PO-2436

Atlantic Richfield Company
(a BP affiliated company)

6 Centerpointe Drive, Room 161
La Palma, CA 90623-1066
Phone: (714) 670-5303
Fax: (714) 670-5195

January 25, 2005

Re: Fourth Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #4977
2770 Castro Valley Blvd.
Castro Valley, California
URS Project #38486724

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

Submitted by:

Kyle Christie
Environmental Business Manager

RO-2436

URS

January 25, 2005

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Fourth Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #4977
2770 Castro Valley Blvd
Castro Valley, California
URS Project #38486724

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2004 Groundwater Monitoring Report* for ARCO Service Station #4977, located at 2770 Castro Valley Blvd, Castro Valley, 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

REGISTERED GEOLOGIST
ROBERT M. HORWATH
NO. 5925
4/05
STATE OF CALIFORNIA

Enclosure: Fourth Quarter 2004 Groundwater Monitoring Report

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

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

REPORT

FOURTH QUARTER 2004 GROUNDWATER MONITORING REPORT

ARCO SERVICE STATION #4977
2770 CASTRO VALLEY BLVD
CASTRO VALLEY, CALIFORNIA

Prepared for
RM

January 25, 2005

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486724

Date: January 25, 2005

Quarter: 4Q 04

RM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.:	4977	Address:	2770 Castro Valley Blvd, Castro Valley, CA
RM Environmental Business Manager:			Paul Supple
Consulting Co./Contact Person:			URS Corporation / Scott Robinson
Consultant Project No.:			38486724
Primary Agency:			Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (Fourth – 2004):

1. Prepared and submitted Third Quarter 2004 Groundwater Monitoring Report.
2. Performed fourth quarter groundwater monitoring event on December 15, 2004.

WORK PROPOSED FOR NEXT QUARTER (First – 2005):

1. Prepare and submit this Fourth Quarter 2004 Groundwater Monitoring Report.
2. Perform first quarter 2005 groundwater monitoring event.

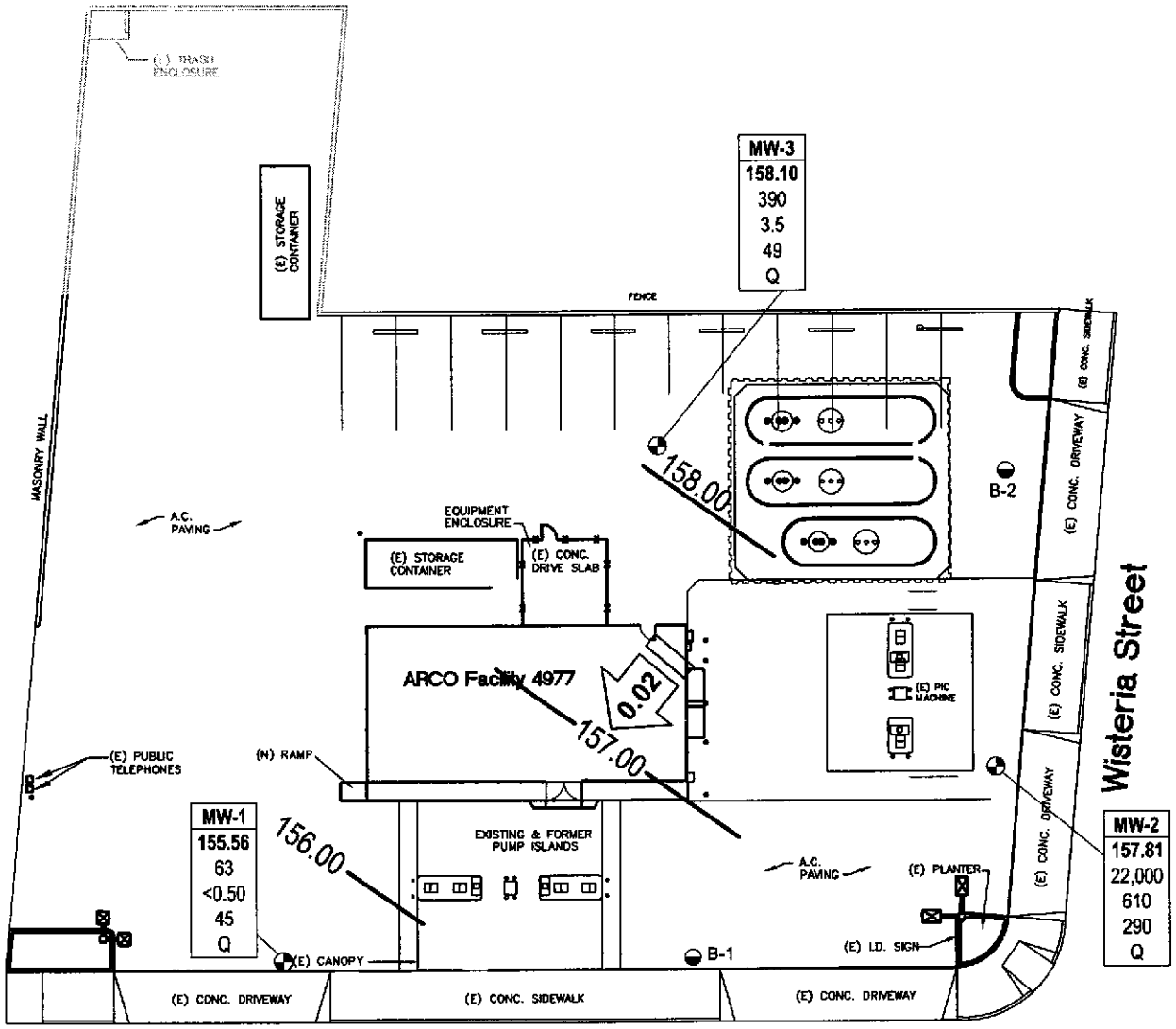
Current Phase of Project:	Groundwater monitoring/sampling
Frequency of Groundwater Sampling:	Quarterly: Wells MW-1 through MW-3
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	Sheen in well MW-2
Current Remediation Techniques:	Natural Attenuation
Approximate Depth to Groundwater:	6.43 ft (MW-3) to 7.88 ft (MW-1)
Groundwater Gradient (direction):	South
Groundwater Gradient (magnitude):	0.02 feet per foot

