

February 15, 2005

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

Alameda County
MAR 10 2005
Environmental Health

RE: Electronic Report Submission

Dear Mr. Schultz:

The purpose of this letter is to inform you that on behalf of the Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) will issue all future quarterly monitoring reports (QMR) electronically to the State Water Resources Control Board's GEOTRACKER website (<http://www.geotracker.swrcb.ca.gov/>). You may access your report directly from this website. If you would prefer to have a PDF copy e-mailed to you or if you would like to continue receiving a paper copy, please contact Rick Murray at (510) 874-1755.

If you have any questions regarding this submission, please call me at (510) 874-3125.

Sincerely,

URS CORPORATION



Rachel Lindvall
QMR Coordinator

Electronic Submittal Information

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Alameda County
MAR 10 2005
Environmental Health



Atlantic Richfield Company
(a BP affiliated company)

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

March 1, 2005

**Re: First Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #0374
6407 Telegraph Avenue
Oakland, California
URS Project #38487164**

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



March 1, 2005

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

**Re: First Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #0374
6407 Telegraph Avenue
Oakland, California
URS Project #38487164**

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *First Quarter 2005 Groundwater Monitoring Report* for ARCO Service Station #0374, located at 6407 Telegraph Avenue, Oakland, California.

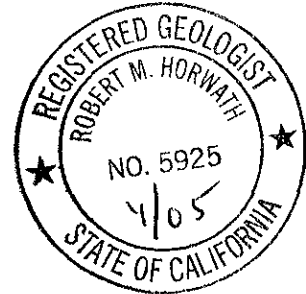
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

Robert Horwath, R.G.
Portfolio Manager



Enclosure: First Quarter 2005 Groundwater Monitoring Report

cc: Mr. Chuck Headlee, California Regional Water Quality Control Board, 1515 Clay Street, Suite 1400, Oakland, CA 94612, electronic copy uploaded to RWQCB FTP site
Mr. Paul Supple, Atlantic Richfield Company (RM), copy uploaded to ENFOS

REPORT

FIRST QUARTER 2005 GROUNDWATER MONITORING REPORT

ARCO SERVICE STATION #0374
6407 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

Prepared for
RM

March 1, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38487164

Date: March 1, 2005
Quarter: 1Q 05

RM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 0374 Address: 6407 Telegraph Avenue, Oakland, CA
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38487164
Primary Agency: Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (First-- 2005):

1. Performed first quarter groundwater monitoring event on February 8, 2005.
2. Prepared and submitted this First Quarter 2005 Groundwater Monitoring Report.

WORK PROPOSED FOR NEXT QUARTER (Second-- 2005):

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

SITE SUMMARY:

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: MW-1
Semi-Annually (1st & 3rd quarters): MW-2, MW-4
Annually (3rd quarter): MW-3, MW-5, MW-6
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 5.13 (MW-6) to 7.28 (MW-5) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.061 feet per foot

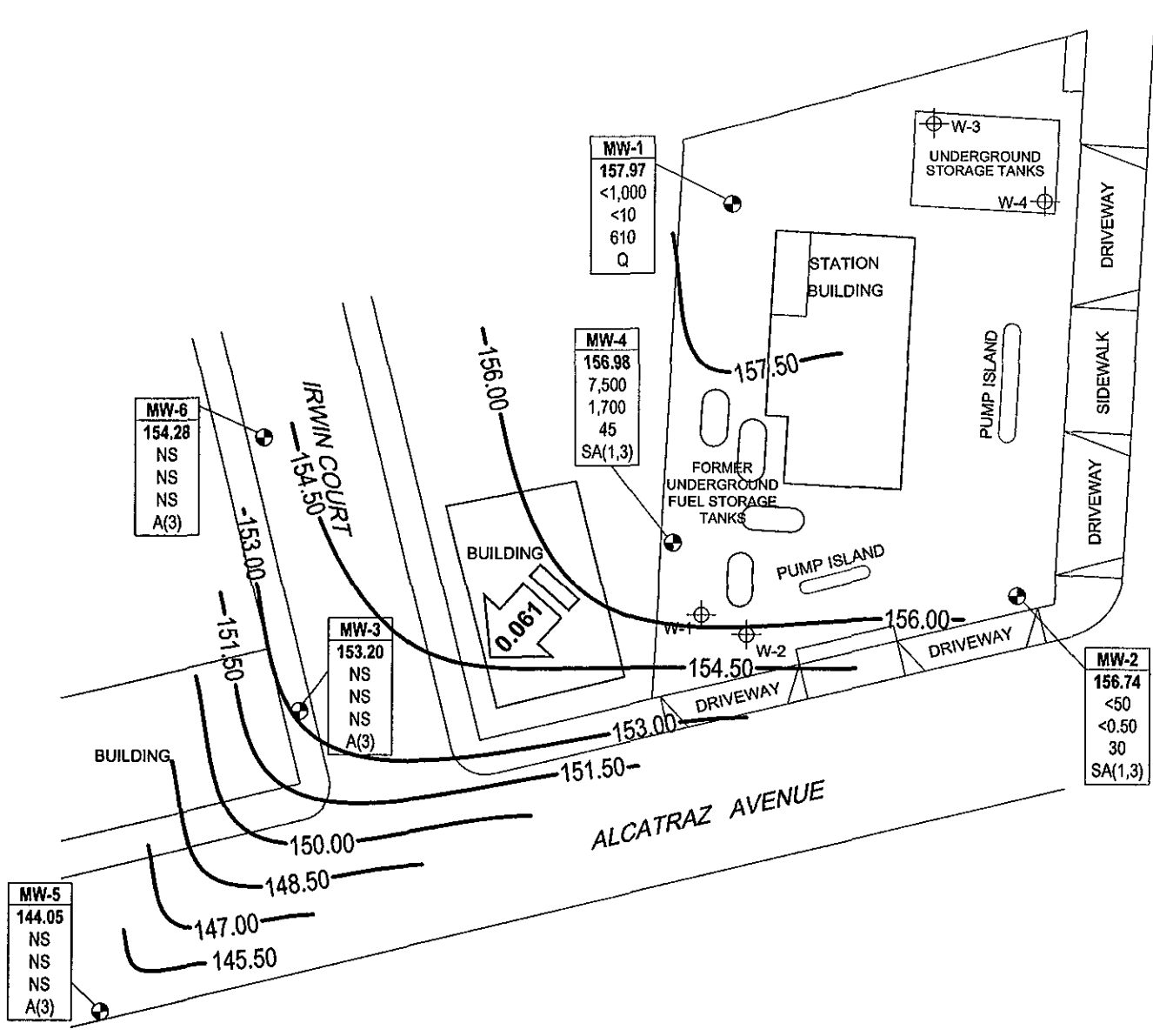
DISCUSSION:

