



Atlantic Richfield Company  
(a BP affiliated company)

P.O. Box 6549  
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January 28, 2005

Re: Fourth Quarter 2004 Groundwater Monitoring and  
Remediation System Performance Report  
ARCO Service Station #608  
17601 Hesperian Boulevard  
San Lorenzo, California  
URS Project #38487168

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:

Paul Supple  
Environmental Business Manager



January 28, 2005

Mr. Robert Schultz  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Alameda, California 94502

**Re: Fourth Quarter 2004 Groundwater Monitoring and Remediation System Performance Report  
ARCO Service Station #0608  
17601 Hesperian Boulevard  
San Lorenzo, California  
URS Project #38487168**

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2004 Groundwater Monitoring and Remediation System Performance Report* for ARCO Service Station #0608, located at 17601 Hesperian Boulevard, San Lorenzo, California.

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

Sincerely,

**URS CORPORATION**

Scott Robinson  
Project Manager

John H. Madigan, P.E.  
Project Engineer



Enclosure: Fourth Quarter 2004 Groundwater Monitoring and Remediation System Performance Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS  
Mr. John Kaiser, Regional Water Quality Control Board - San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612

**REPORT**

**FOURTH QUARTER 2004  
GROUNDWATER MONITORING  
& REMEDIATION SYSTEM  
PERFORMANCE REPORT**

ARCO SERVICE STATION #0608  
17601 HESPERIAN BOULEVARD  
SAN LORENZO, CALIFORNIA

*Prepared for*  
RM

January 28, 2005

**URS**

URS Corporation  
1333 Broadway, Suite 800  
Oakland, California 94612

38487168

Date: January 28, 2005  
Quarter: 4Q 04

**RM QUARTERLY GROUNDWATER MONITORING AND  
REMEDATION SYSTEM PERFORMANCE REPORT**

Facility No.: 0608 Address: 17601 Hesperian Boulevard, San Lorenzo, California  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Consultant Project No.: 38487168  
Primary Agency: Alameda County Environmental Health (ACEH)

**WORK PERFORMED THIS QUARTER (Fourth – 2004):**

1. Prepared and submitted Third Quarter 2004 Groundwater Monitoring and Remediation System Performance Report.
2. Performed fourth quarter 2004 groundwater monitoring event on December 13, 2004
3. Performed four batch extraction events on monitoring well MW-10 on October 21<sup>st</sup>, November 4<sup>th</sup>, November 16<sup>th</sup>, and November 30<sup>th</sup>, 2004
4. Continued operation, maintenance and performance monitoring of the groundwater extraction and treatment (GWET) system.
5. Destroyed three domestic irrigation wells by pressure grouting that were associated with the site on November 18, 2004.
6. Continued monthly payments to homeowners for not using domestic irrigation wells.
7. Continued homeowner quarterly monitoring result notification program.
8. Submitted Monthly Discharge Reports to Oro Loma Sanitary District.

**WORK PROPOSED FOR NEXT QUARTER (First – 2005):**

1. Prepare and submit this Fourth Quarter 2004 Groundwater Monitoring and Remediation System Performance Report.
2. Perform first quarter 2005 groundwater monitoring event.
3. Continue operation, maintenance and performance monitoring of GWET system.
4. Continue monthly payments to homeowners for not using domestic irrigation wells.
5. Continue homeowner quarterly monitoring result notification program.
6. Submit Monthly Discharge Reports to Oro Loma Sanitary District.

**SITE SUMMARY:**

Current Phase of Project: Groundwater monitoring/sampling/remediation  
Frequency of Groundwater Sampling: See Table 4  
Frequency of Groundwater Monitoring: See Table 4  
Is Free Product (FP) Present On-Site: No



FP Recovered this Quarter	None		
Current Remediation Techniques:	GWET		
Approximate Depth to Groundwater:	8.46 feet (MW-14) to 11.16 feet (MW-5); 17.56 feet (E-1A) in groundwater extraction well while submersible pump was running.		
Groundwater Gradient (direction):	West-Southwest		
Groundwater Gradient (magnitude):	0.003 feet per foot		
Frequency of GWET System Field Monitoring:	Bi-weekly		
Frequency of GWET System Lab Sampling:	Monthly		
System Restart:	06/05/2000		
Extraction Well:	E-1A		
Permits for Discharge:	Oro Loma Sanitary District Permit No. SDP-037 Expires 08/04/2005		
Gallons of Groundwater Treated and Discharge for this Quarter:	161,974		
Total Gallons of Groundwater Treated and Discharged to Date:	7,990,335		
Total Operation Hours to Date:	62,535		
Mass Removal (pounds):	Quarterly	Cumulative	
GRO:	0.000	7.43	
Benzene:	0.000	0.31	
MTBE:	0.021	2.88	
GWET System Samples Collection Dates and Effluent Results (µg/L):	10/21/04	11/18/04	12/16/04
GRO:	<50	<50	<50
Benzene:	<0.50	<0.50	<0.50
MTBE:	<0.50	<0.50	<0.50

## **DISCUSSION:**

Gasoline range organics (GRO) were detected at or above the laboratory reporting limit in one of seven wells sampled this quarter at a concentration of 290 µg/L (MW-10). Methyl-tert-butyl ether (MTBE) was detected at or above the laboratory reporting limit in five wells at concentrations ranging from 5.4 µg/L (MW-5) to 110 µg/L (MW-10). Tert-amyl methyl ether (TAME) was detected at or above the laboratory reporting limit in four wells at concentrations ranging from 0.75 µg/L (E-1A) to 18 µg/L (MW-25). Tert-butyl alcohol was detected at or above laboratory reporting limit in two wells at concentrations of 45 µg/L (MW-25) and 220 µg/L (MW-10). No other fuel components were detected at or above the laboratory reporting limit in wells sampled this quarter. Well MW-15 was not sampled this quarter, as there was a car parked over the well during sampling.

Based on consistently low to non-detectable concentrations at or above laboratory reporting limits, URS recommends the following reductions in sampling frequency:

- 1) quarterly to semi-annually: MW-5, MW-8, MW-10, and MW-15;
- 2) semi-annually to annually: MW-9, MW-16, and MW-22;
- 3) quarterly to annually: MW-11.

Three domestic irrigation wells (675H, 17203VM, and 17371VM) were destroyed by pressure grouting at 25 pounds per square inch for five minutes with Portland Type I/II neat cement. Well destructions were authorized by each homeowner. Department of Water Resources Well Destruction Reports are included as Attachment E.

Domestic irrigation well 17372VM was sampled this quarter. No dissolved hydrocarbons were detected at or above the laboratory reporting limit in this well. The pump on domestic irrigation well 642H did not produce water after running for five minutes and therefore no sample was collected.

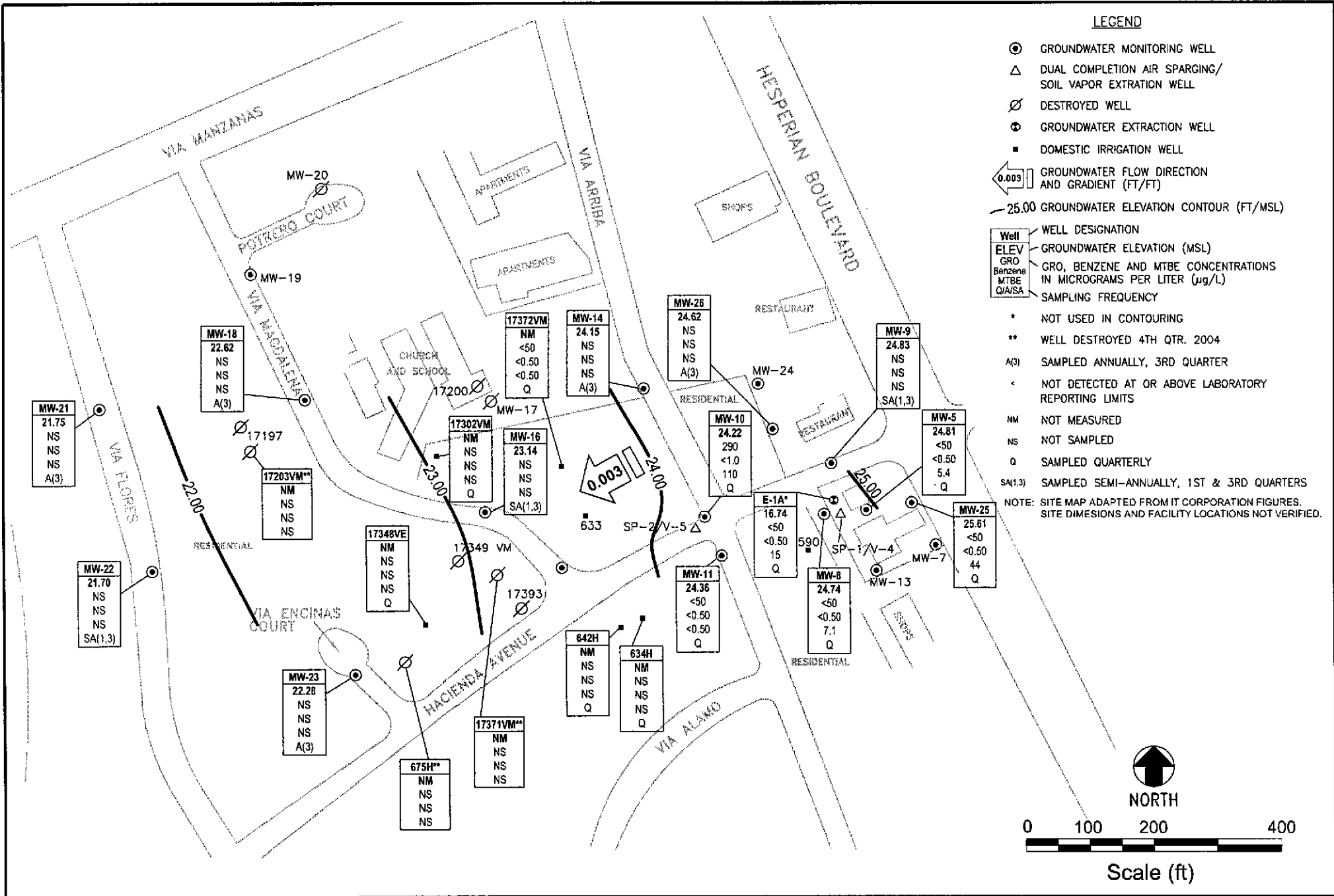
From October 21, 2004 to December 16, 2004, the GWET system operated 99.9 percent of the time. During this time period, a total of 161,974 gallons of groundwater was treated and discharged. Performance data and laboratory analytical data are included in Tables 5 and 6.

During the fourth quarter 2004, four batch extraction events were performed on monitoring well MW-10 on October 21<sup>st</sup>, November 4<sup>th</sup>, November 16<sup>th</sup>, and November 30<sup>th</sup>, 2004. An average of 1,865 gallons of groundwater was extracted during each event and disposed of off-site. The laboratory analytical data is presented in Table 7. Field sheets, certified analytical reports and chain-of-custody documentation are included as Attachment F.

## **ATTACHMENTS:**

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – December 13, 2004
- Figure 2 – Groundwater Extraction System Mass Removal Trend GRO/TPH-g and Benzene
- Figure 3 – Groundwater Extraction System Concentration Trend GRO/TPH-g and Benzene
- Figure 4 – Groundwater Extraction System Mass Removal Trend MTBE
- Figure 5 – Groundwater Extraction System Concentration Trend MTBE

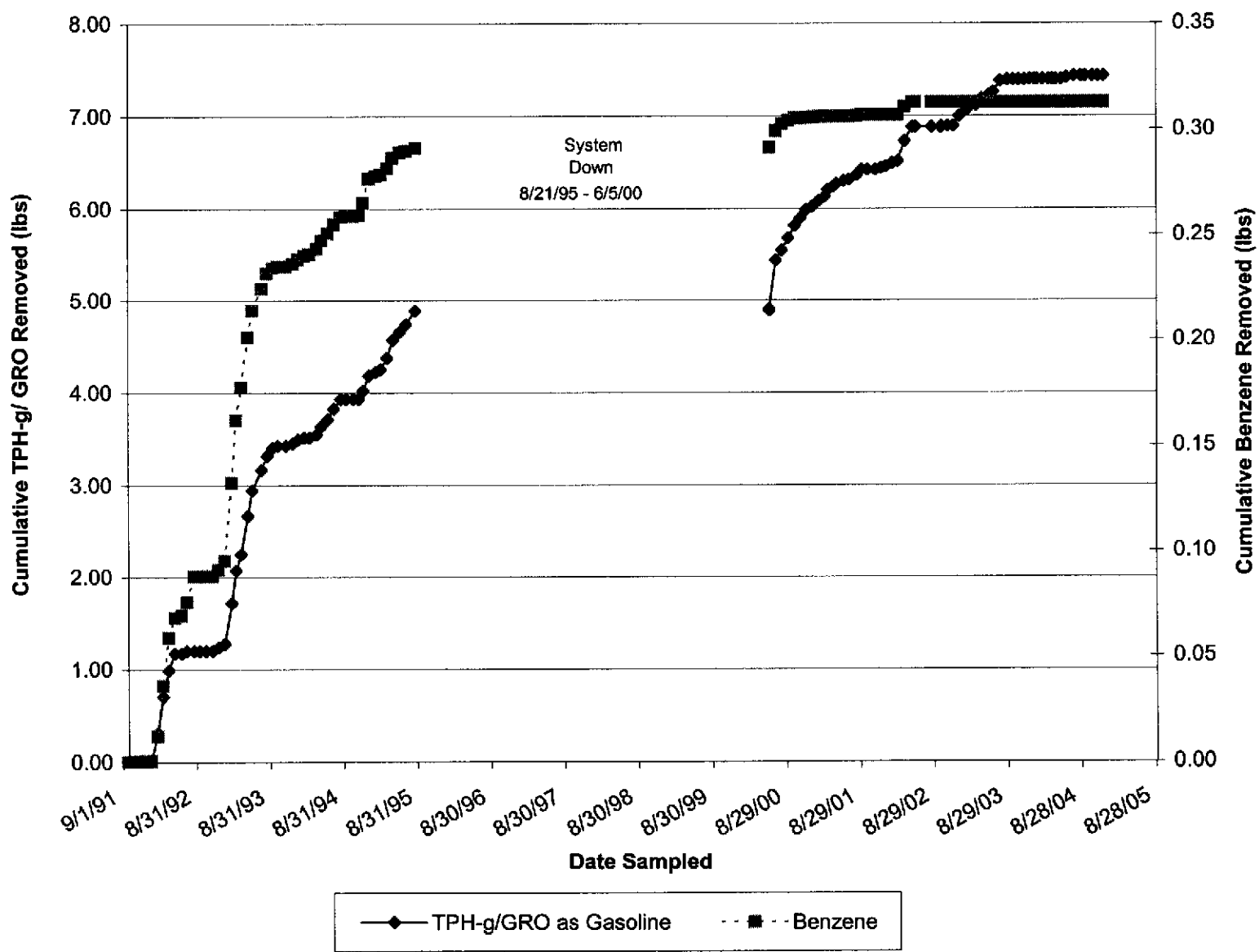
- Table 1 – Groundwater Analytical Data
- Table 2 – Fuel Additive Analytical Data
- Table 3 – Groundwater Flow Direction and Gradient
- Table 4 – Groundwater Sampling Schedule
- Table 5 – Groundwater Extraction System Performance Data
- Table 6 – Treatment System Analytical Data
- Table 7 – Batch Extraction Data
- 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 Tables
- Attachment D – Error Check Reports and EDF/Geowell Submittal Confirmations
- Attachment E – Well Destruction Reports
- Attachment F – Batch Extraction Field Sheets, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment G – O&M Field Data Sheets, Certified Analytical Reports, and Chain-of-Custody Records



<b>URS</b>	Project No. 38486707	<b>GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP</b>	FIGURE <b>1</b>
	Arco Service Station #0608 17601 Hesperian Boulevard San Lorenzo, California		

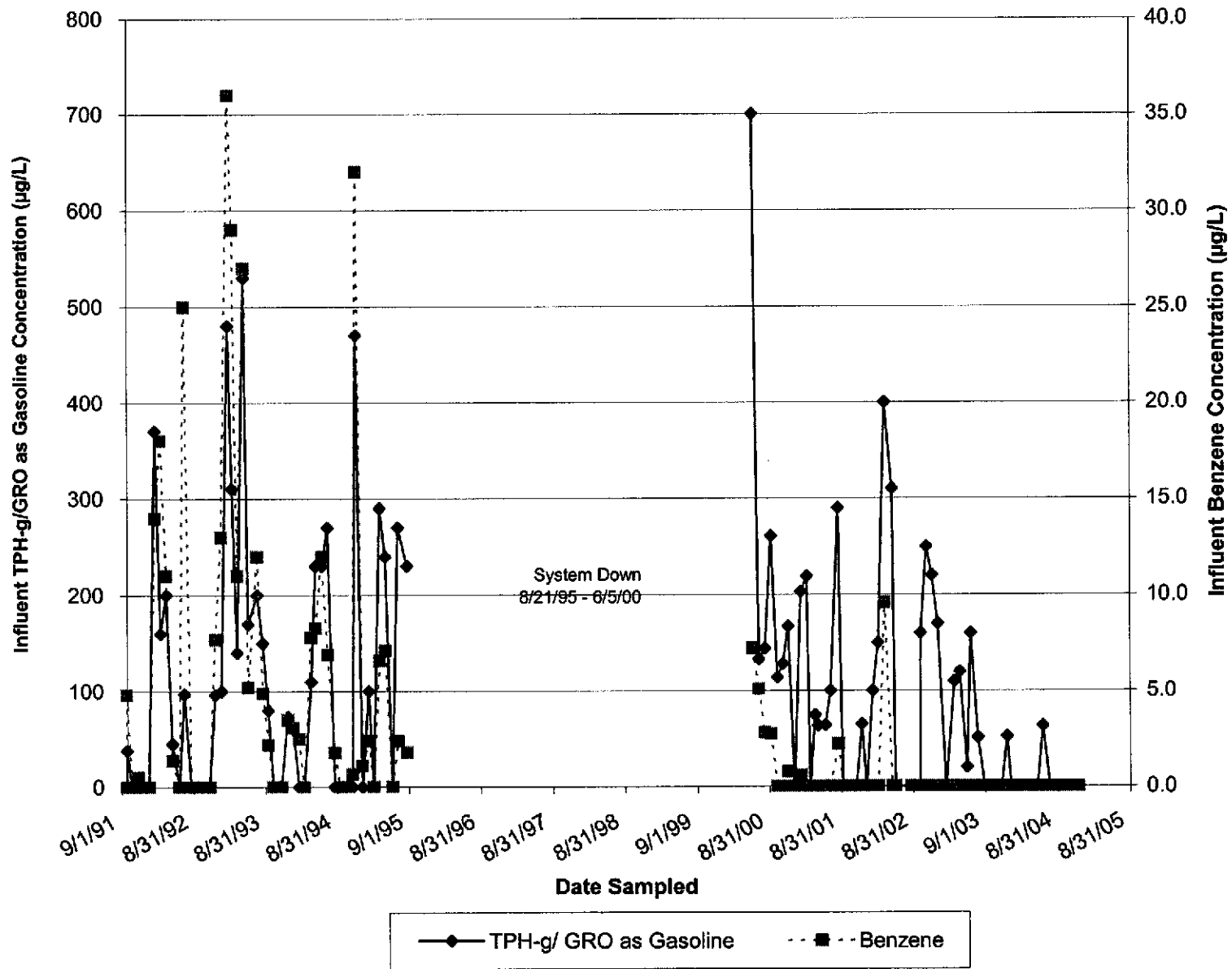
**Figure 2**  
**Groundwater Extraction System Mass Removal Trend**  
**TPH-g/GRO and Benzene**

ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California



**Figure 3**  
**Groundwater Extraction System Concentration Trend**  
**TPH-g/ GRO and Benzene**

ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California



**Figure 4**  
**Groundwater Extraction System Mass Removal Trend**  
**MtBE**

ARCO Service Station #0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

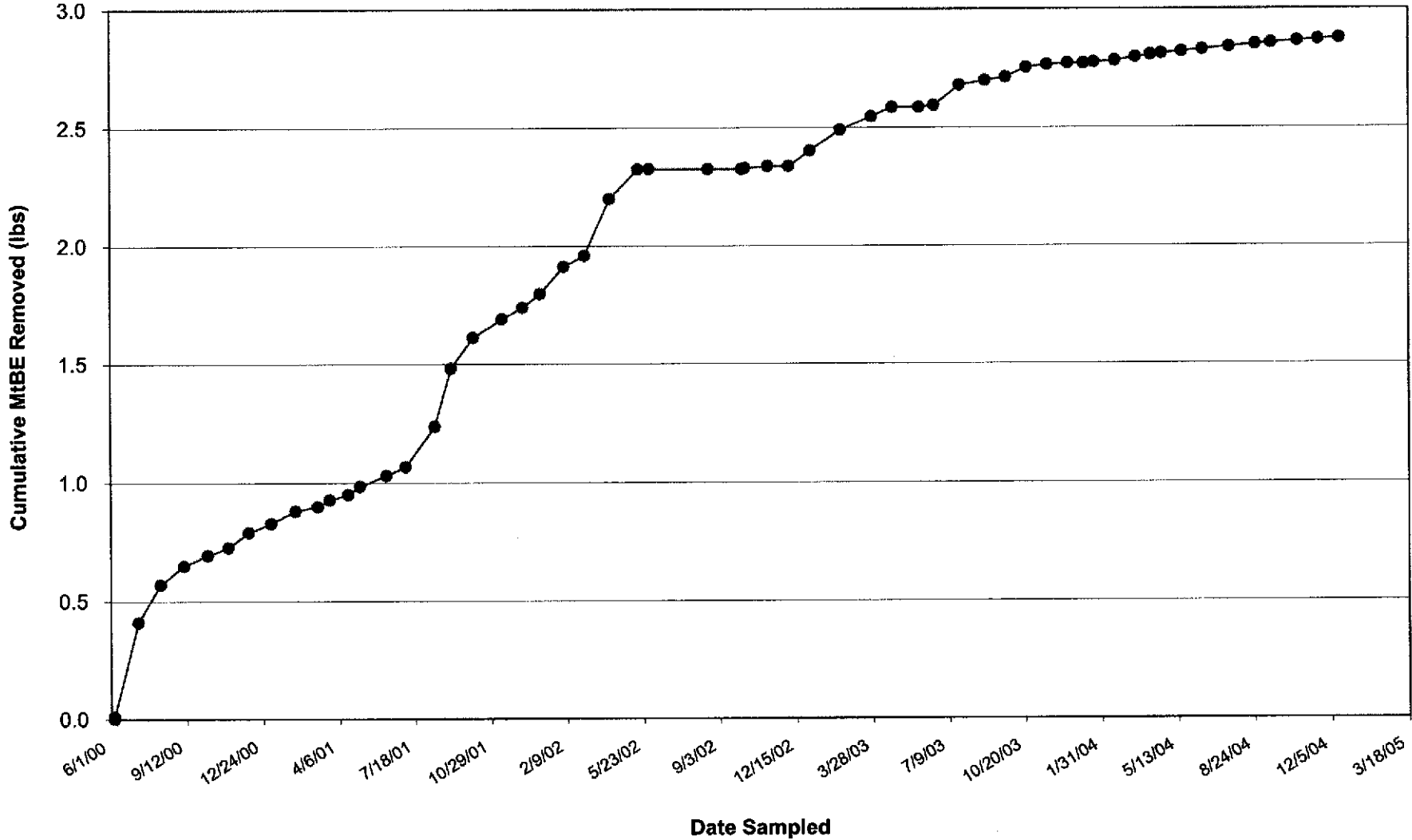


Figure 5  
Groundwater Extraction System Concentration Trend  
MtBE

ARCO Service Station #0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

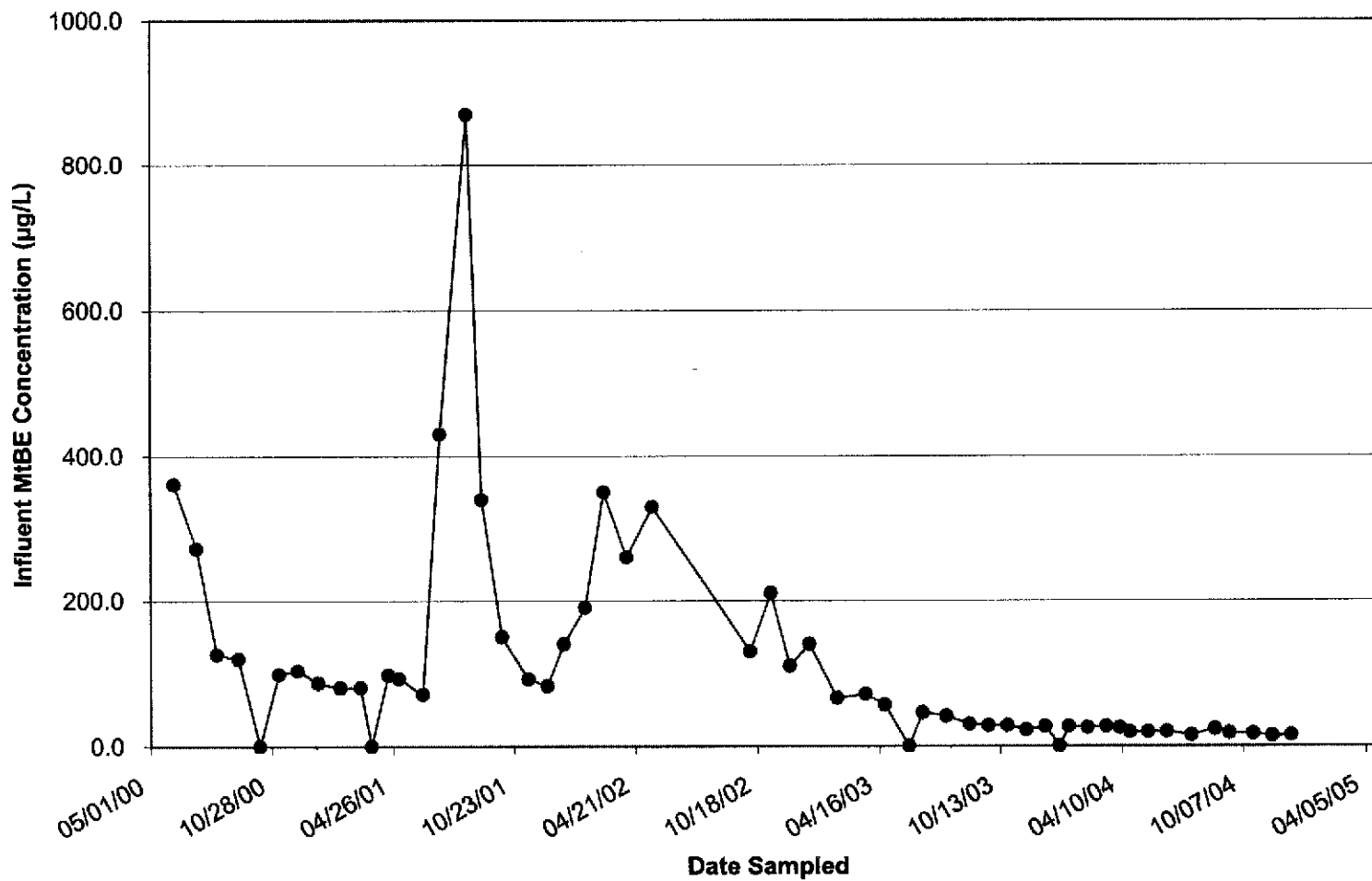




Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #0608

17601 Hesperian Blvd., San Lorenzo, 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
17349 VM	3/13/2002	--		--	--	--	--	--	<50	1	<0.50	<0.50	<0.50	49	--	--
	6/28/2002	--	l	--	--	--	--	--	66	0.50	<0.50	<0.50	<0.50	47/45	--	--
	9/20/2002	--	k	--	--	--	--	--	---	---	---	---	---	--	--	--
17372 VM	3/13/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	6/28/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	9/20/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	12/30/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	3/27/2003	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	9/15/2003	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	12/04/2003	NP		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.7	7.2
	03/10/2004	--	m	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	06/10/2004	NP	m	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	6.9
	09/22/2004	NP	m	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.6	7.2
	12/13/2004	NP		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.76	7.6
642 H	3/13/2002	--	j	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	9/20/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	12/30/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	3/27/2003	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	6/30/2003	--	j	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/15/2003	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	12/04/2003	NP		--	--	--	14.75	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	7.1
	06/10/2004	--	n	--	--	--	--	--	--	--	--	--	--	--	7.9	--
	09/22/2004	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2004	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
E-1A	3/13/2002	--	a	33.06	--	--	21.75	11.31	200	<0.50	<0.50	<0.50	<0.50	310	--	--
	6/28/2002	--	b	33.06	--	--	11.22	21.84	260	<0.50	11	1.2	1.2	150	--	--
	9/20/2002	--		33.06	--	--	11.80	21.26	250	1.18	0.52	<0.5	<1.5	218	--	--
	12/30/2002	--	c, e	33.06	--	--	16.33	16.73	190	<1.2	<1.2	<1.2	<1.2	190	--	--
	3/27/2003	--	g	33.06	--	--	13.63	19.43	96	<0.50	<0.50	<0.50	<0.50	60	--	--
	6/30/2003	P	h	33.06	--	--	9.60	23.46	140	<0.50	<0.50	<0.50	<0.50	37	--	--
	9/15/2003	P	g	33.06	--	--	17.80	15.26	83	<0.50	<0.50	<0.50	<0.50	49	--	--