DISCUSSION:

During sampling, well MW-1 dewatered at 10 gallons and well MW-2 dewatered at 12 gallons. A sheen was also noted in MW-2 during sampling. Gasoline range organics (GRO) were detected at or above laboratory reporting limits in the three wells sampled this quarter at concentrations ranging from 63 µg/L (MW-1) to 22,000 µg/L (MW-2). Benzene was detected at or above laboratory reporting limits in two wells at concentrations of 3.5 µg/L (MW-3) and 610 µg/L (MW-2). Methyl-tert-butyl ether (MTBE) was detected at or above laboratory reporting limits in three wells at concentrations ranging from 45 µg/L (MW-1) to 290 µg/L (MW-2). Tert-butyl alcohol (TBA), tert-amyl methyl ether (TAME), and ethyl tert-butyl ether (ETBE) were each detected at or above laboratory reporting limits in well MW-3 at respective concentrations of 110 µg/L, 0.61 µg/L, and 0.52 µg/L.

ATTACHMENTS:

- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – December 15, 2004
- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Fuel Additives Analytical Data
- Table 3 - Groundwater Flow Direction and Gradient
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – Error Check Report and EDF/Geowell Submittal Confirmation



LEGEND

- MONITORING WELL
- SOIL BORING
- Well / ELEV / GRO / Benzene / MTBE / Q — WELL DESIGNATION; GROUNDWATER ELEVATION (FT ABOVE MSL); CONCENTRATION OF GRO, BENZENE AND MTBE IN GROUNDWATER (µg/L); SAMPLING FREQUENCY
- < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
- Q SAMPLED QUARTERLY
- 156.00 GROUNDWATER ELEVATION CONTOUR (FT ABOVE MSL)
- 0.02 GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)

NORTH

0 30 60

SCALE IN FEET

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

URS	Project No. 38486724 Arco Service Station #4977 2770 Castro Valley Boulevard Castro Valley, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Fourth Quarter 2004 (December 15, 2004)	FIGURE 1

Jan 21, 2005 - 1:54pm
X:\x_env_master\BP GEM\Sites\Scott Robinson\Paul Supple\4977\Monitoring\Qtr. 4, 2004\4977-4Q04-GW.dwg

