

720-2565



Atlantic Richfield Company
(a BP affiliated company)

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Atlantic Richfield Company
MILLER
Environmental Services

**Re: Fourth Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #0276
10600 MacArthur Boulevard
Oakland, California
URS Project #38486701**

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



December 29, 2004

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

**Re: Fourth Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #0276
10600 MacArthur Boulevard
Oakland, California
URS Project #38486701**

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (RM), a BP-affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2004 Groundwater Monitoring Report* for ARCO Service Station #0276, located at 10600 MacArthur Boulevard, Oakland, California.

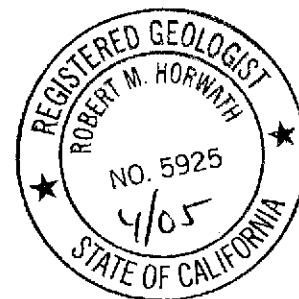
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

Robert Horwath, R.G.
Portfolio Manager



Enclosure: Fourth Quarter 2004 Groundwater Monitoring Report

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

R E P O R T

**FOURTH QUARTER 2004
GROUNDWATER MONITORING
REPORT**

ARCO SERVICE STATION #0276
10600 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Prepared for
RM

December 29, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486701

Date: December 29, 2004
Quarter: 4Q 04

RM QUARTERLY 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
Consultant Project No.: 38486701
Primary Agency: Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (Fourth – 2004):

1. Performed fourth quarter 2004 groundwater monitoring event on November 10, 2004.
2. Prepared and submitted this Fourth Quarter 2004 Groundwater Monitoring Report.
3. Removed ORC sock from MW-2

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2004):

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

SITE SUMMARY:

Current Phase of Project: Groundwater monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: Wells MW-1 through MW-7, MW-8, RW-1 and WGR-3.
Frequency of Groundwater Monitoring: Quarterly (beginning 3Q03)
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 15.90 (MW-2) to 35.70 (MW-6) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.004 feet per foot

DISCUSSION:

Gasoline range organics (GRO) were detected at or above the laboratory reporting limit in five of the nine wells sampled this quarter at concentrations ranging from 69 µg/L (MW-4) to 640 µg/L (MW-6). Methyl tert-butyl ether (MTBE) was detected at or above the laboratory reporting limits in five wells at concentrations ranging from 0.89 µg/L (MW-6) to 480 µg/L (MW-8). Tert-amyl methyl ether was detected at or above the laboratory reporting limit in four wells at concentrations ranging from 1.3 µg/L (WGR-3) to 21 µg/L (MW-8). Ethylbenzene was detected at or above the laboratory reporting limit in one well at a concentration of 1.6 µg/L (MW-2). 1,2 Dichloroethane was detected at or above the laboratory reporting limit in one well at a concentration of 9.8 µg/L (MW-5). Tetrachloroethene (PCE) was detected at or above the laboratory reporting limit in seven wells at concentrations ranging from 4.9 µg/L (MW-1) to 530 µg/L (MW-6). Di-isopropyl ether (DIPE) was detected at or above the laboratory reporting limit in one well at a concentration of 1.1 µg/L (MW-5). No other fuel additives were detected at or above the laboratory reporting limit in any wells sampled this quarter.

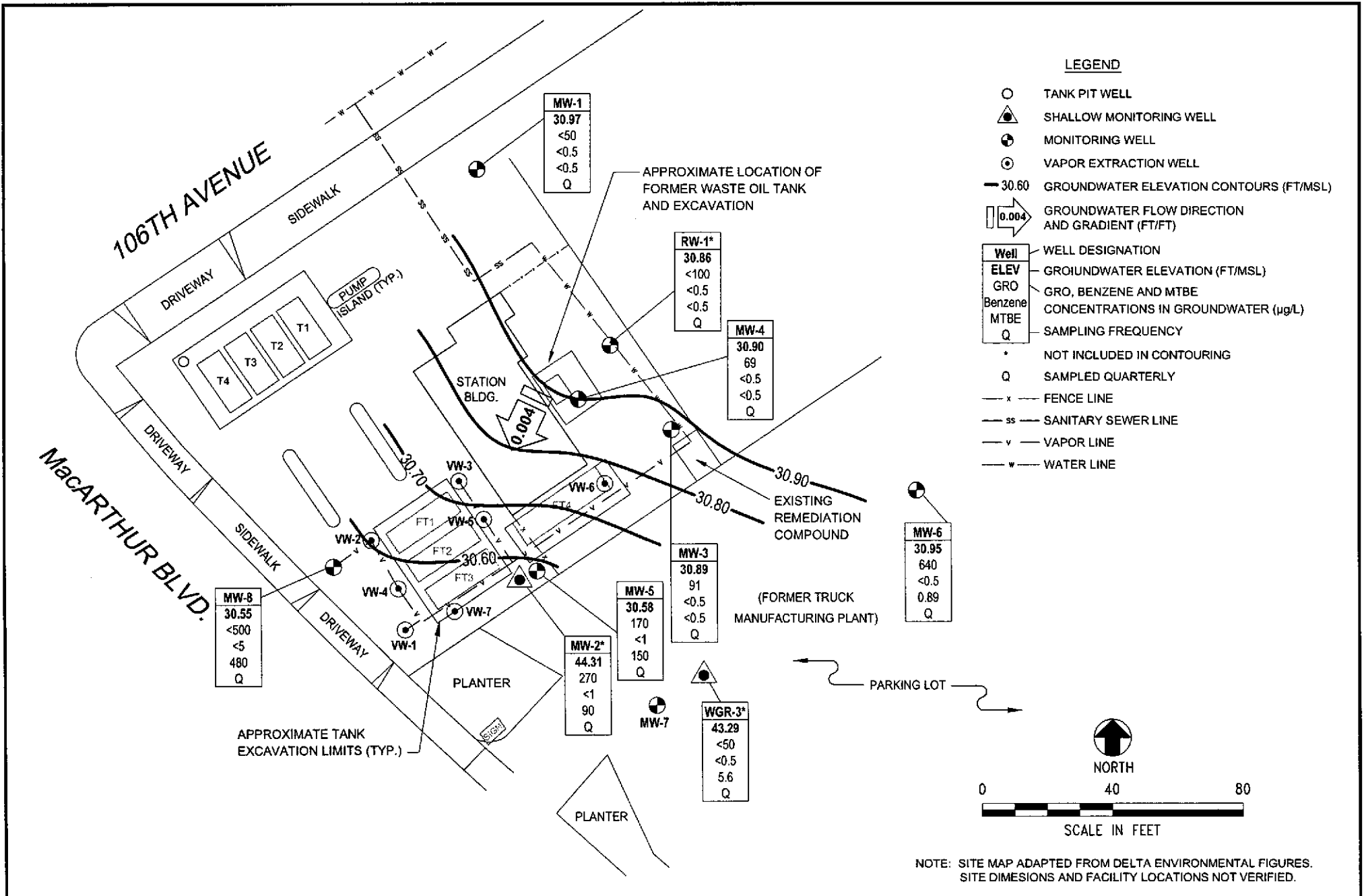
Well MW-7 was not sampled due to a stuck ORC. This has since been fixed and the well will be added back into the quarterly sampling.