Three wells were sampled during the first quarter. Gasoline range organics, benzene, toluene, ethylbenzene, and xylenes were detected at or above their respective laboratory reporting limits in only one well, MW-4, at concentrations of 7,500 micrograms per liter ($\mu\text{g/L}$), 1,700 $\mu\text{g/L}$, 320 $\mu\text{g/L}$, 480 $\mu\text{g/L}$, and 920 $\mu\text{g/L}$, respectively. Methyl tert-butyl ether was detected at or above the laboratory reporting limit in all three wells at concentrations of 30 $\mu\text{g/L}$ (MW-2), 45 $\mu\text{g/L}$ (MW-4), and 610 $\mu\text{g/L}$ (MW-1). No other constituents were detected at or above their respective laboratory reporting limits.

ATTACHMENTS:

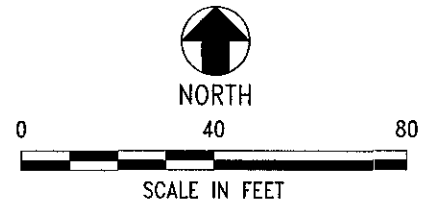
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – February 8, 2005
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Table 3 – Groundwater Gradient Data
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Error Check Reports and EDF/Geowell Submittal Confirmations

Feb 23, 2005 - 11:51am X:\c_eng\waste\BPEM\GIS\scott_robinson\Paul_Supple\0374\Monitoring\Qtr_1_2005\Drawings\374-1-Q05-GW.dwg



LEGEND

- MONITORING WELL
- TANK PIT MONITORING WELL
- Well** - WELL DESIGNATION
- ELEV** - GROUNDWATER ELEVATION
- GRO** - GRO, BENZENE & MTBE CONCENTRATIONS IN GROUNDWATER (µg/L)
- Benzene**
- MTBE**
- A/Q/SA** - SAMPLING FREQUENCY
- < - NOT DETECTED AT OR ABOVE LABORATORY LIMITS
- A(3) - SAMPLED ANNUALLY, 3RD QUARTER
- Q - SAMPLED QUARTERLY
- SA(1,3) - SAMPLED ANNUALLY, 1ST & 3RD QUARTERS
- NM - NOT MEASURED
- NS - NOT SAMPLED
- APPROXIMATE GROUNDWATER FLOW AND DIRECTION (FT/FT)
- 145.50 - GROUNDWATER ELEVATION CONTOUR (FT/MSL)



NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



Project No. 38487164
ARCO Service Station #0374
6407 Telegraph Avenue
Oakland, California

GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP
First Quarter 2005 (February 8, 2005)

FIGURE
1

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0374
6407 Telegraph Ave., Oakland, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-1	6/20/2000	--		158.91	7.00	27.00	6.86	152.05	--	--	--	--	--	--	--	--
	9/28/2000	--		158.91	7.00	27.00	7.50	151.41	--	--	--	--	--	--	--	--
	12/17/2000	--		158.91	7.00	27.00	7.49	151.42	--	--	--	--	--	--	--	--
	3/23/2001	--		158.91	7.00	27.00	5.90	153.01	<50	<0.5	<0.5	<0.5	<0.5	2,710	--	--
	6/21/2001	--		158.91	7.00	27.00	7.45	151.46	--	--	--	--	--	--	--	--
	9/23/2001	--		158.91	7.00	27.00	8.46	150.45	--	--	--	--	--	--	--	--
	12/31/2001	--		158.91	7.00	27.00	5.50	153.41	--	--	--	--	--	--	--	--
	3/21/2002	--		158.91	7.00	27.00	4.71	154.20	<5,000	<50	<50	<50	<50	2,000	--	--
	4/17/2002	--		158.91	7.00	27.00	5.54	153.37	--	--	--	--	--	--	--	--
	8/12/2002	--		158.91	7.00	27.00	7.77	151.14	--	--	--	--	--	--	--	--
	12/6/2002	--		158.91	7.00	27.00	7.65	151.26	--	--	--	--	--	--	--	--
	1/29/2003	--	b	158.91	7.00	27.00	5.88	153.03	--	--	--	--	--	--	--	--
	5/23/2003	--		158.91	7.00	27.00	5.62	153.29	<10,000	<100	<100	<100	<100	1,600	1.3	7.1
	9/4/2003	--		158.91	7.00	27.00	7.85	151.06	--	--	--	--	--	--	--	--
	11/20/2003	P		158.91	7.00	27.00	8.17	150.74	1,600	<10	<10	<10	<10	1,500	1.7	6.7
	02/02/2004	P		164.57	7.00	27.00	6.71	157.86	2,700	<25	<25	<25	<25	1,200	1.0	9.0
	05/14/2004	P		164.57	7.00	27.00	7.08	157.49	<2,500	<25	<25	<25	<25	1,200	1.4	6.6
	09/02/2004	P		164.57	7.00	27.00	8.12	156.45	580	<5.0	<5.0	<5.0	<5.0	660	3.8	6.7
	11/04/2004	P		164.57	7.00	27.00	7.38	157.19	1,700	<10	<10	<10	<10	580	6.0	6.5
	02/08/2005	P		164.57	7.00	27.00	6.60	157.97	<1,000	<10	<10	<10	<10	610	0.71	6.5
MW-2	6/20/2000	--		157.92	7.00	27.00	7.67	150.25	--	--	--	--	--	--	--	--
	9/28/2000	--		157.92	7.00	27.00	8.51	149.41	--	--	--	--	--	--	--	--
	12/17/2000	--		157.92	7.00	27.00	8.14	149.78	--	--	--	--	--	--	--	--
	3/23/2001	--		157.92	7.00	27.00	7.21	150.71	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	6/21/2001	--		157.92	7.00	27.00	7.99	149.93	--	--	--	--	--	--	--	--
	9/23/2001	--		157.92	7.00	27.00	8.52	149.40	--	--	--	--	--	--	--	--
	12/31/2001	--		157.92	7.00	27.00	6.01	151.91	--	--	--	--	--	--	--	--
	3/21/2002	--		157.92	7.00	27.00	5.95	151.97	<50	<0.5	<0.5	<0.5	<0.5	45	--	--
	4/17/2002	--		157.92	7.00	27.00	6.45	151.47	--	--	--	--	--	--	--	--
	8/12/2002	--		157.92	7.00	27.00	8.08	149.84	--	--	--	--	--	--	--	--
	12/6/2002	--		157.92	7.00	27.00	8.29	149.63	--	--	--	--	--	--	--	--
	1/29/2003	--	b	157.92	7.00	27.00	7.22	150.70	--	--	--	--	--	--	--	--
	5/23/2003	--		157.92	7.00	27.00	6.85	151.07	<50	<0.50	<0.50	<0.50	<0.50	55	1.4	7.2

