Atlantic Richfield Company
(a BP affiliated company)

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

September 7, 2005

Re: Third Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, California
ACEH Case #1259

I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Paul Supple
Environmental Business Manager

URS

September 7, 2005

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

Re: Third Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, California
ACEH Case #1259

Dear Ms. Drogos:

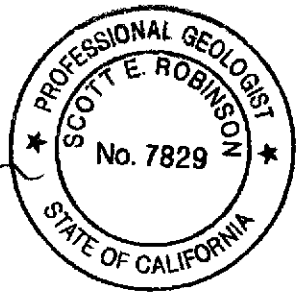
On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Third Quarter 2005 Groundwater Monitoring Report* for the ARCO Service Station #2162, located at 15135 Hesperian Boulevard, San Leandro, California.

A Request for Case Closure was submitted to ACEH on June 4, 2004.

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

Sincerely,

URS CORPORATION



Scott Robinson, P.G.
Project Manager

Enclosure: Third Quarter 2005 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS
Mr. Mike Bakaldin, City of San Leandro Environmental Services Division, electronic copy uploaded to GeoTracker

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

REPORT

THIRD QUARTER 2005 GROUNDWATER MONITORING REPORT

ARCO SERVICE STATION #2162
15135 HESPERIAN BOULEVARD
SAN LEANDRO, CALIFORNIA

Prepared for
RM

September 7, 2005

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

Date: September 7, 2005

Quarter: 3Q 05

THIRD QUARTER 2005 GROUNDWATER MONITORING REPORT

Facility No.:	2162	Address:	15135 Hesperian Boulevard, San Leandro, CA
RM Environmental Business Manager:			Paul Supple
Consulting Co./Contact Person:			URS Corporation / Scott Robinson
Primary Agency:			Alameda County Environmental Health (ACEH)
ACEH Case #:			1259

WORK PERFORMED THIS QUARTER (Third – 2005):

1. Performed the third quarter 2005 groundwater monitoring event on August 1, 2005.
2. Prepared and submitted this Third Quarter 2005 Groundwater Monitoring Report.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2005):

1. Prepare and submit the Fourth Quarter 2005 Status Report.

SITE SUMMARY:

Current Phase of Project:	Groundwater monitoring/sampling
Frequency of Groundwater Sampling:	Annually (3rd quarter): MW-3, MW-4
Frequency of Groundwater Monitoring:	Annually
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	None
Approximate Depth to Groundwater:	7.40 (MW-2) to 8.58 ft (MW-4) feet
Groundwater Gradient (direction):	Southeast
Groundwater Gradient (magnitude):	0.002 feet per foot

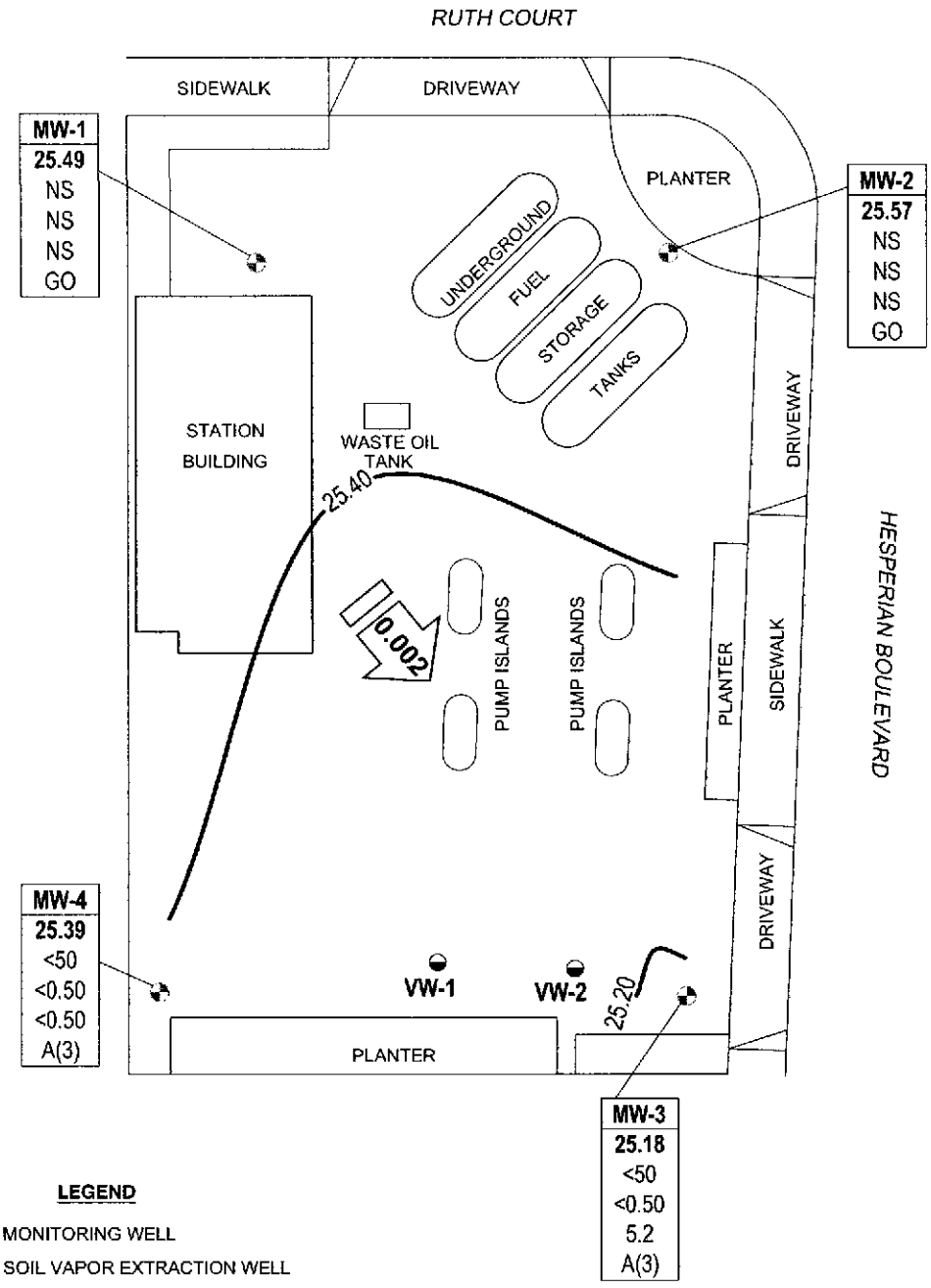
DISCUSSION:

