R02565

URS

December 22, 2005

Alameda County
JAN 11 2006
Environmental Health

Mr. Don Hwang
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Second Floor, Suite 250
Alameda, CA 94502

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

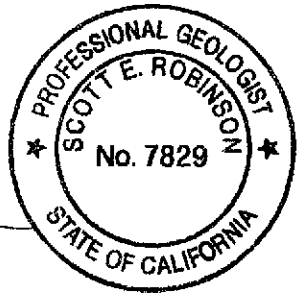
Dear Mr. Hwang:

On behalf of Atlantic Richfield Company, a BP-affiliated company, URS Corporation (URS) is submitting the *Fourth 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



Scott Robinson, P.G.
Project Manager

Enclosure: Fourth 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

FOURTH QUARTER 2005 GROUNDWATER MONITORING REPORT

ARCO SERVICE STATION #0276
10600 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Prepared for
RM

December 22, 2005

URS
URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date: December 22, 2005

Quarter: 4Q05

FOURTH 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 (Fourth – 2005):

1. Performed the fourth quarter 2005 groundwater monitoring event on November 18, 2005.
2. Prepared and submitted this Fourth Quarter 2005 Groundwater Monitoring Report.

WORK PROPOSED FOR NEXT QUARTER (First – 2006):

1. Perform the first quarter 2006 groundwater monitoring event.
2. Prepare and submit the First Quarter 2006 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:	17.66 (MW-2) to 34.50 (MW-6) feet
Groundwater Gradient (direction):	Southwest
Groundwater Gradient (magnitude):	0.005 feet per foot

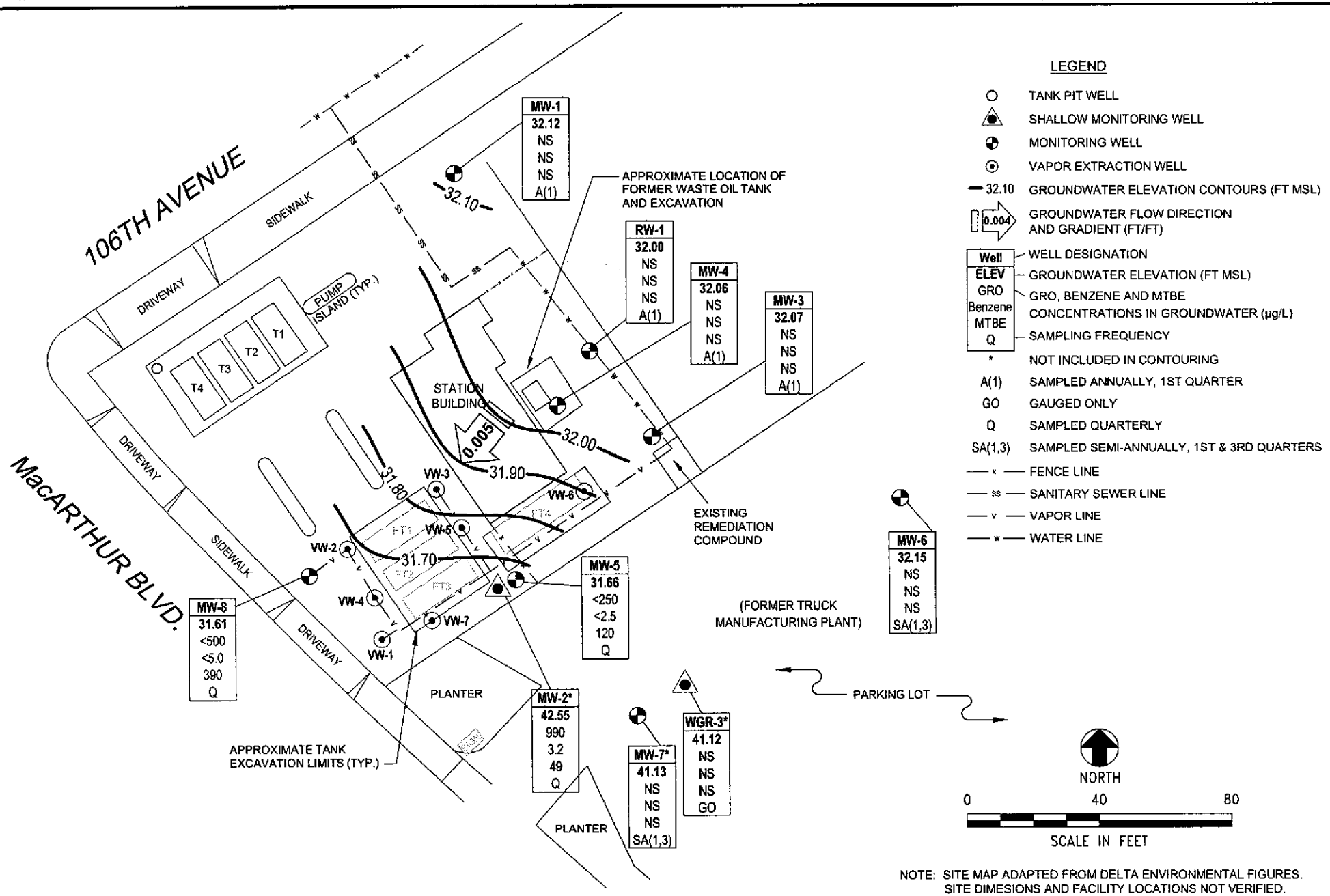
DISCUSSION:

