2	10	<2.5	--	--	--	--	78	--	e
	08/11/2005	**<500**	**<100**	**160**	**<2.5**	**<2.5**	**10**	**9.6**	**<2.5**	**--**	**--**	**--**	**--**	**27**	**--**	
MW-6	11/07/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	560	--	
	02/03/2004	<500	<100	<2.5	<5.0	<5.0	<5.0	<2.5	<2.5	--	--	--	--	220	--	
	05/04/2004	<500	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--	--	210	--	
	08/12/2004	<100	<20	0.81	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	750	--	
	11/10/2004	<100	<20	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	530	--	
	02/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	85	--	e
	08/11/2005	**<100**	**<20**	**0.77**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**--**	**--**	**--**	**--**	**610**	**--**	
MW-7	11/07/2003	<500	<100	53	<2.5	<2.5	13	--	--	--	--	--	--	<2.5	--	
	02/03/2004	<100	<20	32	<1.0	<1.0	7.4	<0.50	<0.50	--	--	--	--	0.74	--	
	02/03/2005	<100	<20	14	<0.50	<0.50	3.9	<0.50	<0.50	--	--	--	--	1.6	--	e
	08/11/2005	**<200**	**<40**	**21**	**<1.0**	**<1.0**	**4.7**	**<1.0**	**<1.0**	**--**	**--**	**--**	**--**	**1.0**	**--**	e
MW-8	11/07/2003	<1,000	<200	440	<5.0	<5.0	18	--	--	--	--	--	--	<5.0	--	
	02/03/2004	<2,500	<500	470	<25	<25	<25	<12	<12	--	--	--	--	<12	--	
	05/04/2004	<2,000	<400	700	<10	<10	21	<10	<10	--	--	--	--	12	--	
	08/12/2004	<5,000	<1,000	400	<25	<25	<25	<25	<25	--	--	--	--	1.1	--	

Table 2

Fuel Additives Analytical Data

ARCO Service Station #0276
10600 Macarthur Blvd., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	trans-1,2 DCE (µg/L)	cis-1,2 DCE (µg/L)	VOC (µg/L)	Oxygen (µg/L)	PCE (µg/L)	TCE (µg/L)	Footnotes/ Comments
MW-8	11/10/2004	<1,000	<200	480	<5.0	<5.0	21	<5.0	<5.0	--	--	--	--	8.9	--	
	02/03/2005	<100	<20	45	<0.50	<0.50	1.9	<0.50	<0.50	--	--	--	--	0.59	--	e
	05/09/2005	<1,000	<200	440	<5.0	<5.0	21	<5.0	<5.0	--	--	--	--	<5.0	--	e
	08/11/2005	**<1,000**	**<200**	**420**	**<5.0**	**<5.0**	**24**	**<5.0**	**<5.0**	**--**	**--**	**--**	**--**	**<0.50**	**--**	e
RW-1	11/07/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	3.1	--	
	02/03/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	--	--	--	--	0.76	--	
	05/04/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	1.8	--	
	08/12/2004	330/<100 d	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	2.9	--	d
	11/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	5.2	--	
	02/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	1.7	--	e
WGR-3	05/04/2004	<100	<20	11	<0.50	<0.50	2.4	<0.50	<0.50	--	--	--	--	<0.50	--	
	08/12/2004	<100	<20	35	<0.50	<0.50	7.5	<0.50	<0.50	--	--	--	--	<0.50	--	
	11/10/2004	<100	<20	5.6	<0.50	<0.50	1.3	<0.50	<0.50	--	--	--	--	<0.50	--	
	02/03/2005	<100	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	<0.50	--	e

Table 2

Fuel Additives Analytical Data

ARCO Service Station #0276
10600 Macarthur Blvd., Oakland, CA

SYMBOLS & ABBREVIATIONS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above the laboratory reporting limit.
1,2-DCA = 1,2-Dichloroethane
cis-1,2-DCE = cis-1,2-Dichloroethene
DIPE = Di-isopropyl ether
EDB = 1,2-Dibromoethane
ETBE = Ethyl tert-butyl ether
MTBE = Methyl tert-butyl ether
PCE = Tetrachloroethene
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
TCE = Trichloroethene
trans-1,2-DCE = trans 1,2-Dichloroethene
VOC = Volatile Organic Compounds
ug/L = Micrograms per Liter

FOOTNOTES:
a = VOC 1,1 DCE detected at a concentration of 1.9 ug/L.
b = VOC 1,2 DCA detected at a concentration of 3.2 ug/L.
c = VOC Chlorobenzene detected at a concentration of 2.0 ug/L.
d = Ethanol was re-analyzed two days out of holding time and was not detected above a laboratory reporting limit of 100 ug/L.
e = Calibration verification for ethanol is within method limits but outside contract limits.

NOTES:
Tetrachloroethene was analyzed using EPA Method 8260B. Samples were analyzed by EPA method 8015B for GRO and EPA method 8260B for BTEX, fuel oxygenates, ethanol, and PCE.

Table 3

Groundwater Gradient Data

ARCO Service Station #0276
10600 Macarthur Blvd., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
12/17/2000	South-Southeast	0.003
12/28/2001	Southeast	0.002
11/27/2002	South-Southeast	0.003
7/22/2003	South	0.007
11/7/2003	Southwest	0.002
2/3/2004	South-Southwest	0.002
5/4/2004	South-Southwest	0.003
8/12/2004	South	0.004
11/10/2004	Southwest	0.004
2/3/2005	Southwest	0.003
5/9/2005	South-Southwest	0.004
8/11/2005	**South-Southwest**	**0.007**

Source : The data within this table collected prior to November 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 # 050811-BA2 Date 8/11/05 Client # 276

Site 10600 MacArthur Blvd, 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 TOC	
MW-1	2					26.11	38.83	TOC	60
MW-2	4					15.97	25.30		
MW-3	2					26.84	38.55		60
MW-4	2					26.23	47.66		60
MW-5	4					26.05	46.85		
MW-6	2	~~Unable to Access Well - Bolts stuck~~				31.40	48.40		
MW-7	2					21.47	36.79		
MW-8	4					24.32	47.80		
RW-1	6	~~Unable to Access Cap Stuck~~				26.60	48.80		60
WGR-3	4					20.88	26.98		60

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-BA2	Station # 276
Sampler: Brian Alcom	Date: 8/11/05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 25.30	Depth to Water: 15.97
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / (Electric Submersible) / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

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

6.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 18.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1458	69.3	6.2	477	6.5	clear
1459	68.4	6.2	467	13.0	"
1500	68.1	6.3	459	19.5	"

Did well dewater? Yes (No)	Gallons actually evacuated: 19.5
Sampling Time: 1505	Sampling Date: 8/11/05
Sample I.D.: MW-2	Laboratory: Pace (Sequoia) Other _____
Analyzed for: (GRO) (BTEX) MTBE DRO	Other: Oxys, 12-DCA, EDB, Ethanol, PCE(8010)

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.0 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-BA2	Station # 276
Sampler: Brian Alcom	Date: 8/11/05
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 46.85	Depth to Water: 26.05
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / (Electric Submersible) / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

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

13.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 40.5 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1433	68.4	6.2	856	13.5	clear
1435	67.3	6.2	863	27.0	"
1438	67.2	6.3	887	40.5	"