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Blvd., San Lorenzo, 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
E-1A	12/04/2003	NP	g	33.06	--	--	18.73	14.33	<50	<0.50	<0.50	<0.50	<0.50	19	4.3	7.0
	03/10/2004	NP	g	34.30	--	--	16.78	17.52	<100	<1.0	<1.0	<1.0	<1.0	38	4.9	7.2
	06/10/2004	NP	g, p	34.30	--	--	16.67	17.63	74	<0.50	<0.50	<0.50	<0.50	46	2.0	6.7
	09/22/2004	NP		34.30	--	--	18.46	15.84	<50	<0.50	<0.50	<0.50	<0.50	17	--	7.0
	12/13/2004	NP		34.30	--	--	17.56	16.74	<50	<0.50	<0.50	<0.50	<0.50	15	7.13	6.9
MW-1	3/15/1996	--		175.04	--	--	14.24	160.80	---	---	--	---	---	--	--	--
MW-5	3/13/2002	--		33.99	--	--	11.46	22.53	530	<2.5	<2.5	<2.5	<2.5	230	--	--
	6/28/2002	--	b	33.99	--	--	11.75	22.24	180	<1.0	2.6	<1.0	1.2	230	--	--
	9/20/2002	--		33.99	--	--	12.15	21.84	<50	<0.50	<0.50	<0.50	<1.50	333	--	--
	12/30/2002	--		33.99	--	--	9.73	24.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	3/27/2003	--		33.99	--	--	11.24	22.75	100	<0.50	<0.50	<0.50	<0.50	59	--	--
	6/30/2003	--		33.99	--	--	11.62	22.37	91	<0.50	<0.50	<0.50	<0.50	58	--	--
	9/15/2003	--		33.99	--	--	12.13	21.86	<250	<2.5	<2.5	<2.5	<2.5	61	--	--
	12/04/2003	P		33.99	--	--	11.85	22.14	81	<0.50	<0.50	<0.50	<0.50	42	1.7	7.0
	03/10/2004	P		35.97	--	--	10.34	25.63	<50	<0.50	<0.50	<0.50	<0.50	9.5	1.2	6.6
	06/10/2004	P		35.97	--	--	11.65	24.32	55	<0.50	<0.50	<0.50	<0.50	31	1.3	7.0
	09/22/2004	P		35.97	--	--	12.23	23.74	<50	<0.50	<0.50	<0.50	<0.50	15	0.8	6.8
12/13/2004	P		35.97	--	--	11.16	24.81	<50	<0.50	<0.50	<0.50	<0.50	5.4	3.76	6.8	
MW-8	3/13/2002	--		32.79	--	--	10.30	22.49	500	<2.5	<2.5	<2.5	<2.5	1,100	--	--
	6/28/2002	--	b	32.79	--	--	10.30	22.49	150	<0.50	2.9	0.54	1.5	130	--	--
	9/20/2002	--		32.79	--	--	10.84	21.95	<50	<0.50	<0.50	<0.50	<1.50	273	--	--
	12/30/2002	--		32.79	--	--	8.31	24.48	<50	<0.50	<0.50	<0.50	<0.50	5.5	--	--
	3/27/2003	--		32.79	--	--	9.85	22.94	63	<0.50	<0.50	<0.50	<0.50	33	--	--
	6/30/2003	--		32.79	--	--	10.20	22.59	<50	<0.50	<0.50	<0.50	<0.50	15	--	--
	9/15/2003	--		32.79	--	--	10.69	22.10	59	<0.50	<0.50	<0.50	<0.50	41	--	--
	12/04/2003	P		32.79	--	--	10.43	22.36	<50	<0.50	<0.50	<0.50	<0.50	24	1.0	7.0
	03/10/2004	P		34.47	--	--	9.04	25.43	<50	<0.50	<0.50	<0.50	<0.50	2.4	0.9	6.8
	06/10/2004	P		34.47	--	--	10.40	24.07	<50	<0.50	<0.50	<0.50	<0.50	2.1	0.6	7.0
	09/22/2004	P		34.47	--	--	10.74	23.73	84	<0.50	<0.50	<0.50	<0.50	18	0.9	6.9
12/13/2004	P		34.47	--	--	9.73	24.74	<50	<0.50	<0.50	<0.50	<0.50	7.1	0.95	6.8	
MW-9	3/13/2002	--		32.11	--	--	9.49	22.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	6/28/2002	--		32.11	--	--	9.78	22.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Blvd., San Lorenzo, 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-9	9/20/2002	--		32.11	--	--	10.29	21.82	<50	<0.50	<0.50	<0.50	<1.50	<0.500	--	--	
	12/30/2002	--		32.11	--	--	7.60	24.51	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	
	3/27/2003	--		32.11	--	--	9.14	22.97	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	
	6/30/2003	--	u	32.11	--	--	9.64	22.47	--	--	--	--	--	--	--	--	
	9/15/2003	--		32.11	--	--	10.12	21.99	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	
	12/04/2003	--	u	32.11	--	--	--	--	--	--	--	--	--	--	--	--	
	03/10/2004	P		34.00	--	--	8.46	25.54	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	7.3	
	06/10/2004	--	u	34.00	--	--	9.88	24.12	--	--	--	--	--	--	--	--	
	09/22/2004	P		34.00	--	--	10.05	23.95	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	7.0	
	12/13/2004	--	u	34.00	--	--	9.17	24.83	--	--	--	--	--	--	--	--	
MW-10	3/13/2002	--		31.67	--	--	9.68	21.99	680	<5.0	<5.0	<5.0	<5.0	570	--	--	
	6/28/2002	--	b	31.67	--	--	9.84	21.83	820	<2.0	<2.0	<2.0	<2.0	1,200	--	--	
	9/20/2002	--		31.67	--	--	10.37	21.30	194	<0.50	<0.50	<0.50	<1.50	575	--	--	
	12/30/2002	--		31.67	--	--	7.70	23.97	<50	<0.50	<0.50	<0.50	<0.50	490	--	--	
	3/27/2003	--		31.67	--	--	9.33	22.34	530	<5.0	<5.0	<5.0	<5.0	330	--	--	
	6/30/2003	--		31.67	--	--	9.75	21.92	<1,000	<10	<10	<10	<10	750	--	--	
	9/15/2003	P		31.67	--	--	10.17	21.50	<500	<5.0	<5.0	<5.0	<5.0	430	--	--	
	12/04/2003	P		31.67	--	--	9.95	21.72	<250	<2.5	<2.5	<2.5	<2.5	110	--	6.9	
	03/10/2004	P		33.50	--	--	8.57	24.93	420	<2.5	<2.5	<2.5	<2.5	140	1.2	6.5	
	06/10/2004	--		33.50	--	--	9.95	23.55	600	<5.0	<5.0	<5.0	<5.0	410	--	6.9	
09/22/2004	P		33.50	--	--	10.23	23.27	560	<0.50	<0.50	<0.50	<0.50	87	0.8	6.9		
12/13/2004	P		33.50	--	--	9.28	24.22	290	<1.0	<1.0	<1.0	<1.0	110	1.6	6.5		
MW-11	3/13/2002	--		32.54	--	--	10.38	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	
	6/28/2002	--		32.54	--	--	10.74	21.80	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	
	9/20/2002	--		32.54	--	--	11.27	21.27	<50	<0.50	<0.50	<0.50	<1.50	<0.500	--	--	
	12/30/2002	--		32.54	--	--	8.73	23.81	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	
	3/27/2003	--		32.54	--	--	10.25	22.29	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	
	6/30/2003	--		32.54	--	--	10.65	21.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	
	9/15/2003	--		32.54	--	--	11.03	21.51	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	
	12/04/2003	P		32.54	--	--	10.84	21.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	7.0
	03/10/2004	P		34.55	--	--	9.41	25.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	6.9
	06/10/2004	--		34.55	--	--	10.82	23.73	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	6.9	
09/22/2004	P		34.55	--	--	11.10	23.45	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.9		

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #0608

17601 Hesperian Blvd., San Lorenzo, 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-11	12/13/2004	P		34.55	--	--	10.19	24.36	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.83	6.6
MW-14	3/13/2002	--		30.46	--	--	8.56	21.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	6/28/2002	--	q	30.46	--	--	9.12	21.34	--	--	--	--	--	--	--	--
	9/20/2002	--	q	30.46	--	--	9.79	20.67	--	--	--	--	--	--	--	--
	12/30/2002	--	q	30.46	--	--	7.13	23.33	--	--	--	--	--	--	--	--
	3/27/2003	--		30.46	--	--	8.53	21.93	<50	<0.50	0.86	<0.50	<0.50	<0.50	--	--
	6/30/2003	--	q	30.46	--	--	9.05	21.41	--	--	--	--	--	--	--	--
	9/15/2003	--	q	30.46	--	--	9.47	20.99	--	--	--	--	--	--	--	--
	12/04/2003	--	q	30.46	--	--	9.20	21.26	--	--	--	--	--	--	--	--
	03/10/2004	--	q	32.61	--	--	7.90	24.71	--	--	--	--	--	--	--	--
	06/10/2004	--	q	32.61	--	--	9.25	23.36	--	--	--	--	--	--	--	--
	09/22/2004	P		32.61	--	--	9.55	23.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	--
	12/13/2004	--		32.61	--	--	8.46	24.15	--	--	--	--	--	--	--	--
MW-15	3/13/2002	--		31.41	--	--	10.03	21.38	<50	<0.50	<0.50	<0.50	<0.50	21	--	--
	6/28/2002	--		31.41	--	--	10.41	21.00	<50	<0.50	<0.50	<0.50	<0.50	8.7	--	--
	9/20/2002	--		31.41	--	--	11.00	20.41	<50	<0.50	<0.50	<0.50	<1.50	21.6	--	--
	12/30/2002	--		31.41	--	--	8.33	23.08	<50	<0.50	<0.50	<0.50	<0.50	67	--	--
	3/27/2003	--		31.41	--	--	9.83	21.58	<50	<0.50	<0.50	<0.50	<0.50	17	--	--
	6/30/2003	--		31.41	--	--	10.00	21.41	<50	<0.50	<0.50	<0.50	<0.50	12	--	--
	9/15/2003	--		31.41	--	--	10.67	20.74	<50	<0.50	<0.50	<0.50	<0.50	10	--	--
	12/04/2003	P		31.41	--	--	10.47	20.94	<50	<0.50	<0.50	<0.50	<0.50	6.4	2.6	7.0
	03/10/2004	P		33.49	--	--	9.09	24.40	<50	<0.50	<0.50	<0.50	<0.50	11	1.5	6.9
	06/10/2004	P		33.49	--	--	10.50	22.99	<50	<0.50	<0.50	<0.50	<0.50	5.7	0.5	6.9
	09/22/2004	--	r	33.49	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2004	--	r	33.49	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	3/13/2002	--		31.39	--	--	10.51	20.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	6/28/2002	--		31.39	--	--	10.96	20.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	9/20/2002	--		31.39	--	--	10.47	20.92	<50	<0.50	<0.50	<0.50	<1.50	1.67	--	--
	12/30/2002	--		31.39	--	--	--	--	--	--	--	--	--	--	--	--
	3/27/2003	--		31.39	--	--	10.28	21.11	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	6/30/2003	--	i, q	31.39	--	--	10.87	20.52	--	--	--	--	--	--	--	--
	9/15/2003	--		31.39	--	--	11.25	20.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Blvd., San Lorenzo, 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-16	12/04/2003	--	u	31.39	--	--	10.99	20.40	--	--	--	--	--	--	--	--
	03/10/2004	P		33.41	--	--	9.66	23.75	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	6.5
	06/10/2004	--		33.41	--	--	11.06	22.35	--	--	--	--	--	--	--	--
	09/22/2004	P		33.41	--	--	11.40	22.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	7.0
	12/13/2004	--		33.41	--	--	10.27	23.14	--	--	--	--	--	--	--	--
MW-18	3/13/2002	--		29.70	--	--	9.46	20.24	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	6/28/2002	--	q	29.70	--	--	10.05	19.65	--	--	--	--	--	--	--	--
	9/20/2002	--	q	29.70	--	--	10.67	19.03	--	--	--	--	--	--	--	--
	12/30/2002	--	q	29.70	--	--	7.98	21.72	--	--	--	--	--	--	--	--
	3/27/2003	--		29.70	--	--	9.18	20.52	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	6/30/2003	--	q	29.70	--	--	9.68	20.02	--	--	--	--	--	--	--	--
	9/15/2003	--	q	29.70	--	--	10.30	19.40	--	--	--	--	--	--	--	--
	12/04/2003	--	q	29.70	--	--	9.99	19.71	--	--	--	--	--	--	--	--
	03/10/2004	--	q	31.87	--	--	8.78	23.09	--	--	--	--	--	--	--	--
	06/10/2004	--	q	31.87	--	--	10.12	21.75	--	--	--	--	--	--	--	--
	09/22/2004	P		31.87	--	--	10.45	21.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	6.9
	12/13/2004	--		31.87	--	--	9.25	22.62	--	--	--	--	--	--	--	--
	MW-21	3/13/2002	--		28.72	--	--	9.40	19.32	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--
6/28/2002		--	q	28.72	--	--	9.80	18.92	--	--	--	--	--	--	--	--
9/20/2002		--	q	28.72	--	--	10.27	18.45	--	--	--	--	--	--	--	--
12/30/2002		--	q	28.72	--	--	7.70	21.02	--	--	--	--	--	--	--	--
3/27/2003		--		28.72	--	--	9.05	19.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
6/30/2003		--	q	28.72	--	--	9.48	19.24	--	--	--	--	--	--	--	--
9/15/2003		--	q	28.72	--	--	10.06	18.66	--	--	--	--	--	--	--	--
12/04/2003		--	q	28.72	--	--	9.69	19.03	--	--	--	--	--	--	--	--
03/10/2004		--	q	30.67	--	--	8.60	22.07	--	--	--	--	--	--	--	--
06/10/2004		--	q	30.67	--	--	9.85	20.82	--	--	--	--	--	--	--	--
09/22/2004		P		30.67	--	--	10.17	20.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	6.9
12/13/2004		--		30.67	--	--	8.92	21.75	--	--	--	--	--	--	--	--
MW-22		3/13/2002	--		29.29	--	--	9.86	19.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
	6/28/2002	--		29.29	--	--	10.65	18.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	9/20/2002	--		29.29	--	--	11.05	18.24	<50	<0.50	<0.50	<0.50	<1.50	<0.500	--	--

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Blvd., San Lorenzo, 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-22	12/30/2002	--		29.29	--	--	8.28	21.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	3/27/2003	--		29.29	--	--	9.85	19.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	6/30/2003	--	i, q	29.29	--	--	10.20	19.09	--	--	--	--	--	--	--	--
	9/15/2003	--		29.29	--	--	10.81	18.48	<500	<5.0	<5.0	<5.0	<5.0	<5.0	--	--
	12/04/2003	--		29.29	--	--	10.49	18.80	--	--	--	--	--	--	--	--
	03/10/2004	P		31.43	--	--	9.24	22.19	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	6.6
	06/10/2004	--		31.43	--	--	10.60	20.83	--	--	--	--	--	--	--	--
	09/22/2004	P		31.43	--	--	10.94	20.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	7.0
	12/13/2004	--		31.43	--	--	9.73	21.70	--	--	--	--	--	--	--	--
MW-23	3/13/2002	--		30.99	--	--	11.01	19.98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	6/28/2002	--	q	30.99	--	--	11.59	19.40	--	--	--	--	--	--	--	--
	9/20/2002	--	q	30.99	--	--	12.00	18.99	--	--	--	--	--	--	--	--
	12/30/2002	--	q	30.99	--	--	9.42	21.57	--	--	--	--	--	--	--	--
	3/27/2003	--		30.99	--	--	11.00	19.99	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	6/30/2003	--	q	30.99	--	--	11.47	19.52	--	--	--	--	--	--	--	--
	9/15/2003	--	q	30.99	--	--	11.84	19.15	--	--	--	--	--	--	--	--
	12/04/2003	--	q	30.99	--	--	11.61	19.38	--	--	--	--	--	--	--	--
	03/10/2004	--	q	33.16	--	--	10.24	22.92	--	--	--	--	--	--	--	--
	06/10/2004	--	q	33.16	--	--	11.60	21.56	--	--	--	--	--	--	--	--
	09/22/2004	P		33.16	--	--	11.95	21.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.9
12/13/2004	--		33.16	--	--	10.88	22.28	--	--	--	--	--	--	--	--	
MW-25	3/13/2002	--		33.81	--	--	10.99	22.82	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	6/28/2002	--		33.81	--	--	11.26	22.55	<50	<0.50	<0.50	<0.50	<0.50	36	--	--
	9/20/2002	--		33.81	--	--	11.65	22.16	117	<0.50	<0.50	<0.50	<1.50	259	--	--
	12/30/2002	--	d, f	33.81	--	--	9.33	24.48	95	13	<0.50	<0.50	<0.50	98	--	--
	3/27/2003	--		33.81	--	--	10.82	22.99	150	<0.50	<0.50	<0.50	<0.50	90	--	--
	6/30/2003	--		33.81	--	--	11.20	22.61	<500	<5.0	<5.0	<5.0	<5.0	130	--	--
	9/15/2003	--		33.81	--	--	11.62	22.19	220	<1.0	<1.0	<1.0	<1.0	140	--	--
	12/04/2003	P		33.81	--	--	11.41	22.40	81	<0.50	<0.50	<0.50	<0.50	36	1.2	7.0
	03/10/2004	P		36.33	--	--	10.04	26.29	<50	<0.50	<0.50	<0.50	<0.50	14	1.2	6.7
	06/10/2004	P		36.33	--	--	11.40	24.93	<50	<0.50	<0.50	<0.50	<0.50	17	0.8	7.1
	09/22/2004	P		36.33	--	--	11.74	24.59	<50	<0.50	<0.50	<0.50	<0.50	29	1.1	7.0
	12/13/2004	P		36.33	--	--	10.72	25.61	<50	<0.50	<0.50	<0.50	<0.50	44	1.22	6.9

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0608  
17601 Hesperian Blvd., San Lorenzo, 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-26	3/13/2002	--		33.71	--	--	11.27	22.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	6/28/2002	--	q	33.71	--	--	11.70	22.01	--	--	--	--	--	--	--	--
	9/20/2002	--	q	33.71	--	--	12.10	21.61	--	--	--	--	--	--	--	--
	12/30/2002	--	q	33.71	--	--	9.60	24.11	--	--	--	--	--	--	--	--
	3/27/2003	--		33.71	--	--	11.15	22.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	6/30/2003	--	q	33.71	--	--	11.61	22.10	--	--	--	--	--	--	--	--
	9/15/2003	--	q	33.71	--	--	12.01	21.70	--	--	--	--	--	--	--	--
	12/04/2003	--	q	33.71	--	--	11.78	21.93	--	--	--	--	--	--	--	--
	03/10/2004	--	q	35.70	--	--	10.45	25.25	--	--	--	--	--	--	--	--
	06/10/2004	--	q	35.70	--	--	11.82	23.88	--	--	--	--	--	--	--	--
	09/22/2004	P		35.70	--	--	12.05	23.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.0
	12/13/2004	--		35.70	--	--	11.08	24.62	--	--	--	--	--	--	--	--

**Table 1**

**Groundwater Elevation and Analytical Data**  
ARCO Service Station #0608  
17601 Hesperian Blvd., San Lorenzo, CA

**SYMBOLS & ABBREVIATIONS:**

-- = Not analyzed/applicable/measured/available  
< = Not detected at or above laboratory reporting limit  
DO = Dissolved oxygen  
DTW = Depth to water in feet below ground surface  
ft bgs = feet below ground surface  
ft MSL = feet above mean sea level  
GRO = Gasoline Range Organics, range C4-C12  
GWE = Groundwater elevation measured in feet above mean sea level  
mg/L = Milligrams per liter  
MTBE = Methyl tert butyl ether  
NP = Not Purged  
P = Purge  
TOC = Top of casing measured in feet above mean sea level  
TPH-g = Total petroleum hydrocarbons as gasoline  
ug/L = Micrograms per liter

**NOTES:**

a = Well elevation data obtained from Quarterly Groundwater Monitoring and Site Status Report, Fourth Quarter 1994  
b = GRO/TPH-g Chromatogram Pattern: Unidentified Hydrocarbons C6-C10  
c = Hydrocarbon pattern for GRO/TPH-g is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.  
d = GRO/TPH-g Chromatogram Pattern: C6-C10  
e = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.  
f = The continuing calibration was outside the acceptance criteria. This should be considered in evaluating the result for its intended purpose.  
g = Groundwater extraction system pumping; inaccurate depth to water.  
h = Groundwater extraction system not pumping.  
i = Sampling frequency changed from quarterly to annually per recommendations in first quarter 2003 groundwater monitoring report.  
k = Well destroyed.  
l = MTBE confirmed by EPA Method 8260B (Method 8260B result is the second value)  
j = Well not accessible this quarter.  
m = No gauging port. Sample taken from spigot.  
n = Well inaccessible as homeowner not available  
o = Pump not working or well dry  
p = Gauged with pump in well. Opened cam lock fitting at wellhead.  
q = Well sampled annually  
r = Well inaccessible--car parked over well  
u = Well sampled semi-annually

**NOTES:**

Site surveyed to NAVD'88 datum on March 2, 2004.  
Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPHg has been changed to GRO. The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported. Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12  
Values for DO and pH were obtained through field measurements.

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



Table 2

## Fuel Additives Analytical Data

ARCO Service Station #0608  
17601 Hesperian Blvd., San Lorenzo, 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
17372 VM	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	9/15/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/04/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	03/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/13/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
642 H	3/13/2002	<100	<20	--	<0.50	<0.50	<0.50	--	--	
	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/30/2003	--	--	--	--	--	--	--	--	a
	9/15/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/04/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
E-1A	3/27/2003	<100	<20	60	<0.50	<0.50	2.3	--	--	
	6/30/2003	<100	<20	37	<0.50	<0.50	1.6	<0.50	<0.50	
	9/15/2003	<100	<20	49	<0.50	<0.50	2.4	<0.50	<0.50	
	12/04/2003	<100	<20	19	<0.50	<0.50	0.89	--	--	
	03/10/2004	<200	<40	38	<1.0	<1.0	2.3	<1.0	<1.0	
	06/10/2004	<100	<20	46	<0.50	<0.50	2.2	<0.50	<0.50	
	09/22/2004	<100	<20	17	<0.50	<0.50	0.98	<0.50	<0.50	
12/13/2004	<100	<20	15	<0.50	<0.50	0.75	<0.50	<0.50		
MW-5	3/27/2003	<100	24	59	<0.50	<0.50	2.2	--	--	
	6/30/2003	<100	22	58	<0.50	<0.50	2.1	<0.50	<0.50	
	9/15/2003	<500	<100	61	<2.5	<2.5	2.5	--	--	
	12/04/2003	<100	<20	42	<0.50	<0.50	1.9	--	--	
	03/10/2004	<100	<20	9.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/10/2004	<100	<20	31	<0.50	<0.50	1.0	<0.50	<0.50	
	09/22/2004	<100	<20	15	<0.50	<0.50	<0.50	<0.50	<0.50	
12/13/2004	<100	<20	5.4	<0.50	<0.50	<0.50	<0.50	<0.50		
MW-8	3/27/2003	<100	<20	33	<0.50	<0.50	0.53	--	--	
	6/30/2003	<100	<20	15	<0.50	<0.50	0.85	<0.50	<0.50	
	9/15/2003	<100	<20	41	<0.50	<0.50	5.3	--	--	
	12/04/2003	<100	<20	24	<0.50	<0.50	3.7	--	--	

Table 2

## Fuel Additives Analytical Data

ARCO Service Station #0608  
17601 Hesperian Blvd., San Lorenzo, 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-8	03/10/2004	<100	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/10/2004	<100	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	18	<0.50	<0.50	1.5	<0.50	<0.50	
	12/13/2004	<100	<20	7.1	<0.50	<0.50	0.78	<0.50	<0.50	
MW-9	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	9/15/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-10	3/27/2003	<1,000	<200	330	<5.0	<5.0	15	--	--	
	6/30/2003	<2,000	<400	750	<10	<10	28	<10	<10	
	9/15/2003	<1,000	<200	430	<5.0	<5.0	15	<5.0	<5.0	
	12/04/2003	<500	<100	110	<2.5	<2.5	4.8	--	--	
	03/10/2004	<500	120	140	<2.5	<2.5	<2.5	<2.5	<2.5	
	06/10/2004	<1,000	<200	410	<5.0	<5.0	11	<5.0	<5.0	
	09/22/2004	<100	54	87	<0.50	<0.50	3.8	<0.50	<0.50	
	12/13/2004	<200	220	110	<1.0	<1.0	4.5	<1.0	<1.0	
MW-11	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/30/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/15/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/04/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	03/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/13/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-14	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-15	3/27/2003	<100	<20	17	<0.50	<0.50	<0.50	--	--	
	6/30/2003	<100	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/15/2003	<100	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/04/2003	<100	<20	6.4	<0.50	<0.50	<0.50	--	--	
	03/10/2004	<100	<20	11	<0.50	<0.50	<0.50	<0.50	<0.50	
06/10/2004	<100	<20	5.7	<0.50	<0.50	<0.50	<0.50	<0.50		

Table 2

Fuel Additives Analytical Data

ARCO Service Station #0608  
17601 Hesperian Blvd., San Lorenzo, 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-16	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	9/15/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-18	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-21	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-22	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	9/15/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	03/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-23	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-25	3/27/2003	<100	<20	90	<0.50	<0.50	40	--	--	
	6/30/2003	<1,000	<200	130	<5.0	<5.0	81	<5.0	<5.0	
	9/15/2003	<200	<40	140	<1.0	<1.0	71	<1.0	<1.0	
	12/04/2003	<100	<20	36	<0.50	<0.50	17	--	--	
	03/10/2004	<100	<20	14	<0.50	<0.50	6.5	<0.50	<0.50	
	06/10/2004	<100	<20	17	<0.50	<0.50	7.2	<0.50	<0.50	
	09/22/2004	<100	<20	29	<0.50	<0.50	18	<0.50	<0.50	
	12/13/2004	<100	45	44	<0.50	<0.50	18	<0.50	<0.50	
MW-26	3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

**Table 2**

**Fuel Additives Analytical Data**

ARCO Service Station #0608  
17601 Hesperian Blvd., San Lorenzo, CA

**SYMBOLS & ABBREVIATIONS:**

-- = Not analyzed/applicable/measured/available

< = Not detected at or above the laboratory reporting limit.

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

ug/L = Micrograms per Liter

**NOTES:**

a. Well was not accessible this quarter.

Well E-1A was previously named MW-12.

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

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

**Table 3**

**Groundwater Gradient Data**  
ARCO Service Station #0608  
17601 Hesperian Blvd., San Lorenzo, CA

<b>Date Sampled</b>	<b>Approximate Flow Direction</b>	<b>Approximate Hydraulic Gradient</b>
6/28/2002	West	0.003
9/20/2002	West	0.00196
12/30/2002	West	0.003
3/27/2003	West	0.002
6/30/2003	West-Southwest	0.001
9/15/2003	West	0.003
12/4/2003	West-Southwest	0.003
3/10/2004	West	0.003
6/10/2004	West	0.006
9/22/2004	West	0.006
12/13/2004	West-Southwest	0.003

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.

**Table 4**  
**Groundwater Sampling Schedule**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard, San Lorenzo, California

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Sampling Frequency
<b>Groundwater Monitoring Wells</b>					
MW-5	X	X	X	X	Quarterly
MW-7	-----Removed from Program-----				
MW-8	X	X	X	X	Quarterly
MW-9	X		X		Semiannually (1st and 3rd Quarter)
MW-10	X	X	X	X	Quarterly
MW-11	X	X	X	X	Quarterly
E-1A	X	X	X	X	Quarterly
MW-13	-----Removed from Program-----				
MW-14			X		Annually (3rd Quarter)
MW-15	X	X	X	X	Quarterly
MW-16	X		X		Semiannually (1st and 3rd Quarter)
MW-17	-----Destroyed-----				
MW-18			X		Annually (3rd Quarter)
MW-19	-----Removed from Program-----				
MW-20	-----Destroyed-----				
MW-21			X		Annually (3rd Quarter)
MW-22	X		X		Semiannually (1st and 3rd Quarter)
MW-23	X				Annually (3rd Quarter)
MW-24	-----Removed from Program-----				
MW-25	X	X	X	X	Quarterly
MW-26			X		Annually (3rd Quarter)
<b>Domestic Irrigation Wells</b>					
590H	-----Destroyed-----				
633H	-----Destroyed-----				
634H	-----Pump Not Functional, Well Not In Use-----				
642H	X	X	X	X	Quarterly
675H	-----Destroyed-----				
17197 VM	-----Destroyed-----				
17200 VM	-----Destroyed-----				
17203 VM	-----Destroyed-----				
17302 VM	-----Pump Not Functional, Well Not In Use-----				
17348 VE	-----Pump Not Functional, Well Not In Use-----				
17349 VM	-----Destroyed-----				
17371 VM	-----Destroyed-----				
17372 VM	X	X	X	X	Quarterly
17393 VM	-----Destroyed-----				

Notes:

1. Beginning first quarter 2003, samples analyzed for TPH-g, BTEX compounds, and MTBE by EPA Method 8260B. Fuel oxygenates were also added to the analyte list at this time.
2. Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPH-g) has been changed to Gasoline Range Organics (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.