Due to consistent low to non-detect concentrations over the last year, we would recommend the following changes

in the groundwater sampling schedules: Quarterly to Annual: MW-1 and RW-1; Quarterly to Semi-Annual: MW-3, MW-4 and WGR-3.

ATTACHMENTS:

- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – November 10, 2004
- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Fuel Additives Analytical Data
- Table 3 - Groundwater Flow Direction and Gradient
- 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 Confirmation



URS	Project No. 38486701	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP	FIGURE 1
	ARCO Service Station #0276 10600 MacArthur Boulevard Oakland, California			Fourth Quarter 2004 (November 10, 2004)

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	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	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	2.2	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
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
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
	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
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

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-4	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
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
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	2.7	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
MW-7	12/17/2000	--		58.22	17.50	--	19.94	38.28	---	---	---	---	---	--	---	---
	12/28/2001	--		58.22	17.50	--	17.29	40.93	---	---	---	---	---	--	---	---
	11/27/2002	--		58.22	17.50	--	21.30	36.92	---	---	---	---	---	--	---	---
	7/22/2003	--		58.22	17.50	--	21.36	36.86	---	---	---	---	---	--	---	---
	11/07/2003	P	d	58.22	--	--	23.76	34.46	3,200	15	<2.5	130	11	53	2.2	6.8
	02/03/2004	P		58.22	--	--	17.74	40.48	53	<0.50	<0.50	<0.50	0.54	32	1.9	6.4
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	---	---	---	---	---	--	---	---

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	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
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
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

Table 1

Groundwater Elevation and Analytical Data

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

ABBREVIATIONS & SYMBOLS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in feet below ground surface
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 feet above mean sea level
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Not Purged
P = Purge
TOC = Top of casing measured in feet above mean sea level
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.

NOTES:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. Total petroleum hydrocarbons as gasoline (TPHg) has been changed to gasoline range organics (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.

Well MW-7 was removed from the monitoring schedule due to a blockage at 30 feet.

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

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	--	
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	--	
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	--	
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	--	
	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	--	

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-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	--		
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	--	
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	--	
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	--	
	11/10/2004	<1,000	<200	480	<5.0	<5.0	21	<5.0	<5.0	--	--	--	--	8.9	--	
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	--	
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	--	

Table 2

Fuel Additives Analytical Data
ARCO Service Station #0276
10600 Macarthur Blvd., Oakland, CA

ABBREVIATIONS & SYMBOLS:

-- = 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 = Tetrachloroethane
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
TCE = Trichloroethane
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.

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.

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

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

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 TeflonTM 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 # H4110-PC1 Date 11/10/04 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 TOB	NPA	
MW-1	2					30.29	38.78	TCC	19'	
MW-2	4					15.90	25.22	|		
MW-3	2					31.00	38.51		22'	
MW-4	2					30.40	47.57		25	
MW-5	4					30.15	46.91			
MW-6	2					35.70	48.39			
MW-8	4					28.41	42.75			
RW-1	6					^R 430.79	48.74			
WGR-3	4					19.98	26.95		↓	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041110-001</u>	Station # <u>Arco 276</u>
Sampler: <u>PC</u>	Date: <u>11/10/04</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>38.78</u>	Depth to Water: <u>30.79</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>AVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: <u>1'</u>	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
--	---

Top of Screen: 19' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

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

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1118</u>	<u>64.2</u>	<u>6.6</u>	<u>1565</u>	<u>-</u>	<u>cloudy</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: _____	
Sampling Time: <u>1118</u>	Sampling Date: <u>11/10/04</u>	
Sample I.D.: <u>MW-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>ARO</u> <u>BTDX</u> MTBE DRO Other: <u>saecoc</u>		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>2.1</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>091110-001</u>	Station # <u>ARCO 276</u>
Sampler: <u>PC</u>	Date: <u>11/10/04</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <input checked="" type="radio"/> 6 8 _____
Total Well Depth: <u>25.22</u>	Depth to Water: <u>15.90</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVP</u> Grade	D.O. Meter (if req'd): <input checked="" type="checkbox"/> HACH

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

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

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

<u>6.1</u>	X	<u>3</u>	=	<u>18.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1448 1452	<u>67.6</u>	<u>6.2</u>	<u>601</u>	<u>6.1</u>	<u>odor</u>
<u>1451</u>	<u>68.6</u>	<u>6.1</u>	<u>575</u>	<u>12.2</u>	
<u>1454</u>	<u>69.4</u>	<u>6.2</u>	<u>589</u>	<u>18.3</u>	

Did well dewater? Yes Gallons actually evacuated: 18.5

Sampling Time: ~~1452~~ ¹⁵⁰⁴ 1504 Sampling Date: 11/10/04

Sample I.D.: MW-2 Laboratory: Pace Sequona Other: _____

Analyzed for: GRO BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.9 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041110-0c1</u>	Station # <u>Arco 276</u>
Sampler: <u>PC</u>	Date: <u>11/10/04</u>
Well I.D.: <u>MU-3</u>	Well Diameter: <u>Ø</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>38.51</u>	Depth to Water: <u>31.00</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVT</u> Grade	D.O. Meter (if req'd): <u>CS</u> HACH

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

Purge Method: Bailer
~~Disposable Bailer~~
~~Positive Air Displacement~~
~~Electric Submersible Extraction Pump~~
 Other: _____

Sampling Method: Bailer
~~Disposable Bailer~~
~~Extraction Port~~
 Other: _____

Top of Screen: 22' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

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

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1232	64.2	6.7	831	-	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u> </u>	
Sampling Time: <u>1232</u>	Sampling Date: <u>11/10/04</u>	
Sample I.D.: <u>MU-3</u>	Laboratory: Pace <u>Security</u> Other: _____	
Analyzed for: <u>GRO</u> <u>BTEX</u> MTBE DRO	Other: <u>500000</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>2.6</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041110-PC1</u>	Station # <u>Arco 276</u>
Sampler: <u>PC</u>	Date: <u>11/10/04</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>47.57</u>	Depth to Water: <u>30.40</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