Gasoline range organics, benzene, toluene, ethylbenzene and xylenes were detected at or above their respective laboratory reporting limits in one of the three wells (MW-2) sampled this quarter at concentrations of 990 micrograms per liter (µg/L), 3.2 µg/L, 0.64 µg/L, 3.8 µg/L, and 1.6 µg/L, respectively. Methyl tert-butyl ether was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 49 µg/L (MW-2) to 390 µg/L (MW-8). Tert-amyl methyl ether was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 9.2 µg/L (MW-5) to 23 µg/L (MW-8). 1,2-Dichloroethane was detected at or above the laboratory reporting limit in one well at a concentration of 10 µg/L (MW-5). 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 – November 18, 2005
- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Fuel Additives Analytical Data
- Table 3 - Groundwater Gradient Data
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports, Chain-of-Custody Records
- Attachment C - Historical Groundwater Data
- Attachment D – Error Check Reports and EDF/Geowell Submittal Confirmations

Dec 19, 2005 - 8:02pm
X:\x_env_waste\BP GEM\Sites\Scott Robinson\Paul Supple\0276\Monitoring\2005 Qtr. 4\Drawings\276-4Q05-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 Fourth Quarter 2005 (November 18, 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	2.1	6.6
	02/03/2004	NP		55.92	23.50	28.50	38.80	17.12	--	--	--	--	--	--	1.5	--
	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	2.2	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	2.1	6.6
	02/03/2005	NP		61.26	23.50	28.50	26.23	35.03	--	--	--	--	--	--	0.89	--
	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	--	--	--	--	--	--	--	--
	11/18/2005	**--**		**61.26**	**23.50**	**28.50**	**29.14**	**32.12**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
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	1.8	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	1.8	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	0.6	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	1.6	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	0.9	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
	11/18/2005	**P**		**60.21**	**15.00**	**25.00**	**17.66**	**42.55**	**990**	**3.2**	**0.64**	**3.8**	**1.6**	**49**	**3.23**	**6.5**
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	2.8	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	2.1	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	1.6	6.4

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	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	1.6	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	2.6	6.7
	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	--	--	--	--	--	--	--	--
	11/18/2005	--		**61.89**	**22.00**	**27.00**	**29.82**	**32.07**	--	--	--	--	--	--	--	--
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	2.6	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	4.2	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	2.1	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	2.3	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	2.4	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	--	--	--	--	--	--	--	--
	11/18/2005	--		**61.30**	**25.00**	**45.00**	**29.24**	**32.06**	--	--	--	--	--	--	--	--
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	0.6	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	1.7	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	0.9	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	1.8	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	1.6	6.3
	11/18/2005	**P**		**60.73**	**23.50**	**31.50**	**29.07**	**31.66**	**<250**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**120**	**1.98**	**6.3**
MW-6	12/17/2000	--		61.21	37.50	56.00	34.61	26.60	---	---	---	---	---	--	---	---

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	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	2.7	6.9
	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	1.9	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	1.4	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	2.6	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	1.9	6.3
	11/18/2005	**--**		**66.65**	**37.50**	**56.00**	**34.50**	**32.15**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
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	2.2	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	1.9	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
	11/18/2005	**--**		**63.54**	**17.50**	**37.50**	**22.41**	**41.13**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
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	2.6	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	3.8	6.4
	08/12/2004	P		58.96	29.00	49.00	27.72	31.24	<2,500	<25	<25	<25	<25	400	3.4	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	3.4	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