**Table 5**  
**Groundwater Extraction System Performance Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	GRO/TPH-g			Benzene			MTBE			Primary MtBE Carbon Loading (%)
						Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	
09/25/91	0	---	0	0	0.0	ND	---	0.00	---	0.000	0.00	---	---	---	0.0
09/26/91	---	---	1,144	1,144	---	38	0.00	0.00	4.8	0.000	0.00	---	---	---	0.0
10/22/91	26	95.9	12,844	11,700	7.6	ND	---	0.00	ND	0.000	0.00	---	---	---	0.0
11/22/91	77	93.1	52,532	39,688	13.0	ND	---	0.00	0.5	0.000	0.00	---	---	---	0.0
12/19/91	322	62.1	122,540	70,008	4.8	ND	---	0.00	ND	0.000	0.00	---	---	---	0.0
01/16/92	994	0.0	283,289	160,749	4.0	ND	---	0.00	ND	0.000	0.00	---	---	---	0.0
02/19/92	1,809	0.2	485,200	201,911	4.1	370	0.31	0.31	14.0	0.012	0.01	---	---	---	0.4
03/17/92	2,462	0.0	662,847	177,647	4.5	160	0.39	0.70	18.0	0.024	0.04	---	---	---	0.9
04/15/92	3,150	1.1	851,100	188,253	4.6	200	0.28	0.99	11.0	0.023	0.06	---	---	---	1.2
05/14/92	3,849	0.0	1,030,086	178,986	4.3	45	0.18	1.17	1.4	0.009	0.07	---	---	---	1.5
06/19/92	4,712	0.1	1,229,960	199,874	3.9	ND	---	1.17	ND	0.001	0.07	---	---	---	1.5
07/14/92	5,001	51.8	1,291,201	61,241	3.5	97	0.02	1.19	25.0	0.006	0.08	---	---	---	1.5
08/18/92	---	---	1,410,018	118,817	---	ND	---	1.19	ND	0.012	0.09	---	---	---	1.5
09/15/92	6,298	---	1,535,640	125,622	3.1	ND	---	1.19	ND	0.000	0.09	---	---	---	1.5
10/16/92	7,012	4.1	1,651,623	115,983	2.7	ND	---	1.19	ND	0.000	0.09	---	---	---	1.5
11/18/92	7,809	0.0	1,768,076	116,453	2.4	ND	---	1.19	ND	0.000	0.09	---	---	---	1.5
12/17/92	8,502	0.4	1,864,300	96,224	2.3	96	0.04	1.23	7.7	0.003	0.09	---	---	---	1.5
01/18/93	8,798	61.5	1,915,165	50,865	2.9	100	0.04	1.27	13.0	0.004	0.10	---	---	---	1.6
02/22/93	9,607	0.0	2,096,930	181,765	3.7	480	0.44	1.71	36.0	0.037	0.13	---	---	---	2.1
03/15/93	10,113	0.0	2,205,833	108,903	3.6	310	0.36	2.07	29.0	0.030	0.16	---	---	---	2.6
04/09/93	10,517	32.8	2,298,770	92,937	3.8	140	0.17	2.25	11.0	0.015	0.18	---	---	---	2.8
05/13/93	11,211	14.9	2,449,160	150,390	3.6	530	0.42	2.67	27.0	0.024	0.20	---	---	---	3.3
06/04/93	11,734	1.0	2,543,500	94,340	3.0	170	0.28	2.94	5.2	0.013	0.21	---	---	---	3.7
07/20/93	12,573	24.0	2,689,697	146,197	2.9	200	0.23	3.17	12.0	0.010	0.22	---	---	---	4.0
08/16/93	13,219	0.3	2,791,366	101,669	2.6	150	0.15	3.32	4.9	0.007	0.23	---	---	---	4.1
09/13/93	13,888	0.4	2,884,736	93,370	2.3	80	0.09	3.41	2.2	0.003	0.23	---	---	---	4.3
10/08/93	14,485	0.5	2,951,737	67,001	1.9	ND	0.02	3.43	ND	0.001	0.24	---	---	---	4.3
11/19/93	15,494	0.0	3,036,032	84,295	1.4	ND	0.00	3.43	ND	0.000	0.24	---	---	---	4.3
12/21/93	16,260	0.3	3,113,565	77,533	1.7	73	0.02	3.45	3.5	0.001	0.24	---	---	---	4.3
01/18/94	16,939	0.0	3,190,900	77,335	1.9	60	0.04	3.49	3.1	0.002	0.24	---	---	---	4.4
02/17/94	17,658	0.0	3,273,720	82,820	1.9	ND	0.02	3.51	2.5	0.002	0.24	---	---	---	4.4
03/15/94	18,235	7.5	3,344,249	70,529	2.0	ND	0.00	3.51	ND	0.001	0.24	---	---	---	4.4
04/21/94	18,849	30.8	3,418,537	74,288	2.0	110	0.03	3.55	7.8	0.002	0.24	---	---	---	4.4
05/13/94	19,351	5.1	3,478,910	60,373	2.0	230	0.09	3.63	8.3	0.004	0.25	---	---	---	4.5
06/14/94	19,680	57.1	3,518,608	39,698	2.0	230	0.08	3.71	12.0	0.003	0.25	---	---	---	4.6

**Table 5**  
**Groundwater Extraction System Performance Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	GRO/TPH-g			Benzene			MTBE			Primary MtBE Carbon Loading (%)
						Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	
07/14/94	20,145	35.4	3,574,408	55,800	2.0	270	0.12	3.83	6.9	0.004	0.26	---	---	---	4.8
08/17/94	20,920	5.0	51,260	91,580	2.0	ND	0.10	3.93	1.8	0.003	0.26	---	---	---	4.9
09/12/94	21,549	0.0	120,910	69,650	1.8	ND	0.00	3.93	ND	0.001	0.26	---	---	---	4.9
10/18/94	22,408	0.5	211,880	90,970	1.8	ND	0.00	3.93	ND	0.000	0.26	---	---	---	4.9
11/15/94	23,080	0.0	280,840	68,960	1.7	ND	0.00	3.93	0.7	0.000	0.26	---	---	---	4.9
12/05/94	23,489	14.8	325,830	44,990	1.8	470	0.09	4.02	32.0	0.006	0.27	---	---	---	5.0
01/04/95	24,205	0.6	408,740	82,910	1.9	ND	0.16	4.18	1.1	0.011	0.28	---	---	---	5.2
02/06/95	24,926	9.0	499,690	90,950	2.1	100	0.04	4.22	2.4	0.001	0.28	---	---	---	5.3
03/02/95	25,465	6.4	569,180	69,490	2.1	ND	0.03	4.25	ND	0.001	0.28	---	---	---	5.3
04/04/95	26,253	0.5	672,510	103,330	2.2	290	0.12	4.37	6.6	0.003	0.28	---	---	---	5.5
05/02/95	26,924	0.1	760,350	87,840	2.2	240	0.19	4.57	7.1	0.005	0.29	---	---	---	5.7
06/05/95	27,721	2.4	848,810	88,460	1.9	ND	0.09	4.65	ND	0.003	0.29	---	---	---	5.8 f
07/06/95	28,464	0.1	921,260	72,450	1.6	270	0.08	4.74	2.4	0.001	0.29	---	---	---	g
08/21/95	29,568	0.0	993,320	72,060	1.1	230	0.15	4.89	1.8	0.001	0.29	---	---	---	g
06/05/00	29,592	---	976,600	---	---	700	---	4.89	7.2	---	0.29	361.0	---	0.00	g
06/05/00	29,593	0.0	979,800	3,200	2.1	700	0.02	4.91	7.2	0.000	0.29	361.0	0.01	0.01	g
07/08/00	30,352	4.2	1,131,560	151,760	3.3	133	0.53	5.43	5.1	0.008	0.30	272.0	0.40	0.41	g
08/07/00	30,955	16.3	1,228,240	96,680	2.7	144	0.11	5.54	2.8	0.003	0.30	126.0	0.16	0.57	g
09/08/00	31,528	25.4	1,306,300	78,060	2.3	261	0.13	5.68	2.7	0.002	0.30	120.0	0.08	0.65	g
10/10/00	32,230	8.6	1,393,820	87,520	2.1	114	0.14	5.81	ND	0.001	0.31	ND	0.04	0.69	g
11/07/00	32,880	3.3	1,472,930	79,110	2.0	128	0.08	5.89	ND	0.000	0.31	98.6	0.03	0.73	g
12/05/00	33,516	5.4	1,548,840	75,910	2.0	167	0.09	5.99	0.8	0.000	0.31	104.0	0.06	0.79	g
01/04/01	33,924	43.3	1,595,340	46,500	1.9	ND	0.03	6.02	ND	0.000	0.31	86.8	0.04	0.83	g
02/06/01	34,556	20.2	1,672,330	76,990	2.0	203	0.07	6.08	0.6	0.000	0.31	80.5	0.05	0.88	g
03/08/01	34,776	69.5	1,698,860	26,530	2.0	219	0.05	6.13	ND	0.000	0.31	81.0	0.02	0.90	g
03/24/01	35,088	18.7	1,741,170	42,310	2.3	---	0.07	6.20	---	0.000	0.31	---	0.03	0.93	g
04/18/01	35,335	59.0	1,770,860	29,690	2.0	75	0.04	6.24	ND	0.000	0.31	97.5	0.02	0.95	g
05/04/01	35,716	0.0	1,812,690	41,830	1.8	63	0.02	6.26	ND	0.000	0.31	93.2	0.03	0.98	g
06/09/01	36,345	27.1	1,879,710	67,020	1.8	64	0.04	6.30	ND	0.000	0.31	71.0	0.05	1.03	g
07/05/01	36,469	80.1	1,897,180	17,470	2.3	100	0.01	6.31	ND	0.000	0.31	430.0	0.04	1.07	g
08/14/01	36,822	63.3	1,928,510	31,330	1.5	290	0.05	6.36	2.2	0.000	0.31	870.0	0.17	1.24	g
09/05/01	37,219	24.8	1,977,050	48,540	2.0	<100	0.06	6.42	<1.0	0.000	0.31	340.0	0.24	1.48	g
10/05/01	37,932	0.0	2,040,950	63,900	1.5	ND	0.00	6.42	ND	0.000	0.31	150.0	0.13	1.61	g
11/13/01	38,820	0.0	2,119,670	78,720	1.5	ND	0.00	6.42	ND	0.000	0.31	92.0	0.08	1.69	g
12/11/01	39,496	0.0	2,186,530	66,860	1.6	65	0.02	6.44	ND	0.000	0.31	83.0	0.05	1.74	g
01/04/02	40,063	0.0	2,248,700	62,170	1.8	<50	0.02	6.46	ND	0.000	0.31	140.0	0.06	1.80	g
02/05/02	40,830	0.2	2,333,090	84,390	1.8	100	0.04	6.49	ND	0.000	0.31	190.0	0.12	1.91	g



**Table 5**  
**Groundwater Extraction System Performance Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	GRO/TPH-g			Benzene			MTBE			Primary MtBE Carbon Loading (%)
						Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	
03/05/02	40,968	79.4	2,353,460	20,370	2.5	150	0.02	6.51	<1.2	0.000	0.31	350.0	0.05	1.96	--- g
04/08/02	41,735	6.0	2,448,360	94,900	2.1	400	0.22	6.73	9.6	0.004	0.31	260.0	0.24	2.20	--- g
05/16/02	42,642	0.6	2,499,320	50,960	0.9	310	0.15	6.88	<1.0	0.002	0.31	330.0	0.13	2.33	--- g
05/31/02	42,832	47.2	2,503,380	4,060	0.4	---	0.00	6.88	---	0.000	0.31	---	0.00	2.33	--- g
08/19/02	44,925	i	2,520,289	16,909	0.1	---	0.00	6.88	---	0.000	0.31	---	0.00	2.33	--- g
10/03/02	44,956	i	2,520,582	293	0.2	---	0.00	6.88	---	0.000	0.31	---	0.00	2.33	--- g
10/07/02	44,956	i	2,522,394	1,812	---	160	0.00	6.89	<1.0	0.000	0.31	130.0	0.00	2.33	--- g
11/07/02	0	j	2,527,925	5,531	---	250	0.01	6.89	<1.0	0.000	0.31	210.0	0.01	2.34	--- g
12/05/02	479	28.7	2,528,113	188	0.0	220	0.00	6.89	<1.0	0.000	0.31	110.0	0.00	2.34	--- g
01/03/03	1,174	0.1	2,591,359	63,246	1.5	170	0.10	7.00	<1.0	0.000	0.31	140.0	0.07	2.40	--- g
02/13/03	2,156	0.2	2,692,710	101,351	1.7	<250	0.07	7.07	<2.5	0.000	0.31	66.0	0.09	2.49	--- g
03/27/03	3,165	0.0	2,790,668	97,958	1.6	110	0.04	7.11	<0.50	0.000	0.31	71.0	0.06	2.55	--- g
04/24/03	4,172	0.0	2,865,050	74,382	1.2	120	0.07	7.19	<0.50	0.000	0.31	56.0	0.04	2.59	--- g
05/30/03	4,459	66.7	2,931,190	66,140	3.8	20	0.04	7.22	<5.0	0.000	0.31	<50	0.00	2.59	--- g
06/19/03	4,940	0.0	2,971,985	40,795	1.4	160	0.03	7.25	<5.0	0.000	0.31	46.0	0.01	2.59	--- g
07/24/03	5,331	86.3	2,972,362	181,694	1.4	51	0.12	7.38	<0.50	0.000	0.31	41.0	0.08	2.68	--- g
08/28/03	6,165	0.8	3,040,900	68,538	1.4	<50	0.01	7.39	<0.50	0.000	0.31	30.0	0.02	2.70	--- g
09/25/03	6,838	0.0	3,095,020	54,120	1.3	<50	0.00	7.39	<0.50	0.000	0.31	28.0	0.01	2.71	--- g
10/23/03	7,512	0.0	3,149,200	177,215	1.1	<50	0.00	7.39	<0.50	0.000	0.31	28.0	0.04	2.75	--- g
11/20/03	8,182	0.3	3,204,612	55,412	1.4	<50	0.00	7.39	<0.50	0.000	0.31	22.0	0.01	2.76	--- g
12/18/03	8,851	1.1	3,264,487	30,531	1.5	52	0.01	7.40	<0.50	0.000	0.31	27.0	0.00	2.77	--- g
01/08/04	9,356	1.0	3,312,485	47,998	1.6	--	0.00	7.40	--	0.000	0.31	--	0.00	2.77	--- g
01/22/04	9,690	0.7	3,344,994	32,509	1.6	<50	0.00	7.40	<0.50	0.000	0.31	27.0	0.00	2.77	--- g
02/19/04	10,357	1.6	3,410,457	32,947	1.7	<50	0.00	7.40	<0.50	0.000	0.31	25.0	0.00	2.78	--- g
03/18/04	11,030	0.0	3,480,800	70,343	1.7	<50	0.00	7.40	<0.50	0.000	0.31	27.0	0.02	2.80	--- g

**Table 5**  
**Groundwater Extraction System Performance Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	GRO/TPH-g			Benzene			MTBE			Primary MtBE Carbon Loading (%)
						Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	
04/07/04	11,509	0.2	3,524,179	43,379	1.5	<50	0.00	7.40	<0.50	0.000	0.31	25.0	0.01	2.81	--- g
04/22/04	11,869	0.0	3,552,144	27,965	1.3	<50	0.00	7.40	<0.50	0.000	0.31	19.0	0.01	2.81	--- g
05/19/04	12,522	0.0	3,607,015	54,871	1.4	<50	0.00	7.40	<0.50	0.000	0.31	19.0	0.01	2.82	--- g
06/16/04	13,198	0.0	3,664,594	57,579	1.4	63	0.02	7.41	<0.50	0.000	0.31	20.0	0.01	2.83	--- g
07/22/04	14,050	1.4	3,736,245	71,651	1.4	<50	0.02	7.43	<0.50	0.000	0.31	15.0	0.01	2.84	--- g
08/26/04	14,890	0.0	3,803,030	66,785	1.3	<50	0.00	7.43	<0.50	0.000	0.31	23.0	0.01	2.85	--- g
09/16/04	15,394	0.0	3,832,211	29,181	1.0	<50	0.00	7.43	<0.50	0.000	0.31	18.0	0.00	2.85	--- g
10/21/04	16,235	0.0	3,891,299	59,088	1.2	<50	0.00	7.43	<0.50	0.000	0.31	17.0	0.01	2.86	--- g
11/18/04	16,908	0.0	3,942,990	51,691	1.3	<50	0.00	7.43	<0.50	0.000	0.31	14.0	0.01	2.87	--- g
12/16/04	17,579	0.2	3,994,185	51,195	1.3	<50	0.00	7.43	<0.50	0.000	0.31	15.0	0.01	2.88	--- g
<b>REPORTING PERIOD:</b>						<b>10/21/04 to 12/16/04</b>									
<b>TOTAL GALLONS EXTRACTED:</b>						<b>7,990,335</b>									
<b>PERIOD GALLONS EXTRACTED:</b>						<b>161,974</b>									
<b>TOTAL POUNDS REMOVED:</b>						<b>7.43</b>			<b>0.31</b>			<b>2.88</b>			
<b>TOTAL GALLONS REMOVED:</b>						<b>1.22</b>			<b>0.04</b>			<b>0.47</b>			
<b>AVERAGE PERIOD FLOW RATE (gpm):</b>						<b>1.24</b>									
<b>PERIOD PERCENT OPERATIONAL:</b>						<b>99.9%</b>									
<b>PERIOD POUNDS REMOVED:</b>						<b>0.000</b>			<b>0.000</b>			<b>0.021</b>			
<b>PERIOD GALLONS REMOVED:</b>						<b>0.000</b>			<b>0.000</b>			<b>0.003</b>			

**Table 5**  
**Groundwater Extraction System Performance Data**  
Atlantic Richfield Company Service Station #0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

**SYMBOLS AND ABBREVIATIONS:**

gpm = Gallons per minute  
GRO = Gasoline range organics, C4 to C12 range  
µg/L = Micrograms per liter  
ND = Not detected at or above the laboratory reporting limit  
TPH-g = Total purgeable petroleum hydrocarbons as gasoline  
— = Not available/applicable/sampled  
< = Not detected at or above the laboratory reporting limit  
† = Assume same concentration as prior sampling event

Densities: Gasoline = 6.1 lbs/gallon; Benzene = 7.34 lbs/gallon; MTBE = 6.18 lbs/gallon (MTBE not quantified prior to 6/5/00)  
6.18 lbs/gallon (MTBE not quantified prior to 6/5/00)

**Footnotes:**

- a. Totalizer broken; volume estimated from hourmeter and flow rate.
- b. Volume estimated from hourmeter and instantaneous flow rate.
- c. Sewer totalizer replaced July 28, 1994; volume discharged estimated at 40,320 gallons for the period between July 14 and 28, 1994 at 2.0 gpm.
- d. GWE system temporarily shut down August 21, 1995.
- e. GWE system restarted June 5, 2000.
- f. Prior to June 5, 2000 primary carbon loading for benzene estimated using isotherm of 8 percent by weight.
- g. Cannot predict primary carbon MtBE loading because MtBE wasn't tracked prior to 6/5/00.
- h. System down during construction to main sewer line from approx. 6/25/01; restarted 8/14/01.
- i. Hour meter reading not functioning.
- j. Hour meter replaced.

Equations: Net Dissolved Concentration Removed [pounds] = Average influent concentration, [µg/L] x net volume (gallon) x conversion factor [µg to kg] x conversion factor [L to pounds]; (Net dissolved concentration removed is calculated by averaging influent concentrations)

**Notes:**

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

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

**Table 6**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>INFL (influent to primary carbon)</b>										
09/26/91	38	4.8	0.6	1.6	1.1	---	---	---	---	---
10/22/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
11/22/91	<30	0.52	<0.30	<0.30	<0.30	---	---	---	---	---
12/19/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
01/16/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
02/19/92	370	14	0.34	14	2.4	---	---	---	---	---
03/17/92	160	18	0.32	0.56	1.6	---	---	---	---	---
04/15/92	200	11	<0.30	7.3	0.77	---	---	---	---	---
05/14/92	45	1.4	<0.30	<0.30	<0.30	---	---	---	---	---
06/19/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
07/14/92	97	25	<0.50	8.5	<0.50	---	---	---	---	---
08/18/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
09/15/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
10/16/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
11/18/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
12/17/92	96	7.7	13	0.56	9.7	---	---	---	---	---
01/18/93	100	13	6.6	1.1	11	---	---	---	---	---
02/22/93	480	36	29	4.9	96	---	---	---	---	---
03/15/93	310	29	14	4.9	55	---	---	---	---	---
04/09/93	140	11	2.8	2.6	17	---	---	---	---	---
05/13/93	530	27	12	18	96	---	---	---	---	---
06/04/93	170	5.2	1.6	2.5	23	---	---	---	---	---
07/20/93	200	12	0.91	8.2	29	---	---	---	---	---
08/16/93	150	4.9	0.63	2.9	15	---	---	---	---	---
09/13/93	80	2.2	<0.50	<0.50	4.8	---	---	---	---	---
10/08/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
11/19/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
12/21/93	73	3.5	<0.50	1.9	8.4	---	---	---	---	---
01/18/94	60	3.1	<0.50	3.2	4.3	---	---	---	---	---
02/17/94	<50	2.5	<0.50	2.1	3.1	---	---	---	---	---
03/15/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
04/21/94	110	7.8	<1.0	9.6	<1.0	---	---	---	---	---
05/13/94	230	8.3	<0.50	14	6	---	---	---	---	---
06/14/94	230	12	<0.50	16	1.5	---	---	---	---	---
07/14/94	270	6.9	<0.50	15	1.9	---	---	---	---	---
08/18/94	<50	1.8	<0.50	1.5	<0.50	---	---	---	---	---
09/12/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
10/18/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
11/05/94	<50	0.66	<0.50	2.6	<0.50	---	---	---	---	---
12/05/94	470	32	0.59	29	6.2	---	---	---	---	---
01/04/95	<50	1.1	<0.50	1.4	<0.50	---	---	---	---	---
02/06/95	100	2.4	1.1	1.2	2.8	---	---	---	---	---
03/02/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
04/04/95	290	6.6	<0.50	10	1.7	---	---	---	---	---
05/02/95	240	7.1	<0.50	3.2	1.6	---	---	---	---	---
06/05/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
07/06/95	270	2.4	<0.50	7.6	1	---	---	---	---	---
08/21/95	230	1.8	<0.50	1.6	0.92	---	---	---	---	---

**Table 6**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>INFL (influent to primary carbon) (cont.)</b>										
06/05/00	700	7.24	<1.0	2.11	<1.0	361	--	--	--	--
07/08/00	133	5.09	0.598	<0.50	<0.50	272	--	--	--	--
08/10/00	144	2.8	<0.50	1.04	<0.50	126	--	--	--	--
09/08/00	261	2.74	0.826	0.626	<0.50	120	--	--	--	--
10/10/00	114	<0.50	1.68	0.843	<0.50	<2.5	--	--	--	--
11/07/00	128	<0.50	<0.50	<0.50	<0.50	98.6	--	--	--	--
12/05/00	167	0.775	<0.50	<0.50	<0.50	104	--	--	--	--
01/04/01	<50	<0.50	<0.50	<0.50	<0.50	86.8	--	--	--	--
02/06/01	203	0.572	<0.50	0.513	<0.50	80.5	--	--	--	--
03/08/01	219	<0.50	6.16	1.21	0.682	81	--	--	--	--
04/18/01	74.5	<0.50	<0.50	<0.50	<0.50	97.5	--	--	--	--
05/04/01	63.3	<0.50	<0.50	<0.50	<0.50	93.2	--	--	--	--
08/09/01	64	<0.50	<0.50	<0.50	<0.50	71	--	--	--	--
07/05/01	100	<0.50	2.5	<0.50	<0.50	430	--	--	--	--
08/14/01	290	2.2	3.5	<1.0	<1.0	870	--	--	--	--
09/05/01	<100	<1.0	<1.0	<1.0	<1.0	340	--	--	--	--
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	150	--	--	--	--
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	92	--	--	--	--
12/11/01	65	<0.50	0.58	<0.50	<0.50	83	--	--	--	--
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	140	--	--	--	--
02/05/02	100	<0.50	<0.50	<0.50	<0.50	190	--	--	--	--
03/05/02	150	<1.2	<1.2	<1.2	<1.2	350	--	--	--	--
04/08/02	400	9.6	<1.0	1.4	<1.0	260	--	--	--	--
05/16/02	310	<1.0	<1.0	<1.0	<1.0	330	--	--	--	--
10/07/02	160	4.1	<1.0	<1.0	<1.0	130	--	--	--	--
11/07/02	250	<0.50	10	0.7	0.77	210	--	--	--	--
12/05/02	220	<1.0	<1.0	<1.0	<1.0	110	--	--	--	--
01/03/03	170	<1.0	<1.0	<1.0	<1.0	140	--	--	--	--
2/13/03 <sup>1</sup>	<250	<2.5	<2.5	<2.5	<2.5	66	--	--	--	--
3/27/03 <sup>1</sup>	110	<0.50	<0.50	<0.50	<0.50	71	--	--	--	--
4/24/03 <sup>1</sup>	120	<0.50	<0.50	<0.50	<0.50	56	--	--	--	--
5/30/03 <sup>1</sup>	20	<0.50	<0.50	<0.50	<0.50	<50	--	--	--	--
06/19/03	160	<0.50	<0.50	<0.50	<0.50	46	--	--	--	--
07/24/03	51	<0.50	<0.50	<0.50	<0.50	41 (47) <sup>2</sup>	--	--	--	--
08/28/03	<50	<0.50	<0.50	<0.50	<0.50	30 (40) <sup>2</sup>	--	--	--	--
09/25/03	<50	<0.50	<0.50	<0.50	<0.50	28	--	--	--	--
10/23/03	<50	<0.50	<0.50	<0.50	<0.50	28 (28) <sup>2</sup>	--	--	--	--
11/20/03	<50	<0.50	<0.50	<0.50	<1.0	22	--	--	--	--
12/18/03	52	<0.50	<0.50	<0.50	<1.0	27	--	--	--	--
01/22/04	<50	<0.50	<0.50	<0.50	<1.0	27	--	--	--	--
02/19/04	<50	<0.50	<0.50	<0.50	<1.0	25	--	--	--	--
03/18/04	<50	<0.50	<0.50	<0.50	<1.0	27	--	--	--	--
04/07/04	<50	<0.50	<0.50	<0.50	<1.0	25	--	--	--	--
04/22/04	<50	<0.50	<0.50	<0.50	<1.0	19	--	--	--	--
05/19/04	<50	<0.50	<0.50	<0.50	<1.0	19	--	--	--	--
06/16/04	63	<0.50	<0.50	<0.50	<1.0	20	--	--	--	--
07/22/04	<50	<0.50	<0.50	<0.50	<1.0	15	--	--	--	--
08/26/04	<50	<0.50	<0.50	<0.50	<1.0	23	--	--	--	--
09/16/04	<50	<0.50	<0.50	<0.50	<1.0	18	--	--	--	--
10/21/04	<50	<0.50	<0.50	<0.50	<1.0	17	--	--	--	--
11/18/04	<50	<0.50	<0.50	<0.50	<1.0	14	--	--	--	--
12/16/04	<50	<0.50	<0.50	<0.50	<1.0	15	--	--	--	--

**Table 6**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>MID-1 (between primary and secondary carbons)</b>										
09/26/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
10/22/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
12/19/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
01/16/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
02/19/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
03/17/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
04/15/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
05/14/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
06/19/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
07/14/92	---	---	---	---	---	---	---	---	---	---
08/18/92	---	---	---	---	---	---	---	---	---	---
09/15/92	---	---	---	---	---	---	---	---	---	---
10/16/92	---	---	---	---	---	---	---	---	---	---
11/18/92	---	---	---	---	---	---	---	---	---	---
12/17/92	---	---	---	---	---	---	---	---	---	---
01/18/93	---	---	---	---	---	---	---	---	---	---
02/22/93	---	---	---	---	---	---	---	---	---	---
03/15/93	---	---	---	---	---	---	---	---	---	---
04/09/93	---	---	---	---	---	---	---	---	---	---
05/13/93	---	---	---	---	---	---	---	---	---	---
06/04/93	---	---	---	---	---	---	---	---	---	---
07/14/94	ND	ND	ND	ND	ND	---	---	---	---	---
08/17/94	---	---	---	---	---	---	---	---	---	---
09/12/94	---	---	---	---	---	---	---	---	---	---
10/18/94	---	---	---	---	---	---	---	---	---	---
11/05/94	---	---	---	---	---	---	---	---	---	---
12/05/94	---	---	---	---	---	---	---	---	---	---
01/04/95	---	---	---	---	---	---	---	---	---	---
02/06/95	---	---	---	---	---	---	---	---	---	---
03/02/95	---	---	---	---	---	---	---	---	---	---
06/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
07/08/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
08/10/00	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---
09/08/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---

**Table 6**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>MID-1 (cont.)</b>										
10/10/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
11/07/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
12/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
01/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
02/06/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
03/08/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
04/18/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
05/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	3.3	---	---	---	---
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	5.7	---	---	---	---
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	9	---	---	---	---
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	26	---	---	---	---
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	17	---	---	---	---
04/08/02	<50	<0.50	<0.50	<0.50	<0.50	39	---	---	---	---
05/16/02	<50	<0.50	<0.50	<0.50	<0.50	58	---	---	---	---
10/07/02	<50	<0.50	<0.50	<0.50	<0.50	55	---	---	---	---
11/07/02	<50	<0.50	<0.50	<0.50	<0.50	100	---	---	---	---
12/05/02	<50	<0.50	<0.50	<0.50	<0.50	51	---	---	---	---
01/03/03	<50	<0.50	<0.50	<0.50	<0.50	66	---	---	---	---
2/13/03 <sup>1</sup>	<250	<2.5	<2.5	<2.5	<2.5	130	---	---	---	---
3/27/03 <sup>1</sup>	<250	<2.5	<2.5	<2.5	<2.5	120	---	---	---	---
4/24/03 <sup>1</sup>	280	<2.5	<2.5	<2.5	<2.5	110	---	---	---	---
5/30/03 <sup>1</sup>	<250	<2.5	<2.5	<2.5	<2.5	140	---	---	---	---
06/19/03	<50	<0.50	<0.50	<0.50	<0.50	110	---	---	---	---
07/24/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
08/28/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
09/25/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
10/23/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5 (1.3) <sup>2</sup>	---	---	---	---
11/20/03	<50	<0.50	<0.50	<0.50	<1.0	1.1	---	---	---	---
12/18/03	<50	<0.50	<0.50	<0.50	<1.0	1.2	---	---	---	---
01/22/04	<50	<0.50	<0.50	<0.50	<1.0	1.3	---	---	---	---
02/19/04	<50	<0.50	<0.50	<0.50	<1.0	1.2	---	---	---	---
03/18/04	67	<0.50	<0.50	<0.50	<1.0	1.4	---	---	---	---
04/07/04	<50	<0.50	<0.50	<0.50	<1.0	1.5	---	---	---	---
04/22/04	<50	<0.50	<0.50	<0.50	<1.0	1.3	---	---	---	---
05/19/04	<50	<0.50	<0.50	<0.50	<1.0	2.0	---	---	---	---
06/16/04	<50	<0.50	<0.50	<0.50	<1.0	1.8	---	---	---	---
07/22/04	<50	<0.50	<0.50	<0.50	<1.0	1.6	---	---	---	---
08/26/04	<50	<0.50	<0.50	<0.50	<1.0	2.2	---	---	---	---
09/16/04	<50	<0.50	<0.50	<0.50	<1.0	2.1	---	---	---	---
10/21/04	<50	<0.50	<0.50	<0.50	<1.0	2.0	---	---	---	---
11/18/04	<50	<0.50	<0.50	<0.50	<1.0	1.5	---	---	---	---
12/16/04	<50	<0.50	<0.50	<0.50	<1.0	1.9	---	---	---	---