Did well dewater? Yes (No)	Gallons actually evacuated: 40.5
Sampling Time: 1440	Sampling Date: 8/11/05
Sample I.D.: MW-5	Laboratory: Pace (Sequoia) Other _____
Analyzed for: GRO BTEX MTBE DRO	Other: See MW-2

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.6 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-BAZ	Station # 276
Sampler: Brian Alcom	Date: 8/11/05
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 48.40	Depth to Water: 31.40
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Purge Method: Bailer / (Disposable Bailer) / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

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

2.75 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 8.25 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1613	69.8	6.2	1,500	2.75	gray
1620	69.5	6.2	1,501	5.5	"
1628	71.5	6.3	1,500	8.25	"

Did well dewater? Yes (No)	Gallons actually evacuated: 8.25
Sampling Time: 1630	Sampling Date: 8/11/05
Sample I.D.: MW-6	Laboratory: Pace (Sequoia) Other _____
Analyzed for: GRO BTEX MTBE DRO	Other: See MW-2

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	1.9 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-BAZ	Station # 276
Sampler: Brian Aiken	Date: 8/11/05
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 36.79	Depth to Water: 21.47
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Purge Method: Bailer / (Disposable Bailer) / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

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

2.5 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 7.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1354	68.2	6.5	546	2.5	clear, odor
1401	67.3	6.5	543	5.0	" "
1406	69.3	6.3	535	7.5	" "

Did well dewater? Yes (No)	Gallons actually evacuated: 7.5
Sampling Time: 1410	Sampling Date: 8/11/05
Sample I.D.: MW-7	Laboratory: Pace (Sequoia) Other _____
Analyzed for: GRO BTEX MTBE DRO	Other: See MW-2

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	2.0 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-BA2	Station # 2760
Sampler: Brian Alcorn	Date: 8/11/05
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 47.80	Depth to Water: 24.32
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / (Electric Submersible) / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

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

15.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 47.7 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1528	70.7	6.1	690	16.0	cloudy gray
1531	69.9	6.1	679	32.0	"
1535	69.9	6.1	685	48.0	"

Did well dewater? Yes (No)	Gallons actually evacuated: 48
Sampling Time: 1540	Sampling Date: 8/11/05
Sample I.D.: MW-8	Laboratory: Pace (Sequoia) Other _____
Analyzed for: GRO BTEX MTBE DRO	Other: See MW-2

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	5.0 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:

276

Station #

10600 MacArthur Blvd, Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

added equip. rinse water _____

any other adjustments _____

TOTAL GALS. RECOVERED 125

loaded onto BTS vehicle # 64

BTS event # 050811-BA2

time 1700

date 8/11/05

signature

* *

REC'D AT _____

time _____

date ___/___/___

unloaded by signature _____

ATTACHMENT B

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

LABORATORY PROCEDURES

Laboratory Procedures

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

Sequoia
Analytical

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6 September, 2005

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

RE: ARCO #0276, Oakland, CA
Work Order: MOH0682

Enclosed are the results of analyses for samples received by the laboratory on 08/12/05 15:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race For Jamshid Kekobad
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0276, Oakland, CA Project Number:G0C20-0004 Project Manager:Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	MOH0682-01	Water	08/11/05 15:05	08/12/05 15:05
MW-5	MOH0682-02	Water	08/11/05 14:40	08/12/05 15:05
MW-6	MOH0682-03	Water	08/11/05 16:30	08/12/05 15:05
MW-7	MOH0682-04	Water	08/11/05 14:10	08/12/05 15:05
MW-8	MOH0682-05	Water	08/11/05 15:40	08/12/05 15:05
TB-276-08112005	MOH0682-06	Water	08/11/05 12:00	08/12/05 15:05

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.

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.

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0276, Oakland, CA Project Number:G0C20-0004 Project Manager:Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MOH0682-01) Water Sampled: 08/11/05 15:05 Received: 08/12/05 15:05									
tert-Amyl methyl ether	**8.5**	0.50	ug/l	1	5H22016	08/22/05	08/23/05	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	**50**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**320**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*60-135*		"	"	"	"	
MW-5 (MOH0682-02) Water Sampled: 08/11/05 14:40 Received: 08/12/05 15:05									
tert-Amyl methyl ether	**10**	2.5	ug/l	5	5H25008	08/25/05	08/25/05	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	**9.6**	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	**160**	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*80 %*	*60-135*		"	"	"	"	

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URS Corporation [Arco]	Project:ARCO #0276, Oakland, CA	MOH0682
1333 Broadway, Suite 800	Project Number:G0C20-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	09/06/05 17:29

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (MOH0682-03) Water Sampled: 08/11/05 16:30 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H22016	08/22/05	08/23/05	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	**0.77**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**630**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97 %*	*60-135*		"	"	"	"	
MW-7 (MOH0682-04) Water Sampled: 08/11/05 14:10 Received: 08/12/05 15:05									
tert-Amyl methyl ether	**4.7**	1.0	ug/l	2	5H23034	08/23/05	08/24/05	EPA 8260B	
Benzene	**1.8**	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	200	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	**4.2**	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**21**	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	**1.2**	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**1500**	100	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*60-135*		"	"	"	"	

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #0276, Oakland, CA Project Number: G0C20-0004 Project Manager: Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MOH0682-05) Water Sampled: 08/11/05 15:40 Received: 08/12/05 15:05									
tert-Amyl methyl ether	**24**	5.0	ug/l	10	5H23034	08/23/05	08/24/05	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**420**	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*60-135*		"	"	"	"	

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EPA 8010 list Volatile Organic Compounds by EPA 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MOH0682-01) Water Sampled: 08/11/05 15:05 Received: 08/12/05 15:05									
Tetrachloroethene	ND	0.50	ug/l	1	5H22016	08/22/05	08/23/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*91 %*	*65-130*		"	"	"	"	
Surrogate: Toluene-d8		*96 %*	*70-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*	*70-120*		"	"	"	"	
MW-5 (MOH0682-02) Water Sampled: 08/11/05 14:40 Received: 08/12/05 15:05									
Tetrachloroethene	**27**	0.50	ug/l	1	5H22016	08/22/05	08/23/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*94 %*	*65-130*		"	"	"	"	
Surrogate: Toluene-d8		*86 %*	*70-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85 %*	*70-120*		"	"	"	"	
MW-6 (MOH0682-03) Water Sampled: 08/11/05 16:30 Received: 08/12/05 15:05									
Tetrachloroethene	**610**	5.0	ug/l	10	5H25002	08/25/05	08/25/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*95 %*	*65-130*		"	"	"	"	
Surrogate: Toluene-d8		*86 %*	*70-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*78 %*	*70-120*		"	"	"	"	
MW-7 (MOH0682-04) Water Sampled: 08/11/05 14:10 Received: 08/12/05 15:05									
Tetrachloroethene	**1.0**	0.50	ug/l	1	5H22016	08/22/05	08/23/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*92 %*	*65-130*		"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*70-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*117 %*	*70-120*		"	"	"	"	
MW-8 (MOH0682-05) Water Sampled: 08/11/05 15:40 Received: 08/12/05 15:05									
Tetrachloroethene	ND	0.50	ug/l	1	5H22016	08/22/05	08/23/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*90 %*	*65-130*		"	"	"	"	
Surrogate: Toluene-d8		*89 %*	*70-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88 %*	*70-120*		"	"	"	"	