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-8	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
	11/18/2005	**P**		**58.96**	**29.00**	**49.00**	**27.35**	**31.61**	**<500**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**390**	**3.51**	**6.4**
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	---	---	---	---	---	--	---	---
	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	3.1	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	6.7	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	4.4	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	2.2	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	5.7	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	--	--	--	--	--	--	--	--
	11/18/2005	**--**		**61.65**	**36.00**	**51.00**	**29.65**	**32.00**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
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	1.8	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	0.3	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	--	--	--	--	--	--	--	--
	11/18/2005	**--**		**63.27**	**--**	**--**	**22.15**	**41.12**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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
BTEX = Benzene, toluene, ethylbenzene and xylenes
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
µg/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 was dry.
i = Hydrocarbon result for GRO partly due to individual peak(s) in quantitative range.

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

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

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	--	
	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	--	
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	--	
	11/18/2005	**<100**	**<20**	**49**	**<0.50**	**<0.50**	**11**	**<0.50**	**<0.50**	**--**	**--**	**--**	**--**	**<0.50**	**--**	f
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	--	
	02/03/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	--	--	--	--	83	--	

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	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	--	
	11/18/2005	**<500**	**<100**	**120**	**<2.5**	**<2.5**	**9.2**	**10**	**<2.5**	**--**	**--**	**--**	**--**	**19**	**--**	**f**
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
	11/18/2005	**<1,000**	**<200**	**390**	**<5.0**	**<5.0**	**23**	**<5.0**	**<5.0**	**--**	**--**	**--**	**--**	**4.2**	**--**	f
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
µg/L = Micrograms per Liter
BTEX = Benzene, toluene, ethylbenzene and xylenes

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 was within method limits but outside contract limits.
f = Sample for PCE analyzed after holding time expired.

NOTES:
PCE 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
07/22/2003	South	0.007
11/07/2003	Southwest	0.002
02/03/2004	South-Southwest	0.002
05/04/2004	South-Southwest	0.003
08/12/2004	South	0.004
11/10/2004	Southwest	0.004
02/03/2005	Southwest	0.003
05/09/2005	South-Southwest	0.004
08/11/2005	South-Southwest	0.007
11/18/2005	**Southwest**	**0.005**

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 # 051118-PC2 Date 11/18/05 Client Arco 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					29.14	38.01	TOC	G.O.
MW-2	4					17.66	25.37		
MW-3	2					29.82	38.60		G.O.
MW-4	2					29.24	47.36		G.O.
MW-5	4					29.07	46.96		
MW-6	2					34.50	48.49		G.O
MW-7	2					22.41	36.81		G.O.
MW-8	4					27.35	47.07		
RW-1	6					29.65	48.02		G.O.
WGR-3	4					22.15	27.02		G.O.

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 051118-RC2	Station # ARCO 276
Sampler: RC	Date: 11/18/05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 25.37	Depth to Water: 17.66
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.

5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 15 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1328	71.4	7.2	599	5	
1330	70.2	6.6	589	10	
1332	69.8	6.5	579	15	

Did well dewater? Yes (No) Gallons actually evacuated: 15

Sampling Time: 1340 Sampling Date: 11/18/05

Sample I.D.: MW-2 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (GRO) (BTEX) MTBE DRO (Oxy's) 1,2-DCA EDB (Ethanol) Other: FCL

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	3.23	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 051118-PC2	Station # Arco 276
Sampler: PC	Date: 11/18/05
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 46.96	Depth to Water: 29.07
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.

11.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 34.8 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1340	67.5	6.5	822	11.5	
1351	67.0	6.3	851	22	
1400	66.7	6.3	865	35	

Did well dewater? Yes (No) Gallons actually evacuated: 35

Sampling Time: 1400 Sampling Date: 11/18/05

Sample I.D.: MW-5 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (GRO) BTEX MTBE DRO (Oxy's 1,2-DCA EDB Ethanol) Other: PG

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.98	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050118-PC2	Station # Arco 276
Sampler: PC	Date: 11/18/05
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 47.87	Depth to Water: 27.35
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.