**Table 6**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>MID-2 (between secondary and tertiary carbons)</b>										
06/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
07/08/00	--	--	--	--	--	--	--	--	--	--
09/08/00	--	--	--	--	--	--	--	--	--	--
10/10/00	--	--	--	--	--	--	--	--	--	--
11/07/00	--	--	--	--	--	--	--	--	--	--
12/05/00	--	--	--	--	--	--	--	--	--	--
01/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
02/06/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
03/08/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
04/18/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
05/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
04/08/02	<50	<0.50	<0.50	<0.50	<0.50	4.7	--	--	--	--
05/16/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
10/07/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
11/07/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
12/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
01/03/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
2/13/03 <sup>1</sup>	<50	<0.50	<0.50	<0.50	<0.50	1	--	--	--	--
3/27/03 <sup>1</sup>	<50	<0.50	<0.50	<0.50	<0.50	0.94	--	--	--	--
4/24/03 <sup>1</sup>	<50	<0.50	<0.50	<0.50	<0.50	0.95	--	--	--	--
5/30/03 <sup>1</sup>	<50	<0.50	<0.50	<0.50	<0.50	1.1	--	--	--	--
06/19/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
07/24/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
08/28/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
09/25/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
10/23/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5 (<0.5) <sup>2</sup>	--	--	--	--
11/20/03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
12/18/03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
01/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
02/19/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
03/18/04	86	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
04/07/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
04/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
05/19/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
06/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
07/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
08/26/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
09/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
10/21/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
11/18/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
12/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--



**Table 6**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>EFFL (effluent to sewer)</b>										
09/26/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
10/22/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
11/22/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
12/19/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
01/16/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
02/19/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
03/17/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
04/15/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
05/14/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
06/19/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
07/14/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
08/18/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
09/15/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
10/16/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
11/18/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
12/17/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
01/18/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
02/22/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
03/15/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
04/09/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
05/13/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
06/04/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
07/20/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
08/16/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
09/13/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
10/08/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
11/19/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
12/21/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
01/18/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
02/17/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
03/15/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
04/21/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
05/13/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
06/14/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
07/14/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
08/17/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---

**Table 6**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>EFFL (effluent to sewer) (cont.)</b>										
09/12/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
10/18/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
11/05/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
12/05/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
01/04/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
02/06/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
03/02/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
04/04/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
05/02/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
06/05/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
07/06/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
08/21/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
06/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	7.19	---
06/12/00	<50	---	---	---	---	---	---	---	---	---
07/08/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	32.1	<10	7.08	---
08/10/00	<50	<0.50	<0.50	<0.50	<0.50	<5.0	23.4	<10	6.67	---
09/08/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	29.2	<10	6.82	---
10/10/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.25	---
11/07/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.24	---
12/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	44	<10	7.48	---
01/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.00	---
02/06/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	10.7	7.03	---
03/08/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.04	---
04/18/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	28.5	<10	7.06	---
05/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.31	---
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	34	<10	7.05	---
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.10	---
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	14	7.09	---
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	70	<10	7.07	---
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	55	<10	6.89	---
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	150	<10	6.98	---
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	34	<10	7.01	---
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	52	<10	7.22	---
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.91	---
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.77	---
04/08/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.52	---
05/16/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.60	---
10/07/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
11/07/02	<50	<0.50	<0.50	<0.50	0.74	<2.5	<30	<10	7.80	---
12/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.0	<30	<10	7.40	0.27
01/03/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<30	<10	7.50	---
2/13/03 <sup>1</sup>	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<30	<10	7.15	0.12
3/27/03 <sup>1</sup>	<50	<0.50	<0.50	<0.50	<0.50	<0.50	32	<10	7.50	0.08
4/24/03 <sup>1</sup>	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<30	<10	6.95	10.23
5/30/03 <sup>1</sup>	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<30	<10	6.95	---
06/19/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.02	9.75
07/24/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.07	3.00
08/28/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.03	2.12

**Table 6**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>EFFL (effluent to sewer) (cont.)</b>										
09/25/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.79	2.70
10/23/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5 (<0.5) <sup>2</sup>	<20	<10	6.82	3.45
11/20/03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<10	6.94	0.84
12/18/03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	7.01	0.94
01/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	7.12	0.85
02/19/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	10	6.57	3.82
03/18/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	7.08	0.97
04/07/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--
04/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	27	<10	6.69	1.64
05/19/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	20	13	6.50	1.40
06/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	6.79	0.75
07/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	6.81	1.09
08/26/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	19	7.20	1.20
09/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<10	7.20	1.20
10/21/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	6.89	2.60
11/18/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	14	6.95	0.34
12/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	6.92	2.00

**SYMBOLS AND ABBREVIATIONS:**

- COD =Chemical oxygen demand
- DO =Dissolved Oxygen, field measurement
- GRO =Gasoline Range Organics
- µg/L =Micrograms per liter
- mg/L =Milligrams per liter
- MTBE =Methyl tert-Butyl Ether
- ND =Not detected at or above the laboratory reporting limit
- TPH-g =Total purgeable petroleum hydrocarbons as gasoline
- TSS =Total suspended solids
- =Not applicable/available/sampled
- < =Not detected at or above the laboratory reporting limit.

**FOOTNOTES:**

1. Analyzed with EPA Method 8260
2. MTBE concentration analyzed by EPA methods 8021B and 8260B (Results of EPA Method 8260 shown in parenthesis).

**NOTES:**

GRO/BTEX/MTBE analyzed using EPA Method 8260B beginning February 19, 2004.

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

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g has been changed to GRO.

The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in higher concentrations being reported.

**Table 7**  
**Batch Extraction Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Sample Date	Sample	Volume Extracted (gallons)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
10/21/04	MW-10, Pre-Extraction	---	330	<2.5	<2.5	<2.5	<2.5	---
10/21/04	MW-10, Post-Extraction	1,160	390	<2.5	<2.5	<2.5	<2.5	---
11/04/04	MW-10, Pre-Extraction	---	210	<0.50	<0.50	<0.50	<1.0	120
11/04/04	MW-10, Post-Extraction <sup>1</sup>	2,000	470	<1.0	<1.0	<1.0	<2.0	110
11/16/04	MW-10, Pre-Extraction	---	220	<0.50	<0.50	<0.50	<1.0	110
11/16/04	MW-10, Post-Extraction	2,000	490	<0.50	<0.50	<0.50	<1.0	120
12/01/04	MW-10, Post-Extraction <sup>2</sup>	2,000	370	<0.50	<0.50	<0.50	<1.0	97

**Symbols and Abbreviations:**

GRO = Gasoline Range Organics using EPA Method 8260B  
 MTBE =Methyl tert-Butyl ether using EPA Method 8260B  
 TPH-g =Total purgeable petroleum hydrocarbons as gasoline using EPA Method 8260B  
 µg/L =Micrograms per liter  
 < =Not detected at or above the laboratory reporting limit.  
 --- =Not sampled/applicable

**Footnotes:**

1. Reporting limits were raised due to high level of analyte present in the sample
2. Extraction of 2,000 gallons of groundwater took place on 11/30/04. Well was sampled post-extraction on 12/1/04.

**ATTACHMENT A**  
**FIELD PROCEDURES AND FIELD DATA SHEETS**

## FIELD PROCEDURES

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### **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 # 041213-wc1

Date 12/13/04

Client URS@Arco 608

Site 17601 Hesperian Blvd., San Lorenzo

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-5	4					11.16	13.66	
MW-8	3					9.73	20.93	
MW-9	3					9.17	18.25	
MW-10	3					9.28	22.42	
MW-11	3					10.19	18.85	
E-7A (MW-12)	6					17.56	—	ext
MW-14	3					8.46	23.07	
MW-15	3	car parked over well all day.						
MW-16	3					10.27	23.20	
MW-18	3					9.25	21.50	
MW-21	3					8.92	21.55	
MW-22	3					9.73	21.50	
MW-23	3					10.88	21.73	
MW- <del>24</del> <sup>25</sup>	2					10.72	18.48	
MW-26	2					11.08	19.53	
642H	—	ext. well / unable to operate						
17572UM	—	ext. well						✓

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⊗ no point for gauging

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041213-WC1</u>	Station # <u>0608</u>
Sampler: <u>WC</u>	Date: <u>12/13/04</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u>    </u>
Total Well Depth: <u>13.66</u>	Depth to Water: <u>11.16</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 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.

<u>1.6</u>	x	<u>3</u>	=	<u>4.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <del>µS</del> )	Gals. Removed	Observations
1220	71.6	6.7	871	2	clear
1222	71.8	6.7	863	3.5	"
1224	72.1	6.8	861	5	"

Did well dewater? Yes  No Gallons actually evacuated: 5

Sampling Time: 1229 Sampling Date: 12/13/04

Sample I.D.: MW-5 Laboratory: Pace Sequola Other: \_\_\_\_\_

Analyzed for: GRO BTEX MTBE DRO Other: See COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: <u>3.76</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV



## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041213-WC1</u>	Station # <u>0608</u>
Sampler: <u>WC</u>	Date: <u>12/13/04</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 <u>3</u> 4 6 8 <u>    </u>
Total Well Depth: <u>20.93</u>	Depth to Water: <u>9.73</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

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

<u>4.4</u> <sup>0.1</sup> 4.1	x	<u>3</u>	=	<u>12.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <del>µS</del> )	Gals. Removed	Observations
1140	69.7	6.8	862	5	clear
1144	70.2	6.8	851	9	"
1148	70.3	6.8	853	13	"

Did well dewater? Yes  Gallons actually evacuated: 13

Sampling Time: 1152 Sampling Date: 12/13/04

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

Analyzed for: CRO TEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	<u>Post-purge</u>	0.95 mg/L
G.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041213-WC1</u>	Station # <u>0608</u>
Sampler: <u>WC</u>	Date: <u>12/13/04</u>
Well I.D.: <u>MW-10</u>	Well Diameter: 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/>
Total Well Depth: <u>22.42</u>	Depth to Water: <u>9.28</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

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

<u>8.5</u>	x	<u>3</u>	=	<u>25.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <del>µS</del> )	Gals. Removed	Observations
<u>0934</u>	<u>68.9</u>	<u>6.5</u>	<u>807</u>	<u>9</u>	<u>clear</u>
<u>0936</u>	<u>68.8</u>	<u>6.5</u>	<u>746</u>	<u>17</u>	<u>"</u>
<u>0938</u>	<u>69.6</u>	<u>6.5</u>	<u>777</u>	<u>26</u>	<u>"</u>

Did well dewater? Yes  No  Gallons actually evacuated: 26

Sampling Time: 0942 Sampling Date: 12/13/04

Sample I.D.: MW-10 Laboratory: Pace Sequon Other: \_\_\_\_\_

Analyzed for: GRO BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
			<u>1.60</u>	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041213-WC1</u>	Station # <u>0608</u>
Sampler: <u>WC</u>	Date: <u>12/13/04</u>
Well I.D.: <u>MW-11</u>	Well Diameter: 2 <u>3</u> 4 6 8 <u>    </u>
Total Well Depth: <u>18.85</u>	Depth to Water: <u>10.19</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

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

<u>5.6</u>	x	<u>3</u>	=	<u>16.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
<u>0957</u>	<u>67.6</u>	<u>6.7</u>	<u>898</u>	<u>6</u>	<u>Clear</u>
<u>0958</u>	<u>68.1</u>	<u>6.6</u>	<u>876</u>	<u>12</u>	<u>"</u>
<u>0959</u>	<u>68.2</u>	<u>6.6</u>	<u>905</u>	<u>17</u>	<u>"</u>

Did well dewater? Yes  No  Gallons actually evacuated: 17

Sampling Time: 1003 Sampling Date: 12/13/04

Sample I.D.: MW-11 Laboratory: Pace Sequoia Other: \_\_\_\_\_

Analyzed for: GRO BTEX MTBE DRO Other: See COL

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
			<u>1.83</u>	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041213-WC1</u>	Station # <u>0608</u>
Sampler: <u>WC</u>	Date: <u>12/13/04</u>
Well I.D.: <u>E-1A</u>	Well Diameter: 2 3 4 <u>6</u> 8 <u>    </u>
Total Well Depth: <u>    </u>	Depth to Water: <u>17.56</u>
Depth to Free Product: <u>    </u>	Thickness of Free Product (feet): <u>    </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

Sampling Method: Bailer  
~~Disposable Bailer~~  
~~Extraction Pump~~  
 Other:     

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

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

Time	Temp (°F)	pH	Conductivity (mS or <del>µS</del> )	Gals. Removed	Observations
1234	72.0	6.9	958	—	clear
<u>⊗ let run for 2 min prior to sampling</u>					

Did well dewater? Yes  No  Gallons actually evacuated:     

Sampling Time: 1235 Sampling Date: 12/13/04

Sample I.D.: E-1A Laboratory: Pace Sequola Other     

Analyzed for:  CRD  BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>7.13</u> mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041213-WC1</u>	Station # <u>0608</u>
Sampler: <u>WC</u>	Date: <u>12/13/04</u>
Well I.D.: <u>MW-15</u>	Well Diameter: 2 <u>3</u> 4 6 8 <u>   </u>
Total Well Depth: <u>   </u>	Depth to Water: <u>   </u>
Depth to Free Product: <u>   </u>	Thickness of Free Product (feet): <u>   </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multplier	Well Diameter	Multplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

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

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

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

Time	Temp (°F)	pH	Conductivity (mS or <del>µS</del> )	Gals. Removed	Observations
<u>Inaccessible, well covered by parked car all day.</u>					
<u>Unable to purge or sample</u>					
<u>⊗ Black Acura, Lic. Plate JEREL (Oregon)</u>					
<u>1330 attempted to locate owner on door to door search,</u>					
<u>but was only able to talk w/ one resident. (more on bar</u>					

Did well dewater? Yes  No  Gallons actually evacuated:    

Sampling Time:     Sampling Date: 12/13/04

Sample I.D.:     Laboratory: Pace Sequoia Other    

Analyzed for: GRO BTEX MTBE DRO Other:    

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041213-WC1</u>	Station # <u>0608</u>
Sampler: <u>WC</u>	Date: <u>12/13/04</u>
Well I.D.: <u>MW-25</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>18.48</u>	Depth to Water: <u>10.72</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YST</u> HACH

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

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

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

<u>1.2</u>	x	<u>3</u>	=	<u>3.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <del>µS</del> )	Gals. Removed	Observations
1307	68.8	6.9	853	2	clear
1310	68.9	6.9	861	3	"
1312	69.6	6.9	863	4	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>4</u>
Sampling Time: <u>1316</u>	Sampling Date: <u>12/13/04</u>
Sample I.D.: <u>MW-25</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>(RO) BTEX</u> MTBE DRO	Other: <u>see COC</u>
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>1.22</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041213-WC1</u>	Station # <u>0608</u>
Sampler: <u>WC</u>	Date: <u>12/13/04</u>
Well I.D.: <u>17372-UM</u>	Well Diameter: 2 3 4 6 8 <u>  </u>
Total Well Depth: <u>  </u>	Depth to Water: <u>  </u>
Depth to Free Product: <u>  </u>	Thickness of Free Product (feet): <u>  </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

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.

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

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
<u>1040</u>	<u>65.8</u>	<u>7.6</u>	<u>825</u>	<u>  </u>	<u>clear</u>

Did well dewater? Yes  No  Gallons actually evacuated:   

Sampling Time: 1040 Sampling Date: 12/13/04

Sample I.D.: 17372-UM Laboratory: Pace Sequoia Other   

Analyzed for: PRO PTX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>3.76</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041213-WC1</u>	Station # <u>0608</u>
Sampler: <u>WC</u>	Date: <u>12/13/04</u>
Well I.D.: <u>642 H</u>	Well Diameter: 2 3 4 6 8 <u>    </u>
Total Well Depth: <u>    </u>	Depth to Water: <u>    </u>
Depth to Free Product: <u>    </u>	Thickness of Free Product (feet): <u>    </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 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.

	x	<u>3w</u>	=		Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <del>µS</del> )	Gals. Removed	Observations
<u>1020</u>					<u>well inoperable, custom pump connected to several garden hose faucets, ran pump for five minutes w/ no water. Unable to obtain a sample</u>
					<u>new resident (works nights, Fri/Sat are better)</u>

Did well dewater? Yes  No  Gallons actually evacuated:     

Sampling Time: 278-5159 (510) Sampling Date: 12/13/04

Sampler Name: Pgolino Cachero Laboratory: Pace Sequoia Other:     

Analyzed for: GRO BTEX MTBE DRO Other:     

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

608

Station #

17601 Hesperian Blvd., San Lorenzo

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

65 gals.

added equip.

rinse water

5 gals.

any other

adjustments

TOTAL GALS.

RECOVERED

70 gals.

loaded onto

BTS vehicle #

48

BTS event #

time

date

041213-wc1

1330

12/13/04

signature

WJL Crow

\*\*\*\*\*

REC'D AT

time

date

Blaine Tech

1430

12/13/04

unloaded by

signature

WJL Crow

**ATTACHMENT B**

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

## **LABORATORY PROCEDURES**

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### **Laboratory Procedures**

The groundwater samples were analyzed for the presence of the chemicals noted on 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.



28 December, 2004

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

RE: ARCO #0608, San Lorenzo, CA  
Work Order: MNL0445

Enclosed are the results of analyses for samples received by the laboratory on 12/14/04 12:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Leticia Reyes For Lisa Race  
Senior Project Manager

CA ELAP Certificate #1210



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

Project: ARCO #0608, San Lorenzo, CA  
Project Number: G09JZ-0155  
Project Manager: Scott Robinson

MNL0445  
Reported:  
12/28/04 16:31

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	MNL0445-01	Water	12/13/04 12:29	12/14/04 12:30
MW-8	MNL0445-02	Water	12/13/04 11:52	12/14/04 12:30
MW-10	MNL0445-03	Water	12/13/04 09:42	12/14/04 12:30
MW-11	MNL0445-04	Water	12/13/04 10:03	12/14/04 12:30
MW-25	MNL0445-05	Water	12/13/04 13:16	12/14/04 12:30
E-1A	MNL0445-06	Water	12/13/04 12:35	12/14/04 12:30
17372-VM	MNL0445-07	Water	12/13/04 10:40	12/14/04 12:30
TB-0608-121304	MNL0445-08	Water	12/13/04 00:00	12/14/04 12:30

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

These samples were received with intact custody seals.



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #0608, San Lorenzo, CA Project Number: G09JZ-0155 Project Manager: Scott Robinson	MNL0445 Reported: 12/28/04 16:31
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**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-5 (MNL0445-01) Water    Sampled: 12/13/04 12:29    Received: 12/14/04 12:30</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4L25001	12/25/04	12/25/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>5.4</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		79 %	78-129	"	"	"	"	"	
<b>MW-8 (MNL0445-02) Water    Sampled: 12/13/04 11:52    Received: 12/14/04 12:30</b>									
tert-Amyl methyl ether	<b>0.78</b>	0.50	ug/l	1	4L25001	12/25/04	12/25/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>7.1</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		81 %	78-129	"	"	"	"	"	



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #0608, San Lorenzo, CA Project Number: G09JZ-0155 Project Manager: Scott Robinson	MNL0445 Reported: 12/28/04 16:31
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**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-10 (MNL0445-03) Water    Sampled: 12/13/04 09:42    Received: 12/14/04 12:30</b>									
tert-Amyl methyl ether	4.5	1.0	ug/l	2	4L25001	12/25/04	12/25/04	EPA 8260B	
Benzene	ND	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	220	40	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	200	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	110	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C12)</b>	<b>290</b>	<b>100</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84 %	78-129	"	"	"	"	"	
<b>MW-11 (MNL0445-04) Water    Sampled: 12/13/04 10:03    Received: 12/14/04 12:30</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4L25001	12/25/04	12/25/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C12)</b>	<b>ND</b>	<b>50</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		82 %	78-129	"	"	"	"	"	

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

 Project: ARCO #0608, San Lorenzo, CA  
 Project Number: G09JZ-0155  
 Project Manager: Scott Robinson

 MNL0445  
 Reported:  
 12/28/04 16:31

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-25 (MNL0445-05) Water    Sampled: 12/13/04 13:16    Received: 12/14/04 12:30</b>									
tert-Amyl methyl ether	18	0.50	ug/l	1	4L25001	12/25/04	12/26/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	45	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	44	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83 %	78-129	"	"	"	"	"	
<b>E-1A (MNL0445-06) Water    Sampled: 12/13/04 12:35    Received: 12/14/04 12:30</b>									
tert-Amyl methyl ether	0.75	0.50	ug/l	1	4L25001	12/25/04	12/26/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	15	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		82 %	78-129	"	"	"	"	"	



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

Project: ARCO #0608, San Lorenzo, CA  
Project Number: G09JZ-0155  
Project Manager: Scott Robinson

MNL0445  
Reported:  
12/28/04 16:31

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>17372-VM (MNL0445-07) Water    Sampled: 12/13/04 10:40    Received: 12/14/04 12:30</b>										
tert-Amyl methyl ether	ND	0.50		ug/l	1	4L25001	12/25/04	12/26/04	EPA 8260B	
Benzene	ND	0.50		"	"	"	"	"	"	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
Ethanol	ND	100		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		82 %		78-129		"	"	"	"	

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

 Project: ARCO #0608, San Lorenzo, CA  
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 Project Manager: Scott Robinson

 MNL0445  
 Reported:  
 12/28/04 16:31

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4L25001 - EPA 5030B P/T / EPA 8260B**
**Blank (4L25001-BLK1)**

Prepared &amp; Analyzed: 12/25/04

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							

*Surrogate: 1,2-Dichloroethane-d4*

1.98

"

2.50

79

78-129

**Laboratory Control Sample (4L25001-BS1)**

Prepared &amp; Analyzed: 12/25/04

tert-Amyl methyl ether	9.85	0.50	ug/l	10.0		98	82-140			
Benzene	9.74	0.50	"	10.0		97	69-124			
tert-Butyl alcohol	45.8	20	"	50.0		92	56-131			
Di-isopropyl ether	8.35	0.50	"	10.0		84	76-130			
1,2-Dibromoethane (EDB)	10.9	0.50	"	10.0		109	77-132			
1,2-Dichloroethane	7.89	0.50	"	10.0		79	77-136			
Ethanol	129	100	"	200		64	31-143			
Ethyl tert-butyl ether	8.89	0.50	"	10.0		89	81-121			
Ethylbenzene	10.1	0.50	"	10.0		101	84-132			
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	63-137			
Toluene	9.89	0.50	"	10.0		99	78-129			
Xylenes (total)	29.9	0.50	"	30.0		100	83-137			

*Surrogate: 1,2-Dichloroethane-d4*

2.14

"

2.50

86

78-129

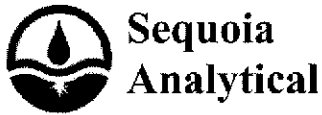
URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland CA, 94612

Project: ARCO #0608, San Lorenzo, CA  
Project Number: G09JZ-0155  
Project Manager: Scott Robinson

MNL0445  
Reported:  
12/28/04 16:31

**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
<b>Batch 4L25001 - EPA 5030B P/T / EPA 8260B</b>										
<b>Laboratory Control Sample (4L25001-BS2)</b>				<b>Prepared &amp; Analyzed: 12/25/04</b>						
Benzene	5.41	0.50	ug/l	6.40		85	69-124			
Ethylbenzene	7.93	0.50	"	7.52		105	84-132			
Methyl tert-butyl ether	7.86	0.50	"	9.92		79	63-137			
Toluene	31.9	0.50	"	31.9		100	78-129			
Xylenes (total)	38.2	0.50	"	36.6		104	83-137			
Gasoline Range Organics (C4-C12)	428	50	"	440		97	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.15		"	2.50		86	78-129			
<b>Laboratory Control Sample Dup (4L25001-BSD1)</b>				<b>Prepared &amp; Analyzed: 12/25/04</b>						
tert-Amyl methyl ether	9.90	0.50	ug/l	10.0		99	82-140	0.5	20	
Benzene	9.98	0.50	"	10.0		100	69-124	2	20	
tert-Butyl alcohol	52.1	20	"	50.0		104	56-131	13	20	
Di-isopropyl ether	8.46	0.50	"	10.0		85	76-130	1	20	
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0		107	77-132	2	20	
1,2-Dichloroethane	7.80	0.50	"	10.0		78	77-136	1	20	
Ethanol	168	100	"	200		84	31-143	26	20	RB
Ethyl tert-butyl ether	8.93	0.50	"	10.0		89	81-121	0.4	20	
Ethylbenzene	10.3	0.50	"	10.0		103	84-132	2	20	
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	63-137	0	20	
Toluene	10.1	0.50	"	10.0		101	78-129	2	20	
Xylenes (total)	30.7	0.50	"	30.0		102	83-137	3	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.09		"	2.50		84	78-129			
<b>Matrix Spike (4L25001-MS1)</b>		<b>Source: MNL0445-01</b>		<b>Prepared &amp; Analyzed: 12/25/04</b>						
Benzene	1.64	0.50	ug/l	6.40	ND	26	69-124			LN
Ethylbenzene	2.36	0.50	"	7.52	ND	31	84-132			LN
Methyl tert-butyl ether	9.31	0.50	"	9.92	5.4	39	63-137			LN
Toluene	9.50	0.50	"	31.9	ND	30	78-129			LN
Xylenes (total)	11.2	0.50	"	36.6	ND	31	83-137			LN
Gasoline Range Organics (C4-C12)	141	50	"	440	ND	32	70-124			LN
<i>Surrogate: 1,2-Dichloroethane-d4</i>	1.98		"	2.50		79	78-129			



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

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #0608, San Lorenzo, CA Project Number: G09JZ-0155 Project Manager: Scott Robinson	MNL0445 Reported: 12/28/04 16:31
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4L25001 - EPA 5030B P/T / EPA 8260B**

Matrix Spike Dup (4L25001-MSD1)	Source: MNL0445-01	Prepared & Analyzed: 12/25/04								
Benzene	3.49	0.50	ug/l	6.40	ND	55	69-124	72	20	BA, LN
Ethylbenzene	5.12	0.50	"	7.52	ND	68	84-132	74	20	BA, LN
Methyl tert-butyl ether	12.6	0.50	"	9.92	5.4	73	63-137	30	20	BA
Toluene	20.8	0.50	"	31.9	ND	65	78-129	75	20	BA, LN
Xylenes (total)	24.6	0.50	"	36.6	ND	67	83-137	75	20	BA, LN
Gasoline Range Organics (C4-C12)	277	50	"	440	ND	63	70-124	65	20	BA, LN
Surrogate: 1,2-Dichloroethane-d4	2.01		"	2.50		80	78-129			



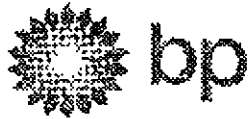
URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland CA, 94612

Project: ARCO #0608, San Lorenzo, CA  
Project Number: G09JZ-0155  
Project Manager: Scott Robinson

MNL0445  
Reported:  
12/28/04 16:31

**Notes and Definitions**

RB RPD exceeded method control limit; % recoveries within limits.  
LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).  
BA Relative percent difference out of control  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference



# Chain of Custody Record

Project Name: ARCO 608 Analytical for O&M Sampling  
 BP BU/AR Region/Eafo Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 608 > Historical/EL  
 State or Lead Regulatory Agency: Alameda County Environmental Health Agency  
 Requested Due Date (mm/dd/yy): 10 JAN

On-site Time: 0800 Temp: 58 F  
 Off-site Time: 1400 Temp: 61 F  
 Sky Conditions: Cloudy  
 Meteorological Events:  
 Wind Speed: 10 mph Direction: NE

Lab Name: <u>Sequoia</u>	BP/AR Facility No.: <u>608</u>	Consultant/Contractor: <u>URS</u>
Address: <u>885 Jarvis Drive</u> <u>Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>17601 Hesperian Blvd., San Lorenzo, CA 945</u>	Address: <u>1333 Broadway, Suite 800</u> <u>Oakland, CA 94612</u>
Lab PM: <u>Lisa Race</u>	Site Lat/Long: <u>37.673888 / -122.123</u>	Consultant/Contractor Project No.: <u>38486555</u>
Tele/Fax: <u>408.782.8156 / 408.782.6308</u>	California Global ID No.: <u>T0600100085</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Infos Project No.: <u>G0917-0155</u>	Tele/Fax: <u>510.874.3280 / 510.874.3268</u>
Address: <u>P.O. Box 6549</u> <u>Monterey, CA 94570</u>	Provision nr RCOP: <u>Provision</u>	Report Type & QC Level: <u>Level I with EDF</u>
Tele/Fax: <u>925.299.8891 / 925.299.8872</u>	Phase/WBS: <u>03 - Operation and Maintenance</u>	E-mail EDD To: <u>Donna.Casper@urcorp.com</u>
	Sub Phase/Task: <u>03 - Analytical</u>	Invoice to: <u>Atlantic Richfield Company</u>
	Cost Element: <u>05 - Subcontracted Costs</u>	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GROBTEX (9260)	MTBE, TAME, ETBE, XIPB, THA (9260)	EDB, 1,2-DCA (9260)	Ethanol (9260)				
1	MW-5	1229	12/13	X			01	3				X									
2	MW-8	1152					02	3				X									
3	MW-10	0412					03	1				X									
4	MW-11	1003					04	1				X									
5	MW-25	1316					05	1				X									
6	E-1A	1235					06	1				X									
7	17372-VM	1040					07	1				X									
8	TB-0608-121304	-					08	2				X									on hold
9																					
10																					