Top of Screen: 25' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

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

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>1222</u> 1259	<u>63.9</u>	<u>6.6</u>	<u>665</u>	-	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: _____	
Sampling Time: <u>1222</u>	Sampling Date: <u>11/10/04</u>	
Sample I.D.: <u>MW-4</u>	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>GRO</u> <u>BTEX</u> MTBE DRO Other: <u>sediment</u>		
D.O. (if req'd):	Pre-purge: _____ μ g/L	Post-purge: <u>2.4</u> μ g/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041110-PC1</u>	Station # <u>Arco 276</u>
Sampler: <u>PC</u>	Date: <u>11/10/04</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>46.91</u>	Depth to Water: <u>30.15</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>DVE</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

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

<u>10.9</u>	x	<u>3</u>	=	<u>32.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1355</u>	<u>66.2</u>	<u>6.5</u>	<u>797</u>	<u>11</u>	<u>clear</u>
<u>1358</u>	<u>66.4</u>	<u>6.3</u>	<u>827</u>	<u>22</u>	↓
<u>1401</u>	<u>66.5</u>	<u>6.3</u>	<u>858</u>	<u>33</u>	

Did well dewater? Yes <u>NO</u>	Gallons actually evacuated: <u>33</u>	
Sampling Time: <u>1412</u>	Sampling Date: <u>11/10/04</u>	
Sample I.D.: <u>MW-5</u>	Laboratory: Pace <u>Sequentia</u> Other: _____	
Analyzed for: <u>GRX</u> <u>DPX</u> MTBE DRO	Other: <u>see cpc</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>1.0</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>091110-PC1</u>	Station # <u>Arco 276</u>
Sampler: <u>Pc</u>	Date: <u>11/10/04</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>6</u> 3 4 6 8 _____
Total Well Depth: <u>48.39</u>	Depth to Water: <u>35.70</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

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

<u>2</u>	X	<u>3</u>	=	<u>6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>1318</u>	<u>65.1</u>	<u>6.6</u>	<u>1458</u>	<u>2</u>	<u>brown</u>
<u>1323</u>	<u>65.2</u>	<u>6.8</u>	<u>1630</u>	<u>4</u>	↓
<u>1329</u>	<u>65.0</u>	<u>6.8</u>	<u>1643</u>	<u>6</u>	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: <u>6</u>
Sampling Time: <u>1340</u>	Sampling Date: <u>11/10/04</u>
Sample I.D.: <u>MW-6</u>	Laboratory: Pace <u>Sequoia</u> Other _____

Analyzed for: <u>TRO</u> <u>BTEX</u> MTBE DRO Other: <u>see coc</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: <u>2.6</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041110-PC1</u>	Station # <u>Arco 276</u>
Sampler: <u>PC</u>	Date: <u>11/10/04</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>42.75</u>	Depth to Water: <u>28.41</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): <u>PSI</u> HACH

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

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

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

<u>9.3</u>	x	<u>3</u>	=	<u>27.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1422	67.6	6.3	757	9.5	clear
1425	68.6	6.3	742	19	↓
1428	68.9	6.3	759	28.5	

Did well dewater? Yes <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>28.5</u>	
Sampling Time: <u>1438</u>	Sampling Date: <u>11/10/04</u>	
Sample I.D.: <u>MW-8</u>	Laboratory: Pace <u>Sequetra</u> Other _____	
Analyzed for: <u>GRO</u> BTEX MTBE DRO Other: <u>see COC</u>		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>3.4</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041110-PC1</u>	Station # <u>Arco 276</u>
Sampler: <u>pc</u>	Date: <u>11/10/04</u>
Well I.D.: <u>RW-1</u>	Well Diameter: 2 3 4 <u>6</u> 8 _____
Total Well Depth: <u>48.74</u>	Depth to Water: <u>30.79</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>VC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

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

<u>26.4</u>	x	<u>3</u>	=	<u>79.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1159	63.5	6.9	1537	26.5	clear
1205	64.9	6.8	1348	53	↓
1210	64.6	6.9	1439	79.5	

Did well dewater? Yes No Gallons actually evacuated: 80

Sampling Time: 1210 Sampling Date: 11/10/04

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

Analyzed for: ARO BTEX MTBE DRO Other: see coc

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>5.7</u>	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041110-PC1</u>	Station # <u>Arco 276</u>
Sampler: <u>PC</u>	Date: <u>11/10/04</u>
Well I.D.: <u>WGR-3</u>	Well Diameter: 2 3 <u>Ø</u> 6 8 <u> </u>
Total Well Depth: <u>26.95</u>	Depth to Water: <u>19.98</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>CS</u> HACH

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

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<input type="checkbox"/> Disposable Bailer	<input checked="" type="checkbox"/> Disposable Bailer
<input type="checkbox"/> Positive Air Displacement	<input type="checkbox"/> Extraction Port
<input checked="" type="checkbox"/> Electric Submersible Extraction Pump	Other: _____
Other: _____	80% recharge ⇒ 21.37

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

<u>4.5</u>	x	<u>3</u>	=	<u>13.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>1250</u>	<u>67.3</u>	<u>6.2</u>	<u>595</u>	<u>4.5</u>	<u>clear</u>
<u>1252</u>	<u>68.3</u>	<u>6.1</u>	<u>573</u>	<u>9</u>	↓
<u>1255</u>	<u>68.6</u>	<u>6.3</u>	<u>565</u>	<u>13.5</u>	

Did well dewater? Yes <input checked="" type="checkbox"/> NO	Gallons actually evacuated: <u>13.5</u>	
Sampling Time: <u>1305</u>	Sampling Date: <u>11/10/04</u>	
Sample I.D.: <u>WGR3</u>	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>PRO</u> BTEX MTBE DRO Other: <u>see CAC</u>		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>0.3</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

BP GEM OIL COMPANY TYPE A BILL OF LADING

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

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

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

Arco 276

Station #

10600 MacArthur Blvd, Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

179.5

added equip.

rinse water 12.5

any other

adjustments 4

TOTAL GALS.

RECOVERED 192

loaded onto

BTS vehicle # 52

BTS event #

041110-PC1

time

1200

date

11 / 10 / 04

signature port cili

REC'D AT

time

date

BTS

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.