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0276, Oakland, CA Project Number:G0C20-0004 Project Manager:Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5H22016 - EPA 5030B P/T / EPA 8260B										
Blank (5H22016-BLK1)				Prepared & Analyzed: 08/22/05						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	6.07	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	*2.32*		"	*2.50*		*93*	*60-135*			
Blank (5H22016-BLK2)				Prepared & Analyzed: 08/22/05						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*2.39*		"	*2.50*		*96*	*60-135*			

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0276, Oakland, CA Project Number:G0C20-0004 Project Manager:Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5H22016 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (5H22016-BS2)				Prepared & Analyzed: 08/22/05						
tert-Amyl methyl ether	16.7	0.50	ug/l	15.0		111	80-115			
Benzene	4.95	0.50	"	5.16		96	65-115			
tert-Butyl alcohol	154	20	"	143		108	75-150			
Di-isopropyl ether	15.0	0.50	"	15.1		99	75-125			
1,2-Dibromoethane (EDB)	17.3	0.50	"	14.8		117	85-120			
1,2-Dichloroethane	15.5	0.50	"	14.7		105	85-130			
Ethanol	173	100	"	141		123	70-135			
Ethyl tert-butyl ether	16.5	0.50	"	15.0		110	75-130			
Ethylbenzene	7.32	0.50	"	7.54		97	75-135			
Methyl tert-butyl ether	8.15	0.50	"	7.02		116	65-125			
Toluene	33.9	0.50	"	37.2		91	85-120			
Xylenes (total)	41.3	0.50	"	41.4		100	85-125			
Gasoline Range Organics (C4-C12)	483	50	"	440		110	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.24*		"	*2.50*		*90*	*60-135*			
Matrix Spike (5H22016-MS1)	**Source: MOH0674-05**			Prepared & Analyzed: 08/22/05						
tert-Amyl methyl ether	181	5.0	ug/l	150	ND	121	80-115			LM
Benzene	56.3	5.0	"	51.6	ND	109	65-115			
tert-Butyl alcohol	1650	200	"	1430	ND	115	75-120			
Di-isopropyl ether	168	5.0	"	151	ND	111	75-125			
1,2-Dibromoethane (EDB)	188	5.0	"	148	ND	127	85-120			LM
1,2-Dichloroethane	175	5.0	"	147	ND	119	85-130			
Ethanol	1820	1000	"	1410	ND	129	70-135			
Ethyl tert-butyl ether	178	5.0	"	150	ND	119	75-130			
Ethylbenzene	82.3	5.0	"	75.4	ND	109	75-135			
Methyl tert-butyl ether	71.2	5.0	"	70.2	ND	101	65-125			
Toluene	380	5.0	"	372	ND	102	85-120			
Xylenes (total)	474	5.0	"	414	ND	114	85-125			
Gasoline Range Organics (C4-C12)	5940	500	"	4400	570	122	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.34*		"	*2.50*		*94*	*60-135*			

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URS Corporation [Arco]	Project:ARCO #0276, Oakland, CA	MOH0682
1333 Broadway, Suite 800	Project Number:G0C20-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	09/06/05 17:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5H22016 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (5H22016-MSD1)	**Source: MOH0674-05**			Prepared: 08/22/05 Analyzed: 08/23/05						
tert-Amyl methyl ether	180	5.0	ug/l	150	ND	120	80-115	0.6	15	LM
Benzene	54.8	5.0	"	51.6	ND	106	65-115	3	20	
tert-Butyl alcohol	1700	200	"	1430	ND	119	75-120	3	25	
Di-isopropyl ether	165	5.0	"	151	ND	109	75-125	2	15	
1,2-Dibromoethane (EDB)	186	5.0	"	148	ND	126	85-120	1	15	LM
1,2-Dichloroethane	172	5.0	"	147	ND	117	85-130	2	20	
Ethanol	1840	1000	"	1410	ND	130	70-135	1	35	
Ethyl tert-butyl ether	178	5.0	"	150	ND	119	75-130	0	25	
Ethylbenzene	80.0	5.0	"	75.4	ND	106	75-135	3	15	
Methyl tert-butyl ether	72.0	5.0	"	70.2	ND	103	65-125	1	20	
Toluene	369	5.0	"	372	ND	99	85-120	3	20	
Xylenes (total)	454	5.0	"	414	ND	110	85-125	4	20	
Gasoline Range Organics (C4-C12)	5740	500	"	4400	570	118	70-124	3	20	
Surrogate: 1,2-Dichloroethane-d4	*2.36*		*"*	*2.50*		*94*	*60-135*			
Batch 5H23034 - EPA 5030B Modified / EPA 8260B										
Blank (5H23034-BLK1)				Prepared & Analyzed: 08/23/05						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							IC
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*2.55*		*"*	*2.50*		*102*	*60-135*			