MPL0445  
 Sample Point Lat/Long and Comments

Sampler's Name: <u>Will Crow</u>	Relinquished By / Affiliation: <u>Will Crow</u>	Date: <u>12/11/05</u>	Time: <u>1200</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>12/14/05</u>	Time: <u>1200</u>
Sampler's Company: <u>Blaine Tech</u>		Date: <u>12/14/05</u>	Time: <u>1230</u>			
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						
Special Instructions:						

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

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 606  
 REC. BY (PRINT): JJ  
 WORKORDER: MPL 0445

DATE REC'D AT LAB: 12/14/04  
 TIME REC'D AT LAB: 12:30  
 DATE LOGGED IN: 12-15-04

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

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <input checked="" type="radio"/> Present / Absent <input type="radio"/> Intact / Broken*	01	A-F	MW-5	VOA (6)	HCl	-	W	12/13/04	[Large diagonal line with handwritten "12/14/04" and "JJ" across it]
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*	02	A-C	-8	(3)					
3. Traffic Reports or Packing List: <input checked="" type="radio"/> Present / Absent	03		-10						
4. Airbill: Airbill / Sticker <input checked="" type="radio"/> Present / Absent	04		-11						
5. Airbill #:	05		-25						
6. Sample Labels: <input checked="" type="radio"/> Present / Absent	06		E-1A						
7. Sample IDs: <input type="radio"/> Listed / Not Listed on Chain-of-Custody	07		17372-VM						
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*	08	A/D	TB-0106-121304	(2)					
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="radio"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / No*									
12. Proper Preservatives used? <input checked="" type="radio"/> Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="radio"/> Yes / No*									
14. Temp Rec. at Lab: Is temp 4 +/- 2°C? <input checked="" type="radio"/> Yes / No** <small>(Acceptance range for samples requiring thermal pres.)</small>									
**Exception (if any): METALS / DIFF ON ICE or Problem COC									

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

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

**ATTACHMENT C**  
**HISTORICAL GROUNDWATER DATA TABLES**



Table 2  
Groundwater Elevation and Analytical Data  
Groundwater Monitoring Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MBE (ppb)	Dissolved Oxygen (ppm)		
MW-5	†† 03/13,14/96	33.99	9.75	24.24	1,500	30	<10	13	<10	NA	NM		
	05/28,29/96		11.48	22.51	240	2.4	<0.50	<0.50	<0.50	NA	NM		
	08/28/96		12.58	21.41	250	210	8.0	<1.0	<1.0	210	NM		
	11/25,26/96		12.07	21.92	<500	<5.0	<5.0	<5.0	<5.0	280	NM		
	03/31/97		†	12.42	21.57	<50	<0.50	<0.50	<0.50	<0.50	41	NM	
	05/25/97		12.64	21.35	NS	NS	NS	NS	NS	NS	NS	NM	
	09/09,10/97		12.75	21.24	<50	<0.50	<0.50	<0.50	<0.50	19	NM		
	11/24,25/97		12.60	21.39	<50	0.9	<0.50	<0.50	<0.50	23	1.4		
	03/19,20/98		10.43	23.56	61	1.0	0.56	0.55	<0.50	75	1.2		
	06/04/98		11.24	22.75	150	<0.30	<0.30	0.32	0.74	20	1.4		
	09/21,22/98		12.45	21.54	110	0.69	<0.50	<0.30	<0.30	25	1.8		
	12/14,15/98		11.88	22.14	<200	<2.0	<2.0	<2.0	<2.0	600	1.2		
	03/15,16/99		11.05	22.94	50.9	<0.50	<0.50	<0.50	<0.50	211	1.0		
	06/14,15/99		12.25	21.74	211	<0.50	<0.50	<0.50	<0.50	212	1.2		
	09/15,16/99		12.70	21.29	139	<0.50	<0.50	<0.50	<0.50	184	2.4		
	12/08,09/99		12.56	21.43	87.4	<0.50	<0.50	<0.50	<0.50	197	1.2		
	03/15/00		10.10	23.89	82.4	<0.50	0.710	<0.50	0.579	908	1.2		
	03/15/00		a	-	-	-	-	-	-	-	1,230	-	
	06/13/00		b	12.44	21.65	96.7	<0.50	<0.50	<0.50	<0.50	551	2.0	
	9/19,20/00		12.45	21.64	<50.0	<0.50	<0.50	<0.50	<0.50	51	2.2		
	12/14,15/00		12.03	21.96	152.0	1.33	0.56	<0.50	<0.50	<2.50	1.0		
	3/8,9/01		10.81	23.18	<50.0	<0.50	<0.50	<0.50	<0.50	73.8	1.6		
	06/14/01		12.25	21.74	<50.0	<0.50	<0.50	<0.50	<0.50	47.0	1.6		
	09/26/01		12.83	21.16	<50.0	<0.50	<0.50	<0.50	<0.50	270.0	2.0		
	12/29/01		10.97	23.02	<50.0	<0.50	<0.50	<0.50	0.95	370.0	2.4		
	03/13/02		11.46	22.53	530	<2.5	<2.5	<2.5	<2.5	1100	3.00		
	MW-7		03/13,15/96	34.40	9.73	24.67	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
			05/28,29/96		11.60	22.80	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
			08/28,29/96		12.63	21.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
			11/25,26/96		12.10	22.30	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
03/31-04/01/97		11.72	22.68		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
06/25/97		12.98	21.42		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
09/09,10/97		12.25	22.15		<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0		
11/24,25/97		12.57	21.83		<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0		
03/19,20/98		10.35	24.05		<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0		
06/04/98		11.30	23.10		<50	<0.30	<0.30	<0.30	<0.60	<10	0.7		
09/21,22/98		12.48	21.92		<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4		
12/14,15/98		11.90	22.50		<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.2		
03/15,16/99		11.10	23.30		<50	<0.50	<0.50	<0.50	<0.50	c	0.0		
06/14,15/99		-	-		-	-	-	-	-	-	-	-	
Removed From Gauging and Sampling Program													
MW-8	03/13,14/96	32.79	8.90	23.80	670	5.1	<2.0	<2.0	<2.0	NA	NM		
	05/28,29/96		10.58	22.21	490	<1.0	<1.0	0.91	0.91	NA	NM		
	08/28/96		11.30	21.49	680	29	2.1	3.0	2.4	80	NM		
	11/25/96		10.80	21.99	620	1.2	2.6	2.9	2.0	46	NM		
	03/31-04/01/97		10.76	22.03	530	<1.0	1.7	2.0	3.8	380	NM		
	06/25/97		11.65	21.14	480	6.7	0.69	0.8	0.71	88	NM		
	09/09,10/97		11.57	21.12	570	67	<1.0	2.1	1.7	57	2.0		
	09/09,10/97		a	-	-	-	-	-	-	-	48	-	
	11/24,25/97		11.50	21.29	530	3.0	1.7	1.9	1.5	26	2.0		
	03/19,20/98		9.40	23.39	440	1.4	<0.50	<0.50	3.7	140	2.2		
	06/03/98		10.25	22.54	360	2.2	1.2	1.8	1.0	47	0.3		
	09/21,22/98		11.37	21.42	380	<2.5	<2.5	<2.5	<2.5	620	0.0		
	12/14,15/98		10.80	21.99	<50	<0.50	<0.50	<0.50	<0.50	1,600	0.0		
	03/15,16/99		10.00	22.79	<500	<5.0	<5.0	<5.0	<5.0	625	0.0		
	06/14,15/99		11.17	21.62	166	<0.50	<0.50	<0.50	<0.50	141	NM		
	09/15,16/99		11.65	21.14	<500	<5.0	<5.0	<5.0	<5.0	2,380	2.4		
	12/08,09/99		11.48	21.31	213	<0.50	<0.50	<0.50	<0.50	4,160	2.8		
	03/15/00		9.38	23.41	133	<0.50	3.44	<0.50	0.548	1,350	2.2		
	03/15/00		a	-	-	-	-	-	-	-	1,980	-	
	06/13/00		b	11.93	20.86	227	<0.50	<0.50	<0.50	<0.50	657	1.0	
9/19,20/2000	11.46	21.33	191	1.7	3.2	<0.50	1.2	160	1.0				
12/14,15/00	10.97	21.82	243	<0.50	<0.50	<0.50	<0.50	243	2.0				
3/8,9/01	9.80	22.98	144	<0.50	<0.50	<0.50	<0.50	188	3.0				
06/14/01	11.22	21.57	150	3.2	0.75	<0.50	1.0	230	3.4				
09/28/01	10.80	21.99	140	<0.50	0.58	<0.50	1.9	179	0.6				
12/29/01	9.85	22.94	<50.0	<0.60	<0.50	<0.50	<0.50	560	4.2				
03/13/02	10.30	22.49	500	<2.5	<2.5	<2.5	<2.5	1,100	2.0				

Table 2  
Groundwater Elevation and Analytical Data  
Groundwater Monitoring Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MIBE (ppb)	Dissolved Oxygen (ppm)		
MW-9	03/13, 15/96	32.11	7.65	24.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM		
	05/28/96		9.67	22.44	<50	<0.50	<0.50	<0.50	<0.50	NA	NM		
	08/28, 29/96		10.78	21.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
	11/25/96		10.24	21.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31-04/01/97		9.95	22.18	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		10.85	21.26	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09, 10/97		10.87	21.24	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	11/24, 25/97		10.70	21.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6	
	03/19, 20/98		8.63	23.48	<50	<0.50	<0.50	<0.50	<0.50	<0.50	58	4.8	
	06/04/98		9.35	22.76	<50	<0.30	<0.30	<0.30	<0.60	<0.60	<10	2.0	
	09/21, 22/98		10.55	21.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	12/14, 15/98		9.98	22.13	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	03/15, 16/99		9.10	23.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	2.0	
	06/14, 15/99		10.32	21.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.27	2.2	
	09/15, 16/99		10.83	21.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	3.2	
	12/08, 09/99		10.70	21.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6	
	03/15/00		8.58	23.63	<50	<0.50	<0.30	<0.50	<0.50	<0.50	<2.5	2.4	
	06/13/00		10.48	21.63	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	9/19, 20/00		10.53	21.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	12/14, 15/00		10.35	21.76	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	3/8, 9/01		9.05	23.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6	
	06/14/01		10.33	21.78	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6	
	09/26/01		10.82	21.29	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	12/29/01		8.82	23.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	03/13/02		9.49	22.62	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	MW-10		03/13, 14/96	31.67	7.78	23.89	870	35	<5.0	5.2	7.0	NA	NM
			05/29/96		10.00	21.67	800	<1.0	<1.0	<1.0	<1.0	NA	NM
			08/28/96		10.93	20.74	NS	NS	NS	NS	NS	NS	NM
			11/25, 26/96		10.45	21.22	1,100	6.0	4.9	3.8	9.5	200	NM
			03/31/97		10.15	21.52	160	<0.50	<0.50	<0.50	<0.50	140	NM
06/25/97		10.99	20.68		800	4.2	1.4	1.5	1.4	170	NM		
09/09, 10/97		11.08	20.69		950	<1.2	3.3	2.5	3.7	240	2.0		
09/09, 10/97		--	--		--	--	--	--	--	--	210	--	
11/24, 25/97		10.85	20.82		920	5.7	6.7	<5.0	<5.0	160	2.4		
11/24, 25/97		--	--		--	--	--	--	--	--	160	--	
03/19/98		8.78	22.89		330	1.7	<0.50	<0.50	<0.50	130	1.0		
06/04/98		9.59	22.08		680	<0.30	4.8	2.3	8.6	79	0.0		
09/21, 22/98		10.77	20.90		650	<0.50	<0.50	3.5	1.3	99	0.0		
12/14/98		10.18	21.49		828	<1.0	<1.0	3.39	<1.0	152	0.4		
03/15, 16/99		9.30	22.37		910	17.6	1.3	5.24	<1.0	268	0.0		
06/14, 15/99		10.57	21.10		643	<0.50	0.761	1.13	1.36	232	NM		
09/15, 16/99		11.03	20.64		855	<1.25	1.26	<1.25	<1.25	315	5.8		
12/08, 09/99		10.88	20.79		898	5.7	1.29	<1.0	<1.0	236	5.6		
03/15/00		8.68	22.99		459	<1.0	<1.0	<1.0	<1.0	266	2.2		
03/15/00		--	--		--	--	--	--	--	--	342	--	
06/13/00		10.85	20.82		617	6.82	2.77	3.07	1.92	437	1.0		
9/19, 20/00		10.79	20.97		527	<0.50	0.86	0.99	1.19	413	2.2		
12/14, 15/00		10.35	21.32		458	10.50	1.01	0.60	<0.50	145	4.0		
3/8, 9/01		9.12	22.55		509	<0.50	21.90	3.16	3.55	161	3.2		
06/14/01		10.55	21.12		710	9.20	2.80	<0.50	1.50	290	3.0		
09/26/01		10.68	20.69		580	<0.50	1.80	1.50	1.50	250	2.6		
12/29/01		9.06	22.61		410	<0.50	6.70	2.50	2.90	958	3.2		
03/13/02		9.68	21.99		680	<5.0	<5.0	<5.0	<5.0	570	3.2		
MW-11		03/13, 14/96	32.54		8.50	23.94	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28/96			10.55	21.89	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96	11.52		21.02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
	11/25/96	11.00		21.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
	03/31-04/01/97	10.88		21.66	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
	06/25/97	11.65		20.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
	09/09, 10/97	11.75		20.79	80	<0.50	<0.50	<0.50	0.65	<2.5	2.0		
	11/24, 25/97	11.50		21.04	<50	<0.50	<0.50	<0.50	<0.50	3.8	2.4		
	03/19/98	9.43		23.11	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4		
	06/03/98	10.27		22.27	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8		
	09/21, 22/98	11.43		21.11	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0		
	12/14/98	10.85		21.69	<50	<0.50	<0.50	<0.50	<0.50	<2.0	1.4		
	03/15, 16/99	10.05		22.49	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.2		

Table 2  
Groundwater Elevation and Analytical Data  
Groundwater Monitoring Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MIB E (ppb)	Dissolved Oxygen (ppm)	
MW-11 (cont.)	06/14, 15/99		11.25	21.28	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4	
	09/15/99		11.68	20.86	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.4	
	12/08, 09/99		11.53	21.01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
	03/15/00		9.32	23.22	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.7	
	06/13/00	b	11.05	21.49	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0	
	9/19, 20/00		11.37	21.17	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	3/8, 9/01		11.00	21.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0	
	3/8, 9/01		9.78	22.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	06/14/01		11.23	21.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.4	
	09/26/01		11.70	20.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6	
	12/29/01		9.91	22.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	03/13/02		10.38	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	E-1A (MW-12)	03/13, 14/96	33.06	10.36	22.71	2,700	38	<5.0	130	6.2	NA	NM
05/28, 29/96			11.50	21.66	1,400	410	18	55	5.5	NA	NM	
08/28/96			11.70	21.36	NS	NS	NS	NS	NS	NS	NM	
11/25, 26/96			11.18	21.88	4,300	13	<5.0	100	20	220	NM	
03/31/97		t	12.65	20.41	1,900	7.9	<2.0	62	3.5	140	NM	
06/25/97			11.82	21.24	4,800	21	<5.0	53	6.8	180	NM	
09/09, 10/97			11.85	21.21	3,200	9.0	<5.0	45	<5.0	85	2.0	
09/09, 10/97		a	-	-	-	-	-	-	-	-	70	-
11/24, 25/97			11.75	21.31	2,000	10	<2.5	42	2.8	65	1.0	
03/19, 20/98			9.65	23.41	11,000	1,300	<0.50	550	380	220	6.2	
06/04/98		b	10.47	22.59	4,500	3.3	0.92	41	4.0	51	1.5	
09/21, 22/98			11.60	21.46	3,300	1.7	<0.50	29	3.6	52	1.8	
12/14, 15/98			11.10	21.96	3,100	21	6.7	28	<5.0	140	1.0	
03/15, 16/99			10.25	22.81	3,900	24.5	<20	41.2	<20	296	1.0	
06/14, 15/99			11.47	21.59	5,090	<5.0	<5.0	6.01	<5.0	234	1.4	
09/15, 16/99			11.90	21.16	2,200	7.93	<5.0	10.50	<5.0	142	3.2	
12/08, 09/99			11.75	21.31	1,490	6.57	1.36	9.21	<1.25	364	NM	
03/15/00			9.52	23.54	4,430	26.1	<10.0	15.3	<10.0	786	1.8	
03/15/00		a	-	-	-	-	-	-	-	-	908	-
06/13/00		b	22.31	10.75	262	9.52	0.584	0.535	<0.5	534	3.4	
9/19, 20/00			23.15	9.91	143	1.01	<0.50	<0.50	<0.50	76	2.8	
12/14, 15/00			NA	NA	181	<0.50	<0.50	0.789	<0.50	100	1.4	
3/8, 9/01			23.80	9.26	370	1.78	<0.50	0.765	<0.50	76	1.6	
06/14/01			21.10	11.96	180	<0.50	<0.50	0.54	<0.50	100	2.6	
09/26/01			19.95	13.11	<50.0	<0.50	<0.50	<0.50	<0.50	210	1.8	
12/29/01			22.40	10.66	<50.0	<0.50	<0.50	<0.50	<0.50	190	2.0	
03/13/02			21.75	11.31	200	<0.50	<0.50	<0.50	<0.50	310	3.4	
MW-13	03/13, 15/96	35.42	10.90	24.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28, 29/96		12.90	22.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		13.89	21.53	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/96		13.41	22.01	<50	<0.50	<0.50	<0.50	<0.50	<2.6	NM	
	03/31-04/01/97		13.11	22.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		13.98	21.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09, 10/97		14.09	21.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	11/24, 25/97		13.90	21.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	03/19, 20/98		11.80	23.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8	
	06/04/98		12.63	22.79	<50	<0.30	<0.30	<0.30	<0.50	<10	1.3	
	09/21, 22/98		13.77	21.65	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	12/14, 15/98		13.28	22.14	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	
	03/15, 16/99	b	12.48	22.84	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.2	
	06/14, 15/99					Removed From Gauging and Sampling Program						
	MW-14	03/13, 15/96	30.46	6.63	23.83	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
05/28/96			8.83	21.53	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
08/28/96			9.83	20.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
11/25/96			9.33	21.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
03/31-04/01/97			9.04	21.42	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
06/25/97			9.94	20.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
09/09, 10/97			10.08	20.39	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
11/24, 25/97			9.78	20.68	<50	<0.50	<0.50	<0.50	<0.50	<2.9	2.6	
03/19/98			7.92	22.54	<50	<0.50	<0.50	<0.50	<0.50	<2.6	1.8	
06/03/98			8.62	21.94	<50	<0.50	<0.50	<0.50	<0.50	<3.0	4.1	
09/21, 22/98			9.72	20.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.8	
12/14/98			9.15	21.31	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.8	
03/15, 16/99			8.20	22.26	<50	<0.50	<0.50	<0.50	<0.50	<6.0	2.6	

Table 2  
Groundwater Elevation and Analytical Data  
Groundwater Monitoring Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)	
MW-14 (cont.)	06/14, 15/99		9.54	20.92								
	09/15/99		9.98	20.48								
	12/08, 09/99		9.84	20.62								
	03/15/00		7.78	22.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6	
	06/13/00	b	9.45	21.01								
	9/19, 20/00		9.68	20.78								
	12/14, 15/00		9.14	21.32								
	3/8, 9/01		8.10	22.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	06/14/01		9.51	20.85								
	09/26/01		9.96	20.50								
	12/29/01		7.62	22.84								
	03/13/02		8.56	21.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	MW-15	03/13, 15/96	31.41	8.13	23.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28, 29/96		10.30	21.11	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
08/28/96			11.30	20.11	<50	<0.50	<0.50	<0.50	<0.50	5.3	NM	
11/25/96			10.83	20.58	<50	<0.50	<0.50	<0.50	<0.50	17	NM	
03/31-04/01/97			10.45	20.96	<50	<0.50	<0.50	<0.50	<0.50	7.2	NM	
06/25/97			11.39	20.02	<50	<0.50	<0.50	<0.50	<0.50	7.0	NM	
09/09, 10/97			11.50	19.91								
11/24, 25/97												
03/15/98			9.15	22.26	<50	<0.50	<0.50	<0.50	<0.50	6.3	2.2	
06/04/98			NM									
08/21, 22/98			NM									
12/14/98			10.63	20.78	<50	<0.50	<0.50	<0.50	<0.50	48.2	1.8	
03/15, 16/99			NM									
06/14, 15/99			NM									
09/15, 16/99			NM									
12/08, 09/99			11.28	20.13	<50	<0.5	<0.5	<0.5	<0.5	167.0	NM	
03/15/00			9.03	22.38	<50	<0.5	<0.5	<0.5	<0.5	82.1	1.5	
03/15/00		a								105	--	
09/13/00		b	10.96	20.45	<50	<0.5	0.703	<0.5	0.870	69.8	2.0	
9/19, 20/00			11.10	20.31	<50	<0.5	<0.5	<0.5	<0.5	156.0	2.2	
12/14, 15/00		NM	NA									
3/8, 9/01		9.48	21.93	<50	<0.5	<0.5	<0.5	<0.5	63.8	2.6		
06/14/01		10.95	20.46	<50	<0.5	<0.5	<0.5	<0.5	26.0	3.0		
09/26/01		11.38	20.03	<50	<0.5	<0.5	<0.5	<0.5	17.0	1.2		
12/29/01		9.41	22.00	<50	<0.5	<0.5	<0.5	<0.5	30.0	2.2		
03/13/02		10.03	21.38	<50	<0.5	<0.5	<0.5	<0.5	21.0	1.2		
MW-16	03/13/96	31.39	8.62	22.77	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28/96		10.90	20.49	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		11.84	19.55	<50	<0.50	<0.50	<0.50	<0.50	89	NM	
	11/25/96		11.32	20.07	<50	<0.50	<0.50	<0.50	<0.50	86	NM	
	03/31-04/01/97		11.06	20.33	<50	<0.50	<0.50	<0.50	<0.50	49	NM	
	06/25/97		11.92	19.47	<50	<0.50	<0.50	<0.60	<0.50	59	NM	
	09/09, 10/97		12.03	19.36	<50	<0.50	<0.50	<0.50	<0.50	63	3.0	
	09/09, 10/97	a								86	--	
	11/24, 25/97		11.76	19.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	03/15/98		9.80	21.59	<50	<0.50	<0.50	<0.50	<0.50	8.4	3.0	
	06/03/98		10.55	20.84	<50	<0.50	<0.50	<0.50	<0.50	22	1.6	
	08/21, 22/98		11.77	19.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.2	
	12/14/98		11.20	20.19	<50	<0.50	<0.50	<0.50	<0.50	25	1.0	
	03/15, 16/99		10.30	21.09	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.6	
	06/14, 15/99		11.55	19.84	<50	<0.50	<0.50	<0.60	<0.60	3.13	3.4	
	09/15/99		11.99	19.40	<50	<0.50	<0.50	<0.50	<0.60	8.70	3.8	
	12/08, 09/99		11.80	19.59	<50	<0.50	<0.50	<0.50	<0.50	10.1	2.4	
	03/15/00		9.55	21.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	
	06/13/00	b	11.64	19.75	<50	<0.50	0.517	<0.50	0.603	6.29	1.0	
	9/19, 20/00		11.64	19.75	<50	<0.50	<0.50	<0.50	<0.50	5.01	2.0	
12/14, 15/00		11.25	20.14	<50	<0.50	<0.50	<0.50	<0.50	6.14	2.0		
3/8, 9/01		10.01	21.38	<50	<0.50	<0.60	<0.50	<0.50	<2.5	2.4		
06/14/01		11.47	18.92	<50	<0.50	<0.50	<0.50	<0.50	2.5	2.6		
09/26/01		11.93	19.46	<50	<0.50	<0.50	<0.50	<0.50	3.8	1.8		
12/29/01		9.71	21.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
03/13/02		10.51	20.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6		
MW-17					Well Destroyed							
MW-18	03/13/96	29.70	7.53	22.17	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28/96		9.88	19.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		10.82	18.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/96		10.18	19.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	

Table 2  
Groundwater Elevation and Analytical Data  
Groundwater Monitoring Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TDB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MIBE (ppb)	Dissolved Oxygen (ppm)	
MW-18 (cont.)	03/31-04/01/97		10.14	19.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	08/25/97		10.94	18.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09, 10/97		11.00	18.70	<50	<0.50	<0.50	<0.50	<0.50	<2.5	4.0	
	11/24, 25/97		10.65	19.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.4	
	03/19/98		8.95	20.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	06/03/98		9.57	20.13	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.8	
	09/21, 22/98		10.80	18.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	12/14/98		10.18	19.52	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.6	
	03/15, 16/99		9.20	20.50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
	06/14, 15/99		10.60	19.10	Well Sampled Annually							
	09/15/99		10.96	18.74	Well Sampled Annually							
	12/08, 09/99		10.78	18.91	Well Sampled Annually							
	03/15/00		8.80	20.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/13/00	b	10.60	19.10	Well Sampled Annually							
	9/19, 20/00		10.63	19.07	Well Sampled Annually							
	12/14, 15/00		10.39	19.31	Well Sampled Annually							
	3/8, 9/01		9.03	20.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4	
	06/14/01		10.40	19.30	Well Sampled Annually							
	09/26/01		10.91	18.79	Well Sampled Annually							
	12/29/01		8.24	21.46	Well Sampled Annually							
03/13/02		9.46	20.24	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8		
MW-19	03/13/96	29.02	7.06	21.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28/96		9.42	19.60	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		10.33	18.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/96		9.67	19.35	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31-04/01/97		9.65	19.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		10.41	18.61	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09, 10/97		10.47	18.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	11/24, 25/97		10.35	18.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6	
	03/19/98		8.67	20.35	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/03/98		9.15	19.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	
	09/21, 22/98		10.28	18.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6	
	12/14/98		9.70	19.32	<50	<0.50	<0.50	0.688	0.647	<2.0	2.4	
	03/15, 16/99		Well Inaccessible									
	06/14, 15/99		Removed From Gauging and Sampling Program									
MW-20	Well Destroyed											
MW-21	03/13/96	28.72	7.58	21.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28, 29/96		9.85	18.97	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		10.75	17.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/96		10.00	18.72	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31-04/01/97		10.03	18.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		10.83	17.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09, 10/97		10.90	17.82	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	11/24, 25/97		10.50	18.22	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	
	03/19/98		9.08	19.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.08	
	06/03/98		9.57	19.15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.6	
	09/21, 22/98		10.75	17.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4	
	12/14/98		10.11	18.61	<50	<0.50	<0.50	<0.50	<0.50	<2.0	0.6	
	03/15, 16/99		9.10	18.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
	06/14, 15/99		10.58	18.14	Well Sampled Annually							
	09/15/99		10.93	17.79	Well Sampled Annually							
	12/08, 09/99		10.70	18.02	Well Sampled Annually							
	03/15/00		8.95	19.77	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.3	
	06/13/00	b	10.97	17.75	Well Sampled Annually							
	9/19, 20/00		10.68	18.06	Well Sampled Annually							
	12/14, 15/00		10.30	18.42	Well Sampled Annually							
3/8, 9/01		9.00	18.72	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4		
06/14/01		10.40	18.32	Well Sampled Annually								
09/26/01		10.75	17.97	Well Sampled Annually								
12/29/01		7.86	20.86	Well Sampled Annually								
03/13/02		9.40	19.32	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.2		
MW-22	03/13/96	29.29	7.83	21.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28/96		10.33	18.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		11.28	18.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/96		10.61	18.68	<50	<0.50	<0.50	<0.50	<0.50	3.0	NM	
	12/30/96		10.81	18.68	NA	NA	NA	NA	NA	3.3	NM	
	03/31-04/01/97		10.56	18.73	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		11.51	17.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09, 10/97		11.45	17.84	<50	<0.50	<0.50	<0.50	<0.50	3.4	1.0	
	11/24, 25/97		11.08	18.21	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6	
	03/19/98		9.40	19.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	06/03/98		10.00	19.29	<50	<0.50	<0.50	<0.50	<0.50	0.87	3.2	
	09/21, 22/98		11.27	18.02	<50	<0.50	<0.50	<0.50	<0.50	2.1	2.6	
	12/14/98		10.65	18.64	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4	
	03/15, 16/99		9.67	19.67	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4	
06/14, 15/99		11.06	18.23	<50	<0.50	<0.50	<0.50	<0.50	5.05	1.0		
09/15/99	a	11.46	17.83	<50	<0.50	<0.50	<0.50	<0.50	49.2	1.2		
12/08, 09/99		11.25	18.04	<50	<0.50	<0.50	<0.50	<0.50	17.9	1.4		