30 November, 2004

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

RE: ARCO #0276, Oakland, CA
Work Order: MNK0466

Enclosed are the results of analyses for samples received by the laboratory on 11/11/04 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210



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

Project: ARCO #0276, Oakland, CA
Project Number: INTRIM-50353
Project Manager: Scott Robinson

MNK0466
Reported:
11/30/04 09:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNK0466-01	Water	11/10/04 11:18	11/11/04 16:45
MW-2	MNK0466-02	Water	11/10/04 15:04	11/11/04 16:45
MW-3	MNK0466-03	Water	11/10/04 12:32	11/11/04 16:45
MW-4	MNK0466-04	Water	11/10/04 12:22	11/11/04 16:45
MW-5	MNK0466-05	Water	11/10/04 14:12	11/11/04 16:45
MW-6	MNK0466-06	Water	11/10/04 13:40	11/11/04 16:45
MW-8	MNK0466-07	Water	11/10/04 14:38	11/11/04 16:45
RW-1	MNK0466-08	Water	11/10/04 12:18	11/11/04 16:45
WGR-3	MNK0466-09	Water	11/10/04 13:05	11/11/04 16:45
TB-27611102004	MNK0466-10	Water	11/10/04 00:00	11/11/04 16:45

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

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

Project: ARCO #0276, Oakland, CA
Project Number: INTRIM-50353
Project Manager: Scott Robinson

MNK0466
Reported:
11/30/04 09:02

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MNK0466-01) Water Sampled: 11/10/04 11:18 Received: 11/11/04 16:45									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4K16014	11/16/04	11/16/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %		78-129	"	"	"	"	
MW-2 (MNK0466-02) Water Sampled: 11/10/04 15:04 Received: 11/11/04 16:45									
tert-Amyl methyl ether	19	1.0	ug/l	2	4K16014	11/16/04	11/16/04	EPA 8260B	
Benzene	ND	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	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	1.6	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	90	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	270	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95 %		78-129	"	"	"	"	

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

Project: ARCO #0276, Oakland, CA
Project Number: INTRIM-50353
Project Manager: Scott Robinson

MNK0466
Reported:
11/30/04 09:02

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-3 (MNK0466-03) Water Sampled: 11/10/04 12:32 Received: 11/11/04 16:45										
tert-Amyl methyl ether	ND	0.50		ug/l	1	4K16014	11/16/04	11/16/04	EPA 8260B	
Benzene	ND	0.50		"	"	"	"	"	"	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
Ethanol	ND	100		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	91	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>101 %</i>		<i>78-129</i>		"	"	"	"	
MW-4 (MNK0466-04) Water Sampled: 11/10/04 12:22 Received: 11/11/04 16:45										
tert-Amyl methyl ether	ND	0.50		ug/l	1	4K16014	11/16/04	11/16/04	EPA 8260B	
Benzene	ND	0.50		"	"	"	"	"	"	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
Ethanol	ND	100		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	69	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>97 %</i>		<i>78-129</i>		"	"	"	"	

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

Project: ARCO #0276, Oakland, CA
Project Number: INTRIM-50353
Project Manager: Scott Robinson

MNK0466
Reported:
11/30/04 09:02

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MNK0466-05) Water Sampled: 11/10/04 14:12 Received: 11/11/04 16:45									
tert-Amyl methyl ether	9.5	1.0	ug/l	2	4K16014	11/16/04	11/16/04	EPA 8260B	
Benzene	ND	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
Di-isopropyl ether	1.1	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	9.8	1.0	"	"	"	"	"	"	
Ethanol	ND	200	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	150	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	170	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96 %		78-129	"	"	"	"	
MW-6 (MNK0466-06) Water Sampled: 11/10/04 13:40 Received: 11/11/04 16:45									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4K16014	11/16/04	11/16/04	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	0.89	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	640	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %		78-129	"	"	"	"	

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

 Project: ARCO #0276, Oakland, CA
 Project Number: INTRIM-50353
 Project Manager: Scott Robinson

 MNK0466
 Reported:
 11/30/04 09:02

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MNK0466-07) Water Sampled: 11/10/04 14:38 Received: 11/11/04 16:45									
tert-Amyl methyl ether	21	5.0	ug/l	10	4K16014	11/16/04	11/16/04	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	480	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	78-129		"	"	"	"	
RW-1 (MNK0466-08) Water Sampled: 11/10/04 12:18 Received: 11/11/04 16:45									
Gasoline Range Organics (C4-C12)	ND	100	ug/l	2	4K16014	11/16/04	11/16/04	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	78-129		"	"	"	"	
RW-1 (MNK0466-08RE1) Water Sampled: 11/10/04 12:18 Received: 11/11/04 16:45									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4K17005	11/17/04	11/17/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83 %	78-129		"	"	"	"	

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

Project: ARCO #0276, Oakland, CA
Project Number: INTRIM-50353
Project Manager: Scott Robinson

MNK0466
Reported:
11/30/04 09:02

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WGR-3 (MNK0466-09) Water Sampled: 11/10/04 13:05 Received: 11/11/04 16:45									
tert-Amyl methyl ether	1.3	0.50	ug/l	1	4K16014	11/16/04	11/16/04	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	5.6	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %		78-129	"	"	"	"	

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 11/30/04 09:02

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-1 (MNK0466-01) Water Sampled: 11/10/04 11:18 Received: 11/11/04 16:45									
Tetrachloroethene	4.9	0.50	ug/l	1	4K16014	11/16/04	11/16/04	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		97 %	73-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	78-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	89-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94 %	71-117		"	"	"	"	
MW-2 (MNK0466-02) Water Sampled: 11/10/04 15:04 Received: 11/11/04 16:45 BH									
Tetrachloroethene	ND	1.0	ug/l	2	4K16014	11/16/04	11/16/04	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		93 %	73-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95 %	78-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	89-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	71-117		"	"	"	"	
MW-3 (MNK0466-03) Water Sampled: 11/10/04 12:32 Received: 11/11/04 16:45									
Tetrachloroethene	99	0.50	ug/l	1	4K16014	11/16/04	11/16/04	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		93 %	73-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	78-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	89-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91 %	71-117		"	"	"	"	
MW-4 (MNK0466-04) Water Sampled: 11/10/04 12:22 Received: 11/11/04 16:45									
Tetrachloroethene	78	0.50	ug/l	1	4K16014	11/16/04	11/16/04	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		100 %	73-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97 %	78-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99 %	89-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95 %	71-117		"	"	"	"	

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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-5 (MNK0466-05) Water Sampled: 11/10/04 14:12 Received: 11/11/04 16:45									
Tetrachloroethene	50	1.0	ug/l	2	4K16014	11/16/04	11/16/04	EPA 8260B	
Surrogate: Dibromofluoromethane		89 %	73-130		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96 %	78-129		"	"	"	"	
Surrogate: Toluene-d8		98 %	89-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	71-117		"	"	"	"	
MW-6 (MNK0466-06) Water Sampled: 11/10/04 13:40 Received: 11/11/04 16:45									
Tetrachloroethene	530	5.0	ug/l	10	4K16014	11/16/04	11/17/04	EPA 8260B	
Surrogate: Dibromofluoromethane		90 %	73-130		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96 %	78-129		"	"	"	"	
Surrogate: Toluene-d8		100 %	89-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	71-117		"	"	"	"	
MW-8 (MNK0466-07) Water Sampled: 11/10/04 14:38 Received: 11/11/04 16:45									
Tetrachloroethene	8.9	5.0	ug/l	10	4K17005	11/17/04	11/17/04	EPA 8260B	
Surrogate: Dibromofluoromethane		89 %	73-130		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		80 %	78-129		"	"	"	"	
Surrogate: Toluene-d8		99 %	89-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	71-117		"	"	"	"	
RW-1 (MNK0466-08) Water Sampled: 11/10/04 12:18 Received: 11/11/04 16:45									
Tetrachloroethene	5.2	0.50	ug/l	1	4K17005	11/17/04	11/17/04	EPA 8260B	
Surrogate: Dibromofluoromethane		88 %	73-130		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		83 %	78-129		"	"	"	"	
Surrogate: Toluene-d8		98 %	89-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95 %	71-117		"	"	"	"	