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #4977

2770 Castro Valley Blvd., Castro Valley, 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	4/19/2002	--		161.11	5.00	15.00	11.21	149.90	660	12	1.3	4.3	0.8	38	--	--
	9/27/2002	--		161.11	5.00	15.00	9.29	151.82	130	7.7	0.87	5.4	0.79	39	1.7	6.9
	12/16/2002	--	a	161.11	5.00	15.00	8.55	152.56	77	1.8	<0.50	0.69	<1.0	42	1.6	6.9
	3/11/2003	--		161.11	5.00	15.00	8.07	153.04	140	9.8	<0.50	5.6	<0.50	20	1.4	7.4
	6/17/2003	--		161.11	5.00	15.00	8.31	152.80	510	60	1.4	81	<1.0	23	2.2	7
	9/18/2003	--	b	161.11	5.00	15.00	9.45	151.66	72	2.4	1.4	1.6	1.5	39	2.7	7
	12/11/2003	P		161.11	5.00	15.00	8.80	152.31	79	1.5	<0.50	1.5	4.4	48	2.1	7.0
	03/11/2004	P		163.44	5.00	15.00	7.61	155.83	<50	1.3	<0.50	0.77	1.3	17	1.4	6.8
	06/02/2004	P		163.44	5.00	15.00	8.95	154.49	53	1.4	<0.50	0.93	<0.50	39	2.3	7.1
	09/22/2004	P		163.44	5.00	15.00	9.42	154.02	70	<0.50	<0.50	<0.50	<0.50	48	1.7	6.8
	12/15/2004	**P**		**163.44**	**5.00**	**15.00**	**7.88**	**155.56**	**63**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**45**	**1.8**	**6.9**
MW-2	4/19/2002	--		161.87	5.00	15.00	6.59	155.28	28,000	970	120	860	6,900	760	--	--
	9/27/2002	--		161.87	5.00	15.00	7.18	154.69	17,000	1,400	<50	1,200	3,700	1,400	1.5	6.8
	12/16/2002	--	a	161.87	5.00	15.00	7.31	154.56	17,000	1,000	<50	980	3,300	980	1.9	6.8
	3/11/2003	--		161.87	5.00	15.00	6.02	155.85	24,000	1,600	70	1,300	4,300	920	1.7	7.4
	6/17/2003	--		161.87	5.00	15.00	6.31	155.56	28,000	1,300	55	1,300	4,500	610	1.4	6.9
	9/18/2003	--		161.87	5.00	15.00	7.61	154.26	19,000	960	63	1,100	3,100	580	2.7	6.8
	12/11/2003	P		161.87	5.00	15.00	6.50	155.37	29,000	710	53	1,300	3,800	490	2.0	7.0
	03/11/2004	P		164.29	5.00	15.00	6.02	158.27	19,000	830	49	1,500	4,000	410	0.8	6.5
	06/02/2004	P		164.29	5.00	15.00	7.14	157.15	25,000	680	<50	1,300	3,900	240	4.3	7.1
	09/22/2004	--		164.29	5.00	15.00	7.63	156.66	15,000	980	<25	980	940	390	--	6.7
	12/15/2004	**P**	**c**	**164.29**	**5.00**	**15.00**	**6.48**	**157.81**	**22,000**	**610**	**26**	**1,300**	**3,200**	**290**	**0.3**	**6.9**
MW-3	4/19/2002	--		162.14	5.00	15.00	6.94	155.20	1,200	29	1.1	43	62	1,700	--	--
	9/27/2002	--		162.14	5.00	15.00	8.26	153.88	740	7.8	<2.5	6.8	4.4	1,100	1	6.7
	12/16/2002	--	a	162.14	5.00	15.00	6.76	155.38	1,200	13	<10	170	88	910	2.3	6.8
	3/11/2003	--		162.14	5.00	15.00	6.92	155.22	<2,500	<25	<25	<25	<25	470	1.7	7.5
	6/17/2003	--		162.14	5.00	15.00	7.44	154.70	<1,000	<10	<10	14	<10	530	1.9	7
	9/18/2003	--		162.14	5.00	15.00	8.43	153.71	470	4.8	<2.5	10	9.2	300	2.9	6.8
	12/11/2003	P		162.14	5.00	15.00	6.72	155.42	<500	<5.0	<5.0	7.0	13	180	1.9	6.9
	03/11/2004	P		164.53	5.00	15.00	6.09	158.44	360	1.9	<1.0	5.6	5.0	110	2.6	6.8
	06/02/2004	P		164.53	5.00	15.00	7.50	157.03	380	2.8	<0.50	8.0	2.1	43	3.6	7.3
	09/22/2004	P		164.53	5.00	15.00	8.00	156.53	270	<0.50	<0.50	0.54	<0.50	50	1.8	6.9
	12/15/2004	**P**		**164.53**	**5.00**	**15.00**	**6.43**	**158.10**	**390**	**3.5**	**<0.50**	**20**	**3.7**	**49**	**1.1**	**6.9**