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Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MIBE (ppb)	Dissolved Oxygen (ppm)	
MW-22 (cont.)	03/15/00	b	9.20	20.09	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.1	
	05/13/00		11.06	18.23	<50	<0.50	<0.50	<0.50	<0.50	6.85	1.0	
	9/19, 20/00		11.12	18.17	<50	<0.50	<0.50	<0.50	<0.50	3.18	1.8	
	12/14, 15/00		10.85	18.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	3/8, 9/01		9.43	19.86	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8	
	06/14/01		10.98	18.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	09/26/01		11.41	17.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0	
	12/29/01		8.78	20.51	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/13/02		9.85	19.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4	
	MW-23		03/13/98	30.99	9.13	21.86	<50	<0.50	<0.50	<0.50	<0.50	NA
05/28/98		11.37	19.62		<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
08/28/98		12.31	18.68		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
11/25/98		11.76	19.23		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
03/31-04/01/97		11.56	19.43		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
06/25/97		12.39	18.60		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
09/09, 10/97		12.53	18.46		<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
11/24, 25/97		12.13	18.66		<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	
03/19/98		10.22	20.77		<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4	
06/03/98		11.03	18.96		<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.3
09/21, 22/98		12.31	18.68		<50	<0.50	0.54	1.9	<0.50	<2.5	2.2	
12/14/98		11.67	19.32		<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.0	
03/15, 16/99		10.82	20.17		<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6	
06/14, 15/99		12.08	18.91		Well Sampled Annually							
09/16/99		12.48	18.51		Well Sampled Annually							
12/08, 09/99		12.29	18.70		Well Sampled Annually							
03/15/00		10.04	20.95		<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
06/13/00		11.95	19.04		Well Sampled Annually							
9/19, 20/00		12.15	18.84		Well Sampled Annually							
12/14, 15/00		12.25	18.74		Well Sampled Annually							
3/8, 9/01		10.49	20.50		<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6	
06/14/01		11.97	19.02		Well Sampled Annually							
09/26/01		12.40	18.59		Well Sampled Annually							
12/29/01	10.42	20.57	Well Sampled Annually									
03/13/02	11.01	19.98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0			
MW-24	03/13, 15/98	34.38	10.10	24.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28/98		12.25	22.13	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/98		13.28	21.10	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/98		12.71	21.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31-04/01/97		12.50	21.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		13.38	21.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09, 10/97		13.46	20.92	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0	
	11/24, 25/97		13.25	21.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/19, 20/98		11.32	23.06	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	06/04/98		12.00	22.38	<50	<0.30	<0.30	<0.30	<0.60	<1.0	0.8	
	09/21, 22/98		13.13	21.25	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4	
	12/14, 15/98		12.53	21.85	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.2	
	03/15, 16/99		11.68	22.80	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.0	
	06/14, 15/99		Removed From Gauging and Sampling Program									
MW-25	03/13, 14/98	34.12	9.61	24.51	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28, 29/98		11.30	22.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28, 29/98		12.32	21.80	<50	<0.50	<0.50	<0.50	<0.50	51	NM	
	11/25/98		11.83	22.29	<50	<0.50	<0.50	<0.50	<0.50	110	NM	
	03/31-04/01/97		11.65	22.57	<50	<0.50	<0.50	<0.50	<0.50	39	NM	
	06/25/97		14.57	19.55	<50	<0.50	<0.50	<0.50	<0.50	49	NM	
	09/09, 10/97		12.45	21.67	<50	<0.50	<0.50	<0.50	<0.50	78	1.0	
	09/09, 10/97		-	-	-	-	-	-	-	-	79	-
	11/24, 25/97		12.30	21.82	<50	<0.50	<0.50	<0.50	<0.50	130	0.0	
	03/19, 20/98		10.18	23.94	<50	<0.50	<0.50	<0.50	<0.50	96	1.8	
	06/04/98		11.00	23.12	<50	<0.30	<0.30	<0.30	<0.60	44	0.8	
	09/21, 22/98		12.13	21.99	<50	<0.50	<0.50	<0.50	<0.50	150	0.4	
	12/14, 15/98		11.60	22.52	<50	<0.50	<0.50	<0.50	<0.50	44	1.0	
	03/15, 16/99		10.78	23.34	<50	<0.50	<0.50	<0.50	<0.50	26.6	2.0	
	06/14, 15/99		11.97	22.15	<50	<0.50	<0.50	<0.50	<0.50	98.9	2.2	
	09/15, 16/1999		12.34	21.78	<50	<0.50	<0.50	<0.50	<0.50	66.4	NM	
	12/08, 09/99		12.25	21.87	<50	<0.50	<0.50	<0.50	<0.50	55.5	0.0	
	03/15/00		10.16	23.96	<50	<0.50	<0.50	<0.50	<0.50	154	1.0	
	03/15/00		-	-	-	-	-	-	-	-	206	-
	06/13/00		11.72	22.40	<50	<0.50	<0.50	<0.50	<0.50	77.7	1.0	
9/19, 20/00	12.08	22.04	<50	1	<0.50	<0.50	<0.50	192	1.2			
12/14, 15/00	11.74	22.38	<50	<0.50	<0.50	<0.50	<0.50	134	4.0			
3/8, 9/01	10.53	23.69	<50	<0.50	<0.50	<0.50	<0.50	140	2.6			
06/14/01	11.95	22.17	<50	<0.50	<0.50	<0.50	<0.50	150	2.6			
09/26/01	12.22	21.90	<50	<0.50	<0.50	<0.50	<0.50	64	1.0			
12/29/01	10.32	23.48	73	<0.50	<0.50	1	7	94	2.2			
03/13/02	10.99	22.82	57	<0.50	<0.50	<0.50	<0.50	89	2.6			
MW-26	03/13, 15/98	33.71	9.38	24.33	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28/98		11.57	22.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28, 29/98		12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/98		12.03	21.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31-04/01/97		11.84	21.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
06/25/97	12.94	20.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM			

Table 2  
Groundwater Elevation and Analytical Data  
Groundwater Monitoring Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Haciends Avenue  
San Lorenzo, California

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MIBE (ppb)	Dissolved Oxygen (ppm)
MVV-26	09/09,10/57		12.77	20.94	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0
(cont.)	11/24,25/97		12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6
	03/19,20/98		10.55	23.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/04/98		11.22	22.49	<50	<0.30	<0.30	<0.30	<0.60	<10	2.1
	09/21,22/98		12.45	21.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	12/14,15/98		11.83	21.88	<50	<0.50	<0.30	<0.50	<0.50	<2.5	1.0
	03/15,16/99		10.86	22.85	<50	<0.50	<0.50	<0.50	<0.60	<5.0	1.0
	06/14,15/99		12.17	21.54	Well Sampled Annually						
	09/15/99		12.70	21.01	Well Sampled Annually						
	12/08,09/99		12.57	21.14	Well Sampled Annually						
	03/15/00		10.80	23.21	<50	<0.50	<0.50	<0.50	<0.50	6.55	1.4
	06/13/00	b	12.20	21.51	Well Sampled Annually						
	09/19,20/00		12.38	21.33	Well Sampled Annually						
	12/14,15/00		11.88	21.83	Well Sampled Annually						
	3/8,9/01		10.78	22.83	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/14/01		12.17	21.54	Well Sampled Annually						
	09/26/01		12.70	21.01	Well Sampled Annually						
	12/29/01		10.41	23.30	Well Sampled Annually						
	03/13/02		11.27	22.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
MIBE	= Methyl tert-butyl ether				NA = Not analyzed						
MSL	= Mean sea level				NM = Not measured						
TOB	= Top of box				NS = Not sampled						
ppb	= Parts per billion				a. = MIBE result confirmed by EPA Method 8260.						
ppm	= Parts per million				b. = Depths to water originally measured from TOC. Depth to water adjusted to reflect a TOB measurement by adding the average difference between TOB and TOC measurements over the last four gauging events.						
<	= Less than laboratory detection limit				c. = well elevation changed during station reconstruction, well resurveyed 11/6/2001						
†	= Well sampled without purging.										
††	= ORC program initiated September 21, 1995 and discontinued on May 15, 1997.										
Please see certified analytical reports for laboratory notes and definitions.											

Table 3  
Groundwater Analytical Data  
Domestic Irrigation Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MIBE (ppb)	Dissolved Oxygen (ppm)
590 H	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96 a	NS	NS	NS	NS	NS	NA	NM
	11/26/96	NS	NS	NS	NS	NS	NS	NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97 a	NS	NS	NS	NS	NS	NS	NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	11/24/97 a	NS	NS	NS	NS	NS	NS	NM
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.8
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.2
	12/14/98	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.2
	03/15/99 a	NS	NS	NS	NS	NS	NS	NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/15/99 a	NS	NS	NS	NS	NS	NS	NM
	12/08/99 a	NS	NS	NS	NS	NS	NS	NM
	03/15/00 a	NS	NS	NS	NS	NS	NS	NM
	06/13/00 a	NS	NS	NS	NS	NS	NS	NM
	Well Destroyed							
633 H	03/14/96	480	10	11	1.8	140	NA	NM
	05/13/96 b	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	3.70	NM
	12/30/96	--	--	--	--	--	4.9	c NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97 a	NS	NS	NS	NS	NS	NS	NM
	09/10/97	<50	<0.50	<0.50	<0.50	0.66	<2.5	1.0
	11/24/97	110	2.0	2.1	1.0	4.2	<2.5	c NM
	03/19/98	150	1.8	0.62	<0.50	28	77	NM
	03/19/98	--	--	--	--	--	<2.0	c NM
	06/03/98	480	6.2	4.3	2.9	120	28	1.3
	09/21/98	<50	<0.50	<0.50	<0.50	0.66	<2.5	1.2
	12/14/98	<50	<0.50	<0.50	<0.50	2.21	11.7	NM
	03/15/99	<50	0.513	<0.50	<0.50	0.542	31	NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	7.93	NM
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	5.65	0.0
	12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	17.5	1.2
06/13/00	240	5.03	1.01	2.39	63.8	10.5	NM	
Well Destroyed								
634 H	03/13/96 a	NS	NS	NS	NS	NS	NA	NM
	05/27/96 a	NS	NS	NS	NS	NS	NA	NM
	08/29/96 a	NS	NS	NS	NS	NS	NA	NM
	11/26/96	NS	NS	NS	NS	NS	NS	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97 a	NS	NS	NS	NS	NS	NS	NM
	09/09/97 g	NS	NS	NS	NS	NS	NS	NM
	11/24/97 g	NS	NS	NS	NS	NS	NS	NM
	03/19/98 e	NS	NS	NS	NS	NS	NS	NM



Table 3  
Groundwater Analytical Data  
Domestic Irrigation Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Address	Date Sampled	TPPH as		Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MIBE (ppb)	Dissolved Oxygen (ppm)
		Gasoline (ppb)	Benzene (ppb)					
634 H (cont.)	06/03/98 e	NS	NS	NS	NS	NS	NS	NM
	09/21/98 e	NS	NS	NS	NS	NS	NS	NM
	12/14/98 e	NS	NS	NS	NS	NS	NS	NM
	03/15/99 e	NS	NS	NS	NS	NS	NS	NM
	06/14/99 e	NS	NS	NS	NS	NS	NS	NM
	09/15/99 e	NS	NS	NS	NS	NS	NS	NM
	12/08/99 e	NS	NS	NS	NS	NS	NS	NM
	03/15/00 e	NS	NS	NS	NS	NS	NS	NM
	06/13/00 e	NS	NS	NS	NS	NS	NS	NM
	09/19/00 e	NS	NS	NS	NS	NS	NS	NM
	12/14/00 e	NS	NS	NS	NS	NS	NS	NM
	03/08/01 e	NS	NS	NS	NS	NS	NS	NM
	06/14/01 e	NS	NS	NS	NS	NS	NS	NM
	09/26/01 e	NS	NS	NS	NS	NS	NS	NM
	12/29/01 e	NS	NS	NS	NS	NS	NS	NM
	03/13/02 e	NS	NS	NS	NS	NS	NS	NM
	642 H	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA
05/27/96		<50	<0.50	<0.50	<0.50	<0.50	NA	NM
08/29/96		<50	<0.50	<0.50	<0.50	<0.50	NA	NM
11/26/96		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
03/31/97		NS	NS	NS	NS	NS	NS	NM
06/25/97		NS	NS	NS	NS	NS	NS	NM
09/09/97 a		NS	NS	NS	NS	NS	NS	NM
11/24/97		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
03/19/98 a		NS	NS	NS	NS	NS	NS	NM
06/03/98		<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM
09/21/98 a		NS	NS	NS	NS	NS	NS	NM
12/14/98 a		NS	NS	NS	NS	NS	NS	NM
03/15/99 a		NS	NS	NS	NS	NS	NS	NM
06/14/99		<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
09/15/99		<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.2
12/08/99		<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4
03/15/00		<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
06/13/00		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
09/19/00 a		NS	NS	NS	NS	NS	NS	NM
12/14/00		<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
03/08/01 a	NS	NS	NS	NS	NS	NS	NM	
06/14/01 a	NS	NS	NS	NS	NS	NS	NM	
09/26/01 a	NS	NS	NS	NS	NS	NS	NM	
12/29/01 a	NS	NS	NS	NS	NS	NS	NM	
03/13/02 a	NS	NS	NS	NS	NS	NS	NM	
675 H	03/13/96 a	NS	NS	NS	NS	NS	NA	NM
	05/27/96 a	NS	NS	NS	NS	NS	NA	NM
	08/29/96 d	NS	NS	NS	NS	NS	NA	NM
	11/26/96	NS	NS	NS	NS	NS	NS	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM
	03/19/98 f	NS	NS	NS	NS	NS	NS	NM
	06/03/98 f	NS	NS	NS	NS	NS	NS	NM
	09/21/98 a,f	NS	NS	NS	NS	NS	NS	NM
	12/14/98 f	NS	NS	NS	NS	NS	NS	NM
	03/15/99 f	NS	NS	NS	NS	NS	NS	NM
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM
	09/15/99 f	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM
06/13/00 f	NS	NS	NS	NS	NS	NS	NM	
09/19/00 f	NS	NS	NS	NS	NS	NS	NM	

Table 3  
Groundwater Analytical Data  
Domestic Irrigation Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Dissolved Oxygen (ppm)	
675 H (cont.)	12/14/00 f	NS	NS	NS	NS	NS	NS	NM	
	03/08/01 f	NS	NS	NS	NS	NS	NS	NM	
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM	
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM	
	12/29/01 f	NS	NS	NS	NS	NS	NS	NM	
03/13/02 f	NS	NS	NS	NS	NS	NS	NM		
17197 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	12/14/98	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4	
	03/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.6	
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
	12/08/99 a	NS	NS	NS	NS	NS	NS	NM	
	03/15/00 a	NS	NS	NS	NS	NS	NS	NM	
	06/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/19/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM	
03/08/01 f	NS	NS	NS	NS	NS	NS	NM		
06/14/01 f	NS	NS	NS	NS	NS	NS	NM		
09/26/01 f	NS	NS	NS	NS	NS	NS	NM		
12/29/01 f	NS	NS	NS	NS	NS	NS	NM		
03/13/02 f	NS	NS	NS	NS	NS	NS	NM		
17200 VM	03/15/96	730	<1.0	<1.0	1.5	1.7	NA	NM	
	05/27/96	200	<0.50	<0.50	1.4	1.8	NA	NM	
	08/29/96		Well Destroyed						
17203 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31/97 f	NS	NS	NS	NS	NS	NS	NM	
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM	
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM	
	03/19/98		Well Dry						
	06/03/98 f	NS	NS	NS	NS	NS	NS	NM	
	09/21/98 f	NS	NS	NS	NS	NS	NS	NM	
	12/14/98 f	NS	NS	NS	NS	NS	NS	NM	
	03/15/99 f	NS	NS	NS	NS	NS	NS	NM	
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM	
	09/15/99 f	NS	NS	NS	NS	NS	NS	NM	
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM	
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM	
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM	
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM	
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM	
03/08/01 f	NS	NS	NS	NS	NS	NS	NM		
06/14/01 f	NS	NS	NS	NS	NS	NS	NM		
09/26/01 f	NS	NS	NS	NS	NS	NS	NM		
12/29/01 f	NS	NS	NS	NS	NS	NS	NM		
03/13/20 f	NS	NS	NS	NS	NS	NS	NM		
17302 VM*	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	

Table 3  
Groundwater Analytical Data  
Domestic Irrigation Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
17302 VM (cont.)	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM
	03/19/98 f	NS	NS	NS	NS	NS	NS	NM
	06/03/98 f	NS	NS	NS	NS	NS	NS	NM
	09/21/98 f	NS	NS	NS	NS	NS	NS	NM
	12/14/98 f	NS	NS	NS	NS	NS	NS	NM
	03/15/99 f	NS	NS	NS	NS	NS	NS	NM
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM
	09/15/99 f	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM
	03/08/01 f	NS	NS	NS	NS	NS	NS	NM
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM
	12/29/01 f	NS	NS	NS	NS	NS	NS	NM
	03/13/02 f	NS	NS	NS	NS	NS	NS	NM
	17348 VE	03/13/96	<50	<0.50	<0.50	<0.50	<0.50	NA
05/27/96								Well Dry
08/29/96								Well Dry
11/26/96								Well Dry
03/31/97								Well Dry
06/25/97								Well Inaccessible
09/09/97 g		NS	NS	NS	NS	NS	NS	NM
11/24/97 g		NS	NS	NS	NS	NS	NS	NM
03/19/98 a		NS	NS	NS	NS	NS	NS	NM
06/03/98 a		NS	NS	NS	NS	NS	NS	NM
09/21/98 a		NS	NS	NS	NS	NS	NS	NM
12/14/98 a		NS	NS	NS	NS	NS	NS	NM
03/15/99 a		NS	NS	NS	NS	NS	NS	NM
06/14/99 f		NS	NS	NS	NS	NS	NS	NM
09/15/99 f		NS	NS	NS	NS	NS	NS	NM
12/08/99 f		NS	NS	NS	NS	NS	NS	NM
03/15/00 a		NS	NS	NS	NS	NS	NS	NM
06/13/00 f		NS	NS	NS	NS	NS	NS	NM
09/19/00 f		NS	NS	NS	NS	NS	NS	NM
12/14/00 f		NS	NS	NS	NS	NS	NS	NM
03/08/01 f		NS	NS	NS	NS	NS	NS	NM
06/14/01 f		NS	NS	NS	NS	NS	NS	NM
09/26/01 f		NS	NS	NS	NS	NS	NS	NM
12/29/01 f	NS	NS	NS	NS	NS	NS	NM	
03/13/02 f	NS	NS	NS	NS	NS	NS	NM	
17349 VM	03/15/96	1,700	<2.0	<2.0	2.5	13	NA	NM
	05/27/96	320	4.2	1.3	0.95	0.71	NA	NM
	08/29/96	410	7.5	<0.50	<0.50	1.1	NA	NM
	11/26/96	300	<1.0	1.7	<1.0	2.1	55	NM
	03/31/97	430	<1.0	2.7	<1.0	1.0	57	NM
	06/25/97 **	2,100	30	<5.0	<5.0	6.7	140	NM
	08/18/97	320	2.0	<0.5	<0.5	<0.5	34	NM
	08/18/97	--	--	--	--	--	31	NM
	09/09/97	380	6.0	1.4	0.98	<0.50	36	3.0
	09/09/97	--	--	--	--	--	34	NM
	11/24/97	240	<1.0	1.1	<1.0	1.4	53	2.4
	11/24/97	--	--	--	--	--	33	NM
	03/19/98	1,300	14	<0.50	<0.50	1.2	250	1.0
	03/19/98	--	--	--	--	--	27	NM

Table 3  
Groundwater Analytical Data  
Domestic Irrigation Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Address	Date Sampled	TPPH as					MIBE (ppb)	Dissolved Oxygen (ppm)
		Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)		
17349 VM (cont.)	06/03/98	860	8.7	<0.50	0.7	8.0	38	4.9
	07/29/98	860	20	2.1	<1.2	<1.2	27	NM
	07/29/98	-	-	-	-	-	25	NM
	09/21/98	200	<0.50	<0.50	<0.50	14	14	5.2
	12/14/98	284	<0.50	6.92	0.604	1.58	21.7	1.0
	03/15/99	172	1.35	<0.50	<0.50	<0.50	24.2	3.6
	06/14/99	91	<0.50	3.53	<0.50	<0.50	88.3	2.8
	09/15/99 a	133	<0.50	<0.50	<0.50	<0.50	184	2.2
	12/08/99	136	0.681	<0.50	<0.50	<0.50	267	2.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	82.1	2.8
	06/13/00	319	5.28	<0.5	<0.50	<0.50	97.1	NM
	06/13/00	-	-	-	-	-	85.1	NM
	09/19/00	106	<0.50	2	<0.50	<0.50	204.0	NM
	09/19/00	-	-	-	-	-	84.0	NM
	12/14/00	65.9	0.61	<0.50	<0.50	<0.50	188.0	1.8
	12/14/00	-	-	-	-	-	197.0	NM
	03/08/01	<50	<0.50	<0.50	<0.50	<0.50	91.8	1.8
	03/08/01	-	-	-	-	-	98.3	NM
	06/14/01	<50	<0.50	<0.50	<0.50	<0.50	68.0	2.8
	06/14/01	-	-	-	-	-	99.0	NM
	09/26/01	52	0.53	<0.50	<0.50	<0.50	49.0	1.8
	09/26/01	-	-	-	-	-	54.0	NM
	12/29/01	<50.0	<0.50	0.78	<0.50	<0.50	58.0	NM
	12/29/01	-	-	-	-	-	48.0	NM
	03/13/02	<50.0	1	<0.50	<0.50	<0.50	49.0	2.0
	03/13/02	-	-	-	-	-	47.0	NM
17371 VM	03/13/96 e	NS	NS	NS	NS	NS	NA	NM
	05/27/96 e	NS	NS	NS	NS	NS	NA	NM
	08/29/96 e	NS	NS	NS	NS	NS	NA	NM
	11/26/96 e	NS	NS	NS	NS	NS	NS	NM
	03/31/97 e	NS	NS	NS	NS	NS	NS	NM
	06/25/97 e	NS	NS	NS	NS	NS	NS	NM
	09/09/97 e	NS	NS	NS	NS	NS	NS	NM
	11/24/97 e	NS	NS	NS	NS	NS	NS	NM
	03/19/98 e	NS	NS	NS	NS	NS	NS	NM
	06/03/98 e	NS	NS	NS	NS	NS	NS	NM
	09/21/98 e	NS	NS	NS	NS	NS	NS	NM
	12/14/98 e	NS	NS	NS	NS	NS	NS	NM
	03/15/99 e	NS	NS	NS	NS	NS	NS	NM
	06/14/99 e	NS	NS	NS	NS	NS	NS	NM
	09/15/99 e	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM
03/08/01 f	NS	NS	NS	NS	NS	NS	NM	
06/14/01 f	NS	NS	NS	NS	NS	NS	NM	
09/26/01 f	NS	NS	NS	NS	NS	NS	NM	
12/29/01 f	NS	NS	NS	NS	NS	NS	NM	
03/13/02 f	NS	NS	NS	NS	NS	NS	NM	
17372 VM	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	4.0
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	1,200	1.8
	03/19/98	-	-	-	-	-	1,400	NM
06/03/98	<50	<0.50	<0.50	<0.50	<0.50	16,000	1.8	
07/29/98	<200	<2.0	<2.0	<2.0	<2.0	940	NM	

Table 3  
Groundwater Analytical Data  
Domestic Irrigation Wells

ARCO Service Station 0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MIBE (ppb)	Dissolved Oxygen (ppm)
17372 VM (cont.)	07/29/98	--	--	--	--	--	1,100	NM
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	200	1.6
	09/21/98	--	--	--	--	--	360	NM
	12/14/98	<50	<0.50	0.823	<0.50	<0.50	20.1	3.8
	03/15/99	<50	<0.50	<0.50	<0.50	<0.50	6.66	4.6
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	3.33	4.0
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.0
	12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NM
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
	06/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/19/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	12/14/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	03/08/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
	09/26/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	12/29/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.1
03/13/02	<51	<0.50	<0.50	<0.50	<0.50	<2.6	1.8	
17393 VM	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	VM	11/26/96	<50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97 a	NS	NS	NS	NS	NS	NS	NM
	08/25/97							NM
Well Destroyed								
<p>TPPH = Total purgeable petroleum hydrocarbons  MIBE = Methyl tert-butyl ether  NA = Not analyzed  NS = Not sampled  ppb = Parts per billion  H = Hacienda Avenue  VM = Via Magdalena  VE = Via Encinas  &lt; = Less than laboratory detection limit stated to the right.  * = MIBE data maybe anomalous; unable to confirm with EPA Method 8260.  ** = Concentration data are suspect due to inadequate purging. Well resampled on August 18, 1997 for confirmation purposes.  a. Owner not available to approve sampling access; well not sampled.  b. Well resampled to confirm data of March 14, 1996.  c. MIBE result confirmed by EPA Method 8260.  d. Pumping equipment obstructing sampling access; well not sampled.  e. Access denied by owner; well not sampled.  f. Pump on well does not work.  g. Well blocked and pump non-operational; well cannot be sampled.</p> <p><b>Notes:</b>  Homeowners are contacted 1 week prior to sampling event.  Please see certified analytical reports for laboratory notes and definitions</p>								

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

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<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
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<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	1/19/2005 2:16:30 PM
<u>GLOBAL ID:</u>	T0600100085
<u>FILE UPLOADED:</u>	ARCO#0608-EDF-MNL0445.zip

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<b>ARCO # 00608</b>	<b>Regional Board - Case #: 01-0092</b>
17601 HESPERIAN BLVD	SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB)
SAN LORENZO, CA 94580	<b>Local Agency (lead agency) - Case #: 779</b>
	ALAMEDA COUNTY LOP - (AG)

#### SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	7
# FIELD POINTS WITH DETECTIONS	5
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
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**

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

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**Confirmation Number:** 3000477850

**Date/Time of Submittal:** 1/19/2005 2:18:52 PM

**Facility Global ID:** T0600100085

**Facility Name:** ARCO # 00608

**Submittal Title:** QMR Q4 2004 Site 608

**Submittal Type:** GW Monitoring Report

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

<b>ARCO # 00608</b> 17601 HESPERIAN BLVD SAN LORENZO, CA 94580	<b>Regional Board - Case #: 01-0092</b> SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB) <b>Local Agency (lead agency) - Case #: 779</b> ALAMEDA COUNTY LOP - (AG)
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<b>CONF #</b> 3000477850	<b>TITLE</b> QMR Q4 2004 Site 608	<b>QUARTER</b> Q4 2004
<b>SUBMITTED BY</b> Srijesh Thapa	<b>SUBMIT DATE</b> 1/19/2005	<b>STATUS</b> PENDING REVIEW

**SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	7
# FIELD POINTS WITH DETECTIONS	5
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
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	
<b>SOIL SAMPLES FOR 8021/8260 SERIES</b>		
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	
<b>FIELD QC SAMPLES</b>		
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPDL</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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CONTACT SITE ADMINISTRATOR.

**ATTACHMENT E**  
**WELL DESTRUCTION REPORTS**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041

Station 608

Received: 11/16/2004 15:30

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/11/27-2C.65-056

Water

Test(s): 8260B

QC Batch # 2004/11/27-2C.65

Date Extracted: 11/27/2004 19:56

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/27/2004 19:56	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	11/27/2004 19:56	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/27/2004 19:56	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	11/27/2004 19:56	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	11/27/2004 19:56	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	11/27/2004 19:56	
Benzene	ND	0.5	ug/L	11/27/2004 19:56	
Toluene	ND	0.5	ug/L	11/27/2004 19:56	
Ethylbenzene	ND	0.5	ug/L	11/27/2004 19:56	
Total xylenes	ND	1.0	ug/L	11/27/2004 19:56	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	98.2	72-128	%	11/27/2004 19:56	
Toluene-d8	107.6	80-113	%	11/27/2004 19:56	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 18:00

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041

Station 608

Received: 11/16/2004 15:30

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2004/11/28-1B.65
MB: 2004/11/28-1B.65-041		Date Extracted: 11/28/2004 07:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/28/2004 07:41	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	11/28/2004 07:41	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/28/2004 07:41	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	11/28/2004 07:41	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	11/28/2004 07:41	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	11/28/2004 07:41	
Benzene	ND	0.5	ug/L	11/28/2004 07:41	
Toluene	ND	0.5	ug/L	11/28/2004 07:41	
Ethylbenzene	ND	0.5	ug/L	11/28/2004 07:41	
Total xylenes	ND	1.0	ug/L	11/28/2004 07:41	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	104.4	72-128	%	11/28/2004 07:41	
Toluene-d8	103.0	80-113	%	11/28/2004 07:41	



**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

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Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041

Station 608

Received: 11/16/2004 15:30

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/11/27-2C.65

LCS 2004/11/27-2C.65-032

Extracted: 11/27/2004

Analyzed: 11/27/2004 19:32

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	28.8		25	115.2			65-165	20		
Benzene	26.6		25	106.4			69-129	20		
Toluene	27.2		25	108.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	406		500	81.2			72-128			
Toluene-d8	501		500	100.2			80-113			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 18:00

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA  
Attn.: Scott Robinson

1333 Broadway, Suite 800  
Oakland, CA 94612  
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
Station 608

Received: 11/16/2004 15:30

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/11/28-1B.65

LCS 2004/11/28-1B.65-019

Extracted: 11/28/2004

Analyzed: 11/28/2004 07:18

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	29.0		25	116.0			65-165	20		
Benzene	27.9		25	111.6			69-129	20		
Toluene	27.5		25	110.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	409		500	81.8			72-128			
Toluene-d8	504		500	100.8			80-113			

Severn Trent Laboratories, Inc.