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**EPA 8010 list Volatile Organic Compounds by EPA 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WGR-3 (MNK0466-09) Water Sampled: 11/10/04 13:05 Received: 11/11/04 16:45										
Tetrachloroethene	ND	0.50		ug/l	1	4K17005	11/17/04	11/17/04	EPA 8260B	
Surrogate: Dibromofluoromethane		91 %		73-130		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		84 %		78-129		"	"	"	"	
Surrogate: Toluene-d8		99 %		89-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97 %		71-117		"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K16014 - EPA 5030B P/T / EPA 8260B
Blank (4K16014-BLK1)

Prepared & Analyzed: 11/16/04

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.94		"	5.00		99	78-129			

Laboratory Control Sample (4K16014-BS1)

Prepared & Analyzed: 11/16/04

tert-Amyl methyl ether	10.6	0.50	ug/l	10.0		106	82-140			
Benzene	10.6	0.50	"	10.0		106	69-124			
tert-Butyl alcohol	50.5	20	"	50.0		101	56-131			
Di-isopropyl ether	11.4	0.50	"	10.0		114	76-130			
1,2-Dibromoethane (EDB)	10.0	0.50	"	10.0		100	77-132			
1,2-Dichloroethane	10.5	0.50	"	10.0		105	77-136			
Ethanol	190	100	"	200		95	31-143			
Ethyl tert-butyl ether	11.5	0.50	"	10.0		115	81-121			
Ethylbenzene	11.0	0.50	"	10.0		110	84-132			
Methyl tert-butyl ether	11.5	0.50	"	10.0		115	63-137			
Toluene	10.6	0.50	"	10.0		106	78-129			
Xylenes (total)	34.1	0.50	"	30.0		114	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.76		"	5.00		95	78-129			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K16014 - EPA 5030B P/T / EPA 8260B
Laboratory Control Sample (4K16014-BS2)

Prepared & Analyzed: 11/16/04

Benzene	5.27	0.50	ug/l	6.40		82	69-124			
Ethylbenzene	8.46	0.50	"	7.52		112	84-132			
Methyl tert-butyl ether	9.56	0.50	"	9.92		96	63-137			
Toluene	33.1	0.50	"	31.9		104	78-129			
Xylenes (total)	41.8	0.50	"	36.6		114	83-137			
Gasoline Range Organics (C4-C12)	398	50	"	440		90	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.92</i>		<i>"</i>	<i>5.00</i>		<i>98</i>	<i>78-129</i>			

Laboratory Control Sample Dup (4K16014-BSD1)

Prepared & Analyzed: 11/16/04

tert-Amyl methyl ether	9.83	0.50	ug/l	10.0		98	82-140	8	20	
Benzene	10.4	0.50	"	10.0		104	69-124	2	20	
tert-Butyl alcohol	56.1	20	"	50.0		112	56-131	11	20	
Di-isopropyl ether	11.0	0.50	"	10.0		110	76-130	4	20	
1,2-Dibromoethane (EDB)	9.52	0.50	"	10.0		95	77-132	5	20	
1,2-Dichloroethane	9.89	0.50	"	10.0		99	77-136	6	20	
Ethanol	211	100	"	200		106	31-143	10	20	
Ethyl tert-butyl ether	11.2	0.50	"	10.0		112	81-121	3	20	
Ethylbenzene	11.2	0.50	"	10.0		112	84-132	2	20	
Methyl tert-butyl ether	11.1	0.50	"	10.0		111	63-137	4	20	
Toluene	10.6	0.50	"	10.0		106	78-129	0	20	
Xylenes (total)	34.2	0.50	"	30.0		114	83-137	0.3	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.41</i>		<i>"</i>	<i>5.00</i>		<i>88</i>	<i>78-129</i>			

Laboratory Control Sample Dup (4K16014-BSD2)

Prepared & Analyzed: 11/16/04

Benzene	5.23	0.50	ug/l	6.40		82	69-124	0.8	20	
Ethylbenzene	8.31	0.50	"	7.52		111	84-132	2	20	
Methyl tert-butyl ether	9.39	0.50	"	9.92		95	63-137	2	20	
Toluene	33.6	0.50	"	31.9		105	78-129	1	20	
Xylenes (total)	41.8	0.50	"	36.6		114	83-137	0	20	
Gasoline Range Organics (C4-C12)	393	50	"	440		89	70-124	1	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.88</i>		<i>"</i>	<i>5.00</i>		<i>98</i>	<i>78-129</i>			

Sequoia Analytical - Morgan Hill

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

URS Corporation [Arco]
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 Project: ARCO #0276, Oakland, CA
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 Project Manager: Scott Robinson

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 11/30/04 09:02

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K17005 - EPA 5030B P/T / EPA 8260B
Blank (4K17005-BLK1)

Prepared & Analyzed: 11/17/04

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	"							

Surrogate: 1,2-Dichloroethane-d4 4.62 " 5.00 92 78-129

Laboratory Control Sample (4K17005-BS1)

Prepared & Analyzed: 11/17/04

tert-Amyl methyl ether	10.1	0.50	ug/l	10.0		101	82-140			
Benzene	10.2	0.50	"	10.0		102	69-124			
tert-Butyl alcohol	59.8	20	"	50.0		120	56-131			
Di-isopropyl ether	10.9	0.50	"	10.0		109	76-130			
1,2-Dibromoethane (EDB)	9.72	0.50	"	10.0		97	77-132			
1,2-Dichloroethane	9.73	0.50	"	10.0		97	77-136			
Ethanol	219	100	"	200		110	31-143			
Ethyl tert-butyl ether	11.4	0.50	"	10.0		114	81-121			
Ethylbenzene	10.7	0.50	"	10.0		107	84-132			
Methyl tert-butyl ether	11.3	0.50	"	10.0		113	63-137			
Toluene	10.3	0.50	"	10.0		103	78-129			
Xylenes (total)	33.4	0.50	"	30.0		111	83-137			