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #4977
2770 Castro Valley Blvd., Castro Valley, CA

SYMBOLS AND ABBREVIATIONS:
< = not detected at or above laboratory reporting limits
--- = not measured, sampled, analyzed, applicable
BGS = below ground surface
DO = dissolved oxygen
DTW = depth to water
GRO/TPH-g = gasoline range organics (changed from C6-C10 to C4-C12 2Q2004)/total petroleum hydrocarbons in the gasoline range (C5-C9).
GWE = groundwater elevation
mg/L = milligrams per liter
MSL = above mean sea level
MTBE = methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted. (before 12/16/02)
P/NP = purged/not purged
pH = measured in field
ppm = parts per million
TOC = top of casing
ug/L = micrograms per liter

FOOTNOTES:
a =TPH, BTEX, and MTBE analyzed by EPA Method 8260B beginning on 4th quarter sampling event (12/16/02)
b = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose.
c = Sheen

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

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 inclusion of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

Wells were re-surveyed on 3/23/2004.

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

Table 2

Fuel Additives Analytical Data

ARCO Service Station #4977

2770 Castro Valley Blvd., Castro Valley, 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	12/16/2002	<50	<5.0	42	<0.50	<0.50	<0.50	<0.50	<0.50	
	3/11/2003	<100	<20	20	<0.50	<0.50	<0.50	<0.50	<0.50	
	6/17/2003	<200	<40	23	<1.0	<1.0	<1.0	<1.0	<1.0	
	9/18/2003	<100	<20	39	<0.50	<0.50	<0.50	<0.50	<0.50	a
	12/11/2003	<100	<20	48	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/11/2004	<100	<20	17	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/02/2004	<100	<20	39	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	48	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/15/2004	**<100**	**<20**	**45**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	a
MW-2	12/16/2002	<5,000	<500	980	<50	<50	<50	<50	<50	
	3/11/2003	<10,000	<2,000	920	<50	<50	<50	<50	<50	
	6/17/2003	<10,000	<2,000	610	<50	<50	<50	<50	<50	
	9/18/2003	<5,000	<1,000	580	<25	<25	<25	<25	<25	
	12/11/2003	<5,000	<1,000	490	<25	<25	<25	<25	<25	
	03/11/2004	<2,000	<400	410	<10	<10	<10	<10	<10	
	06/02/2004	<10,000	<2,000	240	<50	<50	<50	<50	<50	
	09/22/2004	<5,000	<1,000	390	<25	<25	<25	<25	<25	
	12/15/2004	**<2,000**	**<400**	**290**	**<10**	**<10**	**<10**	**<10**	**<10**	a
MW-3	12/16/2002	<1,000	<100	910	<10	<10	12	<10	<10	
	3/11/2003	<5,000	<1,000	470	<25	<25	<25	<25	<25	
	6/17/2003	<2,000	<400	530	<10	<10	<10	<10	<10	
	9/18/2003	<500	<100	300	<2.5	<2.5	3.2	<2.5	<2.5	
	12/11/2003	<1,000	<200	180	<5.0	<5.0	<5.0	<5.0	<5.0	
	03/11/2004	<200	570	110	<1.0	<1.0	<1.0	<1.0	<1.0	
	06/02/2004	<100	130	43	<0.50	<0.50	0.56	<0.50	<0.50	
	09/22/2004	<100	28	50	<0.50	<0.50	0.51	<0.50	<0.50	
	12/15/2004	**<100**	**110**	**49**	**<0.50**	**0.52**	**0.61**	**<0.50**	**<0.50**	a

Table 2

Fuel Additives Analytical Data

ARCO Service Station #4977
2770 Castro Valley Blvd., Castro Valley, CA

SYMBOLS AND ABBREVIATIONS:
< = Not detected at or above laboratory reporting limit
--- = Not sampled, analyzed
1,2-DCE = 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 = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose.