11/29/2004 18:00

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041

Station 608

Received: 11/16/2004 15:30

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2004/11/27-2C.65**

MS/MSD

Lab ID: 2004-11-0532 - 011

MS: 2004/11/27-2C.65-019

Extracted: 11/27/2004

Analyzed: 11/27/2004 20:19

Dilution: 1.00

MSD: 2004/11/27-2C.65-043

Extracted: 11/27/2004

Analyzed: 11/27/2004 20:43

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	27.7	29.0	ND	25	110.8	116.0	4.6	69-129	20		
Toluene	27.5	27.9	ND	25	110.0	111.6	1.4	70-130	20		
Methyl tert-butyl ether	46.6	48.1	18.7	25	111.6	117.6	5.2	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	393	404		500	78.6	80.8		72-128			
Toluene-d8	497	497		500	99.4	99.5		80-113			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 18:00

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

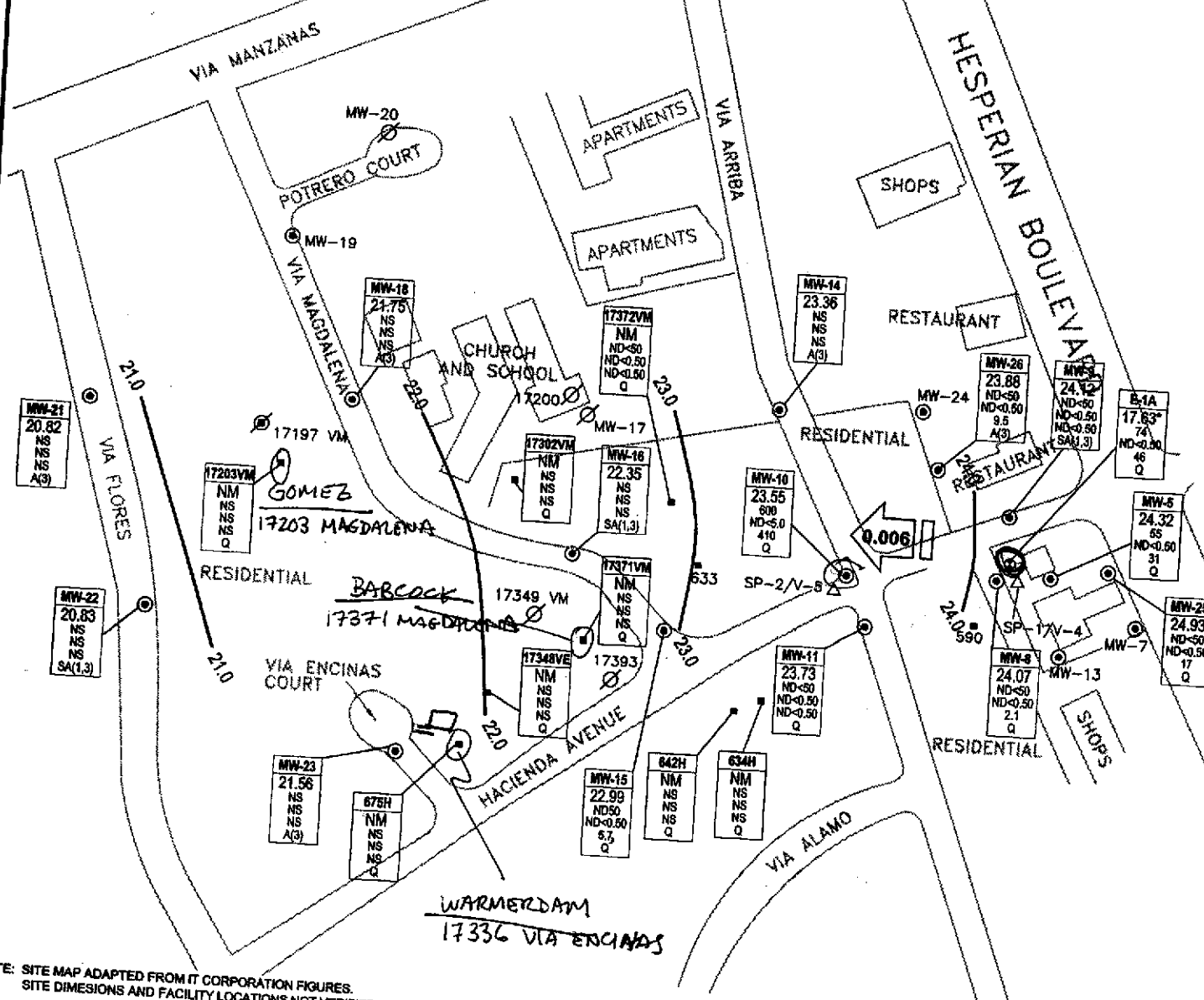
**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

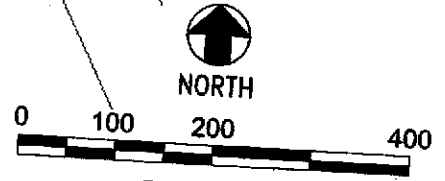
**REMOVED**

**LEGEND**

- ⊙ GROUNDWATER MONITORING WELL
  - △ DUAL COMPLETION AIR SPARGING/ SOIL VAPOR EXTRACTION WELL
  - ⊕ DESTROYED WELL
  - ⊙ GROUNDWATER EXTRACTION WELL
  - DOMESTIC IRRIGATION WELL
  - ← 0.006 GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
  - XXXX GROUNDWATER ELEVATION CONTOUR (FT/MSL)
- 
- | Well    | ELEV | GRO | Benzene | MTBE | Q/ASA  |
|---------|------|-----|---------|------|--|
| .       |      |     |         |      | NOT USED IN CONTOURING                               |
| A(3)    |      |     |         |      | SAMPLED ANNUALLY, 3RD QUARTER                        |
| ND<     |      |     |         |      | NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS |
| NM      |      |     |         |      | NOT MEASURED   |
| NS      |      |     |         |      | NOT SAMPLED  |
| Q       |      |     |         |      | SAMPLED QUARTERLY                                    |
| SA(1,3) |      |     |         |      | SAMPLED SEMI-ANNUALLY, 1ST & 3RD QUARTERS            |



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



"Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported."

**URS**

Project No. 38486707  
 Arco Service Station #0608  
 17601 Hesperian Boulevard  
 San Lorenzo, California

**GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP**  
 Second Quarter 2004 (June 10, 2004)

FIGURE  
**1**

A:\E:\env\111613\111613.dwg Robinson (P) - 2, 2004 Drawing 10795C-JS\_5-10-04.dwg

**ATTACHMENT F**

**BATCH EXTRACTION FIELD SHEETS, CERTIFIED ANALYTICAL  
REPORTS, AND CHAIN-OF-CUSTODY RECORDS**

ARCO 608

17601 Hesperian Blvd, San Lorenzo, CA

BATCH EXTRACTION FIELD DATA FORM

Remarks

Pump placed at 19ft.

SAMPLED

NOT SAMPLED

Scheduled Site Visit

Arrival Time		Depart Time		Depth to Water					
Water Extraction				Depth to Water					
Well ID	Time (hrs) Elapsed	Gallons Pumped	Rate gpm	Total Gallons	MW-10	MW-8	MW-11	MW-14	MW-16
MW-10	0:00	—	—	—	9.92	10.43	10.86	9.07	10.94
	0:10	20	2 gpm	20	10.32				
	0:20	30	3	50	10.62				
	0:30	40	4	90	11.02		10.90	9.05	
	0:40	40	0	130	10.02				
	0:50	40	4	130	10.93				
	1:00	40	4	170	11.05		10.87	9.08	
	1:10	40	4	210	11.03				
	1:20	40	4	250	11.07				
	1:30	40	4	290	11.07		10.88	9.12	
	1:40	—	—	290	—				
	1:50	—	—	290	11.07				
	2:00	—	—	300	11.04		10.87	9.09	
	2:10	45	4.5	345	11.22				
	2:20	55	5.5	400	12.08				
	2:30	80	8	480	14.23		10.88	9.11	
	2:40	80	8	560	14.72				
	2:50	40	8	600	12.56				
	3:00	80	8	680	17.68		10.90	9.13	
	3:10	80	8	760	18.57				
	3:20	80	8	840	17.56				
	3:30	80	8	920	17.67		10.90	9.11	
	3:40	80	8	1000	17.06				
	3:50	80	8	1080	17.68				
	4:00	80	8	1160	16.84		10.93	9.10	10.83

Field Notes: 0:40 - Pump stopped for 10 minutes due to electrical fault.  
 2:50 - Pump malfunction 5 minutes.  
 1:40 - 2:00 Offtracking water to another tract - generator unable to run both ES and inline offload.  
 3:00 - Attempted rate faster than 8 gpm - water level drew down quickly. 8 gpm is maximum pump rate.

Technician FA

Date: 10/21



## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 041021-BA1	Station # 608
Sampler: Binn Alcom	Date: 10/21/04
Well I.D.: MW-10	Well Diameter: 2 (3) 4 6 8
Total Well Depth: —	Depth to Water: 9.92
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 <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer

Disposable Bailer       Disposable Bailer  
 Positive Air Displacement       Extraction Port  
 Electric Submersible 2" Red Flow      Other: \_\_\_\_\_  
 Extraction Pump

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.

Batch  
Extraction

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1105	74.4	6.3	1,332	300	clear, odor
1330	78.7	6.7	802	1,160	clear, odor

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 1,160
Sampling Time: 1105 / 1330	Sampling Date: 10/21/04
Sample I.D.: MW-10	Laboratory: Pace <u>Sequoia</u> Other: _____
Analyzed for: <u>(GRO) (TEX)</u> MTBE DRO Other: _____	
D.O. (if req'd):	Pre-purge: _____ mg/L <u>(Post-purge):</u> 1.8 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 PLAINE 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:

0608  
Station #

17601 Hesperian  
Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

---

added equip. \_\_\_\_\_ any other adjustments \_\_\_\_\_  
rinse water FF

TOTAL GALS. RECOVERED 1160 loaded onto BTS vehicle # 58

BTS event # \_\_\_\_\_ time \_\_\_\_\_ date \_\_\_\_\_  
041021-BA1 1415 10/21/04

signature [Signature]

\*\*\*\*\*  
REC'D AT \_\_\_\_\_ time \_\_\_\_\_ date \_\_\_\_\_  
\_\_\_\_\_ 1 1

unloaded by \_\_\_\_\_  
signature \_\_\_\_\_



8 November, 2004

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

RE: ARCO #0608, San Lorenzo, CA  
Work Order: MNJ0676

Enclosed are the results of analyses for samples received by the laboratory on 10/25/04 11:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race  
Senior Project Manager

CA ELAP Certificate #1210

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

Project: ARCO #0608, San Lorenzo, CA  
Project Number: INTRIM-50715  
Project Manager: Scott Robinson

MNJ0676  
**Reported:**  
11/08/04 17:00

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10	MNJ0676-01	Water	10/21/04 11:05	10/25/04 11:40
MW-10	MNJ0676-02	Water	10/21/04 13:30	10/25/04 11:40
TB-0608-10212004	MNJ0676-03	Water	10/21/04 14:00	10/25/04 11:40

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

These samples were received with no custody seals.

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

Project: ARCO #0608, San Lorenzo, CA  
Project Number: INTRIM-50715  
Project Manager: Scott Robinson

MNJ0676  
Reported:  
11/08/04 17:00

**Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-10 (MNJ0676-01) Water</b> <b>Sampled: 10/21/04 11:05</b> <b>Received: 10/25/04 11:40</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>330</b>	250	ug/l	5	4K03012	11/03/04	11/03/04	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		77 %	78-129		"	"	"	"	LG
<b>MW-10 (MNJ0676-02) Water</b> <b>Sampled: 10/21/04 13:30</b> <b>Received: 10/25/04 11:40</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>390</b>	250	ug/l	5	4K03012	11/03/04	11/03/04	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		82 %	78-129		"	"	"	"	

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

 Project: ARCO #0608, San Lorenzo, CA  
 Project Number: INTRIM-50715  
 Project Manager: Scott Robinson

 MNJ0676  
 Reported:  
 11/08/04 17:00

**Purgeable Hydrocarbons and 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 4K03012 - EPA 5030B P/T / EPA 8260B**
**Blank (4K03012-BLK1)**

Prepared &amp; Analyzed: 11/03/04

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.12		"	2.50		85	78-129			

**Laboratory Control Sample (4K03012-BS1)**

Prepared &amp; Analyzed: 11/03/04

Benzene	10.6	0.50	ug/l	10.0		106	69-124			
Toluene	10.6	0.50	"	10.0		106	78-129			
Ethylbenzene	11.7	0.50	"	10.0		117	84-132			
Xylenes (total)	33.3	0.50	"	30.0		111	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.21		"	2.50		88	78-129			

**Laboratory Control Sample (4K03012-BS2)**

Prepared &amp; Analyzed: 11/03/04

Gasoline Range Organics (C4-C12)	382	50	ug/l	440		87	70-124			
Benzene	5.27	0.50	"	6.40		82	69-124			
Toluene	30.9	0.50	"	31.9		97	78-129			
Ethylbenzene	8.06	0.50	"	7.52		107	84-132			
Xylenes (total)	38.2	0.50	"	36.6		104	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	1.98		"	2.50		79	78-129			

**Laboratory Control Sample Dup (4K03012-BSD1)**

Prepared &amp; Analyzed: 11/03/04

Benzene	10.1	0.50	ug/l	10.0		101	69-124	5	20	
Toluene	10.1	0.50	"	10.0		101	78-129	5	20	
Ethylbenzene	10.3	0.50	"	10.0		103	84-132	13	20	
Xylenes (total)	30.4	0.50	"	30.0		101	83-137	9	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.10		"	2.50		84	78-129			

Sequoia Analytical - Morgan Hill

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

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

 Project: ARCO #0608, San Lorenzo, CA  
 Project Number: INTRIM-50715  
 Project Manager: Scott Robinson

 MNJ0676  
 Reported:  
 11/08/04 17:00

**Purgeable Hydrocarbons and 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 4K03012 - EPA 5030B P/T / EPA 8260B**

<b>Matrix Spike (4K03012-MS1)</b>	<b>Source: MNJ0754-01</b>			<b>Prepared &amp; Analyzed: 11/03/04</b>						
Gasoline Range Organics (C4-C12)	50400	5000	ug/l	44000	12000	87	70-124			
Benzene	2740	50	"	640	2300	69	69-124			
Toluene	3150	50	"	3190	43	97	78-129			
Ethylbenzene	839	50	"	752	47	105	84-132			
Xylenes (total)	3910	50	"	3660	130	103	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.08</i>		<i>"</i>	<i>2.50</i>		<i>83</i>	<i>78-129</i>			
<b>Matrix Spike Dup (4K03012-MSD1)</b>	<b>Source: MNJ0754-01</b>			<b>Prepared &amp; Analyzed: 11/03/04</b>						
Gasoline Range Organics (C4-C12)	51800	5000	ug/l	44000	12000	90	70-124	3	20	
Benzene	2820	50	"	640	2300	81	69-124	3	20	
Toluene	3280	50	"	3190	43	101	78-129	4	20	
Ethylbenzene	867	50	"	752	47	109	84-132	3	20	
Xylenes (total)	4060	50	"	3660	130	107	83-137	4	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.08</i>		<i>"</i>	<i>2.50</i>		<i>83</i>	<i>78-129</i>			

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

Project: ARCO #0608, San Lorenzo, CA  
Project Number: INTRIM-50715  
Project Manager: Scott Robinson

MNJ0676  
Reported:  
11/08/04 17:00

**Notes and Definitions**

LG Surrogate recovery below the acceptance 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

Project Name 0608 GWM  
 BP BU/GEM CO Portfolio Retail MPJ0676  
 BP Laboratory Contract Number: Atlantic Richfield Company

Date: 10/21/04 Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: 0830 Temp: 65  
 Off-site Time: 1415 Temp: 65  
 Sky Conditions: clear  
 Meteorological Events: \_\_\_\_\_  
 Wind Speed: \_\_\_\_\_ Direction: \_\_\_\_\_

Send To:	BP/GEM Facility No.: <u>ARCO 608</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>17601 HESPERIAN BL, SAN LORENZO, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 608</u>	<u>Oakland, CA 94812</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
	California Global ID #: <u>T0600100085</u>	Consultant/Contractor Project No.: <u>15-0000608.01 00127</u>
Lab PM <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: <u>Consultant/Contractor of BP/GEM (Circle one)</u>
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50715</u>

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis							Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	GRO / BTEX (80156/021) (8260)	DRO w/SCC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE (8260)	DIPE, TBA (8260)	1,2-DCA & EOB (8260)	
1	NW-10	1105	X				3					X								
2	NW-10	1330	X				3					X								
3	B-0608-10212004	1400	X				2													on Hold
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>Brian Alcom</u>	Relinquished By / Affiliation: _____	Date: <u>10/25/04</u>	Time: <u>11:10</u>	Accepted By / Affiliation: _____	Date: <u>10/25/04</u>	Time: <u>11:18</u>
Sampler's Company: <u>Blaine Tech Services</u>	_____	<u>10/21/04</u>	<u>11:40</u>	<u>blaine</u>	<u>10/25/04</u>	<u>11:40</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No.:						

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

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

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 608  
 REC. BY (PRINT): TD  
 WORKORDER: MD30472

DATE REC'D AT LAB: 10/25/04  
 TIME REC'D AT LAB: 1140  
 DATE LOGGED IN: 10-26-04

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 / <input checked="" type="checkbox"/> Absent Intact / Broken*			MV-10	VIA (3)	4ci	-	W	10/21/04	
2. Chain-of-Custody Present / <input checked="" type="checkbox"/> Absent*			MV-10	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="checkbox"/> Absent			TR 0608192412904	VIA (2)	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent									
5. Airbill #:									
6. Sample Labels: Present / <input checked="" type="checkbox"/> 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 / <input checked="" type="checkbox"/> No*									
10. Sample received within hold time? Yes / <input checked="" type="checkbox"/> No*									
11. Adequate sample volume received? Yes / <input checked="" type="checkbox"/> No*									
12. Proper Preservatives used? Yes / <input checked="" type="checkbox"/> No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="checkbox"/> No*									
14. Temp Rec. at Lab: <u>4.2</u> Is temp 4 ±2°C? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No** <small>(Acceptance range for samples requiring thermal pres.)</small>									
**Exception (if any): METALS / DFF ON ICE or Problem COC									

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

# INVOICE

Dillard Environmental Services  
 PO Box 579  
 Byron, CA 94514



# COPY

Invoice ID: 401377  
 Invoice Date: 11/10/04  
 Draw ID: 1  
 Customer ID: 1  
 Accty Date: 11-10-2004

**Client:** Arco/URS  
 Attn: Bob Horwath  
 1333 Broadway, Ste. 800  
 Oakland, CA 94612

**Client PO/Contract:** Arco # 608 Job# 38486555-0033501, WR# 61469  
**DES Job #** 1/296  
**Job Address:** 17601 Hesperian Blvd  
 San Lorenzo, CA

**Terms:** Net 30 days. Customer agrees to a 1.5% finance per month charged on past due accounts.

**Scope of Work:** Disposal to Instrat

<u>Item</u>	<u>Units</u>	<u>Units of Measure</u>	<u>Unit Price</u>	<u>Amount</u>
1 11/4/2004				
11407 (193) - ST	8.00	hours	76.00	608.00
11407 (193) - OT	2.00	hours	86.00	172.00
<b>Disposal to Instrat</b>				
2955	2000.00	gal	0.22	440.00
Markup	5.00	%	440.00	22.00

\* We now accept Visa and Mastercard payments!  
 Call now for instructions for credit card payments.

**Total Amount Billed:** \$ 1,242.00  
**Broker Fee Credits:** \$ -  
**Invoice Amount:** \$ 1,242.00  
**Date Due:** 12/10/2004



**RECEIVED**  
NOV 8 2004

**TAG NO.**  
**11407**

Dillard Environmental Services  
PO Box 579  
Byron, CA 94514  
Telephone No. (925) 634-6850  
Facsimile No. (925) 634-0569

Date <u>11 / 4 / 04</u>		JOB NUMBERS(S)		JOB NUMBERS(S)		JOB NUMBERS(S)		JOB NUMBERS(S)		
TRUCK NO. <u>193</u>	TRAILER NO. <u>Ø</u>	# <u>1-296</u>	#	#	#	#	#	#	#	
SUB HAULER		#	#	#	#	#	#	#	#	
PRIME CARRIER <u>DES</u>				CONSIGNEE						
GENERATOR(S) <u>ARCO # 608</u>				DESTINATION <u>INSTRAT</u>						
<u>17601 HESPERIAN BLVD.</u>				CITY <u>RIO VISTA CA</u>						
CITY <u>SAN LORENZO CA.</u>				BEGINNING MILEAGE <u>189995</u>			ENDING MILEAGE <u>190143</u>			
MATERIALS		LOADING		UNLOADING		FUEL - GALLONS		FUEL - VENDOR		
NO	MANIFEST NO.	YARDS OR WEIGHT	TIME ARRIVE	TIME LEAVE	TIME ARRIVE	TIME LEAVE	#1	#2	#1	#2
1	11041	2000	8:30am	2:15pm	3:45pm	4:15pm	75 GAL.		RAMOS OIL	
2									HWN 12	
3									RIO VISTA CA.	
							OFFICE USE ONLY			
							TNS / HRS / LDS / YDS			
							TRANSPORTATION UNITS: <u>80 / 20</u>			
							TRANSPORTATION RATE: <u>\$76/hr / \$86/hr</u>			
							<b>SUBTOTAL: \$ 780-</b>			
							DISPOSAL UNITS:			
							DISPOSAL RATE:			
							<b>SUBTOTAL: \$</b>			
							BRIDGE-TOLL:			
							MATERIALS:			
COMMENTS:										
START <u>7:00 AM</u>		STOP <u>5:00 PM</u>		DEDUCT TIME <u>Ø</u>		NET TIME <u>10</u>				
DRIVER <u>PAUL RONDARIS</u>										
RECEIVED				DATE		APPROVED BY		<b>TOTAL CHARGES: \$ 780-</b>		

**TERMS and CONDITIONS**

Payment terms are net thirty (30) days subject to a charge of 1.5% per month on all past due balances. In the event the account becomes delinquent and it is necessary to institute legal proceedings, CUSTOMER agrees to pay DES' attorney's fees incurred in such proceeding, action or suit or in any appeal thereon. The parties agree that actions or proceedings arising in connection with this agreement shall be tried and litigated exclusively in the courts located in Contra Costa County, California.

# InStrat, Inc.

A liquid waste disposal company

P.O. Box 2279 (530) 753-1829  
 Davis, CA 95617

Nº 2955

CUSTOMER P.O. Arco 2003

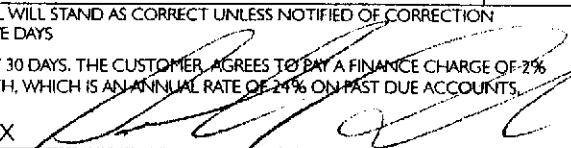
DATE 11-4-04  
 DAY OF WEEK Thurs.

CHARGE TO Dillard

ADDRESS Byron

ORIGIN San Lorenzo #608

DESTINATION 7210 Vista

DESCRIPTION			QTY / HRS	RATE	CHARGES
X	Monitoring well dewatering / pump test		2000	22	440.
	Auger rinsate	Underground storage tank (UST)			
	Spill/ release (not UST related)	Surface Impoundment			
	Drums	Above ground storage tank			
	Solids				
	Washout				
	Color	<u>Clear</u> Sani-chlor			
	Odor	<u>0</u> Filters			
	Solids	<u>0</u> % Powersorb Sheet			
	Other	Powersorb Boom			
Transporter			THIS TOTAL WILL STAND AS CORRECT UNLESS NOTIFIED OF CORRECTION WITHIN FIVE DAYS		SALES TAX
			TERMS NET 30 DAYS. THE CUSTOMER AGREES TO PAY A FINANCE CHARGE OF 2% PER MONTH, WHICH IS AN ANNUAL RATE OF 24% ON PAST DUE ACCOUNTS.		TOTAL TO COLLECT
SIGNED BY X 					<u>440.</u>

**RECEIVED**  
 NOV 8 2004  
 BY: \_\_\_\_\_

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No. <b>11041</b>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>ARCO #608 17601 HESPERIAN BLVD SAN LORENZO, CA 94580</b>		MAIL: ARCOBP WEST COAST PRODUCTS, L PO BOX 80249 R. SANTA MARGARITA, CA 92688 ATTN: KYLE CHRISTIE		
4. Generator's Phone (714) 670-5303		HYEF36010205		
5. Transporter 1 Company Name <b>DILLARD ENVIRONMENTAL SVCS.</b>	6. US EPA ID Number <b>CAD982523433</b>	A. State Transporter's ID	B. Transporter 1 Phone <b>(925) 634-6850</b>	
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID	D. Transporter 2 Phone	
9. Designated Facility Name and Site Address <b>INSTRAT, INC 1105 AIRPORT RD RIO VISTA, CA 94571</b>		10. US EPA ID Number	E. State Facility's ID	
		F. Facility's Phone <b>(530) 753-1829</b>		

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. <b>NON HAZ WATER, NONE, (pf: )</b>	001	T T	02000	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above 11a. 11b. 11c. 11d.	H. Handling Codes for Wastes Listed Above
---	---

15. Special Handling Instructions and Additional Information  
**Emergency Contact (925) 634-6850 DILLARD**  
**Job # 1-296 PO# DILLARD 2004**

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name <b>ZBOYOVSKY AS AGENT FOR BP</b>	Signature <i>Lisa Zboyovskiy</i>	Date Month <b>11</b> Day <b>04</b> Year <b>04</b>
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>PAUL RONDARIS</b>	Signature <i>Paul Rondaris</i>	Date Month <b>11</b> Day <b>04</b> Year <b>04</b>
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	Date
19. Discrepancy Indication Space		
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		
Printed/Typed Name <b>B. Fowell</b>	Signature <i>B. Fowell</i>	Date Month <b>11</b> Day <b>04</b> Year <b>04</b>

GENERATOR FACILITY

**URS-Oakland, CA**

November 15, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486707.0L041

Project: BP Facility No: 608

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Attached is our report for your samples received on 11/04/2004 18:00  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

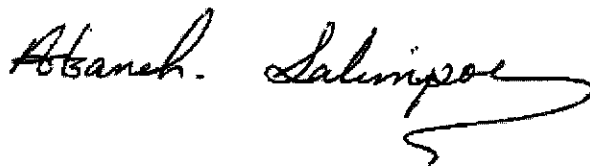
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after  
12/19/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,



Afsaneh Salimpour  
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**URS-Oakland, CA**

November 15, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486707.0L041

Project: BP Facility No: 608

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Case Narrative**

**General and Sample Comments**

We (STL San Francisco) received 3 Water samples , on Thursday, November 04, 2004 6:00 PM.

**Analysis Comments and Flags by QC Batch**

Gas/BTEX Fuel Oxygenates by 8260B (for BP)	Water	QC Batch#: 200411082C68
---	-------	-------------------------

POST-EXTR

2004110147 002

Analysis Flag(s)

L2

Reporting limits were raised due to high level of analyte present in the sample.

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496



Submission: 2004-11-0147

Project Verification

SEVERN

TRENT

Received on: 11/04/2004 18:00

From: URS-Oakland, CA

By: Afsaneh Salimpour

Scott Robinson

Cooler Tmp: 4

1333 Broadway, Suite 800  
Oakland, CA 94612

STL San Francisco  
1220 Quarry Ln  
Pleasanton CA 94566

Tel.: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com

Project#: Consultant Project No:

Project: BP Facility No: 608

17601 Hesperian Blvd., San Lorenzo, CA

CA DHS ELAP#:2496

Lab Sample #	Sample ID	Matrix	Sampled
EPA Method	Analysis	TAT	Due Date
2004-11-0147 - 1	PRE-EXTR	Water	11/04/2004 00:00
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	5 Day	11/11/2004 17:00
2004-11-0147 - 2	POST-EXTR	Water	11/04/2004 00:00
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	5 Day	11/11/2004 17:00
2004-11-0147 - 3	TRIP BLANK	Water	11/04/2004 00:00

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 11/04/2004 18:00

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
PRE-EXTR	11/04/2004	Water	1
POST-EXTR	11/04/2004	Water	2

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/11/2004 16:01

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 11/04/2004 18:00

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	PRE-EXTR	Lab ID:	2004-11-0147 - 1
Sampled:	11/04/2004	Extracted:	11/8/2004 22:17
Matrix:	Water	QC Batch#:	2004/11/08-2C.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	210	50	ug/L	1.00	11/08/2004 22:17	
Benzene	ND	0.50	ug/L	1.00	11/08/2004 22:17	
Toluene	ND	0.50	ug/L	1.00	11/08/2004 22:17	
Ethylbenzene	ND	0.50	ug/L	1.00	11/08/2004 22:17	
Total xylenes	ND	1.0	ug/L	1.00	11/08/2004 22:17	
tert-Butyl alcohol (TBA)	44	5.0	ug/L	1.00	11/08/2004 22:17	
Methyl tert-butyl ether (MTBE)	120	0.50	ug/L	1.00	11/08/2004 22:17	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	11/08/2004 22:17	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/08/2004 22:17	
tert-Amyl methyl ether (TAME)	5.7	0.50	ug/L	1.00	11/08/2004 22:17	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	112.7	72-128	%	1.00	11/08/2004 22:17	
Toluene-d8	101.8	80-113	%	1.00	11/08/2004 22:17	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/11/2004 16:01

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 11/04/2004 18:00

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	POST-EXTR	Lab ID:	2004-11-0147 - 2
Sampled:	11/04/2004	Extracted:	11/8/2004 22:36
Matrix:	Water	QC Batch#:	2004/11/08-2C.68
Analysis Flag: L2 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	470	100	ug/L	2.00	11/08/2004 22:36	
Benzene	ND	1.0	ug/L	2.00	11/08/2004 22:36	
Toluene	ND	1.0	ug/L	2.00	11/08/2004 22:36	
Ethylbenzene	ND	1.0	ug/L	2.00	11/08/2004 22:36	
Total xylenes	ND	2.0	ug/L	2.00	11/08/2004 22:36	
tert-Butyl alcohol (TBA)	65	10	ug/L	2.00	11/08/2004 22:36	
Methyl tert-butyl ether (MTBE)	110	1.0	ug/L	2.00	11/08/2004 22:36	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	2.00	11/08/2004 22:36	
Ethyl tert-butyl ether (ETBE)	ND	1.0	ug/L	2.00	11/08/2004 22:36	
tert-Amyl methyl ether (TAME)	5.9	1.0	ug/L	2.00	11/08/2004 22:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	114.0	72-128	%	1.00	11/08/2004 22:36	
Toluene-d8	107.6	80-113	%	1.00	11/08/2004 22:36	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/11/2004 16:01

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 11/04/2004 18:00

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/11/08-2C.68-019

Water

Test(s): 8260B

QC Batch # 2004/11/08-2C.68

Date Extracted: 11/08/2004 18:19

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/08/2004 18:19	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	11/08/2004 18:19	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/08/2004 18:19	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	11/08/2004 18:19	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	11/08/2004 18:19	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	11/08/2004 18:19	
Benzene	ND	0.5	ug/L	11/08/2004 18:19	
Toluene	ND	0.5	ug/L	11/08/2004 18:19	
Ethylbenzene	ND	0.5	ug/L	11/08/2004 18:19	
Total xylenes	ND	1.0	ug/L	11/08/2004 18:19	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	105.4	72-128	%	11/08/2004 18:19	
Toluene-d8	105.4	80-113	%	11/08/2004 18:19	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/11/2004 18:01

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA  
Attn.: Scott Robinson

1333 Broadway, Suite 800  
Oakland, CA 94612  
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041  
BP Facility No: 608

Received: 11/04/2004 18:00

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Water	QC Batch # 2004/11/08-2C.68	
LCS 2004/11/08-2C.68-001	Extracted: 11/08/2004	Analyzed: 11/08/2004 18:01	
LCSD			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.3		25	93.2			65-165	20		
Benzene	21.4		25	85.6			69-129	20		
Toluene	23.3		25	93.2			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	473		500	94.6			72-128			
Toluene-d8	508		500	101.6			80-113			

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 11/04/2004 18:00

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>		<b>Water</b>	<b>QC Batch # 2004/11/08-2C.68</b>
MS/MSD		Lab ID:	2004-11-0077 - 008
MS: 2004/11/08-2C.68-014		Extracted:	11/08/2004
		Analyzed:	11/08/2004 19:14
		Dilution:	1.00
MSD: 2004/11/08-2C.68-032		Extracted:	11/08/2004
		Analyzed:	11/08/2004 19:32
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	21.7	27.2	ND	25	86.8	108.8	22.5	65-165	20		R4
Benzene	21.1	21.7	ND	25	84.4	86.8	2.8	69-129	20		
Toluene	21.6	21.8	ND	25	86.4	87.2	0.9	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	507	549		500	101.4	109.8		72-128			
Toluene-d8	524	484		500	104.8	96.8		80-113			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/11/2004 16:01

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 11/04/2004 18:00

Site: 17601 Hesperian Blvd., San Lorenzo, CA

---

**Legend and Notes**

---

**Analysis Flag**

L2

Reporting limits were raised due to high level of analyte present in the sample.