Surrogate: 1,2-Dichloroethane-d4 4.71 " 5.00 94 78-129

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 11/30/04 09:02

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K17005 - EPA 5030B P/T / EPA 8260B
Laboratory Control Sample Dup (4K17005-BSD1)

Prepared & Analyzed: 11/17/04

tert-Amyl methyl ether	9.94	0.50	ug/l	10.0		99	82-140	2	20	
Benzene	10.1	0.50	"	10.0		101	69-124	1	20	
tert-Butyl alcohol	59.1	20	"	50.0		118	56-131	1	20	
Di-isopropyl ether	10.7	0.50	"	10.0		107	76-130	2	20	
1,2-Dibromoethane (EDB)	9.43	0.50	"	10.0		94	77-132	3	20	
1,2-Dichloroethane	9.32	0.50	"	10.0		93	77-136	4	20	
Ethanol	210	100	"	200		105	31-143	4	20	
Ethyl tert-butyl ether	11.0	0.50	"	10.0		110	81-121	4	20	
Ethylbenzene	10.4	0.50	"	10.0		104	84-132	3	20	
Methyl tert-butyl ether	10.9	0.50	"	10.0		109	63-137	4	20	
Toluene	10.4	0.50	"	10.0		104	78-129	1	20	
Xylenes (total)	32.3	0.50	"	30.0		108	83-137	3	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.44</i>		<i>"</i>	<i>5.00</i>		<i>89</i>	<i>78-129</i>			

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**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
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Batch 4K16014 - EPA 5030B P/T / EPA 8260B
Blank (4K16014-BLK1)

Prepared & Analyzed: 11/16/04

Tetrachloroethene	ND	0.50	ug/l							
Surrogate: Dibromofluoromethane	4.82		"	5.00		96	73-130			
Surrogate: 1,2-Dichloroethane-d4	4.94		"	5.00		99	78-129			
Surrogate: Toluene-d8	5.08		"	5.00		102	89-116			
Surrogate: 4-Bromofluorobenzene	4.97		"	5.00		99	71-117			

Laboratory Control Sample (4K16014-BS1)

Prepared & Analyzed: 11/16/04

Tetrachloroethene	11.4	0.50	ug/l	10.0		114	82-127			
Surrogate: Dibromofluoromethane	4.98		"	5.00		100	73-130			
Surrogate: 1,2-Dichloroethane-d4	4.76		"	5.00		95	78-129			
Surrogate: Toluene-d8	4.98		"	5.00		100	89-116			
Surrogate: 4-Bromofluorobenzene	5.05		"	5.00		101	71-117			

Laboratory Control Sample Dup (4K16014-BSD1)

Prepared & Analyzed: 11/16/04

Tetrachloroethene	11.2	0.50	ug/l	10.0		112	82-127	2	20	
Surrogate: Dibromofluoromethane	4.66		"	5.00		93	73-130			
Surrogate: 1,2-Dichloroethane-d4	4.41		"	5.00		88	78-129			
Surrogate: Toluene-d8	4.91		"	5.00		98	89-116			
Surrogate: 4-Bromofluorobenzene	4.87		"	5.00		97	71-117			

Batch 4K17005 - EPA 5030B P/T / EPA 8260B
Blank (4K17005-BLK1)

Prepared & Analyzed: 11/17/04

Tetrachloroethene	ND	0.50	ug/l							
Surrogate: Dibromofluoromethane	4.74		"	5.00		95	73-130			
Surrogate: 1,2-Dichloroethane-d4	4.62		"	5.00		92	78-129			
Surrogate: Toluene-d8	4.84		"	5.00		97	89-116			
Surrogate: 4-Bromofluorobenzene	4.87		"	5.00		97	71-117			

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Oakland CA, 94612

Project: ARCO #0276, Oakland, CA
Project Number: INTRJM-50353
Project Manager: Scott Robinson

MNK0466
Reported:
11/30/04 09:02

**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
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Batch 4K17005 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (4K17005-BS1)

Prepared & Analyzed: 11/17/04

Tetrachloroethene	11.1	0.50	ug/l	10.0		111	82-127			
Surrogate: Dibromofluoromethane	4.68		"	5.00		94	73-130			
Surrogate: 1,2-Dichloroethane-d4	4.71		"	5.00		94	78-129			
Surrogate: Toluene-d8	5.02		"	5.00		100	89-116			
Surrogate: 4-Bromofluorobenzene	5.04		"	5.00		101	71-117			

Laboratory Control Sample Dup (4K17005-BSD1)

Prepared & Analyzed: 11/17/04

Tetrachloroethene	10.9	0.50	ug/l	10.0		109	82-127	2	20	
Surrogate: Dibromofluoromethane	4.85		"	5.00		97	73-130			
Surrogate: 1,2-Dichloroethane-d4	4.44		"	5.00		89	78-129			
Surrogate: Toluene-d8	5.03		"	5.00		101	89-116			
Surrogate: 4-Bromofluorobenzene	4.90		"	5.00		98	71-117			

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

Project: ARCO #0276, Oakland, CA
Project Number: INTRIM-50353
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Notes and Definitions

BH Reporting limits raised due to high level of non-target analytes
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 276 GWM
 BP BU/GEM CO Portfolio Retail
 BP Laboratory Contract Number: Atlantic Richfield Company

MRK 0966

Date: 11/10/04

Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: <u>1050</u>	Temp: <u>65°F</u>
Off-site Time: <u>1515</u>	Temp: <u>65°F</u>
Sky Conditions: <u>cloudy</u>	
Meteorological Events: <u>none</u>	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: <u>ARCO 276</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>10600 MacArthur Blvd, OAKLAND, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 276</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.cosper@URSCorp.com</u>
Lab PM <u>Lisa Race</u>	California Global ID #: <u>T0600100082</u>	Consultant/Contractor Project No.: <u>J5-00000276.01 00427</u>
Tele/Fax: <u>408-792-8156/ 408-782-6308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Report Type & QC Level: <u>I Send EDF Reports</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/GEM Account No.:	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50353</u>

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis							Sample Point Lat/Long and Comments	
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	GRO/BTEX (8260)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DIPE, IBA (8260)	1,2-DCA & EDB (8260)		Ethanol (8260)	PCE (8016)
1	MU-1	1118	X				01	6					X		X	X	X	X		
2	MU-2	1204	X				02	6					X		X	X	X	X		
3	MU-3	1232	X				03	6					X		X	X	X	X		
4	MU-4	1222	X				04	6					X		X	X	X	X		
5	MU-5	1412	X				05	6					X		X	X	X	X		
6	MU-6	1340	X				06	6					X		X	X	X	X		
7	MU-8	1438	X				07	6					X		X	X	X	X		
8	RU-1	1218	X				08	6					X		X	X	X	X		
9	WGR-3	1305	X				09	6					X		X	X	X	X		
10	TB-2761162004		X				10	2												on hold