13.3 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 39.9 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1414	69.5	6.4	712	13.5	
1418	69.6	6.3	736	27	
1421	69.6	6.4	743	40	

Did well dewater? Yes (No) Gallons actually evacuated: 40

Sampling Time: 1430 Sampling Date: 11/18/05

Sample I.D.: MW-8 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (GRO) (BTEX) MTBE DRO (Oxy's 1,2-DCA EDB Ethanol) Other: PB

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	3.5 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

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

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

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

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

Arco 276
Station #

10600 MacArthur Blvd., Oakland
Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

90

added equip. rinse water 12

any other adjustments

TOTAL GALS. RECOVERED 102

loaded onto BTS vehicle # 58

BTS event # 051118-RZ

time 1400

date 11/18/05

signature

* *

REC'D AT BTS

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

885 Jarvis Drive
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13 December, 2005

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

RE: ARCO #0276, Oakland, CA
Work Order: MOK0961

Enclosed are the results of analyses for samples received by the laboratory on 11/21/05 09:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

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

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URS Corporation [Arco]	Project:ARCO #0276, Oakland, CA	MOK0961
1333 Broadway, Suite 800	Project Number:G0C20-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	12/13/05 14:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	MOK0961-01	Water	11/18/05 13:40	11/21/05 09:40
MW-5	MOK0961-02	Water	11/18/05 14:00	11/21/05 09:40
MW-8	MOK0961-03	Water	11/18/05 14:30	11/21/05 09:40
TB27611182005	MOK0961-04	Water	11/18/05 00:00	11/21/05 09:40

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

Revised report created 12/13/05. Sample date corrected per revised COC.

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URS Corporation [Arco]	Project:ARCO #0276, Oakland, CA	MOK0961
1333 Broadway, Suite 800	Project Number:G0C20-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	12/13/05 14:20

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MOK0961-01) Water Sampled: 11/18/05 13:40 Received: 11/21/05 09:40									
tert-Amyl methyl ether	**11**	0.50	ug/l	1	5L02014	12/02/05	12/02/05	EPA 8260B	
Benzene	**3.2**	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	**3.8**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**49**	0.50	"	"	"	"	"	"	
Toluene	**0.64**	0.50	"	"	"	"	"	"	
Xylenes (total)	**1.6**	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**990**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*60-135*		"	"	"	"	
MW-5 (MOK0961-02) Water Sampled: 11/18/05 14:00 Received: 11/21/05 09:40									
tert-Amyl methyl ether	**9.2**	2.5	ug/l	5	5L02014	12/02/05	12/02/05	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	**10**	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	**120**	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*88 %*	*60-135*		"	"	"	"	

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URS Corporation [Arco]	Project:ARCO #0276, Oakland, CA	MOK0961
1333 Broadway, Suite 800	Project Number:G0C20-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	12/13/05 14:20

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MOK0961-03) Water	**Sampled: 11/18/05 14:30**	**Received: 11/21/05 09:40**							
tert-Amyl methyl ether	**23**	5.0	ug/l	10	5L02014	12/02/05	12/02/05	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	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**390**	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*91 %*	*60-135*		"	"	"	"	

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URS Corporation [Arco]	Project:ARCO #0276, Oakland, CA	MOK0961
1333 Broadway, Suite 800	Project Number:G0C20-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	12/13/05 14:20

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 (MOK0961-01) Water Sampled: 11/18/05 13:40 Received: 11/21/05 09:40									**BU**
Tetrachloroethene	ND	0.50	ug/l	1	5L05002	12/05/05	12/05/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*91 %*	*65-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*60-135*		"	"	"	"	
Surrogate: Toluene-d8		*112 %*	*70-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*70-120*		"	"	"	"	
MW-5 (MOK0961-02) Water Sampled: 11/18/05 14:00 Received: 11/21/05 09:40									**BU**
Tetrachloroethene	**19**	0.50	ug/l	1	5L05002	12/05/05	12/05/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*88 %*	*65-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*60-135*		"	"	"	"	
Surrogate: Toluene-d8		*94 %*	*70-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91 %*	*70-120*		"	"	"	"	
MW-8 (MOK0961-03) Water Sampled: 11/18/05 14:30 Received: 11/21/05 09:40									**BU**
Tetrachloroethene	**4.2**	0.50	ug/l	1	5L05002	12/05/05	12/05/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*88 %*	*65-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*60-135*		"	"	"	"	
Surrogate: Toluene-d8		*93 %*	*70-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90 %*	*70-120*		"	"	"	"	

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URS Corporation [Arco]	Project:ARCO #0276, Oakland, CA	MOK0961
1333 Broadway, Suite 800	Project Number:G0C20-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	12/13/05 14:20