Methyl tert-butyl ether was detected at or above the laboratory reporting limit in one of the two wells sampled this quarter at a concentration of 5.2 micrograms per liter (µg/L) (MW-3). No other components were detected at or above their respective laboratory reporting limits.

A Request for Case Closure was submitted to ACEH on June 4, 2004.

ATTACHMENTS:

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



LEGEND

- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- 25.20 — WATER TABLE CONTOUR (FT ABOVE MSL)
- 0.002 — APPROXIMATE GROUNDWATER FLOW GRADIENT AND DIRECTION (FT/FT)
- Well — WELL DESIGNATION
- ELEV — GROUNDWATER ELEVATION (FT ABOVE MSL)
- GRO / Benzene / MTBE — GRO, BENZENE AND MTBE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- A/Q — SAMPLING FREQUENCY
- < — NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
- GO — GAUGED ONLY
- A(3) — ANNUAL SAMPLING DURING 3RD QUARTER
- NS — NOT SAMPLED

North

0 30 FT

SCALE

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

URS	Project No. 38487179 ARCO Service Station #2162 15135 Hesperian Boulevard San Leandro, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Third Quarter 2005 (August 1, 2005)	FIGURE 1

Sep 02, 2005 - 12:54pm
X:\x_env_waste\BP GEM\sites\Scott Robinson\Paul Supple\2162\Monitoring\2005 Qtr. 3\Drawings\2162-3Q05-GW.dwg

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2162

15135 Hesperian Blvd., San Leandro, 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	--		31.19	8.00	16.00	8.33	22.86	<50	<0.5	0.8	<0.5	<1.0	<10	---	---
	9/29/2000	--		31.19	8.00	16.00	9.07	22.12	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	12/17/2000	--		31.19	8.00	16.00	8.69	22.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/23/2001	--		31.19	8.00	16.00	8.19	23.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	6/20/2001	--		31.19	8.00	16.00	8.97	22.22	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	9/22/2001	--		31.19	8.00	16.00	9.56	21.63	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	12/28/2001	--		31.19	8.00	16.00	8.40	22.79	<50	<0.5	<0.5	<0.5	0.63	<2.5	---	---
	3/14/2002	--		31.19	8.00	16.00	8.05	23.14	<50	<0.5	<0.5	<0.5	<0.5	170	---	--
	4/18/2002	--		31.19	8.00	16.00	8.27	22.92	<50	<0.5	<0.5	<0.5	<0.5	--	---	--
	7/19/2002	NP		31.19	8.00	16.00	8.88	22.31	<50	<0.5	<0.5	<0.5	<0.5	11	1.0	8.2
	10/09/02	NP	a	31.19	8.00	16.00	---	---	---	--	---	--	---	--	---	---
	03/28/03	NP	a, c	31.19	8.00	16.00	---	---	---	---	---	---	---	--	---	---
	4/7/2003	NP		31.19	8.00	16.00	8.28	22.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	6.9
	7/9/2003	NP		31.19	8.00	16.00	8.62	22.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.2
	10/08/2003	--	d, e	31.13	8.00	16.00	9.19	21.94	--	--	--	--	--	--	--	--
	01/13/2004	--		31.13	8.00	16.00	8.35	22.78	--	--	--	--	--	--	--	--
	04/05/2004	--		33.70	8.00	16.00	7.29	26.41	--	--	--	--	--	--	--	--
	07/12/2004	NP		33.70	8.00	16.00	9.00	24.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	7.0
	10/19/2004	--		33.70	8.00	16.00	9.47	24.23	--	--	--	--	--	--	--	--
	01/11/2005	--		33.70	8.00	16.00	7.64	26.06	--	--	--	--	--	--	--	--
	04/14/2005	--		33.70	8.00	16.00	7.35	26.35	--	--	--	--	--	--	--	--
	08/01/2005	--		**33.70**	**8.00**	**16.00**	**8.21**	**25.49**	--	--	--	--	--	--	--	--
MW-2	6/20/2000	--		30.38	8.00	16.00	7.38	23.00	---	---	---	---	---	--	---	---
	9/29/2000	--		30.38	8.00	16.00	8.08	22.30	266	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	12/17/2000	--		30.38	8.00	16.00	7.80	22.58	175	<0.5	<0.5	0.659	<0.5	<2.5	---	---
	3/23/2001	--		30.38	8.00	16.00	7.23	23.15	351	<0.5	<0.5	0.912	<0.5	<2.5	---	---
	6/20/2001	--		30.38	8.00	16.00	7.98	22.40	360	<0.5	<0.5	0.74	<0.5	<2.5	---	---
	9/22/2001	--		30.38	8.00	16.00	8.55	21.83	190	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	12/28/2001	--		30.38	8.00	16.00	7.53	22.85	130	<0.5	0.93	<0.5	0.51	<2.5	---	---
	3/14/2002	--		30.38	8.00	16.00	7.17	23.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	4/18/2002	--		30.38	8.00	16.00	7.31	23.07	74	<0.5	<0.5	<0.5	<0.5	--	---	---
	7/19/2002	P		30.38	8.00	16.00	7.93	22.45	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1.1	7.6
	10/9/2002	P		30.38	8.00	16.00	8.55	21.83	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.7	7.3