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #0374
 6407 Telegraph Ave., 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-2	9/4/2003	--		157.92	7.00	27.00	7.94	149.98	--	--	--	--	--	--	--	--
	11/20/2003	--		157.92	7.00	27.00	8.05	149.87	--	--	--	--	--	--	--	--
	02/02/2004	P		163.46	7.00	27.00	7.00	156.46	74	<0.50	<0.50	<0.50	<0.50	37	1.1	8.9
	05/14/2004	--		163.46	7.00	27.00	7.97	155.49	--	--	--	--	--	--	--	--
	09/02/2004	P		163.46	7.00	27.00	8.19	155.27	<250	<2.5	<2.5	<2.5	<2.5	67	2.7	6.9
	11/04/2004	--		163.46	7.00	27.00	7.54	155.92	--	--	--	--	--	--	--	--
	02/08/2005	P		163.46	7.00	27.00	6.72	156.74	<50	<0.50	<0.50	<0.50	<0.50	30	0.86	6.7
	MW-3	6/20/2000	--		153.64	7.00	27.00	6.42	147.22	<50	<0.5	<0.5	<0.5	<1.0	<10	--
9/28/2000		--		153.64	7.00	27.00	7.31	146.33	--	--	--	--	--	--	--	--
12/17/2000		--		153.64	7.00	27.00	6.45	147.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/23/2001		--		153.64	7.00	27.00	6.01	147.63	--	--	--	--	--	--	--	--
6/21/2001		--		153.64	7.00	27.00	6.80	146.84	110	5.5	<0.5	5.4	4.1	2.5	--	--
9/23/2001		--		153.64	7.00	27.00	7.32	146.32	--	--	--	--	--	--	--	--
12/31/2001		--		153.64	7.00	27.00	4.48	149.16	<50	<0.5	<0.5	<0.5	<0.5	4.9	--	--
3/21/2002		--		153.64	7.00	27.00	4.36	149.28	--	--	--	--	--	--	--	--
4/17/2002		--		153.64	7.00	27.00	5.31	148.33	<50	<0.5	<0.5	<0.5	<0.5	8.7	--	--
8/12/2002		--		153.64	7.00	27.00	7.00	146.64	--	--	--	--	--	--	--	--
12/6/2002		--		153.64	7.00	27.00	7.32	146.32	<50	<0.5	<0.5	<0.5	<0.5	6.2	1.4	6.7
1/29/2003		--	b	153.64	7.00	27.00	6.07	147.57	--	--	--	--	--	--	--	--
5/23/2003		--		153.64	7.00	27.00	6.45	147.19	<50	<0.50	<0.50	<0.50	<0.50	1.6	0.9	7.7
9/4/2003		--	c	153.64	7.00	27.00	6.93	146.71	--	--	--	--	--	--	--	--
11/20/2003		--	c	153.64	7.00	27.00	7.04	146.60	--	--	--	--	--	--	--	--
02/02/2004		--		159.21	7.00	27.00	5.92	153.29	--	--	--	--	--	--	--	--
05/14/2004		--		159.21	7.00	27.00	7.52	151.69	--	--	--	--	--	--	--	--
09/02/2004	P		159.21	7.00	27.00	7.19	152.02	<50	<0.50	<0.50	<0.50	<0.50	6.5	9.3	8.9	
11/04/2004	--		159.21	7.00	27.00	6.40	152.81	--	--	--	--	--	--	--	--	
02/08/2005	--		159.21	7.00	27.00	6.01	153.20	--	--	--	--	--	--	--	--	
MW-4	6/20/2000	--	c	156.53	7.00	27.00	7.50	149.03	20,000	5,100	440	1,000	1,700	<250	--	--
	9/28/2000	--		156.53	7.00	27.00	8.20	148.33	--	--	--	--	--	--	--	--
	12/17/2000	--		156.53	7.00	27.00	8.11	148.42	4,320	1,240	<20	27.2	249	<100	--	--
	3/23/2001	--		156.53	7.00	27.00	6.69	149.84	--	--	--	--	--	--	--	--
	6/21/2001	--		156.53	7.00	27.00	8.01	148.52	2,800	470	16	19	160	130	--	--
	9/23/2001	--		156.53	7.00	27.00	8.91	147.62	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0374
6407 Telegraph Ave., 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	12/31/2001	--		156.53	7.00	27.00	4.42	152.11	4,600	1,500	100	160	210	160	--	--
	3/21/2002	--		156.53	7.00	27.00	4.98	151.55	--	--	--	--	--	--	--	--
	4/17/2002	--		156.53	7.00	27.00	6.23	150.30	7,100	2,200	110	290	450	<250	--	--
	8/12/2002	--		156.53	7.00	27.00	8.24	148.29	--	--	--	--	--	--	--	--
	12/6/2002	--	a	156.53	7.00	27.00	8.42	148.11	1,500	410	6.8	20	29	43	1.1	6.7
	1/29/2003	--	b	156.53	7.00	27.00	7.20	149.33	--	--	--	--	--	--	--	--
	5/23/2003	--		156.53	7.00	27.00	7.18	149.35	<5,000	1,300	89	210	260	<50	1.4	6.9
	9/4/2003	--	c	156.53	7.00	27.00	8.15	148.38	--	--	--	--	--	--	--	--
	11/20/2003	--	c	156.53	7.00	27.00	8.73	147.80	--	--	--	--	--	--	--	--
	02/02/2004	P	c	163.25	7.00	27.00	6.25	157.00	980	280	21	29	38	29	1.4	10.6
	05/14/2004	--		163.25	7.00	27.00	8.38	154.87	--	--	--	--	--	--	--	--
	09/02/2004	P		163.25	7.00	27.00	8.36	154.89	260	11	<1.0	5.5	14	28	2.4	7.4
	11/04/2004	--	c	163.25	7.00	27.00	7.71	155.54	--	--	--	--	--	--	--	--
	02/08/2005	P		163.25	7.00	27.00	6.27	156.98	7,500	1,700	320	480	920	45	0.65	6.5
MW-5	6/20/2000	--		151.33	10.00	23.00	7.84	143.49	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--
	9/28/2000	--		151.33	10.00	23.00	8.37	142.96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/17/2000	--		151.33	10.00	23.00	8.36	142.97	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/23/2001	--		151.33	10.00	23.00	7.55	143.78	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	6/21/2001	--		151.33	10.00	23.00	8.20	143.13	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	9/23/2001	--		151.33	10.00	23.00	8.68	142.65	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/31/2001	--		151.33	10.00	23.00	7.57	143.76	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/21/2002	--		151.33	10.00	23.00	6.12	145.21	<50	<0.5	<0.5	<0.5	<0.5	3.2	--	--
	4/17/2002	--		151.33	10.00	23.00	6.61	144.72	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	8/12/2002	--		151.33	10.00	23.00	8.14	143.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5	4.1	7.6
	12/6/2002	--		151.33	10.00	23.00	8.65	142.68	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1.1	6.8
	1/29/2003	--	b	151.33	10.00	23.00	7.22	144.11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	1	6.6
	5/23/2003	--		151.33	10.00	23.00	7.31	144.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	6.6
	9/4/2003	--		151.33	10.00	23.00	9.50	141.83	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	6.7
	11/20/2003	--		151.33	10.00	23.00	8.31	143.02	--	--	--	--	--	--	--	--
	02/02/2004	--	c	151.33	10.00	23.00	6.92	144.41	--	--	--	--	--	--	--	--
	05/14/2004	--		151.33	10.00	23.00	8.56	142.77	--	--	--	--	--	--	--	--
	09/02/2004	P		151.33	10.00	23.00	8.79	142.54	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.5	6.8
	11/04/2004	--	c	151.33	10.00	23.00	8.33	143.00	--	--	--	--	--	--	--	--