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 5L02014 - EPA 5030B P/T / EPA 8260B										
Blank (5L02014-BLK1)				Prepared & Analyzed: 12/02/05						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*4.59*		"	*5.00*		*92*	*60-135*			
Laboratory Control Sample (5L02014-BS1)				Prepared & Analyzed: 12/02/05						
tert-Amyl methyl ether	16.0	0.50	ug/l	15.0		107	80-115			
Benzene	5.24	0.50	"	5.16		102	65-115			
tert-Butyl alcohol	179	20	"	143		125	75-150			
Di-isopropyl ether	16.1	0.50	"	15.1		107	75-125			
1,2-Dibromoethane (EDB)	18.9	0.50	"	14.9		127	85-120			HL
1,2-Dichloroethane	16.6	0.50	"	14.7		113	85-130			
Ethanol	188	100	"	142		132	70-135			
Ethyl tert-butyl ether	16.2	0.50	"	15.0		108	75-130			
Ethylbenzene	7.98	0.50	"	7.54		106	75-135			
Methyl tert-butyl ether	7.25	0.50	"	7.02		103	65-125			
Toluene	39.8	0.50	"	37.2		107	85-120			
Xylenes (total)	43.7	0.50	"	41.2		106	85-125			
Gasoline Range Organics (C4-C12)	542	50	"	440		123	60-140			
Surrogate: 1,2-Dichloroethane-d4	*4.96*		"	*5.00*		*99*	*60-135*			

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URS Corporation [Arco]	Project:ARCO #0276, Oakland, CA	MOK0961
1333 Broadway, Suite 800	Project Number:G0C20-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	12/13/05 14:20

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 5L02014 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (5L02014-MS1)	**Source: MOK0961-02**			Prepared & Analyzed: 12/02/05						
tert-Amyl methyl ether	117	2.5	ug/l	113	9.2	95	80-115			
Benzene	36.0	2.5	"	38.7	ND	93	65-115			
tert-Butyl alcohol	1090	100	"	1070	ND	102	75-120			
Di-isopropyl ether	109	2.5	"	113	1.2	95	75-125			
1,2-Dibromoethane (EDB)	122	2.5	"	112	ND	109	85-120			
1,2-Dichloroethane	117	2.5	"	110	10	97	85-130			
Ethanol	1120	500	"	1060	ND	106	70-135			
Ethyl tert-butyl ether	105	2.5	"	113	ND	93	75-130			
Ethylbenzene	49.0	2.5	"	56.6	ND	87	75-135			
Methyl tert-butyl ether	167	2.5	"	52.6	120	89	65-125			
Toluene	263	2.5	"	279	ND	94	85-120			
Xylenes (total)	267	2.5	"	309	ND	86	85-125			
Gasoline Range Organics (C4-C12)	3870	250	"	3300	240	110	60-140			
Surrogate: 1,2-Dichloroethane-d4	*5.74*		"	*5.00*		*115*	*60-135*			
Matrix Spike Dup (5L02014-MSD1)	**Source: MOK0961-02**			Prepared & Analyzed: 12/02/05						
tert-Amyl methyl ether	117	2.5	ug/l	113	9.2	95	80-115	0	15	
Benzene	34.0	2.5	"	38.7	ND	88	65-115	6	20	
tert-Butyl alcohol	1230	100	"	1070	ND	115	75-120	12	25	
Di-isopropyl ether	106	2.5	"	113	1.2	93	75-125	3	15	
1,2-Dibromoethane (EDB)	120	2.5	"	112	ND	107	85-120	2	15	
1,2-Dichloroethane	115	2.5	"	110	10	95	85-130	2	20	
Ethanol	1200	500	"	1060	ND	113	70-135	7	35	
Ethyl tert-butyl ether	104	2.5	"	113	ND	92	75-130	1	25	
Ethylbenzene	52.5	2.5	"	56.6	ND	93	75-135	7	15	
Methyl tert-butyl ether	172	2.5	"	52.6	120	99	65-125	3	20	
Toluene	243	2.5	"	279	ND	87	85-120	8	20	
Xylenes (total)	293	2.5	"	309	ND	95	85-125	9	20	
Gasoline Range Organics (C4-C12)	3660	250	"	3300	240	104	60-140	6	25	
Surrogate: 1,2-Dichloroethane-d4	*5.24*		"	*5.00*		*105*	*60-135*			