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2162

15135 Hesperian Blvd., San Leandro, 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	03/28/03	P	c	30.38	8.00	16.00	7.30	23.08	<50	<0.50	0.83	<0.50	<0.50	<0.50	1.48	7.7
	4/7/2003	P		30.38	8.00	16.00	7.36	23.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	7.0
	7/9/2003	P		30.38	8.00	16.00	7.71	22.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	7.6
	10/08/2003	--		30.38	8.00	16.00	8.25	22.13	--	--	--	--	--	--	--	--
	01/13/2004	--		30.38	8.00	16.00	7.55	22.83	--	--	--	--	--	--	--	--
	04/05/2004	--		32.97	8.00	16.00	7.29	25.68	--	--	--	--	--	--	--	--
	07/12/2004	NP		32.97	8.00	16.00	8.09	24.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.40	7.2
	10/19/2004	--		32.97	8.00	16.00	8.29	24.68	--	--	--	--	--	--	--	--
	01/11/2005	--		32.97	8.00	16.00	6.81	26.16	--	--	--	--	--	--	--	--
	04/14/2005	--		32.97	8.00	16.00	6.69	26.28	--	--	--	--	--	--	--	--
	08/01/2005	--		**32.97**	**8.00**	**16.00**	**7.40**	**25.57**	--	--	--	--	--	--	--	--
MW-3	6/20/2000	--		30.3	8.00	15.00	7.75	22.55	---	---	---	---	---	--	---	---
	9/29/2000	--		30.3	8.00	15.00	8.46	21.84	<50	<0.5	<0.5	<0.5	<0.5	128	---	---
	12/17/2000	--		30.3	8.00	15.00	8.01	22.29	<50	<0.5	<0.5	<0.5	<0.5	46.7	---	---
	3/23/2001	--		30.3	8.00	15.00	7.70	22.60	<50	<0.5	<0.5	<0.5	<0.5	26.8	---	---
	6/20/2001	--		30.3	8.00	15.00	8.23	22.07	<50	<0.5	<0.5	<0.5	<0.5	30	---	---
	9/22/2001	--		30.3	8.00	15.00	8.89	21.41	<50	<0.5	<0.5	<0.5	<0.5	12	---	---
	12/28/2001	--		30.3	8.00	15.00	7.83	22.47	<50	<0.5	<0.5	<0.5	<0.5	6.2	---	---
	3/14/2002	--		30.3	8.00	15.00	7.48	22.82	<50	<0.5	<0.5	<0.5	<0.5	47	---	---
	4/18/2002	--		30.3	8.00	15.00	7.62	22.68	<50	<0.5	<0.5	<0.5	<0.5	--	---	---
	7/19/2002	P	b (TPH-g)	30.3	8.00	15.00	8.23	22.07	100	<1.0	<1.0	<1.0	<1.0	330	0.9	7.6
	10/9/2002	P		30.3	8.00	15.00	8.83	21.47	<50	<0.5	<0.5	<0.5	<0.5	61	0.5	7.4
	03/28/03	P	c	30.3	8.00	15.00	7.85	22.45	52	<0.50	1.2	<0.50	<0.50	45	1.42	7.6
	4/7/2003	P		30.3	8.00	15.00	7.71	22.59	56	<0.50	<0.50	<0.50	<0.50	56	1.1	6.8
	7/9/2003	P		30.3	8.00	15.00	8.00	22.30	<500	<5.0	<5.0	<5.0	<5.0	87	1.6	7.4
	10/08/2003	P		30.30	8.00	15.00	8.59	21.71	<50	<0.50	<0.50	<0.50	<0.50	25	0.90	--
	01/15/2004	P		30.30	8.00	15.00	7.90	22.40	<50	<0.50	<0.50	<0.50	<0.50	9.8	2.90	7.3
	04/05/2004	P		32.89	8.00	15.00	7.61	25.28	<50	<0.50	<0.50	<0.50	<0.50	15	1.50	7.0
	07/12/2004	P		32.89	8.00	15.00	8.45	24.44	<50	<0.50	<0.50	<0.50	<0.50	7.3	1.60	6.9
	10/19/2004	P		32.89	8.00	15.00	8.95	23.94	<50	<0.50	<0.50	<0.50	<0.50	5.0	0.96	7.1
	01/11/2005	P		32.89	8.00	15.00	7.27	25.62	<50	<0.50	<0.50	<0.50	<0.50	2.3	--	7.2
	04/14/2005	P		32.89	8.00	15.00	7.10	25.79	<50	<0.50	<0.50	<0.50	1.5	5.6	2.0	7.2
	08/01/2005	**P**		**32.89**	**8.00**	**15.00**	**7.71**	**25.18**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**5.2**	**1.18**	**7.0**