Sampler's Name: <u>P. Cornish</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>11/10/04</u>	Time: <u>1555</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/10/04</u>	Time: <u>1645</u>
Sampler's Company: <u>Blaine Tech</u>						
Shipment Date:						
Shipment Method:						
Tracking No:						

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

Blank in Place Yes A No Temperature Blank Yes A No Cooler Temperature on Receipt P/C Trip Blank Yes A No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ARC 0276
 REC. BY (PRINT): JD
 WORKORDER: MPK644

DATE REC'D AT LAB: 11/11/04
 TIME REC'D AT LAB: 1:05
 DATE LOGGED IN: 11/12/04

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

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	PH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <u>Present / Absent</u> <u>Intact / Broken*</u>	01	A-E	MW-1	VOA (6)	Fed	-	W	11/11/04	
2. Chain-of-Custody <u>Present / Absent*</u>	02		↓	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: <u>Present / Absent</u>	03		↓	↓	↓	↓	↓	↓	
4. Airbill: <u>Airbill / Sticker</u> <u>Present / Absent</u>	04		↓	↓	↓	↓	↓	↓	
5. Airbill #:	05		↓	↓	↓	↓	↓	↓	
6. Sample Labels: <u>Present / Absent</u>	06		↓	↓	↓	↓	↓	↓	
7. Sample IDs: <u>Listed / Not Listed</u> <u>on Chain-of-Custody</u>	07	AB	RB-1 WGR-3 TB-25 11103004	↓	(2)	↓	↓	↓	
8. Sample Condition: <u>Intact / Broken*</u> <u>Leaking*</u>									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <u>Yes / No*</u>									
10. Sample received within hold time? <u>Yes / No*</u>									
11. Adequate sample volume received? <u>Yes / No*</u>									
12. Proper Preservatives used? <u>Yes / No*</u>									
13. Trip Blank / Temp Blank Received? *(circle which, if yes) <u>Yes / No*</u>									
14. Temp Rec. at Lab: <u>2.4</u> Is temp 4 +/- 2°C? <u>Yes / No**</u> <small>(optance range for samples requiring thermal pres.) option (if any): METALS / DFF ON ICE problem COC</small>									

*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) (ug/L)	Tetra-chloro-ethene (TCE) (ug/L)	trans-1,2-Dichloro-ethene (ug/L)	cis-1,2-Dichloro-ethene (ug/L)	Freon 12 (ug/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	Δ		Δ			
MW-1	06-05-95	55.92	25.71	ND	30.21	06-05-95	210	Δ		Δ			
MW-1	08-29-95	55.92	28.44	ND	27.48	08-29-95	130	Δ		Δ			
MW-1	11-16-95	55.92	30.85	ND	25.07	11-16-95	45	Δ		Δ			
MW-1	02-28-96	55.92	24.99	ND	30.93	02-28-96	97	Δ		Δ			
MW-1	05-28-96	55.92	24.92	ND	31.00	05-28-96	160	Δ		Δ			
MW-1	08-19-96	55.92	28.04	ND	27.88	08-19-96	77	Δ		Δ			
MW-1	11-21-96	55.92	30.19	ND	25.73	11-21-96	30	Δ		Δ			
MW-1	03-26-97	55.92	24.90	ND	31.02	03-26-97	66	Δ		Δ			
MW-1	05-20-97	55.92	26.99	ND	28.93	05-20-97	36	Δ		Δ			
MW-1	08-18-97	55.92	29.98	ND	25.94	08-18-97	11	Δ		Δ			
MW-1	11-17-97	55.92	31.72	ND	24.20	11-17-97		Δ		Δ			
MW-1	12-02-99	55.92	Not surveyed			12-02-99	Not analyzed for Halogenated Volatile Organic Compounds Not surveyed: well was inaccessible						
MW-2	03-10-95	55.10	13.98	ND	41.12	03-10-95	Δ	Δ		Δ			
MW-2	06-05-95	55.10	15.65	ND	39.45	06-05-95	Δ	Δ		Δ			
MW-2	08-29-95	55.10	17.14	ND	37.96	08-29-95	Δ	Δ		Δ			
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	Δ	Δ		Δ			
MW-2	05-28-96	55.10	15.23	ND	39.87	05-28-96	Δ	Δ		Δ			
MW-2	08-19-96	55.10	16.84	ND	38.26	08-19-96	Δ	Δ		Δ			
MW-2	11-21-96	55.10	15.44	ND	39.66	11-21-96	Δ	Δ		Δ			
MW-2	03-26-97	55.10	15.73	ND	39.37	03-26-97	Δ	Δ		Δ			
MW-2	05-20-97	55.10	16.07	ND	39.03	05-20-97	Δ	Δ		Δ			
MW-2	08-18-97	55.10	17.28	ND	37.82	08-18-97	Δ	Δ		Δ			
MW-2	11-17-97	55.10	16.75	ND	38.35	11-17-97	Δ	Δ		Δ			
MW-2	12-02-99	55.10	Not surveyed			12-02-99	Not analyzed for Halogenated Volatile Organic Compounds Not sampled: not on sampling schedule						

OAKS:ARCO0276QTRLY0276q492.xlsuhrl
 Reconstructed 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	--	--		
MW-3	02-28-96	56.55	25.32	ND	31.23	02-28-96	1100	<10	--	<20	<20	--		
MW-3	05-28-96	56.55	25.46	ND	31.09	05-28-96	1700	<20	<10	<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	25.79	11-21-96	710	<20	<20	<20	--	--		
MW-3	03-26-97	56.55	25.36	ND	31.19	03-26-97	710	<40 [^]	<20 [^]	<20 [^]	--	--		
MW-3	05-20-97	56.55	27.61	ND	28.94	05-20-97	800	<25 [^]	<40 [^]	<40 [^]	--	--		
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	--	--		
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 [^]	<20 [^]	<20 [^]	--	--		
MW-4	05-20-97	55.98	27.03	ND	28.95	05-20-97	1600	<50 [^]	<40 [^]	<40 [^]	--	--		
MW-4	08-18-97	55.98	30.10	ND	25.88	08-18-97	600	<125 [^]	<125 [^]	<50 [^]	--	--		
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	