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #0374
 6407 Telegraph Ave., Oakland, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-5	02/08/2005	--		151.33	10.00	23.00	7.28	144.05	--	--	--	--	--	--	--	--
MW-6	6/20/2000	--		153.84	5.00	15.00	4.79	149.05	--	--	--	--	--	--	--	--
	9/28/2000	--		153.84	5.00	15.00	5.39	148.45	--	--	--	--	--	--	--	--
	12/17/2000	--		153.84	5.00	15.00	4.71	149.13	--	--	--	--	--	--	--	--
	3/23/2001	--		153.84	5.00	15.00	4.69	149.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	6/21/2001	--		153.84	5.00	15.00	5.22	148.62	--	--	--	--	--	--	--	--
	9/23/2001	--		153.84	5.00	15.00	5.40	148.44	--	--	--	--	--	--	--	--
	12/31/2001	--		153.84	5.00	15.00	3.95	149.89	--	--	--	--	--	--	--	--
	3/21/2002	--		153.84	5.00	15.00	2.94	150.90	<50	<0.5	<0.5	<0.5	<0.5	5.2	--	--
	4/17/2002	--		153.84	5.00	15.00	5.11	148.73	--	--	--	--	--	--	--	--
	8/12/2002	--		153.84	5.00	15.00	5.23	148.61	--	--	--	--	--	--	--	--
	12/6/2002	--		153.84	5.00	15.00	5.29	148.55	--	--	--	--	--	--	--	--
	1/29/2003	--	b	153.84	5.00	15.00	4.79	149.05	--	--	--	--	--	--	--	--
	5/23/2003	--		153.84	5.00	15.00	4.31	149.53	<50	<0.50	<0.50	<0.50	<0.50	9.4	1	6.7
	09/04/03	--	d	153.84	5.00	15.00	--	--	--	--	--	--	--	--	--	--
	11/20/2003	--		153.84	5.00	15.00	6.31	147.53	--	--	--	--	--	--	--	--
	02/02/2004	--		159.41	5.00	15.00	4.78	154.63	--	--	--	--	--	--	--	--
	05/14/2004	--		159.41	5.00	15.00	6.29	153.12	--	--	--	--	--	--	--	--
	09/02/2004	--	d	159.41	5.00	15.00	5.79	153.62	--	--	--	--	--	--	--	--
	11/04/2004	--	d	159.41	5.00	15.00	--	--	--	--	--	--	--	--	--	--
	02/08/2005	--		159.41	5.00	15.00	5.13	154.28	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0374
6407 Telegraph Ave., Oakland, CA