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2162

15135 Hesperian Blvd., San Leandro, 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	6/20/2000	--		30.39	10.00	18.00	8.87	21.52	---	---	---	---	---	--	---	---
	9/29/2000	--		30.39	10.00	18.00	9.61	20.78	<50	1.02	<0.5	<0.5	<0.5	12.2	---	---
	12/17/2000	--		30.39	10.00	18.00	9.17	21.22	<50	<0.5	<0.5	<0.5	<0.5	5.81	---	---
	3/23/2001	--		30.39	10.00	18.00	8.70	21.69	<50	<0.5	<0.5	<0.5	<0.5	3.04	---	---
	6/20/2001	--		30.39	10.00	18.00	9.51	20.88	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	9/22/2001	--		30.39	10.00	18.00	10.06	20.33	<50	<0.5	<0.5	<0.5	<0.5	5.2	---	---
	12/28/2001	--		30.39	10.00	18.00	8.86	21.53	<50	<0.5	<0.5	<0.5	<0.5	4.3	---	---
	3/14/2002	--		30.39	10.00	18.00	8.52	21.87	<50	<0.5	<0.5	<0.5	<0.5	5.1	---	---
	4/18/2002	--		30.39	10.00	18.00	8.76	21.63	<50	<0.5	<0.5	<0.5	<0.5	--	---	---
	7/19/2002	NP		30.39	10.00	18.00	9.39	21.00	<50	<0.5	<0.5	<0.5	<0.5	30	1.8	7.8
	10/9/2002	NP		30.39	10.00	18.00	10.08	20.31	<50	<0.5	<0.5	<0.5	<0.5	28	1.0	8.0
	03/28/03	NP	c	30.39	10.00	18.00	8.88	21.51	<50	<0.50	1.3	<0.50	<0.50	4.4	0.98	7.2
	4/7/2003	NP		30.39	10.00	18.00	8.78	21.61	<50	<0.50	<0.50	<0.50	<0.50	14	1.1	7.0
	7/9/2003	NP		30.39	10.00	18.00	9.14	21.25	<50	<0.50	<0.50	<0.50	<0.50	1.8	1.6	7.4
	10/08/2003	NP		30.39	10.00	18.00	9.77	20.62	<50	<0.50	<0.50	<0.50	<0.50	3.1	2.60	6.4
	01/15/2004	P		30.39	10.00	18.00	8.68	21.71	<50	1.4	0.84	<0.50	1.5	6.6	2.90	7.1
	04/05/2004	NP		33.97	10.00	18.00	8.77	25.20	<50	<0.50	<0.50	<0.50	<0.50	1.3	1.20	7.0
	07/12/2004	NP		33.97	10.00	18.00	9.46	24.51	<50	<0.50	<0.50	<0.50	<0.50	1.0	2.50	6.6
	10/19/2004	NP		33.97	10.00	18.00	9.91	24.06	<50	<0.50	<0.50	<0.50	<0.50	4.4	1.21	7.9
	01/11/2005	P		33.97	10.00	18.00	7.80	26.17	59	2.0	<0.50	<0.50	<0.50	11	0.90	7.1
	04/14/2005	NP		33.97	10.00	18.00	8.07	25.90	<50	<0.50	<0.50	<0.50	<0.50	0.64	2.80	7.4
	08/01/2005	**NP**		**33.97**	**10.00**	**18.00**	**8.58**	**25.39**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**2.48**	**5.7**

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2162
15135 Hesperian Blvd., San Leandro, 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
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 = Well not purged prior to sampling
P = Well purged prior to sampling
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 = Well not accessable - car parked over.
b = Hydrocarbon pattern is present in the requested fuel quantitation range but does not represent the pattern of the requested fuel
c =TPH-g, BTEX and MTBE analyzed by EPA method 8260 beginning on 1st Quarter 2003 sampling event (3/28/03)
d = Guaged with stinger in well
e = Well casing lowered 0.06 feet during well repairs on 9/17/2003

NOTES:
Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPHg was 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.

Well were surveyed to NAVD'88 datum by URS Corporation on February 23, 2004.

Values for DO and pH were obtained through field measurements.

Table 2

Fuel Additives Analytical Data

ARCO Service Station #2162

15135 Hesperian Blvd., San Leandro, 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	3/28/2003	---	---	--	---	---	---	---	---	
	4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2	3/28/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3	3/28/2003	<100	<20	45	<0.50	<0.50	0.73	<0.50	<0.50	
	4/7/2003	<100	<20	56	<0.50	<0.50	0.72	<0.50	<0.50	
	7/9/2003	<1,000	<200	87	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/08/2003	<100	<20	25	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/15/2004	<100	<20	9.8	<0.50	<0.50	<0.50	<0.50	<0.50	a (TBA and EDB)
	04/05/2004	<100	<20	15	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/12/2004	<100	<20	7.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	10/19/2004	<100	<20	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/11/2005	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	b
	04/14/2005	<100	<20	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/01/2005	**<100**	**<20**	**5.2**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**b**
MW-4	3/28/2003	<100	<20	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	4/7/2003	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
	7/9/2003	<100	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
	10/08/2003	<100	<20	3.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/15/2004	<100	<20	6.6	<0.50	<0.50	<0.50	<0.50	<0.50	a (TBA and EDB)
	04/05/2004	<100	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/12/2004	<100	<20	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
	10/19/2004	<100	<20	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/11/2005	<100	<20	11	<0.50	<0.50	<0.50	<0.50	<0.50	b
	04/14/2005	<100	<20	0.64	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/01/2005	**<100**	**<20**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**b**

Table 2

Fuel Additives Analytical Data

ARCO Service Station #2162
15135 Hesperian Blvd., San Leandro, CA

SYMBOLS AND ABBREVIATIONS:
< = Not detected at or above specified laboratory reporting limit
--- = Not analyzed/applicable/measured/available
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 result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.
b = The calbration verification for ethanol was within method limits but outside contract limits.