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0276, Oakland, CA Project Number:G0C20-0004 Project Manager:Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5H23034 - EPA 5030B Modified / EPA 8260B										
Laboratory Control Sample (5H23034-BS1)				Prepared: 08/23/05		Analyzed: 08/24/05				
tert-Amyl methyl ether	15.9	0.50	ug/l	15.0		106	80-115			
Benzene	5.20	0.50	"	5.16		101	65-115			
tert-Butyl alcohol	178	20	"	143		124	75-150			
Di-isopropyl ether	16.1	0.50	"	15.1		107	75-125			
1,2-Dibromoethane (EDB)	17.3	0.50	"	14.8		117	85-120			
1,2-Dichloroethane	17.3	0.50	"	14.7		118	85-130			
Ethanol	213	100	"	141		151	70-135			HL, IC
Ethyl tert-butyl ether	15.7	0.50	"	15.0		105	75-130			
Ethylbenzene	7.09	0.50	"	7.54		94	75-135			
Methyl tert-butyl ether	7.03	0.50	"	7.02		100	65-125			
Toluene	37.4	0.50	"	37.2		101	85-120			
Xylenes (total)	41.5	0.50	"	41.4		100	85-125			
Gasoline Range Organics (C4-C12)	459	50	"	440		104	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.72*		*"*	*2.50*		*109*	*60-135*			
Matrix Spike (5H23034-MS1)	**Source: MOH0683-01**			Prepared: 08/23/05		Analyzed: 08/24/05				
tert-Amyl methyl ether	90.6	2.5	ug/l	75.2	2.6	117	80-115			LM
Benzene	27.0	2.5	"	25.8	ND	105	65-115			
tert-Butyl alcohol	1100	100	"	715	250	119	75-120			
Di-isopropyl ether	85.6	2.5	"	75.7	ND	113	75-125			
1,2-Dibromoethane (EDB)	92.8	2.5	"	74.2	ND	125	85-120			LM
1,2-Dichloroethane	92.1	2.5	"	73.6	ND	125	85-130			
Ethanol	1760	500	"	707	ND	249	70-135			HL, IC
Ethyl tert-butyl ether	86.0	2.5	"	75.1	ND	115	75-130			
Ethylbenzene	37.2	2.5	"	37.7	2.3	93	75-135			
Methyl tert-butyl ether	529	2.5	"	35.1	390	396	65-125			BB,LM
Toluene	194	2.5	"	186	ND	104	85-120			
Xylenes (total)	218	2.5	"	207	4.0	103	85-125			
Gasoline Range Organics (C4-C12)	2750	250	"	2200	540	100	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.79*		*"*	*2.50*		*112*	*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
Batch 5H23034 - EPA 5030B Modified / EPA 8260B										
Matrix Spike Dup (5H23034-MSD1)	**Source: MOH0683-01**			Prepared: 08/23/05 Analyzed: 08/24/05						
tert-Amyl methyl ether	87.3	2.5	ug/l	75.2	2.6	113	80-115	4	15	
Benzene	27.8	2.5	"	25.8	ND	108	65-115	3	20	
tert-Butyl alcohol	1230	100	"	715	250	137	75-120	11	25	LM
Di-isopropyl ether	86.0	2.5	"	75.7	ND	114	75-125	0.5	15	
1,2-Dibromoethane (EDB)	90.6	2.5	"	74.2	ND	122	85-120	2	15	LM
1,2-Dichloroethane	89.1	2.5	"	73.6	ND	121	85-130	3	20	
Ethanol	1880	500	"	707	ND	266	70-135	7	35	HL, IC
Ethyl tert-butyl ether	83.4	2.5	"	75.1	ND	111	75-130	3	25	
Ethylbenzene	37.8	2.5	"	37.7	2.3	94	75-135	2	15	
Methyl tert-butyl ether	503	2.5	"	35.1	390	322	65-125	5	20	BB,LM
Toluene	196	2.5	"	186	ND	105	85-120	1	20	
Xylenes (total)	220	2.5	"	207	4.0	104	85-125	0.9	20	
Gasoline Range Organics (C4-C12)	2750	250	"	2200	540	100	70-124	0	20	
Surrogate: 1,2-Dichloroethane-d4	*2.72*		*"*	*2.50*		*109*	*60-135*			
Batch 5H25008 - EPA 5030B P/T / EPA 8260B										
Blank (5H25008-BLK1)				Prepared & Analyzed: 08/25/05						
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	*2.04*		*"*	*2.50*		*82*	*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
Batch 5H25008 - EPA 5030B P/T / EPA 8260B										
Blank (5H25008-BLK2)				Prepared & Analyzed: 08/25/05						
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	*2.01*		"	*2.50*		*80*	*60-135*			
Laboratory Control Sample (5H25008-BS1)				Prepared & Analyzed: 08/25/05						
tert-Amyl methyl ether	8.20	0.50	ug/l	7.52		109	80-115			
Benzene	2.77	0.50	"	2.58		107	65-115			
tert-Butyl alcohol	70.1	20	"	71.5		98	75-150			
Di-isopropyl ether	8.23	0.50	"	7.57		109	75-125			
1,2-Dibromoethane (EDB)	8.78	0.50	"	7.42		118	85-120			
1,2-Dichloroethane	8.26	0.50	"	7.36		112	85-130			
Ethanol	70.2	100	"	70.7		99	70-135			
Ethyl tert-butyl ether	8.21	0.50	"	7.51		109	75-130			
Ethylbenzene	4.06	0.50	"	3.77		108	75-135			
Methyl tert-butyl ether	3.85	0.50	"	3.51		110	65-125			
Toluene	19.5	0.50	"	18.6		105	85-120			
Xylenes (total)	22.6	0.50	"	20.7		109	85-125			
Gasoline Range Organics (C4-C12)	261	50	"	220		119	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.10*		"	*2.50*		*84*	*60-135*			

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0276, Oakland, CA Project Number:G0C20-0004 Project Manager:Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5H25008 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (5H25008-BS2)				Prepared & Analyzed: 08/25/05						
tert-Amyl methyl ether	8.04	0.50	ug/l	7.52		107	80-115			
Benzene	2.68	0.50	"	2.58		104	65-115			
tert-Butyl alcohol	74.1	20	"	71.5		104	75-150			
Di-isopropyl ether	7.86	0.50	"	7.57		104	75-125			
1,2-Dibromoethane (EDB)	8.55	0.50	"	7.42		115	85-120			
1,2-Dichloroethane	7.84	0.50	"	7.36		107	85-130			
Ethanol	102	100	"	70.7		144	70-135			HL
Ethyl tert-butyl ether	8.02	0.50	"	7.51		107	75-130			
Ethylbenzene	3.83	0.50	"	3.77		102	75-135			
Methyl tert-butyl ether	3.76	0.50	"	3.51		107	65-125			
Toluene	19.0	0.50	"	18.6		102	85-120			
Xylenes (total)	22.6	0.50	"	20.7		109	85-125			
Gasoline Range Organics (C4-C12)	247	50	"	220		112	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.06*		*"*	*2.50*		*82*	*60-135*			
Matrix Spike (5H25008-MS1)	**Source: MOH0687-02**			Prepared & Analyzed: 08/25/05						
tert-Amyl methyl ether	84.7	5.0	ug/l	75.2	ND	113	80-115			
Benzene	34.7	5.0	"	25.8	16	72	65-115			
tert-Butyl alcohol	761	200	"	715	ND	106	75-120			
Di-isopropyl ether	81.0	5.0	"	75.7	ND	107	75-125			
1,2-Dibromoethane (EDB)	90.1	5.0	"	74.2	ND	121	85-120			LM
1,2-Dichloroethane	82.3	5.0	"	73.6	ND	112	85-130			
Ethanol	1280	1000	"	707	ND	181	70-135			HL
Ethyl tert-butyl ether	84.7	5.0	"	75.1	ND	113	75-130			
Ethylbenzene	198	5.0	"	37.7	170	74	75-135			LN
Methyl tert-butyl ether	65.7	5.0	"	35.1	27	110	65-125			
Toluene	201	5.0	"	186	7.9	104	85-120			
Xylenes (total)	234	5.0	"	207	14	106	85-125			
Gasoline Range Organics (C4-C12)	6380	500	"	2200	4100	104	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.12*		*"*	*2.50*		*85*	*60-135*			

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0276, Oakland, CA Project Number:G0C20-0004 Project Manager:Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5H25008 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (5H25008-MSD1)	**Source: MOH0687-02**			Prepared & Analyzed: 08/25/05						
tert-Amyl methyl ether	85.3	5.0	ug/l	75.2	ND	113	80-115	0.7	15	
Benzene	34.7	5.0	"	25.8	16	72	65-115	0	20	
tert-Butyl alcohol	785	200	"	715	ND	110	75-120	3	25	
Di-isopropyl ether	82.6	5.0	"	75.7	ND	109	75-125	2	15	
1,2-Dibromoethane (EDB)	87.8	5.0	"	74.2	ND	118	85-120	3	15	
1,2-Dichloroethane	83.7	5.0	"	73.6	ND	114	85-130	2	20	
Ethanol	1250	1000	"	707	ND	177	70-135	2	35	HL
Ethyl tert-butyl ether	84.4	5.0	"	75.1	ND	112	75-130	0.4	25	
Ethylbenzene	199	5.0	"	37.7	170	77	75-135	0.5	15	
Methyl tert-butyl ether	65.3	5.0	"	35.1	27	109	65-125	0.6	20	
Toluene	205	5.0	"	186	7.9	106	85-120	2	20	
Xylenes (total)	235	5.0	"	207	14	107	85-125	0.4	20	
Gasoline Range Organics (C4-C12)	6450	500	"	2200	4100	107	70-124	1	20	
Surrogate: 1,2-Dichloroethane-d4	*2.14*		*"*	*2.50*		*86*	*60-135*			

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.