SYMBOLS AND ABBREVIATIONS:

– = 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 = Chromatogram Pattern: Gasoline C6-C10 for GRO/TPH-g.
b = Beginning this quarter, groundwater samples were analyzed by EPA method 8260B for TPH-g, BTEX, and fuel oxygenates.
c = Wells gauged with ORC sock in well.
d = Well inaccessible

NOTES:

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

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

Values for DO and pH were obtained through field measurements.

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.

The depths for the top and bottom of the screens for wells MW-5 and MW-6 were taken from Delta Environmental sampling sheets because the well logs were not available.

Table 2
Fuel Additives Analytical Data
 ARCO Service Station #0374
 6407 Telegraph Ave., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Footnotes/ Comments
MW-1	5/23/2003	<20,000	<4,000	1,600	<100	<100	<100	--	--	
	11/20/2003	<2,000	<400	1,500	<10	<10	<10	--	--	a
	02/02/2004	<5,000	<1,000	1,200	<25	<25	<25	<25	<25	
	05/14/2004	<5,000	<1,000	1,200	<25	<25	<25	<25	<25	
	09/02/2004	<1,000	<200	660	<5.0	<5.0	<5.0	<5.0	<5.0	
	11/04/2004	<2,000	<400	580	<10	<10	<10	<10	<10	
	02/08/2005	<2,000	<400	610	<10	<10	<10	<10	<10	
MW-2	5/23/2003	<100	<20	55	<0.50	<0.50	0.53	--	--	
	02/02/2004	<100	<20	37	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/02/2004	<500	<100	67	<2.5	<2.5	<2.5	<2.5	<2.5	
	02/08/2005	<100	<20	30	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3	5/23/2003	<100	<20	1.6	<0.50	<0.50	<0.50	--	--	
	09/02/2004	<100	<20	6.5	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4	5/23/2003	<10,000	<2,000	<50	<50	<50	<50	--	--	
	02/02/2004	<500	<100	29	<2.5	<2.5	2.6	<2.5	<2.5	
	09/02/2004	<200	<40	28	<1.0	<1.0	<1.0	<1.0	<1.0	
	02/08/2005	<5,000	<1,000	45	<25	<25	<25	<25	<25	
MW-5	1/29/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	5/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	9/4/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/02/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-6	5/23/2003	<100	<20	9.4	<0.50	<0.50	<0.50	--	--	

Table 2

Fuel Additives Analytical Data

ARCO Service Station #0374
6407 Telegraph Ave., Oakland, CA

SYMBOLS AND ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above the laboratory reporting limit.
1,2-DCA = 1,2-Dichloroethane
DIPE = Di-isopropyl ether
EDB = 1,2-Dibromoethane
ETBE = Ethyl tert-butyl ether
MTBE = Methyl tert-butyl ether
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
ug/L = Micrograms per Liter

FOOTNOTES:

a = The continuing calibration verification for ethanol was outside of client contractual limits, however, it was within method acceptance limits. The data should still be useful for its intended purpose.

NOTES:

All volatile organic compounds (Ethanol, TBA, MTBE, DIPE, ETBE, and TAME) analyzed using EPA Method 8260B.

Table 3

Groundwater Gradient Data
ARCO Service Station #0374
6407 Telegraph Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
1/31/1996	Southwest	0.04
4/10/1996	Southwest	0.04
7/16/1996	Southwest	0.03
10/14/1996	Southwest	0.03
3/27/1997	Southwest	0.04
5/27/1997	Southwest	0.03
8/12/1997	Southwest	0.04
11/17/1997	Southwest	0.03
3/16/1998	Southwest	0.03
5/12/1998	Southwest	0.04
7/27/1998	Southwest	0.04
10/15/1998	Southwest	0.02
2/18/1999	Southwest	0.05
5/24/1999	Southwest	0.03
8/27/1999	Southwest	0.03
10/26/1999	Southwest	0.03
2/3/2000	Southwest	0.047
6/20/2000	Southwest	0.035
9/28/2000	Southwest	0.034
12/17/2000	Southwest	0.032
3/23/2001	Southwest	0.034
6/21/2001	Southwest	0.032
9/23/2001	Southwest	0.029
12/31/2001	Southwest	0.043
3/21/2002	Southwest	0.038
4/17/2002	Southwest	0.031
8/12/2002	Southwest	0.032
12/6/2002	Southwest	0.020
1/29/2003	Southwest	0.027
5/23/2003	Southwest	0.039
9/4/2003	Southwest	0.033
11/20/2003	Southwest	0.029
2/2/2004	Southwest	0.043
5/14/2004	Southwest	0.037
9/2/2004	Southwest	0.027
11/4/2004	Southwest	0.034
2/8/2005	Southwest	0.061

Table 3

Groundwater Gradient Data
ARCO Service Station #0374
6407 Telegraph Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
--------------	----------------------------	--------------------------------

NOTES:

The data within this table collected prior to August 2002 was provided to URS by RM and its 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 # 050208WC2 Date 2/8/05 Client VRS@Arco #374