NOTES:
All fuel oxygenate compounds analyzed using EPA Method 8260B

Table 3

Groundwater Gradient Data

ARCO Service Station #2162
15135 Hesperian Blvd., San Leandro, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
3/23/2001	Southwest	0.011
6/20/2001	Southwest	0.013
9/22/2001	Southwest	0.012
12/28/2001	Southwest	0.010
3/14/2002	Southwest	0.011
4/18/2002	Southwest	0.012
7/19/2002	Southwest	0.012
10/9/2002	Southwest	0.013
3/28/2003	Southwest	0.013
4/7/2003	Southwest	0.011
7/9/2003	Southwest	0.010
10/8/2003	Southwest	0.010
1/15/2004	Southwest	0.008
4/5/2004	South-Southwest	0.004
7/12/2004	South and Southwest	0.003 and 0.005
10/19/2004	Southwest	0.004
1/11/2005	Southwest (a) to Southeast (b)	0.005 to 0.004
4/14/2005	Southeast	0.004
8/1/2005	**Southwest**	**0.002**

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

FOOTNOTES:
a = Direction at underground storage tanks
b = Direction at dispensers

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 # 050801 - PM2 Date 8-1-05 Client Arco 2162

Site 15135 Hesperian Blvd. S.L.

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					8.21	15.90		
mw-2	4					7.40	16.00		
mw-3	4					7.71	15.00		
mw-4	4					8.58	17.80	↓	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050801-PM2	Station # ARCO 2162
Sampler: PM	Date: 8-1-05
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 15.00	Depth to Water: 7.71
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

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

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

Top of Screen: _____

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

9.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 14.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1420	76.7	7.1	865	4.7	clear
1421	75.5	6.8	857	9.4	"
1422	74.8	7.0	851	14.1	"

Did well dewater? Yes (No)

Gallons actually evacuated: 14.1

Sampling Time: 1430

Sampling Date: 8-1-05

Sample I.D.: MW-3

Laboratory: Pace (Sequoia) Other _____

Analyzed for: (GRO) (BTEX) (MTBE) DRO

Other: see scope

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.18 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050801-PM2	Station # ARCO 2162
Sampler: AM	Date: 8-1-05
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 17.80	Depth to Water: 8.58
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: ___

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

Top of Screen: 8'

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

___ (1 Case Volume (Gals.)) X No purge (Specified Volumes) = ___ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1345	75.9	5.7	1120		clear

Did well dewater? Yes (No)

Gallons actually evacuated: —

Sampling Time: 1345

Sampling Date: 8-1-05

Sample I.D.: MW-4

Laboratory: Pace (Sequoia) Other ___

Analyzed for: (GRO BTEX MTBE DRO) Other: See Scope

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.48 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 2162

Station #

15135 Hesperian Blvd. San Leandro

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

14.1

added equip. rinse water 5

any other adjustments

TOTAL GALS. RECOVERED 19.1

loaded onto BTS vehicle # 22

BTS event #	time	date
050801-PM2	1430	8/1/05

signature PM

* *

REC'D AT	time	date
		/ /

unloaded by signature

ATTACHMENT B

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

LABORATORY PROCEDURES

Laboratory Procedures

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

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
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15 August, 2005

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

RE: ARCO #2162, San Leandro, CA
Work Order: MOH0260

Enclosed are the results of analyses for samples received by the laboratory on 08/02/05 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kekobad

Jamshid Kekobad
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #2162, San Leandro, CA	MOH0260
1333 Broadway, Suite 800	Project Number:G0C2C-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/15/05 18:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	MOH0260-01	Water	08/01/05 14:30	08/02/05 16:00
MW-4	MOH0260-02	Water	08/01/05 13:45	08/02/05 16:00
TB216208012005	MOH0260-03	Water	08/01/05 13:45	08/02/05 16:00

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

These samples were received with no custody seals.

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #2162, San Leandro, CA	MOH0260
1333 Broadway, Suite 800	Project Number:G0C2C-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/15/05 18:30

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MOH0260-01) Water Sampled: 08/01/05 14:30 Received: 08/02/05 16:00									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H13005	08/13/05	08/14/05	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	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**5.2**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94 %*	*60-135*		"	"	"	"	
MW-4 (MOH0260-02) Water Sampled: 08/01/05 13:45 Received: 08/02/05 16:00									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H13005	08/13/05	08/14/05	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	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*91 %*	*60-135*		"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #2162, San Leandro, CA	MOH0260
1333 Broadway, Suite 800	Project Number:G0C2C-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/15/05 18:30

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5H13005 - EPA 5030B P/T / EPA 8260B										
Blank (5H13005-BLK1)				Prepared & Analyzed: 08/13/05						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							IC
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*2.09*		"	*2.50*		*84*	*60-135*			
Laboratory Control Sample (5H13005-BS1)				Prepared & Analyzed: 08/13/05						
tert-Amyl methyl ether	7.01	0.50	ug/l	7.52		93	80-115			
Benzene	2.44	0.50	"	2.58		95	65-115			
tert-Butyl alcohol	78.2	20	"	71.5		109	75-150			
Di-isopropyl ether	7.52	0.50	"	7.57		99	75-125			
1,2-Dibromoethane (EDB)	7.13	0.50	"	7.42		96	85-120			
1,2-Dichloroethane	7.61	0.50	"	7.36		103	85-130			
Ethanol	104	100	"	70.7		147	70-135			IC, HL
Ethyl tert-butyl ether	7.35	0.50	"	7.51		98	75-130			
Ethylbenzene	3.43	0.50	"	3.77		91	75-135			
Methyl tert-butyl ether	3.24	0.50	"	3.51		92	65-125			
Toluene	17.1	0.50	"	18.6		92	85-120			
Xylenes (total)	20.0	0.50	"	20.7		97	85-125			
Gasoline Range Organics (C4-C12)	205	50	"	220		93	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.13*		"	*2.50*		*85*	*60-135*			