Table 3

Groundwater Gradient Data

ARCO Service Station #4977
2770 Castro Valley Blvd., Castro Valley, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
4/19/2002	Southwest	0.038
9/27/2002	Southwest	0.021
12/16/2002	Southeast	0.029
3/11/2003	South	0.024
6/17/2003	South-Southwest	0.022
9/18/2003	South-Southwest	0.022
3/11/2004	South-Southwest	0.024
6/2/2004	South	0.025
9/22/2004	South	0.025
12/15/2004	**South**	**0.020**

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

ATTACHMENT A

FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project # 041215-MD3 Date 12/15/04 Client Arco 4977

Site 2770 Castro Valley BLVD., Castro Valley

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					7.88	14.92		
MW-2	4					6.98	14.64		
MW-3	4					6.93	14.94		

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 041215-MW3	Station # 4977
Sampler: MW	Date: 12/15/04
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 14.92	Depth to Water: 7.88
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

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

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

Top of Screen: ____

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

4.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 13.8 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1131	70.9	6.9	1303	5	cloudy
1133	70.8	6.7	1290	10	"
	well dewatered @ 10				
1200	71.9	6.9	1385	—	cloudy, odor DTW=13.00

Did well dewater? (Yes) No		Gallons actually evacuated: 10	
Sampling Time: 1200		Sampling Date: 12/15/04	
Sample I.D.: MW-1		Laboratory: Pace (Sequoia) Other ____	
Analyzed for: GRO BTEX MTBE DRO		Other: Stat Scan	
D.O. (if req'd):	Pre-purge: ____ mg/L	Post-purge:	1.8 mg/L
O.R.P. (if req'd):	Pre-purge: ____ mV	Post-purge:	____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 041215-MW3	Station # 4977
Sampler: MP	Date: 12/15/04
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.64	Depth to Water: 6.98
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

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

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

Top of Screen: ___

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

5.3 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 15.9 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1141	71.0	6.7	1011	5.5	cloudy, odor, sheen
1142	71.2	6.7	1010	11	11
	Well dewatered @ 12				
12/5	70.3	6.9	1009	–	cloudy, odor, sheen
					DTW = 10.81

Did well dewater? (Yes) No		Gallons actually evacuated: 12	
Sampling Time: 1215		Sampling Date: 12/15/04	
Sample I.D.: MW-2		Laboratory: Pace (Sequoia) Other ___	
Analyzed for: GRO BTEX MTBE DRO		Other: See Sheet	
D.O. (if req'd):	Pre-purge: ___ mg/L	(Post-purge):	0.3 mg/L
O.R.P. (if req'd):	Pre-purge: ___ mV	Post-purge:	___ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 041215-MM3	Station # 4977
Sampler: MW	Date: 12/15/04
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.94	Depth to Water: 6.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

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

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

Top of Screen: ___

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

5.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 16.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1113	67.6	7.1	826	5.5	cloudy, odor
1114	70.3	6.9	849	11	clear, odor
1116	70.0	6.9	813	16.5	clear, odor

Did well dewater? Yes (No)		Gallons actually evacuated:	16.5
Sampling Time:	1125	Sampling Date:	12/15/04
Sample I.D.:	MW-3	Laboratory: Pace (Sequoia) Other ___	
Analyzed for: GRO BTEX MTBE DRO		Other:	See SOPC
D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	1.1 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:

4977

Station #

2770 Castro Valley Blvd., Castro Valley

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

45

added equip. rinse water_____

any other adjustments_____

TOTAL GALS. RECOVERED 45

loaded onto BTS vehicle # 59

BTS event #	time	date
090215-MD3	1220	02/15/09

signature

****

REC'D AT	time	date
		/ /

unloaded by signature_____

ATTACHMENT B

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

LABORATORY PROCEDURES

Laboratory Procedures

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

Sequoia
Analytical

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

4 January, 2005

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

RE: ARCO #4977, Castro Valley, CA
Work Order: MNL0535

Enclosed are the results of analyses for samples received by the laboratory on 12/16/04 09:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Leticia Reyes

Leticia Reyes For Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #4977, Castro Valley, CA	MNL0535
1333 Broadway, Suite 800	Project Number:G09JZ-0203	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	01/04/05 15:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNL0535-01	Water	12/15/04 12:00	12/16/04 09:46
MW-2	MNL0535-02	Water	12/15/04 12:15	12/16/04 09:46
MW-3	MNL0535-03	Water	12/15/04 11:25	12/16/04 09:46
TB-4977-12152004	MNL0535-04	Water	12/15/04 00:00	12/16/04 09:46

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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www.sequoialabs.com

URS Corporation [Arco]	Project:ARCO #4977, Castro Valley, CA	MNL0535
1333 Broadway, Suite 800	Project Number:G09JZ-0203	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	01/04/05 15:46