OAKS:ARCO0276QTRLY0276q499.xls:tab:1
 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	Date	TOC Elevation	Depth to Water	FP Thickness	Groundwater Elevation	Date	Tetra- chloro- ethene (TCE)	Tetra- chloro- ethene (TCE)	trans- 1,2- Dichloro- ethene	cis-1,2- Dichloro- ethene	Free 12	Dissolved Oxygen	Purged/ Not Purged
Number	Gauged	(ft-MSL)	(feet)	(ft-MSL)	(ft-MSL)	Sampled	µg/L	µg/L	µg/L	µg/L	µg/L	(mg/l)	(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	..	..	..
MW-5	02-28-96	55.43	24.07	ND	31.36	02-28-96	1100	<10	<10	<10	<5	..	..
MW-5	05-28-96	55.43	24.42	ND	31.01	05-28-96	360	<5	<5	<10	..	..	..
MW-5	08-19-96	55.43	27.82	ND	27.61	08-21-96	150	<5	<5	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	<10	..	..	..
MW-5	08-18-97	55.43	NR	ND	NR	08-18-97	..	..	..	<5	..	..	..
MW-5	11-17-97	55.43	Not surveyed	..	..	11-17-97	..	..	..	..	..	..	..
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	..	..	..
MW-6	02-28-96	61.21	30.18	ND	31.03	02-28-96	960	<20	<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	<20	..	..	..
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	..	..	..	..	..	..	..
MW-6	12-02-99	61.21	35.55	ND	25.66	12-02-99	..	..	..	..	..	..	..

OAKS:\ARCO\0276\QTRLY\0276q496.xls:1
 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	Date	TOC Elevation	Depth to Water	FP Thickness	Groundwater Elevation	Date	Tetra- chloro- ethene (PCE)	Tetra- chloro- ethene (TCB)	trans- 1,2- Dichloro- ethene	cis-1,2- Dichloro- ethene	Freon 12	Dissolved Oxygen	Purged/ Not Purge
Number	Gauged	(ft-MSL)	(feet)	(ft-MSL)	(ft-MSL)	Sampled	µg/L	µg/L	µg/L	µg/L	µg/L	(mg/l)	(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	<10	<10	<10	<10	--	--	--
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	<10^	<10^	<10^	<10^	--	--	--
MW-7	12-02-99	58.22	20.92	ND	37.30	12-02-99	Not analyzed for Halogenated Volatile Organic Compounds 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	--	--	--
MW-8	02-28-96	53.65	22.16	ND	31.49	02-28-96	3	<1	<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	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-8	11-17-97	53.65	29.16	ND	24.49	11-17-97	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-8	12-02-99	53.65	28.07	ND	25.58	12-02-99	Not analyzed for Halogenated Volatile Organic Compounds Not sampled: not on sampling schedule						

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Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present^{1,2}

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well	Date	TOC Elevation	Depth to Water	FP Thickness	Groundwater Elevation	Date	Tetra-chloro-ethene (PCE)	Tetra-chloro-ethene (TCE)	trans-1,2-Dichloro-ethene	cis-1,2-Dichloro-ethene	Freon 12	Dissolved Oxygen	Purged/Not Purged
Number	Gauged	(ft-MSL)	(feet)	(ft-MSL)	(ft-MSL)	Sampled	µg/L	µg/L	µg/L	µg/L	µg/L	(mg/l)	(PNP)
RW-1	03-10-95	56.32	26.48	Shoen	29.84	03-10-95	260	Δ	..	Δ	..	..	..
RW-1	06-05-95	56.32	26.20	ND	30.12	06-05-95	59	ΔΔ	..	ΔΔ	..	..	..
RW-1	08-29-95	56.32	28.98	ND	27.34	08-29-95	570	ΔΔ	..	ΔΔ	..	..	..
RW-1	11-16-95	56.32	31.34	ND	24.98	11-16-95	140	ΔΔ	..	ΔΔ	..	..	..
RW-1	02-28-96	56.32	25.12	ND	31.20	02-28-96	6	ΔΔ	Δ	ΔΔ	..	..	..
RW-1	05-28-96	56.32	25.26	ND	31.06	05-28-96	12	ΔΔ	Δ	ΔΔ	..	..	..
RW-1	08-19-96	56.32	28.51	ND	27.81	08-21-96	100	Δ	Δ	ΔΔ	..	..	..
RW-1	11-21-96	56.32	30.63	ND	25.67	11-21-96	190	Δ	Δ	ΔΔ	..	..	..
RW-1	03-26-97	56.32	25.15	ND	31.17	03-26-97	6	Δ	Δ	ΔΔ	..	..	..
RW-1	05-20-97	56.32	27.44	ND	28.88	05-20-97	53	Δ.5	Δ.5	Δ.5	..	..	..
RW-1	08-18-97	56.32	30.46	ND	25.86	08-18-97	46	Δ	Δ	..	..	..	..
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	Δ	Δ	..	Δ	..	..	..
WGR-3	06-05-95	NR	19.25	ND	NR	06-05-95	Δ	Δ	..	Δ	..	..	..
WGR-3	08-29-95	NR	21.41	ND	NR	08-29-95	Δ	Δ	..	Δ	..	..	..
WGR-3	11-16-95	NR	22.50	ND	NR	11-16-95	Δ	Δ	..	Δ	..	..	..
WGR-3	02-28-96	NR	14.90	ND	NR	02-28-96	Δ	Δ	..	Δ	..	..	..
WGR-3	05-28-96	NR	18.33	ND	NR	05-28-96	Δ	Δ	..	Δ	..	..	..
WGR-3	08-19-96	NR	21.38	ND	NR	08-19-96	Δ	Δ	..	Δ	..	..	..
WGR-3	11-21-96	NR	18.70	ND	NR	11-21-96	Δ	Δ	..	Δ	..	..	..
WGR-3	03-26-97	NR	18.98	ND	NR	03-26-97	Δ	Δ	..	Δ
WGR-3	05-20-97	NR	19.70	ND	NR	05-20-97	Δ.5	Δ.5	Δ.5	Δ.5

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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)	RP 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	<	<	<	--	--		
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 interferences

**: 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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Date/Time of Submittal: 12/10/2004 2:59:11 PM
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Facility Name: ARCO
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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
3952300488	4Q04 GW Monitoring Report	Q4 2004
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	12/10/2004	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	9
# FIELD POINTS WITH DETECTIONS	9
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
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	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%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y

BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y	
<u>SOIL SAMPLES FOR 8021/8260 SERIES</u>		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a	
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a	
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a	
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a	
<hr/>		
<u>FIELD QC SAMPLES</u>		
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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ARCO 10600 MACARTHUR BLVD OAKLAND, CA 94605	<u>Regional Board - Case #: 01-0089</u> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <u>Local Agency (lead agency) - Case #: 3756</u> ALAMEDA COUNTY LOP - (RWS)
---	--

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	9
# FIELD POINTS WITH DETECTIONS	9
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
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	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%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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276

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