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #2162, San Leandro, CA	MOH0260
1333 Broadway, Suite 800	Project Number:G0C2C-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/15/05 18:30

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5H13005 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (5H13005-MS1)	**Source: MOH0248-03**			Prepared & Analyzed: 08/13/05						
tert-Amyl methyl ether	359	25	ug/l	376	ND	95	80-115			
Benzene	121	25	"	129	ND	94	65-115			
tert-Butyl alcohol	4400	1000	"	3580	ND	123	75-120			LM
Di-isopropyl ether	366	25	"	378	ND	97	75-125			
1,2-Dibromoethane (EDB)	354	25	"	371	ND	95	85-120			
1,2-Dichloroethane	378	25	"	368	ND	103	85-130			
Ethanol	6520	5000	"	3540	ND	184	70-135			IC, LM
Ethyl tert-butyl ether	366	25	"	376	ND	97	75-130			
Ethylbenzene	166	25	"	188	ND	88	75-135			
Methyl tert-butyl ether	1390	25	"	176	1300	51	65-125			LN
Toluene	833	25	"	930	ND	90	85-120			
Xylenes (total)	964	25	"	1040	ND	93	85-125			
Gasoline Range Organics (C4-C12)	10700	2500	"	11000	890	89	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.16*		"	*2.50*		*86*	*60-135*			
Matrix Spike Dup (5H13005-MSD1)	**Source: MOH0248-03**			Prepared & Analyzed: 08/13/05						
tert-Amyl methyl ether	358	25	ug/l	376	ND	95	80-115	0.3	15	
Benzene	123	25	"	129	ND	95	65-115	2	20	
tert-Butyl alcohol	4060	1000	"	3580	ND	113	75-120	8	25	
Di-isopropyl ether	371	25	"	378	ND	98	75-125	1	15	
1,2-Dibromoethane (EDB)	358	25	"	371	ND	96	85-120	1	15	
1,2-Dichloroethane	378	25	"	368	ND	103	85-130	0	20	
Ethanol	5390	5000	"	3540	ND	152	70-135	19	35	IC, LM
Ethyl tert-butyl ether	366	25	"	376	ND	97	75-130	0	25	
Ethylbenzene	174	25	"	188	ND	93	75-135	5	15	
Methyl tert-butyl ether	1410	25	"	176	1300	62	65-125	1	20	LN
Toluene	844	25	"	930	ND	91	85-120	1	20	
Xylenes (total)	990	25	"	1040	ND	95	85-125	3	20	
Gasoline Range Organics (C4-C12)	11100	2500	"	11000	890	93	70-124	4	20	
Surrogate: 1,2-Dichloroethane-d4	*2.14*		"	*2.50*		*86*	*60-135*			

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www.sequoialabs.com

URS Corporation [Arco]	Project:ARCO #2162, San Leandro, CA	MOH0260
1333 Broadway, Suite 800	Project Number:G0C2C-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/15/05 18:30

Notes and Definitions

LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
LM	MS and/or MSD above acceptance limits. See Blank Spike(LCS).
IC	Calib. verif. is within method limits but outside contract limits
HL	Analyte recovery above established limit
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

Page 1 of 1

Project Name: Analytical for QMR Sampling

BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 2162 > HistoricalBL

State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fr

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

On-site Time:	1315	Temp:	85
Off-site Time:	1445	Temp:	88
Sky Conditions:	clear		
Meteorological Events:			
Wind Speed:	0	Direction:	

Lab Name: Sequoia	BP/AR Facility No.: 2162	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 15135 Hesperian Blvd., San Leandro, CA 945	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.70001 / -122.1303	Oakland, CA 94612
Lab PM: Lisa Race / Jamshid Kekobad	California Global ID No.: T0600100084	Consultant/Contractor Project No.: 38487028
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G0C2C-0004	Consultant/Contractor PM: Scott Robinson
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.3280 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: 04 - Mon/Remed by Natural Attenuation	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Donna_Cosper@URSCorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 2162

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO / BTEX (8260)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Requested Analysis: ETHANOL (8260)	Sample Point Lat/Long and Comments
1	MW-3	1430	8/1/05		W		01	3				X		X	X	X	X	MTBE 8260
2	MW-4	1345	↓		W		02	3				X		X	X	X	X	
3	TB2162080120SK	—	—		W		03	2										on hold
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name:	Paul Monroe	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation
Sampler's Company:	Blaine Tech	Paul Monroe	8/1/05	1634	Client Supplied Sample Custody
Shipment Date:		SAME CUSTODY	8/2/05	1516	
Shipment Method:			8/4/05	1600	
Shipment Tracking No:					

Special Instructions:

Coolers In Place Yes X No Temp Blank Yes X No Cooler Temperature on Receipt 3-7 °F/C Trip Blank Yes X No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT): Phue Phoua
WORKORDER: M0162460

DATE REC'D AT LAB: 8/2/05
TIME REC'D AT LAB: 16:00
DATE LOGGED IN: 8-4-05

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent	01	6.C	MW-3	VOA 3	HCL		W	8/1/05	14:30
	Intact / Broken*	02	2	MW-4	↓	↓	↓	↓	↓	13:45
2. Chain-of-Custody	Present / Absent*	03	A.B	TB2162801 2005	VOA 2	—	↓	↓	↓	—
3. Traffic Reports or Packing List:	Present / Absent									
4. Airbill:	Airbill / Sticker Present / Absent									
5. Airbill #:										
6. Sample Labels:	Present / Absent									
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody									
8. Sample Condition:	Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No*			P.P.	8/2/05					
10. Sample received within hold time?	Yes / No*									
11. Adequate sample volume received?	Yes / No*									
12. Proper preservatives used?	Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No*									
14. Read Temp:	6.7°C									
Corrected Temp:	↓									
Is corrected temp 4 +/-2°C?	Yes / (No)**									
(Acceptance range for samples requiring thermal pres.)										
Exception (if any): METALS / (OFF ON ICE)										
for Problem COC										