Sequoia Analytical

1885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0276, Oakland, CA Project Number:G0C20-0004 Project Manager:Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

EPA 8010 list Volatile Organic Compounds by EPA 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5H22016 - EPA 5030B P/T / EPA 8260B										
Blank (5H22016-BLK1)				Prepared & Analyzed: 08/22/05						
Tetrachloroethene	ND	0.50	ug/l							
Surrogate: Dibromofluoromethane	*2.35*		"	*2.50*		*94*	*65-130*			
Surrogate: Toluene-d8	*2.18*		"	*2.50*		*87*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.13*		"	*2.50*		*85*	*70-120*			
Blank (5H22016-BLK2)				Prepared & Analyzed: 08/22/05						
Tetrachloroethene	ND	0.50	ug/l							
Surrogate: Dibromofluoromethane	*2.34*		"	*2.50*		*94*	*65-130*			
Surrogate: Toluene-d8	*2.19*		"	*2.50*		*88*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.06*		"	*2.50*		*82*	*70-120*			
Laboratory Control Sample (5H22016-BS1)				Prepared & Analyzed: 08/22/05						
Tetrachloroethene	11.4	0.50	ug/l	10.0		114	85-125			
Surrogate: Dibromofluoromethane	*2.28*		"	*2.50*		*91*	*65-130*			
Surrogate: Toluene-d8	*2.31*		"	*2.50*		*92*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.34*		"	*2.50*		*94*	*70-120*			
Laboratory Control Sample (5H22016-BS2)				Prepared & Analyzed: 08/22/05						
Surrogate: Dibromofluoromethane	*2.27*		*ug/l*	*2.50*		*91*	*65-130*			
Surrogate: Toluene-d8	*2.27*		"	*2.50*		*91*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.35*		"	*2.50*		*94*	*70-120*			
Laboratory Control Sample Dup (5H22016-BSD1)				Prepared & Analyzed: 08/22/05						
Tetrachloroethene	11.6	0.50	ug/l	10.0		116	85-125	2	15	
Surrogate: Dibromofluoromethane	*2.34*		"	*2.50*		*94*	*65-130*			
Surrogate: Toluene-d8	*2.24*		"	*2.50*		*90*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.25*		"	*2.50*		*90*	*70-120*			

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0276, Oakland, CA Project Number:G0C20-0004 Project Manager:Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

EPA 8010 list Volatile Organic Compounds by EPA 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5H25002 - EPA 5030B P/T / EPA 8260B										
Blank (5H25002-BLK1)				Prepared & Analyzed: 08/25/05						
Tetrachloroethene	ND	0.50	ug/l							
Surrogate: Dibromofluoromethane	*2.38*		"	*2.50*		*95*	*65-130*			
Surrogate: Toluene-d8	*2.19*		"	*2.50*		*88*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.03*		"	*2.50*		*81*	*70-120*			
Laboratory Control Sample (5H25002-BS1)				Prepared & Analyzed: 08/25/05						
Tetrachloroethene	10.9	0.50	ug/l	10.0		109	85-125			
Surrogate: Dibromofluoromethane	*2.37*		"	*2.50*		*95*	*65-130*			
Surrogate: Toluene-d8	*2.27*		"	*2.50*		*91*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.18*		"	*2.50*		*87*	*70-120*			
Matrix Spike (5H25002-MS1)	**Source: MOH0838-03**			Prepared & Analyzed: 08/25/05						
Tetrachloroethene	10.8	0.50	ug/l	10.0	ND	108	85-125			
Surrogate: Dibromofluoromethane	*2.35*		"	*2.50*		*94*	*65-130*			
Surrogate: Toluene-d8	*2.23*		"	*2.50*		*89*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.31*		"	*2.50*		*92*	*70-120*			
Matrix Spike Dup (5H25002-MSD1)	**Source: MOH0838-03**			Prepared & Analyzed: 08/25/05						
Tetrachloroethene	11.1	0.50	ug/l	10.0	ND	111	85-125	3	15	
Surrogate: Dibromofluoromethane	*2.38*		"	*2.50*		*95*	*65-130*			
Surrogate: Toluene-d8	*2.28*		"	*2.50*		*91*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.30*		"	*2.50*		*92*	*70-120*			

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0276, Oakland, CA Project Number:G0C20-0004 Project Manager:Scott Robinson	MOH0682 **Reported:** 09/06/05 17:29

Notes and Definitions

LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
LM	MS and/or MSD above acceptance limits. See Blank Spike(LCS).
IC	Calib. verif. is within method limits but outside contract limits
HL	Analyte recovery above established limit
BB,LM	Sample > 4x spike concentration. MS and/or MSD above acceptance limits. See Blank Spike(LCS).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Chain of Custody Record

Project Name: Analytical for QMR sampling
BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 276 > HistoricalBL
State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fra
Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time:	1200	Temp:	85
Off-site Time:	1700	Temp:	85
Sky Conditions:	clear		
Meteorological Events:			
Wind Speed:	—	Direction:	

Lab Name: Sequoia	BP/AR Facility No.: 276	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 10600 Macarthur Blvd., Oakland, CA 94605	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.74255 / -122.1513	Oakland, CA 94612
Lab PM: Lisa Race / Jamshid Kekobad	California Global ID No.: T0600100082	Consultant/Contractor Project No.: 38487009
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G0C20-0004	Consultant/Contractor PM: Scott Robinson
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.3280 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: 04 - Mon/Remed by Natural Attenuation	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Donna_Cosper@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 276

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No. M0H0682	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: GRO / BTEX (8260)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: EDB, 1,2-DCA (8260)	Requested Analysis: Ethanol (8260)	Requested Analysis: PCB (8010)						Sample Point Lat/Long and Comments
1	MW-2	1505	8/11		X		01	6				X			X	X	X	X	X						
2	MW-5	1440			X		02	6				X			X	X	X	X	X						
3	MW-6	1630			X		03	6				X			X	X	X	X	X						
4	MW-7	1410			X		04	6				X			X	X	X	X	X						
5	MW-8	1540			X		05	6				X			X	X	X	X	X						
6	TB-276-08112005	1200			X		06 ~~05~~ 2	6				X													ON HOLD
7																									
8																									
9																									
10																									

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Brian Alcorn						
Sampler's Company: Blaine Tech Services		8/11/05	1800	Sample Custodian	8/11/05	1800
Shipment Date:		8/12	901		8/12/05	901
Shipment Method:		8/12/05	1505		8/12/05	1505
Shipment Tracking No:						

Special Instructions:

Cooler Seals In Place Yes X No ___ Temp Blank Yes X No ___ Cooler Temperature on Receipt 1.0 °F/C Trip Blank Yes X No ___

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
REC. BY (PRINT): E. Fallin
WORKORDER: M0H0682