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MNL0535-01) Water Sampled: 12/15/04 12:00 Received: 12/16/04 09:46									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4L27006	12/27/04	12/27/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**45**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**63**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*78-129*		"	"	"	"	
MW-2 (MNL0535-02) Water Sampled: 12/15/04 12:15 Received: 12/16/04 09:46									
tert-Amyl methyl ether	ND	10	ug/l	20	4L27006	12/27/04	12/27/04	EPA 8260B	
Benzene	**610**	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	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Ethylbenzene	**1300**	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**290**	10	"	"	"	"	"	"	
Toluene	**26**	10	"	"	"	"	"	"	
Xylenes (total)	**3200**	10	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**22000**	1000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95 %*	*78-129*		"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #4977, Castro Valley, CA	MNL0535
1333 Broadway, Suite 800	Project Number:G09JZ-0203	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	01/04/05 15:46

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MNL0535-03) Water Sampled: 12/15/04 11:25 Received: 12/16/04 09:46									
tert-Amyl methyl ether	**0.61**	0.50	ug/l	1	4L27006	12/27/04	12/27/04	EPA 8260B	
Benzene	**3.5**	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**110**	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	**0.52**	0.50	"	"	"	"	"	"	
Ethylbenzene	**20**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**49**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**3.7**	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**390**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project:ARCO #4977, Castro Valley, CA	MNL0535
1333 Broadway, Suite 800	Project Number:G09JZ-0203	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	01/04/05 15:46

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 4L27006 - EPA 5030B P/T / EPA 8260B										
Blank (4L27006-BLK1)				Prepared & Analyzed: 12/27/04						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							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	*4.75*		"	*5.00*		*95*	*78-129*			
Laboratory Control Sample (4L27006-BS1)				Prepared & Analyzed: 12/27/04						
tert-Amyl methyl ether	10.8	0.50	ug/l	10.0		108	82-140			
Benzene	9.53	0.50	"	10.0		95	69-124			
tert-Butyl alcohol	50.2	20	"	50.0		100	56-131			
Di-isopropyl ether	10.5	0.50	"	10.0		105	76-130			
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106	77-132			
1,2-Dichloroethane	11.1	0.50	"	10.0		111	77-136			
Ethanol	150	100	"	200		75	31-143			IC
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	81-121			
Ethylbenzene	9.87	0.50	"	10.0		99	84-132			
Methyl tert-butyl ether	11.4	0.50	"	10.0		114	63-137			
Toluene	9.46	0.50	"	10.0		95	78-129			
Xylenes (total)	28.6	0.50	"	30.0		95	83-137			
Surrogate: 1,2-Dichloroethane-d4	*4.55*		"	*5.00*		*91*	*78-129*			

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #4977, Castro Valley, CA	MNL0535
1333 Broadway, Suite 800	Project Number:G09JZ-0203	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	01/04/05 15:46

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 4L27006 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (4L27006-BS2)				Prepared & Analyzed: 12/27/04						
Benzene	4.72	0.50	ug/l	6.40		74	69-124			
Ethylbenzene	8.06	0.50	"	7.52		107	84-132			
Methyl tert-butyl ether	8.12	0.50	"	9.92		82	63-137			
Toluene	32.8	0.50	"	31.9		103	78-129			
Xylenes (total)	40.2	0.50	"	36.6		110	83-137			
Gasoline Range Organics (C4-C12)	382	50	"	440		87	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.53*		"	*5.00*		*91*	*78-129*			
Laboratory Control Sample Dup (4L27006-BSD1)				Prepared & Analyzed: 12/27/04						
tert-Amyl methyl ether	11.0	0.50	ug/l	10.0		110	82-140	2	20	
Benzene	10.4	0.50	"	10.0		104	69-124	9	20	
tert-Butyl alcohol	52.2	20	"	50.0		104	56-131	4	20	
Di-isopropyl ether	11.0	0.50	"	10.0		110	76-130	5	20	
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	77-132	0.9	20	
1,2-Dichloroethane	11.4	0.50	"	10.0		114	77-136	3	20	
Ethanol	194	100	"	200		97	31-143	26	20	RB
Ethyl tert-butyl ether	10.4	0.50	"	10.0		104	81-121	2	20	
Ethylbenzene	10.8	0.50	"	10.0		108	84-132	9	20	
Methyl tert-butyl ether	11.3	0.50	"	10.0		113	63-137	0.9	20	
Toluene	10.3	0.50	"	10.0		103	78-129	9	20	
Xylenes (total)	32.0	0.50	"	30.0		107	83-137	11	20	
Surrogate: 1,2-Dichloroethane-d4	*4.51*		"	*5.00*		*90*	*78-129*			
Matrix Spike (4L27006-MS1)	**Source: MNL0534-07**			Prepared & Analyzed: 12/27/04						
Benzene	2240	25	ug/l	320	2100	44	69-124			LN
Ethylbenzene	728	25	"	376	330	106	84-132			
Methyl tert-butyl ether	502	25	"	496	37	94	63-137			
Toluene	1680	25	"	1600	12	104	78-129			
Xylenes (total)	3260	25	"	1830	1300	107	83-137			
Gasoline Range Organics (C4-C12)	32300	2500	"	22000	12000	92	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.44*		"	*5.00*		*89*	*78-129*			