Site 6407 Telegraph Ave., 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	4					6.60	26.70	↓
MW-2	4					6.72	26.33	
MW-3	4					6.01	26.75	
MW-4	4					6.27	26.98	
MW-5	4					7.28	23.01	
MW-6	4					5.13	14.55	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050208-wc2</u>	Station # <u>374</u>
Sampler: <u>WC</u>	Date: <u>2/8/05</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>26.70</u>	Depth to Water: <u>6.60</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>gve</u> Grade	D.O. Meter (if req'd): <u>(X)</u> HACH

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

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

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>13.1</u>	x	<u>3</u>	=	<u>39.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1327	60.5	6.6	954	14	clear/odor
1329	62.2	6.5	917	27	clear/odor
1331	63.6	6.5	868	40	clear/odor

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>40</u>
Sampling Time: <u>1336</u>	Sampling Date: <u>2/8/05</u>
Sample I.D.: <u>MW-1</u>	Laboratory: Pace Sequoia Other _____
Analyzed for: <input checked="" type="checkbox"/> GRO <input checked="" type="checkbox"/> BTEX MTBE DRO	Other: <u>see COC</u>
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>0.71</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050208-WC2</u>	Station # <u>374</u>
Sampler: <u>WC</u>	Date: <u>2/8/05</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>26.33</u>	Depth to Water: <u>6.72</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>	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: _____	

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>12.7</u>	x	<u>3</u>	=	<u>38.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1226	66.6	6.8	592	13	clear
1229	67.5	6.6	596	26	clear
1231	68.7	6.7	591	39	clear

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: <u>39</u>
Sampling Time: <u>1236</u>	Sampling Date: <u>2/8/05</u>
Sample I.D.: <u>MW-2</u>	Laboratory: Pace <u>Sequia</u> Other _____
Analyzed for: <input checked="" type="checkbox"/> BTEX MTBE DRO Other: <u>see COC</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>0.86</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050208-we2	Station # 374
Sampler: WC	Date: 2/8/05
Well I.D.: MW-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 2698	Depth to Water: 6.27
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> Disposable Bailer Positive Air Displacement Electric <u>Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable <u>Bailer</u> 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>13.5</u>	x	<u>3</u>	=	<u>40.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1251	64.2	6.4	1175	14	odor / clear
1254	64.1	6.5	1177	28	odor / clear
1256	65.3	6.5	1114	41	odor / clear

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>41</u>
Sampling Time: <u>1300</u>	Sampling Date: <u>2/8/05</u>
Sample I.D.: <u>MW-4</u>	Laboratory: Pace <u>Sequia</u> Other _____
Analyzed for: <u>GRU</u> <u>BTEX</u> MTBE DRO	Other: <u>see COC</u>
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>0.65</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:

374

Station #

6407 Telegraph Ave, Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

120 gallons

added equip. rinse water

5 gal

any other

adjustments

—

TOTAL GALS. RECOVERED

125

loaded onto

BTS vehicle #

22

BTS event #

050208-WC2

time

1345

date

2/8/05

signature

W.M. Crow

REC'D AT

Blaine Tech

time

1500

date

2/8/05

unloaded by

signature

W.M. Crow

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.



22 February, 2005

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

RE: ARCO #0374, Oakland, CA
Work Order: MOB0332

Enclosed are the results of analyses for samples received by the laboratory on 02/09/05 14:32. 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 #0374, Oakland, CA
Project Number: G09JZ-0150
Project Manager: Scott Robinson

MOB0332
Reported:
02/22/05 17:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOB0332-01	Water	02/08/05 13:36	02/09/05 14:32
MW-2	MOB0332-02	Water	02/08/05 12:36	02/09/05 14:32
MW-4	MOB0332-03	Water	02/08/05 13:00	02/09/05 14:32
TB-374-020805	MOB0332-04	Water	02/08/05 00:00	02/09/05 14:32

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 #0374, Oakland, CA Project Number:G09JZ-0150 Project Manager:Scott Robinson	MOB0332 Reported: 02/22/05 17:01
---	--	--

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOB0332-01) Water Sampled: 02/08/05 13:36 Received: 02/09/05 14:32									
tert-Amyl methyl ether	ND	10	ug/l	20	5B16006	02/16/05	02/16/05	EPA 8260B	
Benzene	ND	10	"	"	"	"	"	"	
tert-Butyl alcohol	ND	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethanol	ND	2000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	610	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	1000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84 %		60-135	"	"	"	"	
MW-2 (MOB0332-02) Water Sampled: 02/08/05 12:36 Received: 02/09/05 14:32									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5B16006	02/16/05	02/16/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	30	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>		86 %		60-135	"	"	"	"	

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

Project: ARCO #0374, Oakland, CA
Project Number: G09JZ-0150
Project Manager: Scott Robinson

MOB0332
Reported:
02/22/05 17:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MOB0332-03) Water Sampled: 02/08/05 13:00 Received: 02/09/05 14:32									
tert-Amyl methyl ether	ND	25	ug/l	50	5B16006	02/16/05	02/16/05	EPA 8260B	
Benzene	1700	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	480	25	"	"	"	"	"	"	
Methyl tert-butyl ether	45	25	"	"	"	"	"	"	
Toluene	320	25	"	"	"	"	"	"	
Xylenes (total)	920	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	7500	2500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92 %		60-135	"	"	"	"	

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

Project: ARCO #0374, Oakland, CA
Project Number: G09JZ-0150
Project Manager: Scott Robinson