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URS Corporation [Arco]	Project:ARCO #0276, Oakland, CA	MOK0961
1333 Broadway, Suite 800	Project Number:G0C20-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	12/13/05 14:20

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 5L05002 - EPA 5030B P/T / EPA 8260B										
Blank (5L05002-BLK1)				Prepared & Analyzed: 12/05/05						
Tetrachloroethene	ND	0.50	ug/l							
Surrogate: Dibromofluoromethane	*2.17*		"	*2.50*		*87*	*65-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.47*		"	*2.50*		*99*	*60-135*			
Surrogate: Toluene-d8	*2.31*		"	*2.50*		*92*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.22*		"	*2.50*		*89*	*70-120*			
Laboratory Control Sample (5L05002-BS1)				Prepared & Analyzed: 12/05/05						
Tetrachloroethene	10.8	0.50	ug/l	10.0		108	85-125			
Surrogate: Dibromofluoromethane	*2.24*		"	*2.50*		*90*	*65-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.59*		"	*2.50*		*104*	*60-135*			
Surrogate: Toluene-d8	*2.38*		"	*2.50*		*95*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.33*		"	*2.50*		*93*	*70-120*			
Laboratory Control Sample Dup (5L05002-BSD1)				Prepared & Analyzed: 12/05/05						
Tetrachloroethene	10.2	0.50	ug/l	10.0		102	85-125	6	15	
Surrogate: Dibromofluoromethane	*2.27*		"	*2.50*		*91*	*65-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.56*		"	*2.50*		*102*	*60-135*			
Surrogate: Toluene-d8	*2.36*		"	*2.50*		*94*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2.31*		"	*2.50*		*92*	*70-120*			

Sequoia Analytical

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

URS Corporation [Arco]	Project:ARCO #0276, Oakland, CA	MOK0961
1333 Broadway, Suite 800	Project Number:G0C20-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	12/13/05 14:20

Notes and Definitions

HL	Analyte recovery above established limit
BU	Sample analyzed after holding time expired
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

Project Name: 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 Fr
Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 1245	Temp: 70 °F
Off-site Time: 1435	Temp: 70 °F
Sky Conditions: clear	
Meteorological Events: none	
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.	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	1340	11/10/05		X			6				X		X	X	X	X	X	
2	MW-5	1400	"		X			6				X		X	X	X	X	X	
3	MW-8	1430	"		X			6				X		X	X	X	X	X	
4	TB-276-111005	—	↓		X			2				X							on hold
5																			
6																			
7																			
8																			
9																			
10																			

MO#0961

Sample Point Lat/Long and Comments
REVISED

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: P. Cornish						
Sampler's Company: BTI	Patti Cornish	11/10/05	1545	SAMPLE COURIER	11/8/05	1545
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes ✓ No ____ Temp Blank Yes ✓ No ____ Cooler Temperature on Receipt ____ °F/C Trip Blank Yes ✓ No ____

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT): Marcos
WORKORDER: 511K0941

DATE REC'D AT LAB: 11.21.05
TIME REC'D AT LAB: 9:48
DATE LOGGED IN: 11-22-05

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERV ATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / (Absent) Intact / Broken*			MW-2						
2. Chain-of-Custody (Present) / Absent*									
3. Traffic Reports or Packing List: Present / (Absent)									
4. Airbill: Airbill / Sticker Present / (Absent)									
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: 3.5 Corrected Temp: 3.5 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									

See COC NF 11/21/05

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

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)	Tri-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-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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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)	Tri-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-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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Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
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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)	Tri-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							

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)	Tri-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-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						

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)	Tri-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)
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	--		

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)	Tri-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 10600 and 10700 MacArthur Boulevard, Oakland, California, (EMCON, March 22, 1996).*

ATTACHMENT D

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

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SUCCESSFUL GEO_WELL CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
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Submittal Title:	**4Q 2005 BP/ARCO 276 GEOWELL**
Submittal Date/Time:	**12/14/2005 11:04:40 AM**
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FILE UPLOADED:	ARCO#0276-Revised_EDF-MOK0961.zip

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

METHOD QA/QC REPORT

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

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	15
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	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%	Y
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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Facility Global ID: T0600100082
Facility Name: ARCO
Submittal Title: 4Q 2005 BP/ARCO 276 EDF
Submittal Type: GW Monitoring Report

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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
4932017028	4Q 2005 BP/ARCO 276 EDF	Q4 2005

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	12/14/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

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

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	15
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	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%	Y
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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