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

ATTACHMENT C

HISTORICAL GROUNDWATER DATA

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-1	02/26/96	31.19	7.14	24.05	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	05/23/96	31.19	7.70	23.49	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	08/21/96	31.19	8.75	22.44	210	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-1	11/20/96	31.19	8.62	22.57	91	<0.5	<0.5	<0.5	<0.5	2.6	NA	NA	
MW-1	04/01/97	31.19	8.70	22.49	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NP
MW-1	06/10/97	31.19	8.45	22.74	94	<0.5	<0.5	0.68	0.56	6.4	NA	NA	NP
MW-1	09/17/97	31.19	9.20	21.99	<50	<0.5	<0.5	<0.5	<0.5	10	NA	1.0	NP
MW-1	12/12/97	31.19	8.00	23.19	<200	<2	<2	<2	<2	180	NA	2.0	NP
MW-1	03/25/98	31.19	7.00	24.19	<200	<2	<2	3	<2	180	NA	2.0	
MW-1	05/14/98	31.19	7.46	23.73	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	1.17	P
MW-1	07/31/98	31.19	8.10	23.09	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	NP
MW-1	10/12/98	31.19	8.60	22.59	<50	<0.5	<0.5	<0.5	<0.5	9	NA	2.5	NP
MW-1	02/11/99	31.19	7.32	23.87	<50	<0.5	<0.5	<0.5	<0.5	25	NA	1.0	P
MW-1	06/23/99	31.19	8.40	22.79	55	<0.5	<0.5	<0.5	<0.5	<3	NA	1.36	NP
MW-1	08/23/99	31.19	8.85	22.34	<50	<0.5	0.6	<0.5	<0.5	5	NA	1.42	NP
MW-1	10/27/99	31.19	8.50	22.69	<50	<0.5	<0.5	<0.5	<1	90	NA	0.83	NP
MW-1	02/09/00	31.19	8.11	23.08	<50	<0.5	<0.5	<0.5	<1	9	NA	0.77	NP
MW-2	02/26/96	30.38	6.41	23.97	770	<0.5	<0.5	45	28	NA	NA	NA	
MW-2	05/23/96	30.38	6.80	23.58	590	0.50	<0.5	35	18	NA	NA	NA	
MW-2	08/21/96	30.38	7.80	22.58	170	<0.5	<0.5	21	6.3	<2.5	NA	NA	
MW-2	11/20/96	30.38	7.73	22.65	88	<0.5	<0.5	7.9	1.1	<2.5	NA	NA	
MW-2	04/01/97	30.38	7.83	22.55	66	<0.5	<0.5	3.6	0.56	33	NA	NA	
MW-2	06/10/97	30.38	7.52	22.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NP
MW-2	09/17/97	30.38	8.24	22.14	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	0.6	NP
MW-2	12/12/97	30.38	7.10	23.28	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	1.2	NP
MW-2	03/25/98	30.38	6.27	24.11	<50	<0.5	<0.5	0.7	0.5	55	NA	1.0	
MW-2	05/14/98	30.38	6.54	23.84	210	<0.5	<0.5	3.3	<0.5	42	NA	1.47	P
MW-2	07/31/98	30.38	7.14	23.24	230	<0.5	<0.5	3.9	<0.5	.6	NA	1.0	P

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-2	10/12/98	30.38	7.65	22.73	110	<0.5	<0.5	1.5	<0.5	<3	NA	1.0	P
MW-2	02/11/99	30.38	6.55	23.83	660	<0.5	<0.5	6.7	0.7	3	NA	1.0	P
MW-2	06/23/99	30.38	7.48	22.90	270	<0.5	<0.5	2.2	0.8	<3	NA	NM	P
MW-2	08/23/99	30.38	7.89	22.49	200	<0.5	0.9	1.8	<0.5	<3	NA	1.17	P
MW-2	10/27/99	30.38	8.30	22.08	2,100	1.0	2.5	14	3	3	NA	0.75	NP
MW-2	02/09/00	30.38	8.02	22.36	<50	<0.5	<0.5	<0.5	<1	5	NA	0.69	NP
MW-3	02/26/96	30.30	6.72	23.58	120	5.0	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	05/23/96	30.30	7.18	23.12	140	12	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	08/21/96	30.30	8.17	22.13	<50	1.1	<0.5	<0.5	<0.5	130	NA	NA	
MW-3	11/20/96	30.30	8.03	22.27	55	<0.5	<0.5	<0.5	<0.5	59	NA	NA	
MW-3	04/01/97	30.30	8.09	22.21	<50	<0.5	<0.5	<0.5	<0.5	180	NA	NA	NP
MW-3	06/10/97	30.30	7.97	22.33	<50	<0.5	<0.5	<0.5	<0.5	1,900	NA	NA	NP
MW-3	09/17/97	30.30	8.54	21.76	<5,000	<50	<50	<50	<50	1,100	860	2.2	NP
MW-3	12/12/97	30.30	7.50	22.80	560	<5.0	<5.0	<5.0	5.0	370	NA	1.4	NP
MW-3	03/25/98	30.30	6.60	23.70	<500	<5	<5	<5	<5	470	NA	1.0	
MW-3	05/14/98	30.30	7.13	23.17	750	<5	<5	<5	<5	630	NA	1.97	P
MW-3	07/31/98	30.30	7.58	22.72	<500	<5	<5	<5	<5	590	NA	1.0	P
MW-3	10/12/98	30.30	8.00	22.30	<500	<5	<5	<5	<5	600	NA	2.0	P
MW-3	02/11/99	30.30	6.90	23.40	<500	<5	<5	<5	<5	280	NA	1.0	P
MW-3	06/23/99	30.30	7.82	22.48	220	<0.5	3.2	<0.5	<0.5	740	NA	1.98	P
MW-3	08/23/99	30.30	8.28	22.02	<50	<0.5	1.1	<0.5	<0.5	230	NA	1.20	P
MW-3	10/27/99	30.30	9.27	21.03	<50	<0.5	<0.5	<0.5	<1	<3	NA	0.81	NP
MW-3	02/09/00	30.30	7.45	22.85	<50	<0.5	<0.5	<0.5	<1	80	NA	0.81	P
MW-4	02/26/96	30.39	7.59	22.80	110	9.9	<0.5	<0.5	<0.5	NA	NA	NA	
MW-4	05/23/96	30.39	8.22	22.17	69	8.0	<0.5	<0.5	<0.5	NA	NA	NA	
MW-4	08/21/96	30.39	9.28	21.11	<50	6.8	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-4	11/20/96	30.39	9.12	21.27	95	10	0.59	<0.5	0.52	3.8	NA	NA	