MOB0332
Reported:
02/22/05 17:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5B16006 - EPA 5030B P/T / EPA 8260B									
Blank (5B16006-BLK1)					Prepared & Analyzed: 02/16/05				
tert-Amyl methyl ether	ND	0.50	ug/l						
Benzene	ND	0.50	"						
tert-Butyl alcohol	ND	5.0	"						
Di-isopropyl ether	ND	0.50	"						
1,2-Dibromoethane (EDB)	ND	0.50	"						
1,2-Dichloroethane	ND	0.50	"						
Ethanol	ND	100	"						
Ethyl tert-butyl ether	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
Methyl tert-butyl ether	ND	0.50	"						
Toluene	ND	0.50	"						
Xylenes (total)	ND	0.50	"						
Gasoline Range Organics (C4-C12)	ND	50	"						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.79		"	5.00		96	60-135		
Laboratory Control Sample (5B16006-BS1)					Prepared & Analyzed: 02/16/05				
tert-Amyl methyl ether	9.80	0.50	ug/l	10.0		98	80-115		
Benzene	9.34	0.50	"	10.0		93	65-115		
tert-Butyl alcohol	50.8	20	"	50.0		102	75-150		
Di-isopropyl ether	9.55	0.50	"	10.0		96	75-125		
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0		107	85-120		
1,2-Dichloroethane	10.3	0.50	"	10.0		103	85-130		
Ethanol	178	100	"	200		89	70-135		
Ethyl tert-butyl ether	9.86	0.50	"	10.0		99	75-130		
Ethylbenzene	10.2	0.50	"	10.0		102	75-135		
Methyl tert-butyl ether	9.68	0.50	"	10.0		97	65-125		
Toluene	9.30	0.50	"	10.0		93	85-120		
Xylenes (total)	28.6	0.50	"	30.0		95	85-125		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.70		"	5.00		94	60-135		



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

Project: ARCO #0374, Oakland, CA
Project Number: G09JZ-0150
Project Manager: Scott Robinson

MOB0332
Reported:
02/22/05 17:01

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

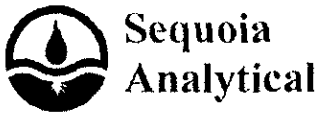
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B16006 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (5B16006-BS2)				Prepared & Analyzed: 02/16/05						
Benzene	5.33	0.50	ug/l	6.08		88	65-115			
Ethylbenzene	8.30	0.50	"	7.84		106	75-135			
Methyl tert-butyl ether	8.73	0.50	"	9.60		91	65-125			
Toluene	31.9	0.50	"	32.9		97	85-120			
Xylenes (total)	37.5	0.50	"	38.5		97	85-125			
Gasoline Range Organics (C4-C12)	396	50	"	440		90	70-124			
Surrogate: 1,2-Dichloroethane-d4	4.84		"	5.00		97	60-135			

Laboratory Control Sample Dup (5B16006-BSD1)				Prepared & Analyzed: 02/16/05						
tert-Amyl methyl ether	9.95	0.50	ug/l	10.0		100	80-115	2	15	
Benzene	9.77	0.50	"	10.0		98	65-115	5	20	
tert-Butyl alcohol	48.6	20	"	50.0		97	75-150	4	25	
Di-isopropyl ether	10.1	0.50	"	10.0		101	75-125	6	15	
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0		107	85-120	0	15	
1,2-Dichloroethane	10.4	0.50	"	10.0		104	85-130	1	20	
Ethanol	205	100	"	200		102	70-135	14	35	
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	75-130	3	25	
Ethylbenzene	10.8	0.50	"	10.0		108	75-135	6	15	
Methyl tert-butyl ether	9.99	0.50	"	10.0		100	65-125	3	20	
Toluene	9.72	0.50	"	10.0		97	85-120	4	20	
Xylenes (total)	29.8	0.50	"	30.0		99	85-125	4	20	
Surrogate: 1,2-Dichloroethane-d4	4.46		"	5.00		89	60-135			

Matrix Spike (5B16006-MS1)				Source: MOB0332-03 Prepared & Analyzed: 02/16/05						
Benzene	1890	25	ug/l	304	1700	62	65-115			BB, LN
Ethylbenzene	867	25	"	392	480	99	75-135			
Methyl tert-butyl ether	470	25	"	480	45	89	65-125			
Toluene	1880	25	"	1640	320	95	85-120			
Xylenes (total)	2800	25	"	1920	920	98	85-125			
Gasoline Range Organics (C4-C12)	25700	2500	"	22000	7500	83	70-124			
Surrogate: 1,2-Dichloroethane-d4	4.56		"	5.00		91	60-135			



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #0374, Oakland, CA Project Number: G09JZ-0150 Project Manager: Scott Robinson	MOB0332 Reported: 02/22/05 17:01
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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 5B16006 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (5B16006-MSD1)	Source: MOB0332-03			Prepared: 02/16/05 Analyzed: 02/17/05						
Benzene	1900	25	ug/l	304	1700	66	65-115	0.5	20	
Ethylbenzene	876	25	"	392	480	101	75-135	1	15	
Methyl tert-butyl ether	476	25	"	480	45	90	65-125	1	20	
Toluene	1900	25	"	1640	320	96	85-120	1	20	
Xylenes (total)	2700	25	"	1920	920	93	85-125	4	20	
Gasoline Range Organics (C4-C12)	24400	2500	"	22000	7500	77	70-124	5	20	
Surrogate: 1,2-Dichloroethane-d4	4.34		"	5.00		87	60-135			



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

Project:ARCO #0374, Oakland, CA
Project Number:G09JZ-0150
Project Manager:Scott Robinson

MOB0332
Reported:
02/22/05 17:01

Notes and Definitions

BB,LN Sample > 4x spike concentration.
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: ARCO 374 Analytical for QMR sampling
BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 374 > Historical/EL
State or Lead Regulatory Agency: Alameda County Environmental Health Agency
Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 11:50 Temp: 57 °F
Off-site Time: 14:00 Temp: 57 °F
Sky Conditions: Cloudy
Meteorological Events: -
Wind Speed: 5 mph Direction: NE