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #4977, Castro Valley, CA	MNL0535
1333 Broadway, Suite 800	Project Number:G09JZ-0203	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	01/04/05 15:46

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 4L27006 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (4L27006-MSD1)	**Source: MNL0534-07**			Prepared & Analyzed: 12/27/04						
Benzene	2370	25	ug/l	320	2100	84	69-124	6	20	
Ethylbenzene	767	25	"	376	330	116	84-132	5	20	
Methyl tert-butyl ether	524	25	"	496	37	98	63-137	4	20	
Toluene	1800	25	"	1600	12	112	78-129	7	20	
Xylenes (total)	3400	25	"	1830	1300	115	83-137	4	20	
Gasoline Range Organics (C4-C12)	34400	2500	"	22000	12000	102	70-124	6	20	
Surrogate: 1,2-Dichloroethane-d4	*4.59*		"	*5.00*		*92*	*78-129*			

Sequoia Analytical

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #4977, Castro Valley, CA Project Number:G09JZ-0203 Project Manager:Scott Robinson	MNL0535 **Reported:** 01/04/05 15:46

Notes and Definitions

RB	RPD exceeded method control limit; % recoveries within limits.
LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
IC	Calib. verif. is within method limits but outside contract limits
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

REVISED 12/17

Page 1 of 1

bp

Project Name: ARCO 4977 Analytical for QMR sampling

BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 4977 > Historical/BL

State or Lead Regulatory Agency: Alameda County Environmental Health Agency

Requested Due Date (mm/dd/yy): 10 WORKING and 12/26/06

On-site Time:	1050	Temp:	60
Off-site Time:	1220	Temp:	68
Sky Conditions:			
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name: Sequoia	
Address: 885 Jarvis Drive	
Morgan Hill, CA 95037	
Lab PM: Lisa Race	
Tele/Fax: 408.782.8156 / 408.782.6308	
BP/AR PM Contact: Paul Supple	
Address: P.O. Box 6549	
Moraga, CA 94570	
Tele/Fax: 925.299.8891 / 925.299.8872	

BP/AR Facility No.:	4977
BP/AR Facility Address:	2770 Castro Valley Blvd., Castro Valley, CA
Site Lat/Long:	37.694794 / -122.084
California Global ID No.:	T0600100089
Enfos Project No.:	G09IZ-0203
Provision or RCOP:	Provision
Phase/WBS:	04 - Mon/Remed by Natural Attenuation
Sub Phase/Task:	03 - Analytical
Cost Element:	05 - Subcontracted Costs

Consultant/Contractor:	URS
Address:	1333 Broadway, Suite 800
	Oakland, CA 94612
Consultant/Contractor Project No.:	38486574
Consultant/Contractor PM:	Scott Robinson
Tele/Fax:	510.874.3280 / 510.874.3268
Report Type & QC Level:	Level 1 with EDF
E-mail EDD To:	Donna.Cosper@urscorp.com
Invoice to:	Atlantic Richfield Company

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO/BTEX (8260)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: EDB, 1,2-DCA (8260)	Requested Analysis: Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-1	1200	12/14/06		W		01	3				X		X	X	X	X	MNL0535
2	MW-2	1215	"		W		02	3				X		X	X	X	X	
3	MW-3	1225	"		W		03	3				X		X	X	X	X	
4	TB-4977-121406		12/14/06		W		04	2				X						ON HOLD per client
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time

Sampler's Name: John Young

Sampler's Company: Blaine Tech

Shipment Date:

Shipment Method:

Shipment Tracking No:

Special Instructions:

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

BLAINE TECH SERVICES FAX:1+408+573+7771 DEC 19 2006 10:24 P.02

Fax Transmittal

TO Lisa Race

DATE 12/16/2004

Total pages including cover sheet 2

OF Sequoia Lab - Morgan Hill

FROM

Michael Ninokata

(408)573-0555 ext. 202

REMARKS: Sending correction to COC.