DATE REC'D AT LAB: 8/12/05
TIME REC'D AT LAB: 1505
DATE LOGGED IN: 8/14/05

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent	01	A-F	MW-2	40ml VOA(6)	HCl	—	L	8/12/05	
	Intact / Broken*	02		MW-5						
2. Chain-of-Custody	Present / Absent*	03		MW-6						
3. Traffic Reports or Packing List:	Present / Absent	04		MW-7						
		05		MW-8						
4. Airbill:	Airbill / Sticker Present / Absent	06	A/B	TB-226-08112005	VOA(2)					
5. Airbill #:										
6. Sample Labels:	Present / Absent									
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody									
8. Sample Condition:	Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No*									
10. Sample received within hold time?	Yes / No*									
11. Adequate sample volume received?	Yes / No*									
12. Proper preservatives used?	Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No*									
14. Read Temp: 6.0°C										
Corrected Temp: 6.0°C										
Is corrected temp 4 +/-2°C?	Yes / No**									
(Acceptance range for samples requiring thermal pres.)										
**Exception (if any): METALS / DFF ON ICE or Problem COC										

EBF 8/12/05

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

SRL Revision 7
Replaces Rev 5 (07/13/04)
Effective 07/19/05

ATTACHMENT C

HISTORICAL GROUNDWATER DATA

Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (ft-MSL)	Groundwater Elevation (ft-MSL)	Date Sampled	Tetra-chloro-ethene (PCE) µg/L	Tetra-chloro-ethene (TCE) µg/L	trans-1,2-Dichloro-ethene µg/L	cis-1,2-Dichloro-ethene µg/L	Freon 12 µg/L	Dissolved Oxygen (mg/l)	Purged Not Purg (P/NP)
MW-1	03-10-95	55.92	26.26	ND	29.66	03-10-95	170	<1	--	<1	--		
MW-1	06-05-95	55.92	25.71	ND	30.21	06-05-95	210	<5	--	<5	--		
MW-1	08-29-95	55.92	28.44	ND	27.48	08-29-95	130	<1	--	<1	--		
MW-1	11-16-95	55.92	30.85	ND	25.07	11-16-95	45	<1	--	<1	<1		
MW-1	02-28-96	55.92	24.99	ND	30.93	02-28-96	97	<1	<1	<1	--		
MW-1	05-28-96	55.92	24.92	ND	31.00	05-28-96	160	<5	<5	<5	--		
MW-1	08-19-96	55.92	28.04	ND	27.88	08-19-96	77	<1	<1	<1	--		
MW-1	11-21-96	55.92	30.19	ND	25.73	11-21-96	30	<1	<1	<1	--		
MW-1	03-26-97	55.92	24.90	ND	31.02	03-26-97	66	<1	<1	<1	--		
MW-1	05-20-97	55.92	26.99	ND	28.93	05-20-97	36	<0.5	<0.5	<0.5	--		
MW-1	08-18-97	55.92	29.98	ND	25.94	08-18-97	11	<0.5	<0.5	<0.5	--		
MW-1	11-17-97	55.92	31.72	ND	24.20	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-1	12-02-99	55.92	Not surveyed			12-02-99	Not surveyed: well was inaccessible						
MW-2	03-10-95	55.10	13.98	ND	41.12	03-11-95	<1	<1	--	<1	--		
MW-2	06-05-95	55.10	15.65	ND	39.45	06-05-95	<1	<1	--	<1	--		
MW-2	08-29-95	55.10	17.14	ND	37.96	08-29-95	<5	<5	--	<5	--		
MW-2	11-16-95	55.10	Not surveyed			11-16-95	Not surveyed: well was inaccessible						
MW-2	02-28-96	55.10	12.46	ND	42.64	02-28-96	<1	<1	<1	<1	--		
MW-2	05-28-96	55.10	15.23	ND	39.87	05-28-96	<1	<1	<1	<1	--		
MW-2	08-19-96	55.10	16.84	ND	38.26	08-21-96	<1	<1	<1	<1	--		
MW-2	11-21-96	55.10	15.44	ND	39.66	11-21-96	<1	<1	<1	<1	--		
MW-2	03-26-97	55.10	15.73	ND	39.37	03-26-97	<10^	<10^	<10^	<10^	--		
MW-2	05-20-97	55.10	16.07	ND	39.03	05-20-97	<1^	<1^	<1^	<1^	--		
MW-2	08-18-97	55.10	17.28	ND	37.82	08-18-97	<5^	<5^	<5^	<5^	--		
MW-2	11-17-97	55.10	16.75	ND	38.35	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-2	12-02-99	55.10	Not surveyed			12-02-99	Not sampled: not on sampling schedule						

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Recreated from electronic data provided by Pinnacle

Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (ft-MSL)	Groundwater Elevation (ft-MSL)	Date Sampled	Tetra-chloro-ethene (PCE) µg/L	Tetra-chloro-ethene (TCE) µg/L	trans-1,2-Dichloro-ethene µg/L	cis-1,2-Dichloro-ethene µg/L	Freon 12 µg/L	Dissolved Oxygen (mg/l)	Purged Not Purg (P/NP)
MW-3	03-10-95	56.55	26.74	ND	29.81	03-11-95	1700	<10	--	<10	--		
MW-3	06-05-95	56.55	26.34	ND	30.21	06-05-95	2500	<20	--	<20	--		
MW-3	08-29-95	56.55	29.15	ND	27.40	08-29-95	1600	<20	--	<20	--		
MW-3	11-16-95	56.55	31.50	ND	25.05	11-16-95	1100	<20	--	<20	<20		
MW-3	02-28-96	56.55	25.32	ND	31.23	02-28-96	1100	<10	<10	<10	--		
MW-3	05-28-96	56.55	25.46	ND	31.09	05-28-96	1700	<20	<20	<20	--		
MW-3	08-19-96	56.55	28.71	ND	27.84	08-19-96	1200	<20	<20	<20	--		
MW-3	11-21-96	56.55	30.85	ND	25.70	11-21-96	710	<20^	<20^	<20^	--		
MW-3	03-26-97	56.55	25.36	ND	31.19	03-26-97	710	<40^	<40^	<40^	--		
MW-3	05-20-97	56.55	27.61	ND	28.94	05-20-97	800	<25^	<25^	<25^	--		
MW-3	08-18-97	56.55	30.62	ND	25.93	08-18-97	420	<5^	<5^	<5^	--		
MW-3	11-17-97	56.55	32.40	ND	24.15	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-3	12-02-99	56.55	30.75	ND	25.80	12-02-99	210*	<0.5*	<0.5*	<0.5*	--	0.47	NP
MW-4	03-10-95	55.98	26.22	ND	29.76	03-11-95	2600	<20	--	<20	--		
MW-4	06-05-95	55.98	25.79	ND	30.19	06-05-95	3100	<20	--	<20	--		
MW-4	08-29-95	55.98	28.56	ND	27.42	08-29-95	2900	<20	--	<20	--		
MW-4	11-16-95	55.98	31.00	ND	24.98	11-16-95	2100	<20	--	<20	<20		
MW-4	02-28-96	55.98	24.77	ND	31.21	02-28-96	2400	<20	<20	<20	--		
MW-4	05-28-96	55.98	24.91	ND	31.07	05-28-96	2700	<20	<20	<20	--		
MW-4	08-19-96	55.98	28.17	ND	27.81	08-19-96	2600	<20	<20	<20	--		
MW-4	11-21-96	55.98	30.30	ND	25.68	11-21-96	1100	<20^	<20^	<20^	--		
MW-4	03-26-97	55.98	24.80	ND	31.18	03-26-97	1900	<40^	<40^	<40^	--		
MW-4	05-20-97	55.98	27.03	ND	28.95	05-20-97	1600	<50^	<50^	<50^	--		
MW-4	08-18-97	55.98	30.10	ND	25.88	08-18-97	600	<125^	<125^	--	--		
MW-4	11-17-97	55.98	31.84	ND	24.14	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-4	12-02-99	55.98	30.20	ND	25.78	12-02-99	320*	<0.5*	<0.5*	<0.5*	--	1.03	NP