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Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-4	04/01/97	30.39	8.45	21.94	73	5.7	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-4	06/10/97	30.39	9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NP
MW-4	09/17/97	30.39	9.76	20.63	<50	3.2	<0.5	<0.5	<0.5	8.0	NA	0.2	NP
MW-4	12/12/97	30.39	8.45	21.94	<50	2.9	<0.5	<0.5	<0.5	14	NA	1.0	NP
MW-4	03/25/98	30.39	7.52	22.87	58	2.8	<0.5	<0.5	<0.5	<3	NA	3.0	
MW-4	05/14/98	30.39	8.03	22.36	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	3.24	NP
MW-4	07/31/98	30.39	8.67	21.72	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	NP
MW-4	10/12/98	30.39	9.15	21.24	<50	<0.5	<0.5	<0.5	<0.5	4	NA	1.5	NP
MW-4	02/11/99	30.39	7.80	22.59	61	2.5	<0.5	<0.5	<0.5	6	NA	1.0	P
MW-4	06/23/99	30.39	9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	1.42	NP
MW-4	08/23/99	30.39	9.31	21.08	<50	<0.5	<0.5	<0.5	<0.5	6	NA	1.53	NP
MW-4	10/27/99	30.39	9.80	20.59	<50	<0.5	<0.5	<0.5	<1	6	NA	0.98	NP
MW-4	02/09/00	30.39	8.63	21.76	<50	<0.5	<0.5	<0.5	<1	7	NA	0.74	NP

TPPH = Total purgeable petroleum hydrocarbons by modified EPA method 8015
BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 10/27/99).
MTBE = Methyl tert -Butyl Ether
* = EPA method 8020 prior to 10/27/99
MSL = Mean sea level
TOC = Top of casing
ppb = Parts per billion
ppm = Parts per million
NA = Not analyzed
NM = Not measured
< = Denotes concentration not present above laboratory detection limited stated to the right

ATTACHMENT D

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

T0600100084	MW-2	ACT	8/1/2005	7.4	16	
N						
T0600100084	MW-1	ACT	8/1/2005	8.21	15.9	
N						
T0600100084	MW-3	ACT	8/1/2005	7.71	15	UNK
N						
T0600100084	MW-4	ACT	8/1/2005	8.58	17.8	UNK
N						

Electronic Submittal Information

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

SUCCESSFUL GEO_WELL CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	8/23/2005 4:39:01 PM

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

Back to Main Menu

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

Electronic Submittal Information

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

UPLOADING A GEO_WELL FILE

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

Submittal Title:	**3Q 2005 BP/ARCO 2162 GEOWELL**
Submittal Date/Time:	**8/23/2005 4:40:13 PM**
Confirmation Number:	**9952589273**

Back to Main Menu

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CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

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

SUCCESSFUL EDF CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	8/23/2005 4:45:45 PM
GLOBAL ID:	T0600100084
FILE UPLOADED:	ARCO#2162-EDF-MOH0260.zip

No errors were found in your EDF upload file.

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

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

Click here to view the detections report for this upload.

ARCO # 02162
15135 HESPERIAN BLVD
SAN
LEANDRO, CA 94578

Regional Board - Case #: 01-0091
SAN FRANCISCO BAY RWQCB (REGION 2) - **(RDB)**
Local Agency (lead agency) - Case #: 1259
ALAMEDA COUNTY LOP - **(RWS)**

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	2
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
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%	N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	N

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

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

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

Electronic Submittal Information

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

Your EDF file has been succcessfully uploaded!

Confirmation Number: 7080104887
Date/Time of Submittal: 8/23/2005 4:47:02 PM
Facility Global ID: T0600100084
Facility Name: ARCO # 02162
Submittal Title: 3Q 2005 BP/ARCO 2162 EDF
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

ARCO # 02162
15135 HESPERIAN BLVD
SAN LEANDRO, CA 94578

Regional Board - Case #: 01-0091
SAN FRANCISCO BAY RWQCB (REGION 2) - **(RDB)**
Local Agency (lead agency) - Case #: 1259
ALAMEDA COUNTY LOP - **(RWS)**

CONF #	TITLE	QUARTER
7080104887	3Q 2005 BP/ARCO 2162 EDF	Q3 2005

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	8/23/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	2
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
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%	N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	N

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

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

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