Lab Name: Sequoia	BP/AR Facility No.: 374	Consultant/Contractor: URS
Address: 885 Jarvis Drive Morgan Hill, CA 95037	BP/AR Facility Address: 6407 Telegraph Ave., Oakland, CA 94609	Address: 1333 Broadway, Suite 800 Oakland, CA 94612
Lab PM: Lisa Rice	Site Lat/Long: 37.850526 / -122.260	Consultant/Contractor Project No.: 3848651
Tele/Fax: 408.782.8156 / 408.782.6308	California Global ID No.: T060100106	Consultant/Contractor PM: Scott Robinson
BP/AR PM Contact: Paul Supple	Enfos Project No.: G09JZ-0150	Tele/Fax: 510.874.3280 / 510.874.3268
Address: P.O. Box 6549 Moraga, CA 94570	Provision or RCOP: Provision	Report Type & QC Level: Level 1 with EDF
Tele/Fax: 925.299.8891 / 925.299.8872	Phase/WBS: 04 - Mon/Remed by Natural Attenuation	E-mail EDF To: Donna.Casper@urscorp.com
	Sub Phase/Task: 03 - Analytical	Invoice to: Atlantic Richfield Company
	Cost Element: 05 - Subcontracted Costs	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GC/MS (M)	MIR (M)	MIR (M)	EDS (M)	EDS (M)		EDS (M)	
1	mw-1	1336	9/8/05	X			01	3					X	X	X	X	X	X	X	MOB 0332 Sample Point Lat/Long and Comments on hold	
2	mw-2	1236					02														
3	mw-4	1300				03															
4	TB-374-020805					04		2													
5																					
6																					
7																					
8																					
9																					
10																					

Sampler's Name: Will Crow	Relinquished By / Affiliation: Will Crow	Date: 9/10/05	Time: 14:54	Accepted By / Affiliation: [Signature]	Date: 9/10/05	Time: 17:35
Sampler's Company: Blaine Tech		Date: 9/8/05	Time: 14:32		Date: 9/8/05	Time: 17:32
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt No Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: <u>AR10 374</u> REC. BY (PRINT): <u>JD</u> WORKORDER: <u>MOB 332</u>	DATE REC'D AT LAB: <u>2/9/05</u> TIME REC'D AT LAB: <u>1432</u> DATE LOGGED IN: <u>2.10.05</u>	For Regulatory Purposes? DRINKING WATER YES / <input checked="" type="checkbox"/> NO WASTE WATER YES / <input checked="" type="checkbox"/> NO
(For clients requiring preservation checks at receipt, document here ↓)		

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <input checked="" type="checkbox"/> Present / Absent <input checked="" type="checkbox"/> Intact / Broken*	01	-	MOB -1	YOA (3)	HCl	-	W	2/9/05	
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*	02		MOB -2	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: <input checked="" type="checkbox"/> Present / Absent*	03		↓	↓	↓	↓	↓	↓	
4. Airbill: <input checked="" type="checkbox"/> Airbill / Sticker Present / Absent*	04		JB-374-020805	↓ (2)	↓	↓	↓	↓	
5. Airbill #:									
6. Sample Labels: <input checked="" type="checkbox"/> Present / Absent									
7. Sample IDs: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="checkbox"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="checkbox"/> Yes / No*									
12. Proper Preservatives used? <input checked="" type="checkbox"/> Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="checkbox"/> Yes / No*									
14. Temp Rec. at Lab: <u>3.4</u> Is temp 4 ± 2°C? <input checked="" type="checkbox"/> Yes / No** <small>(Acceptance range for samples requiring thermal pres.)</small>									
**Exception (if any): METALS / OFF ON ICE or Problem COC									

SRL Revision 6
 Replaces Rev 5 (06/07/04)
 Effective 07/13/04

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

ATTACHMENT C

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

Electronic Submittal Information

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SUCCESSFUL GEO_WELL CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	2/22/2005 7:36:45 PM

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UPLOADING A GEO_WELL FILE

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

<u>Submittal Title:</u>	1Q 2005 QMR GeoWell File BP/ARCO Site 374
<u>Submittal Date/Time:</u>	2/22/2005 7:38:33 PM
<u>Confirmation Number:</u>	8190067887

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SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	2/22/2005 7:42:52 PM
<u>GLOBAL ID:</u>	T0600100106
<u>FILE UPLOADED:</u>	ARCO#0374-EDF-MOB0332.zip

No errors were found in your EDF upload file.

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

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

Click [here](#) to view the detections report for this upload.

ARCO # 00374	<u>Regional Board - Case #: 01-0114</u>
6407 TELEGRAPH AVE	SAN FRANCISCO BAY RWQCB (REGION 2) - (BG)
OAKLAND, CA 94609	<u>Local Agency (lead agency) - Case #: 3884</u>
	ALAMEDA COUNTY LOP - (RWS)

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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

- BLANK SPIKE		Y
- SURROGATE SPIKE		Y
<u>WATER SAMPLES FOR 8021/8260 SERIES</u>		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%		Y
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
<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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CONTACT SITE ADMINISTRATOR.

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Confirmation Number: 3150917589
Date/Time of Submittal: 2/22/2005 7:44:15 PM
Facility Global ID: T0600100106
Facility Name: ARCO # 00374
Submittal Title: 1Q05 QMR BP/ARCO Site 374
Submittal Type: GW Monitoring Report

Click [here](#) to view the detections report for this upload.

ARCO # 00374 6407 TELEGRAPH AVE OAKLAND, CA 94609	<u>Regional Board - Case #: 01-0114</u> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <u>Local Agency (lead agency) - Case #: 3884</u> ALAMEDA COUNTY LOP - (RWS)
--	--

CONF #	TITLE	QUARTER
3150917589	1Q05 QMR BP/ARCO Site 374	Q1 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	2/22/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
---	---

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	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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CONTACT SITE ADMINISTRATOR