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Recreated from electronic data provided by Pinnacle

Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (ft-MSL)	Groundwater Elevation (ft-MSL)	Date Sampled	Tetra-chloro-ethene (PCE) µg/L	Tetra-chloro-ethene (TCE) µg/L	trans-1,2-Dichloro-ethene µg/L	cis-1,2-Dichloro-ethene µg/L	Freon 12 µg/L	Dissolved Oxygen (mg/l)	Purged/ Not Purged (P/NP)
MW-5	03-10-95	55.43	25.62	ND	29.81	03-10-95	270	<5	--	<5	--		
MW-5	06-05-95	55.43	25.30	ND	30.13	06-05-95	310	<5	--	<5	--		
MW-5	08-29-95	55.43	28.21	ND	27.22	08-29-95	240	<5	--	<5	--		
MW-5	11-16-95	55.43	30.63	ND	24.80	11-16-95	940	<5	--	<5	<5		
MW-5	02-28-96	55.43	24.07	ND	31.36	02-28-96	1100	<10	<10	<10	--		
MW-5	05-28-96	55.43	24.42	ND	31.01	05-28-96	360	<5	<5	<5	--		
MW-5	08-19-96	55.43	27.82	ND	27.61	08-21-96	150	<1	<1	2	--		
MW-5	11-21-96	55.43	29.92	ND	25.51	11-21-96	1900	<20^	<20^	<20^	--		
MW-5	03-26-97	55.43	24.22	ND	31.21	03-26-97	270	<10^	<10^	<10^	--		
MW-5	05-20-97	55.43	26.60	ND	28.83	05-20-97	290	<5^	<5^	<5^	--		
MW-5	08-18-97	55.43	NR	ND	NR	08-18-97	--	--	--	--	--		
MW-5	11-17-97	55.43	Not surveyed			11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-5	12-02-99	55.43	29.84	ND	25.59	12-02-99	46*	<0.5*	<0.5*	<0.5*	--	0.53	P
MW-6	03-10-95	61.21	31.54	ND	29.67	03-11-95	1300	<20	--	<20	--		
MW-6	06-05-95	61.21	31.15	ND	30.06	06-05-95	2000	<20	--	<20	--		
MW-6	08-29-95	61.21	34.03	ND	27.18	08-29-95	1300	<20	--	<20	--		
MW-6	11-16-95	61.21	36.40	ND	24.81	11-16-95	1300	<20	--	<20	<20		
MW-6	02-28-96	61.21	30.18	ND	31.03	02-28-96	960	<20	<20	<20	--		
MW-6	05-28-96	61.21	30.29	ND	30.92	05-28-96	970	<20	<20	<20	--		
MW-6	08-19-96	61.21	33.54	ND	27.67	08-19-96	820	<20	<20	<20	--		
MW-6	11-21-96	61.21	35.70	ND	25.51	11-21-96	680	<20^	<20^	<20^	--		
MW-6	03-26-97	61.21	30.15	ND	31.06	03-26-97	830	<40^	<40^	<40^	--		
MW-6	05-20-97	61.21	32.40	ND	28.81	05-20-97	270	<5^	<5^	<5^	--		
MW-6	08-18-97	61.21	35.47	ND	25.74	08-18-97	420	<62.5^	<62.5^	--	--		
MW-6	11-17-97	61.21	37.25	ND	23.96	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-6	12-02-99	61.21	35.55	ND	25.66	12-02-99	Not sampled; not on sampling schedule						

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Recreated from electronic data provided by Pinnacle

Pinnacle

Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (ft-MSL)	Groundwater Elevation (ft-MSL)	Date Sampled	Tetra-chloro-ethene (PCE) µg/L	Tetra-chloro-ethene (TCE) µg/L	trans-1,2-Dichloro-ethene µg/L	cis-1,2-Dichloro-ethene µg/L	Freon 12 µg/L	Dissolved Oxygen (mg/l)	Purged/ Not Purge (P/NP)
MW-7	03-10-95	58.22	17.69	ND^^	40.53	03-11-95	Not sampled: floating product entered the well during purging						
MW-7	06-05-95	58.22	19.68	ND	38.54	06-05-95	<10	<10	--	<10	--		
MW-7	08-29-95	58.22	21.70	ND	36.52	08-29-95	<10	<10	--	<10	--		
MW-7	11-16-95	58.22	23.02	ND	35.20	11-16-95	<20	<20	--	<20	<20		
MW-7	02-28-96	58.22	16.54	ND	41.68	02-28-96	<10	<10	<10	<10	--		
MW-7	05-28-96	58.22	19.29	ND	38.93	05-28-96	<10	<10	<10	<10	--		
MW-7	08-19-96	58.22	21.84	ND	36.38	08-21-96	<1	<1	<1	<1	--		
MW-7	11-21-96	58.22	19.58	ND	38.64	11-21-96	<10^	<10^	<10^	<10^	--		
MW-7	03-26-97	58.22	19.67	ND	38.55	03-26-97	<20^	<20^	<20^	<20^	--		
MW-7	05-20-97	58.22	20.18	ND	38.04	05-20-97	<10^	<10^	<10^	<10^	--		
MW-7	08-18-97	58.22	22.21	ND	36.01	08-18-97	<10^	<10^	<10^	<10^	--		
MW-7	11-17-97	58.22	20.85	ND	37.37	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-7	12-02-99	58.22	20.92	ND	37.30	12-02-99	Not sampled: not on sampling schedule						
MW-8	03-10-95	53.65	23.60	ND	30.05	03-10-95	<1	<1	--	<1	--		
MW-8	06-05-95	53.65	23.48	ND	30.17	06-05-95	<1	<1	--	<1	--		
MW-8	08-29-95	53.65	26.44	ND	27.21	08-29-95	<1	<1	--	<1	--		
MW-8	11-16-95	53.65	28.90	ND	24.75	11-16-95	<1	<1	--	<1	<1		
MW-8	02-28-96	53.65	22.16	ND	31.49	02-28-96	3	<1	<1	<1	--		
MW-8	05-28-96	53.65	22.62	ND	31.03	05-28-96	<1	<1	<1	<1	--		
MW-8	08-19-96	53.65	26.70	ND	26.95	08-21-96	<1	<1	<1	<1	--		
MW-8	11-21-96	53.65	28.16	ND	25.49	11-21-96	7	<1	<1	<1	--		
MW-8	03-26-97	53.65	22.42	ND	31.23	03-26-97	<1	<1	<1	<1	--		
MW-8	05-20-97	53.65	24.84	ND	28.81	05-20-97	<0.5	<0.5	<0.5	<0.5	--		
MW-8	08-18-97	53.65	28.03	ND	25.62	08-18-97	<5	<5	<5	--	--		
MW-8	11-17-97	53.65	29.16	ND	24.49	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-8	12-02-99	53.65	28.07	ND	25.58	12-02-99	Not sampled: not on sampling schedule						