Site: ARCO 4977 - 2770 Castro Valley Blvd., Castro Valley

Event date: 12/15/04

Please note sample ID TB-4977-121504 to be placed on hold and addition of 14 day TAT

Thanks

Chain of Custody Record

Project Name: ARCO 4977 Analytical for QMR sampling
BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 4977 > HistoricalBL
State or Lead Regulatory Agency: Alameda County Environmental Health Agency
Requested Due Date (mm/dd/yy): 5 DAY TAT

On-site Time:	0950	Temp:	60
Off-site Time:	1220	Temp:	65
Sky Conditions:			
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name: Sequoia	BP/AR Facility No.: 4977	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 2770 Castro Valley Blvd., Castro Valley, CA	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.694794 / -122.084	Oakland, CA 94612
Lab PM: Lisa Race	California Global ID No.: T0600100089	Consultant/Contractor Project No.: 38486574
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G09JZ-0203	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: MDL0535

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO/BTEX (8260)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: EDB, 1,2-DCA (8260)	Requested Analysis: Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-1	1200	12/15/04		W		01	3				X		X	X	X	X	
2	MW-2	1215	1/1		W		02	3				X		X	X	X	X	
3	MW-3	1125	1/		W		03	3				X		X	X	X	X	
4	TB-4977-12152004		12/15/04		W		04	2				X						
5																		
6																		
7																		
8																		
9																		
10																		

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: John Young		12/16/04	913		12/16/04	913
Sampler's Company: Blaine Tech		12/16/04	9445		12/16/04	9445
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

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

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ARCo 4977
REC. BY (PRINT): TD
WORKORDER: MDL6535

DATE REC'D AT LAB: 12/16/04
TIME REC'D AT LAB: 0946
DATE LOGGED IN: 12-16-04

For Regulatory Purposes?
DRINKING WATER YES / NO
WASTE WATER YES / 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) Present / Absent Intact / Broken*	01	A-C	MW-1	VOA (3)	HCl	—	W	12/15/04	
2. Chain-of-Custody Present / Absent*	02	1	1 -2	1	1	1	1	1	
3. Traffic Reports or Packing List: Present / Absent	03	1	1 -3	1	1	1	1	1	
4. Airbill: Airbill / Sticker Present / Absent	04	A,B	TB-4977-121504	1	(2)				
5. Airbill #:									
6. Sample Labels: Present / Absent									
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper Preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*									
14. Temp Rec. at Lab: 2.5 Is temp 4 +/-2°C? Yes / No**									

(Acceptance range for samples requiring thermal pres.)
**Exception (if any): METALS / DFF ON ICE or Problem COC

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

ATTACHMENT C

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

Electronic Submittal Information

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

SUCCESSFUL GEO_WELL CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	1/11/2005 4:56:51 PM

Processing is complete. No errors were found!
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UPLOADING A GEO_WELL FILE

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

Submittal Title:	**4Q2004 QMR Geowell ARCO Site 4977**
Submittal Date/Time:	**1/11/2005 4:57:44 PM**
Confirmation Number:	**5731052994**

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CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

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SUCCESSFUL EDF CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	1/11/2005 4:59:03 PM
GLOBAL ID:	T0600100089
FILE UPLOADED:	ARCO#4977-EDF-MNL0535.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
2770 CASTRO VALLEY BLVD
CASTRO VALLEY, CA 94546

Regional Board - Case #: 01-0097
SAN FRANCISCO BAY RWQCB (REGION 2) - **(RDB)**
Local Agency (lead agency) - Case #: 01-0097
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

WATER SAMPLES FOR 8021/8260 SERIES

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

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

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Electronic Submittal Information

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Your EDF file has been succcessfully uploaded!

Confirmation Number: 8939702391
Date/Time of Submittal: 1/11/2005 4:59:48 PM
Facility Global ID: T0600100089
Facility Name: ARCO
Submittal Title: 4Q 2004 QMR EDF ARCO Site 4977
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

ARCO 2770 CASTRO VALLEY BLVD CASTRO VALLEY, CA 94546	**Regional Board - Case #: 01-0097** SAN FRANCISCO BAY RWQCB (REGION 2) - **(RDB)** **Local Agency (lead agency) - Case #: 01-0097** ALAMEDA COUNTY LOP - **(RWS)**

CONF #	TITLE	QUARTER
8939702391	4Q 2004 QMR EDF ARCO Site 4977	Q4 2004

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	1/11/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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# FIELD POINTS WITH DETECTIONS	3
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- 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%	Y
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

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

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