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Recreated from electronic data provided by Pinnacle

Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (ft-MSL)	Groundwater Elevation (ft-MSL)	Date Sampled	Tetra-chloro-ethene (PCE) µg/L	Tetra-chloro-ethene (TCE) µg/L	trans-1,2-Dichloro-ethene µg/L	cis-1,2-Dichloro-ethene µg/L	Freon 12 µg/L	Dissolved Oxygen (mg/l)	Purged/ Not Purge (P/NP)
RW-1	03-10-95	56.32	26.48	Sheen	29.84	03-10-95	260	<5	--	<5	--		
RW-1	06-05-95	56.32	26.20	ND	30.12	06-05-95	59	<1	--	<1	--		
RW-1	08-29-95	56.32	28.98	ND	27.34	08-29-95	570	<5	--	<5	--		
RW-1	11-16-95	56.32	31.34	ND	24.98	11-16-95	140	<1	--	<1	<1		
RW-1	02-28-96	56.32	25.12	ND	31.20	02-28-96	6	<1	<1	<1	--		
RW-1	05-28-96	56.32	25.26	ND	31.06	05-28-96	12	<1	<1	<1	--		
RW-1	08-19-96	56.32	28.51	ND	27.81	08-21-96	100	<1	<1	<1	--		
RW-1	11-21-96	56.32	30.65	ND	25.67	11-21-96	190	1	<1	<1	--		
RW-1	03-26-97	56.32	25.15	ND	31.17	03-26-97	6	<1	<1	<1	--		
RW-1	05-20-97	56.32	27.44	ND	28.88	05-20-97	5.3	<0.5	<0.5	<0.5	--		
RW-1	08-18-97	56.32	30.46	ND	25.86	08-18-97	46	<5	<5	--	--		
RW-1	11-17-97	56.32	32.16	ND	24.16	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
RW-1	12-02-99	56.32	30.54	ND	25.78	12-02-99	Not sampled: not on sampling schedule						
WGR-3	03-10-95	NR	15.20	ND	NR	03-11-95	<1	<1	--	<1	--		
WGR-3	06-05-95	NR	19.25	ND	NR	06-05-95	<1	<1	--	<1	--		
WGR-3	08-29-95	NR	21.41	ND	NR	08-29-95	<1	<1	--	<1	--		
WGR-3	11-16-95	NR	22.50	ND	NR	11-16-95	<1	<1	--	<1	<1		
WGR-3	02-28-96	NR	14.90	ND	NR	02-28-96	<1	<1	<1	<1	--		
WGR-3	05-28-96	NR	18.33	ND	NR	05-28-96	<1	<1	<1	<1	--		
WGR-3	08-19-96	NR	21.38	ND	NR	08-19-96	<1	<1	<1	<1	--		
WGR-3	11-21-96	NR	18.70	ND	NR	11-21-96	<1	<1	<1	<1	--		
WGR-3	03-26-97	NR	18.98	ND	NR	03-26-97	<1	<1	<1	<1	--		
WGR-3	05-20-97	NR	19.70	ND	NR	05-20-97	<0.5	<0.5	<0.5	<0.5	--		

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Recreated from electronic data provided by Pinnacle

Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (ft-MSL)	Groundwater Elevation (ft-MSL)	Date Sampled	Tetra-chloro-ethene (PCE) µg/L	Tetra-chloro-ethene (TCE) µg/L	trans-1,2-Dichloro-ethene µg/L	cis-1,2-Dichloro-ethene µg/L	Freon 12 µg/L	Dissolved Oxygen (mg/l)	Purged/ Not Purged (P/NP)
WGR-3	08-18-97	NR	21.81	ND	NR	08-18-97	<5	<5	<5	--	--		
WGR-3	11-17-97	NR	20.42	ND	NR	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
WGR-3	12-02-99	NR	20.58	ND	NR	12-02-99	Not sampled: not on sampling schedule						

TOC: Top of Casing
ft-MSL: elevation in feet, relative to mean sea level
µg/L: micrograms per liter
ND: none detected
NR: not reported; data not available or not measurable
--: not analyzed or not applicable
*: analyzed by EPA method 8021B
^: method reporting limit was raised due to: (1) high analyte concentration requiring sample dilution, or (2) matrix interference
^^: floating product entered the well during purging
**: For previous historical groundwater elevation and analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Results and Remediation System Performance Evaluation Report, Retail Service Station 10500 and 10700 MacArthur Boulevard, Oakland, California, (EMCON, March 22, 1996).*

ATTACHMENT D

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

SUCCESSFUL GEO_WELL CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	9/29/2005 10:40:20 AM

Processing is complete. No errors were found!
You may now proceed to the upload page.

Back to Main Menu

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

UPLOADING A GEO_WELL FILE

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

Submittal Title:	**3Q 2005 QMR GeoWell BP/ARCO 276**
Submittal Date/Time:	**9/29/2005 10:49:22 AM**
Confirmation Number:	**1850662052**

Back to Main Menu

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CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

SUCCESSFUL EDF CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	9/28/2005 10:54:19 AM
GLOBAL ID:	T0600100082
FILE UPLOADED:	ARCO#0276-RevisedEDF-MOH0682.zip

No errors were found in your EDF upload file.

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

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

Click here to view the detections report for this upload.

ARCO
10600 MACARTHUR BLVD
OAKLAND, CA 94605

Regional Board - Case #: 01-0089
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 3756
ALAMEDA COUNTY LOP - **(RWS)**

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	5
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	5
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	1
LAB BLANK DETECTIONS	1
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	N

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been succcessfully uploaded!

Confirmation Number: 7008884191
Date/Time of Submittal: 9/28/2005 10:56:39 AM
Facility Global ID: T0600100082
Facility Name: ARCO
Submittal Title: 3Q 05 QMR EDF BP/ARCO 276
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

ARCO
10600 MACARTHUR BLVD
OAKLAND, CA 94605

Regional Board - Case #: 01-0089
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 3756
ALAMEDA COUNTY LOP - **(RWS)**

NOTE: THIS DATA WAS SUBMITTED AFTER THE SITE WAS CLOSED

CONF #	TITLE	QUARTER
7008884191	3Q 05 QMR EDF BP/ARCO 276	Q3 2005

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	9/28/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	5
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	5
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	1
LAB BLANK DETECTIONS	1
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N

BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	N

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

ATTACHMENT E

WELL REPAIR DATA SHEETS

Repair Data Sheet

Client URS - ARCO/BP Date 8/11/05

Site Address 10600 MacArthur Blvd., Oakland

Job Number 050811-AA2 Technician AA

Check Indicates deficiency

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Other Deficiency	Lid Not Securable By Design (List Type)	Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
MW-6							X											X
	Notes: Stuck bolt → Removed bolt and retapped two tabs replaced (2) bolts.																	
RW-1												X					X	
	Notes: Removed stuck 6" expansion cap w/broken expansion mechanism. → New 6" cap needed; not available at time of repair.																	
	Notes:																	
	Notes:																	
	Notes:																	
	Notes:																	