**Result Flag**

R4

RPD exceeded method control limit; % recoveries within limits.

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/11/2004 16:01



**STL San Francisco**

**Sample Receipt Checklist**

Submission #: 2004- 11 - 0147

Checklist completed by: (Initials) MN Date: 11 / 05 /04

Courier name:  STL San Francisco  Client W.C

Custody seals intact on shipping container/samples Yes \_\_\_ No \_\_\_ Not Present

Chain of custody present? Yes  No \_\_\_

Chain of custody signed when relinquished and received? Yes  No \_\_\_

Chain of custody agrees with sample labels? Yes \_\_\_ No

Samples in proper container/bottle? Yes  No \_\_\_

Sample containers intact? Yes  No \_\_\_

Sufficient sample volume for indicated test? Yes \_\_\_ No

All samples received within holding time? Yes  No \_\_\_



Water - VOA vials have zero headspace? No VOA vials submitted \_\_\_ Yes  No \_\_\_

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt?  Yes  No

pH adjusted - Preservative used:  HNO<sub>3</sub>  HCl  H<sub>2</sub>SO<sub>4</sub>  NaOH  ZnOAc - Lot #(s) \_\_\_\_\_

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: PRE-EXTR ID# ON SAMPLE PRE 1, 2, 3. POST-EXTR ID# ON SAMPLE POST 1, 2, 3. NO SAMPLE FEED FOR TAP BLANK.

**Project Management [Routing for instruction of indicated discrepancy(ies)]**

Project Manager: (initials) \_\_\_\_\_ Date: \_\_\_/\_\_\_/04 Client contacted:  Yes  No

Summary of discussion:  
\_\_\_\_\_  
\_\_\_\_\_

Corrective Action (per PM/Client):  
\_\_\_\_\_  
\_\_\_\_\_



2004-11-0147

**Chain of Custody Record**

Project Name Station 608 - O&M - Remediation/Environmental  
 BP BU/GEM CO Portfolio: Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Date: 11/4/04

Requested Due Date (mm/dd/yy)  
 (Standard 7 day TAT)

Send To:	BP/GEM Facility No.: Station 608	Consultant/Contractor: URS Oakland
Lab Name: STL-SF (Pleasanton)	BP/GEM Facility Address: 17601 Hesperian Blvd, San Lorenzo, CA	Address: 1333 Broadway, Suite 800
Lab Address:	Site ID No.: Station 608	Oakland, CA 94612
1220 Quarry Lane	Site Lat/Long:	e-mail EDD: No EDF
Pleasanton, CA 94566-4756	California Global ID #: T800100085	Consultant/Contractor Project No.: 38486707.0L041
Lab PM: Afshaneh Salimpour	BP/GEM Environmental Business Manager: Paul Supple	Consultant/Contractor Tele/Fax: 510.893.3600/510.874.3268
Tele/Fax: 925.484.1919/925.484.1096	Address: P.O. Box 6549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Level I	Moraga, CA 94570	Invoice to: Atlantic Richfield Co
BP/GEM Account No.:	Tele/Fax: 925.299.8891/925.299.8872	BP/GEM Work Release No: G091Z-0456

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	AP			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	GRO (8260)	BTEX (8260)	MTBE (8260)	Fuel Oxy. (8260)		COB (410.4)
1	PRE-EXTR			X				3				X	X	X	X			
2	POST-EXTR			X				3				X	X	X	X			
3	Trip blank			X				3				X	X	X	X			
4																		
5																		
6																		
7																		
8																		
9																		

Sampler's Name: <u>Mike G. [Signature]</u>	Relinquished By / Affiliation: <u>[Signature] - URS</u>	Date: <u>11/04</u>	Time: <u>1540</u>	Accepted By / Affiliation: <u>[Signature] - URS</u>	Date: <u>11/04</u>	Time: <u>1800</u>
Sampler's Company: <u>URS</u>						
Shipment Date: <u>11/4/04</u>						
Shipment Method: <u>pick-up</u>						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes  No  Temp Blank Yes  No  Cooler Temperature on Receipt 61 °F  °C Trip Blank Yes  No

# INVOICE

**Dillard Environmental Services**  
 PO Box 579  
 Byron, CA 94514



# COPY

**Invoice ID:** 401421  
**Invoice Date:** 11/22/04  
**Draw ID:** 1  
**Customer ID:** 1  
**Accty Date:** 11-22-2004

**Client:** Arco/URS  
 Attn: Bob Horwath  
 1333 Broadway, Ste. 800  
 Oakland, CA 94612  
**Terms:** Net 30 days. Customer agrees to a 1.5% finance  
 per month charged on past due accounts.

**Client PO/Contract:** Arco # 608 Job# 38486555-0033501, WR# 61469  
**DES Job #** 1/296  
**Job Address:** 17601 Hesperian Blvd  
 San Lorenzo, CA  
**Scope of Work:** Disposal to Instrat


<u>Item</u>	<u>Units</u>	<u>Units of Measure</u>	<u>Unit Price</u>	<u>Amount</u>
<b>1 11/16/2004</b>				
11416 (193) - ST	8.00	hours	76.00	608.00
11416 (193) - OT	4.00	hours	86.00	344.00
<b>Disposal to Instrat</b>				
2979	2000.00	gal	0.22	440.00
Markup	5.00	%	440.00	22.00

\* We now accept Visa and Mastercard payments!  
 Call now for instructions for credit card payments.

**Total Amount Billed:** \$ 1,414.00  
**Broker Fee Credits:** \$ -  
**Invoice Amount:** \$ 1,414.00

**Date Due:** 12/22/2004



  
**Dillard Environmental Services**  
 PO Box 579  
 Byron, CA 94514  
 Telephone No. (925) 634-6850  
 Facsimile No. (925) 634-0569

**TAG NO.**  
**11416**

Date <u>11 / 16 / 04</u>		JOB NUMBERS(S)		JOB NUMBERS(S)		JOB NUMBERS(S)		JOB NUMBERS(S)		
TRUCK NO. <u>193</u>	TRAILER NO. <u>Ø</u>	# <u>1-296</u>	#	#	#	#	#	#	#	
SUB. HAULER		#	#	#	#	#	#	#	#	
PRIME CARRIER <u>DES</u>				CONSIGNEE						
GENERATOR(S) <u>ARCO #608</u>				DESTINATION <u>INSTRAT</u>						
<u>17601 HESPERIAN BLVD.</u>				CITY <u>RIO VISTA CA.</u>						
CITY <u>SAN LORENZO CA.</u>				BEGINNING MILEAGE <u>191268</u>			ENDING MILEAGE <u>191412</u>			
MATERIALS			LOADING		UNLOADING		FUEL - GALLONS		FUEL - VENDOR	
NO	MANIFEST NO.	YARDS OR WEIGHT	TIME ARRIVE	TIME LEAVE	TIME ARRIVE	TIME LEAVE	#1	#2	#1	#2
1	<u>22182</u>	<u>2000</u>	<u>7:45 AM</u>	<u>2:45 PM</u>	<u>4:30 PM</u>	<u>5:00 PM</u>				
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
COMMENTS:							<b>RECEIVED</b> NOV 24 2004			
							BY: _____ OFFICE USE ONLY TNS / HRS / EDS / YDS			
							TRANSPORTATION UNITS:		<u>8 @ 76</u>	
							TRANSPORTATION RATE:			
							<b>SUBTOTAL:</b>		<u>\$ 4 @ 86</u>	
							DISPOSAL UNITS:			
							DISPOSAL RATE:			
							<b>SUBTOTAL:</b>		<b>\$</b>	
							BRIDGE-TOLL:			
							MATERIALS:			
START <u>6:00 AM</u>		STOP <u>6:00 PM</u>		DEDUCT TIME <u>Ø</u>		NET TIME <u>12</u>				
DRIVER <u>PAUL RONDARIS</u>										
RECEIVED				DATE		APPROVED BY		<b>TOTAL CHARGES: \$</b>		

**TERMS and CONDITIONS**

Payment terms are net thirty (30) days subject to a charge of 1.5% per month on all past due balances. In the event the account becomes delinquent and it is necessary to institute legal proceedings, CUSTOMER agrees to pay DES' attorney's fees incurred in such proceeding, action or suit or in any appeal thereon. The parties agree that actions or proceedings arising in connection with this agreement shall be tried and litigated exclusively in the courts located in Contra Costa County, California.

# InStrat, Inc.

A liquid waste disposal company

P.O. Box 2279, (530) 753-1829  
Davis, CA 95617

№ 2979

CUSTOMER P.O. AR102003

DATE 11.16.04  
DAY OF WEEK TUES

CHARGE TO DILLARD  
TO BIRON  
ADDRESS \_\_\_\_\_

ORIGIN San Lorenzo #608  
DESTINATION RIO VISA

DESCRIPTION		QTY / HRS	RATE	CHARGES
<input checked="" type="checkbox"/>	Monitoring well dewatering / pump test	2000	.22	440 -
	Auger rinsate			
	Underground storage tank (UST)			
	Spill/ release (not UST related)			
	Surface Impoundment			
	Drums			
	Above ground storage tank			
	Solids			
	Washout			
Color	<u>clear</u>			
	Sani-chlor			
Odor	<u>Ø</u>			
	Filters			
Solids	<u>Ø</u> %			
	Powersorb Sheet			
Other				
	Powersorb Boom			
Transporter	THIS TOTAL WILL STAND AS CORRECT UNLESS NOTIFIED OF CORRECTION WITHIN FIVE DAYS		SALES TAX	
	TERMS NET 30 DAYS. THE CUSTOMER AGREES TO PAY A FINANCE CHARGE OF 2% PER MONTH, WHICH IS AN ANNUAL RATE OF 24% ON PAST DUE ACCOUNTS.		TOTAL TO COLLECT	440 -
	SIGNED BY X <u>[Signature]</u>			

RECEIVED  
NOV 18 2004  
BY: \_\_\_\_\_

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No. <b>22182</b>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>ARCO #608 17501 HESPERIAN BLVD SAN LORENZO, CA 94580 (714) 670-5303</b>		MAIL: ARCOBP WEST COAST PRODUCTS, L PO BOX 80249 R. SANTA MARGARITA, CA 92688 ATTN: KYLE CHRISTIE		<b>HYEF36010205</b>	
4. Generator's Phone ( )		6. US EPA ID Number <b>CAD982523433</b>		A. State Transporter's ID	
5. Transporter 1 Company Name <b>DELLARD ENVIRONMENTAL SVCS.</b>		8. US EPA ID Number		B. Transporter 1 Phone <b>(925) 634-6850</b>	
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address <b>INTEGRAL, INC 1105 AIRPORT RD BIO WESPA, CA 94571</b>		10. US EPA ID Number		D. Transporter 2 Phone	
11. WASTE DESCRIPTION		12. Containers		E. State Facility's ID	
a. <b>NON HAZ WASTE, NONE (F5)</b>		No. Type		F. Facility's Phone <b>(530) 753-1829</b>	
b.		TT 02000		G	
c.		<b>RECEIVED</b> NOV 18 2004 BY _____			
d.					
G. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <b>ARCOBP CONTACT: (925) 634-6850 DELLARD 1105 AIRPORT RD SAN LORENZO</b>					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name <b>Lisa Zborovsky as agent for BP</b>		Signature <i>Lisa Zborovsky</i>		Date <b>11/15/04</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name <b>PAUL RONDARIS</b>		Signature <i>Paul Rondaris</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name <b>J. M. Haugh</b>		Signature <i>J. M. Haugh</i>		Date <b>11/16/04</b>	

GENERATOR FACILITY

**URS-Oakland, CA**

December 02, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: 38486707.0L041

Project: Station 608

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Attached is our report for your samples received on 11/16/2004 15:30  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

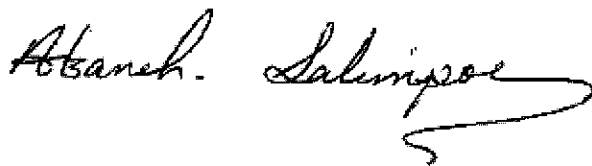
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after  
12/31/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,



Afsaneh Salimpour  
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

URS-Oakland, CA

December 02, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: 38486707.0L041

Project: Station 608

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Case Narrative

General and Sample Comments

We (STL San Francisco) received 3 Water samples , on Tuesday, November 16,  
2004 3:30 PM.

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496



Submission: 2004-11-0510

Project Verification

**SEVERN**

**TRENT**

Received on: 11/16/2004 15:30

From: **URS-Oakland, CA**

By: Afsaneh Salimpour

Scott Robinson

Cooler Tmp: 2

1333 Broadway, Suite 800  
Oakland, CA 94612

**STL San Francisco**  
1220 Quarry Ln  
Pleasanton CA 94566

Tel.: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com

Project#: 38486707.0L041

Project: Station 608

17601 Hesperian Blvd., San Lorenzo, CA

CA DHS ELAP#:2496

Lab Sample #	Sample ID	Matrix	Sampled
EPA Method	Analysis	TAT	Due Date
2004-11-0510 - 1	<b>PRE-EXTR</b>	<b>Water</b>	11/16/2004 09:00
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	5 Day	11/23/2004 17:00
2004-11-0510 - 2	<b>POST-EXTR</b>	<b>Water</b>	11/16/2004 15:00
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	5 Day	11/23/2004 17:00
2004-11-0510 - 3	<b>TRIP BLANK</b>	<b>Water</b>	11/16/2004 09:00
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	5 Day	11/23/2004 17:00

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041

Station 608

Received: 11/16/2004 15:30

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
PRE-EXTR	11/16/2004 09:00	Water	1
POST-EXTR	11/16/2004 15:00	Water	2
TRIP BLANK	11/16/2004 09:00	Water	3

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041

Station 608

Received: 11/16/2004 15:30

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	PRE-EXTR	Lab ID:	2004-11-0510 - 1
Sampled:	11/16/2004 09:00	Extracted:	11/28/2004 13:33
Matrix:	Water	QC Batch#:	2004/11/28-1B.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	220	50	ug/L	1.00	11/28/2004 13:33	
Benzene	ND	0.50	ug/L	1.00	11/28/2004 13:33	
Toluene	ND	0.50	ug/L	1.00	11/28/2004 13:33	
Ethylbenzene	ND	0.50	ug/L	1.00	11/28/2004 13:33	
Total xylenes	ND	1.0	ug/L	1.00	11/28/2004 13:33	
tert-Butyl alcohol (TBA)	40	5.0	ug/L	1.00	11/28/2004 13:33	
Methyl tert-butyl ether (MTBE)	110	0.50	ug/L	1.00	11/28/2004 13:33	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	11/28/2004 13:33	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/28/2004 13:33	
tert-Amyl methyl ether (TAME)	5.4	0.50	ug/L	1.00	11/28/2004 13:33	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.4	72-128	%	1.00	11/28/2004 13:33	
Toluene-d8	104.6	80-113	%	1.00	11/28/2004 13:33	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 18:00

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041

Station 608

Received: 11/16/2004 15:30

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: POST-EXTR	Lab ID: 2004-11-0510 - 2
Sampled: 11/16/2004 15:00	Extracted: 11/28/2004 13:57
Matrix: Water	QC Batch#: 2004/11/28-1B.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	490	50	ug/L	1.00	11/28/2004 13:57	
Benzene	ND	0.50	ug/L	1.00	11/28/2004 13:57	
Toluene	ND	0.50	ug/L	1.00	11/28/2004 13:57	
Ethylbenzene	ND	0.50	ug/L	1.00	11/28/2004 13:57	
Total xylenes	ND	1.0	ug/L	1.00	11/28/2004 13:57	
tert-Butyl alcohol (TBA)	69	5.0	ug/L	1.00	11/28/2004 13:57	
Methyl tert-butyl ether (MTBE)	120	0.50	ug/L	1.00	11/28/2004 13:57	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	11/28/2004 13:57	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/28/2004 13:57	
tert-Amyl methyl ether (TAME)	4.6	0.50	ug/L	1.00	11/28/2004 13:57	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.7	72-128	%	1.00	11/28/2004 13:57	
Toluene-d8	97.3	80-113	%	1.00	11/28/2004 13:57	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 18:00

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041

Station 608

Received: 11/16/2004 15:30

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: TRIP BLANK	Lab ID: 2004-11-0510 - 3
Sampled: 11/16/2004 09:00	Extracted: 11/27/2004 21:07
Matrix: Water	QC Batch#: 2004/11/27-2C.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/27/2004 21:07	
Benzene	ND	0.50	ug/L	1.00	11/27/2004 21:07	
Toluene	ND	0.50	ug/L	1.00	11/27/2004 21:07	
Ethylbenzene	ND	0.50	ug/L	1.00	11/27/2004 21:07	
Total xylenes	ND	1.0	ug/L	1.00	11/27/2004 21:07	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/27/2004 21:07	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	11/27/2004 21:07	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	11/27/2004 21:07	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/27/2004 21:07	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	11/27/2004 21:07	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.0	72-128	%	1.00	11/27/2004 21:07	
Toluene-d8	98.5	80-113	%	1.00	11/27/2004 21:07	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 18:00

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041

Station 608

Received: 11/16/2004 15:30

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>		<b>Water</b>	<b>QC Batch # 2004/11/28-1B.65</b>
MS/MSD		Lab ID:	2004-11-0555 - 002
MS:	2004/11/28-1B.65-054	Extracted:	11/28/2004
		Analyzed:	11/28/2004 15:54
		Dilution:	1.00
MSD:	2004/11/28-1B.65-018	Extracted:	11/28/2004
		Analyzed:	11/28/2004 16:18
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	29.8	32.1	ND	25	119.2	128.4	7.4	65-165	20		
Benzene	29.8	32.2	ND	25	119.2	128.8	7.7	69-129	20		
Toluene	30.0	31.6	ND	25	120.0	126.4	5.2	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	457	438		500	91.4	87.6		72-128			
Toluene-d8	535	537		500	107.0	107.4		80-113			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 18:00

STL San Francisco

Sample Receipt Checklist

Submission #: 2004- 11 - 0510

Checklist completed by: (initials) JE Date: 11/16/04

Courier name:  STL San Francisco  Client \_\_\_\_\_

Custody seals intact on shipping container/samples Yes \_\_\_ No \_\_\_ Not Present

Chain of custody present? Yes  No \_\_\_

Chain of custody signed when relinquished and received? Yes  No \_\_\_

Chain of custody agrees with sample labels? Yes \_\_\_ No

Samples in proper container/bottle? Yes  No \_\_\_

Sample containers intact? Yes  No \_\_\_

Sufficient sample volume for indicated test? Yes  No \_\_\_

All samples received within holding time? Yes  No \_\_\_

Container/Temp Blank temperature in compliance (4°C ± 2)? Temp: 2 Yes  No \_\_\_

Potential reason for > 6°C - Ice melted  - Ice in bags  - Not enough ice  - Not enough blue ice  - Samples in boxes

Sampled < 24hr. ago?  - Ice not required (e.g. air or bulk sample)  Ice Present Yes  No \_\_\_

Water - VOA vials have zero headspace? No VOA vials submitted \_\_\_ Yes \_\_\_ No

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt?  Yes  No

pH adjusted - Preservative used:  HNO<sub>3</sub>  HCl  H<sub>2</sub>SO<sub>4</sub>  NaOH  ZnOAc - Lot #(s) \_\_\_\_\_

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: PRE-EXTR ALL 3 VIALS HAVE A SMALL AIR BUBBLE. POST-EXTR (of 3 VIALS

HAS A SMALL AIR BUBBLE. ID'S ARE ON THE LIDS FOR "PRE-EXTR AND POST-EXTR.

Client NO LABEL ON TRIP BLANKS, RECEIVED ONLY TWO TRIP BLANKS, ALSO BOTH HAVE A MEDIUM

Project Management [Routing for instruction of indicated discrepancy(ies)] AIR BUBBLE.

Project Manager: (initials) \_\_\_\_\_ Date: \_\_\_/\_\_\_/04 Client contacted:  Yes  No

Summary of discussion: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Corrective Action (per PM/Client): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



2004-11-0510

Chain of Custody Record

Project Name Station 608 - O&M - Remediation/Environmental  
 BP BU/GEM CO Portfolio: Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Date:

Requested Due Date (mm/dd/yy) 11/23/04  
 (Standard 7 day TAT)

Send To:	BP/GEM Facility No.: Station 608	Consultant/Contractor: URS Oakland
Lab Name: STL-SF (Pleasanton)	BP/GEM Facility Address: 17601 Hesperian Blvd, San Lorenzo, CA	Address: 1333 Broadway, Suite 800
Lab Address:	Site ID No.: Station 608	Oakland, CA 94612
1220 Quarry Lane	Site Lat/Long:	e-mail EDD: No EDF
Pleasanton, CA 94566-4756	California Global ID #: T000100035	Consultant/Contractor Project No.: 38486707.01041
Lab PM: Afzaneh Salimpour	BP/GEM Environmental Business Manager: Paul Supple	Consultant/Contractor Tele/Fax: 510.893.3600/510.874.3268
Tele/Fax: 925.484.1919/925.484.1096	Address: P.O. Box 6549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Level 1	Moraga, CA 94570	Invoice to: Atlantic Richfield Co
BP/GEM Account No.:	Tele/Fax: 925.299.8891/925.299.8872	BP/GEM Work Release No: G099Z-0456

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	GRD (8260)	BTX (8260)	MTBE (8260)	Fuel Oxy. (8260)		COD (410.4)
1	PRE-EXTR.	9:00			X			3				X	X	X	X			
2	POST-EXTR.	15:00			X			3				X	X	X	X			
3	Trip blank				X			3				X	X	X	X			
4																		
5																		
6																		
7																		
8																		
9																		

Sampler's Name: <u>Mike Greenberg</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>11/16/04</u>	Time: <u>15:00</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/16/04</u>	Time: <u>15:00</u>
Sampler's Company: <u>URS</u>						
Shipment Date: <u>11/16/04</u>						
Shipment Method:						
Shipment Tracking No.:						
Special Instructions:						
Custody Seals In Place Yes <u>No</u>	Temp Blank Yes <u>No</u>	Cooler Temperature on Receipt <u>2 °F</u>	Trip Blank Yes <u>No</u>			

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor





Dillard Environmental Services  
 PO Box 579  
 Byron, CA 94514  
 Telephone No. (925) 634-6850  
 Facsimile No. (925) 634-0569

TAG NO.  
 11425

Date <u>11 / 30 / 04</u>		JOB NUMBERS(S)		JOB NUMBERS(S)		JOB NUMBERS(S)		JOB NUMBERS(S)	
TRUCK NO. <u>193</u>		TRAILER NO. <u>Ø</u>		#1-212		#		#	
SUB. HAULER		#1-296		#		#		#	
PRIME CARRIER <u>DES</u>				CONSIGNEE					
GENERATOR(S) <u>ARCO #2092 / ARCO #608</u>				DESTINATION <u>INSTRAT</u>					
<u>5498 MONTEREY RD / 17601 WESPERIAN BLVD</u>				CITY <u>RED VESTA CA</u>					
CITY <u>SAN JOSE CA / SAN LORENZO CA</u>				BEGINNING MILEAGE <u>192664</u>			ENDING MILEAGE <u>192873</u>		
MATERIALS		LOADING		UNLOADING		FUEL - GALLONS		FUEL - VENDOR	
NO	MANIFEST NO.	YARDS OR WEIGHT	TIME ARRIVE	TIME LEAVE	TIME ARRIVE	TIME LEAVE	#1	#2	#1
1	8970	3006	PRELOADED	6:00am	6:15am	6:15am	45 GAL.		RAMOS OIL
2	7686	2000	8:15am	1:45pm	3:30pm	4:00pm			HNY 2 RED VESTA CA
3							OFFICE USE ONLY		
4							TNS / HRS / LDS / YDS		
5							TRANSPORTATION UNITS:		
6							TRANSPORTATION RATE:		
7							<b>SUBTOTAL: \$</b>		
8									
9							DISPOSAL UNITS:		
10							DISPOSAL RATE:		
11							<b>SUBTOTAL: \$</b>		
12									
13							BRIDGE-TOLL:		
COMMENTS: <u>Unload Preload (2092)</u>							MATERIALS: <u>1/212 - .25 @ 76</u>		
<u>Onsite @ ARCO #608 &amp; Unload</u>							<u>1/296 - 17.75 @ 76</u>		
							<u>3.75 @ 86</u>		
START	STOP	DEDUCT TIME	NET TIME						
<u>5:00am</u>	<u>4:45 p.m</u>	<u>Ø</u>	<u>11.75</u>						
DRIVER <u>PAUL RONDAPIS</u>									
RECEIVED	DATE	APPROVED BY	<b>TOTAL CHARGES: \$</b>						

TERMS and CONDITIONS

Payment terms are net thirty (30) days subject to a charge of 1.5% per month on all past due balances. In the event the account becomes delinquent and it is necessary to institute legal proceedings, CUSTOMER agrees to pay DES' attorney's fees incurred in such proceeding, action or suit or in any appeal thereon. The parties agree that actions or proceedings arising in connection with this agreement shall be tried and litigated exclusively in the courts located in Contra Costa County, California.

URS-Oakland, CA

December 10, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486707.0L041

Project: BP Facility No: 608

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Attached is our report for your samples received on 12/01/2004 15:45  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

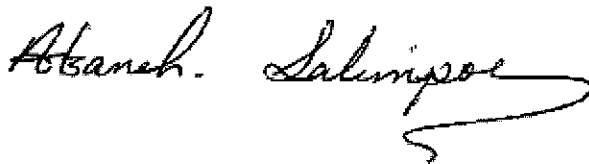
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after  
01/15/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,



Afsaneh Salimpour  
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**URS-Oakland, CA**

December 10, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486707.0L041

Project: BP Facility No: 608

Site: 17601 Hesperian Blvd., San Lorenzo, CA

## Case Narrative

## General and Sample Comments

We (STL San Francisco) received 2 Water samples , on Wednesday, December 01, 2004 3:45 PM.

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

Submission: 2004-12-0042

Project Verification

SEVERN

TRENT

Received on: 12/01/2004 15:45

From: URS-Oakland, CA

By: Afsaneh Salimpour

Scott Robinson

Cooler Tmp: 6

1333 Broadway, Suite 800  
Oakland, CA 94612

STL San Francisco  
1220 Quarry Ln  
Pleasanton CA 94566

Tel.: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com

Project#: Consultant Project No:

Project: BP Facility No: 608

17601 Hesperian Blvd., San Lorenzo, CA

CA DHS ELAP#:2496

Lab Sample #	Sample ID	Matrix	Sampled
EPA Method	Analysis	TAT	Due Date
2004-12-0042 - 1	<b>POST-EXTR</b>	<b>Water</b>	12/01/2004 00:00
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, GRO (C4-C12), Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	5 Day	12/08/2004 17:00
2004-12-0042 - 2	<b>TRIP BLANK</b>	<b>Water</b>	12/01/2004 00:00

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/01/2004 15:45

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
POST-EXTR	12/01/2004	Water	1

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/09/2004 14:07

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/01/2004 15:45

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	POST-EXTR	Lab ID:	2004-12-0042 - 1
Sampled:	12/01/2004	Extracted:	12/8/2004 18:43
Matrix:	Water	QC Batch#:	2004/12/08-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	370	50	ug/L	1.00	12/08/2004 18:43	
Benzene	ND	0.50	ug/L	1.00	12/08/2004 18:43	
Toluene	ND	0.50	ug/L	1.00	12/08/2004 18:43	
Ethylbenzene	ND	0.50	ug/L	1.00	12/08/2004 18:43	
Total xylenes	ND	1.0	ug/L	1.00	12/08/2004 18:43	
tert-Butyl alcohol (TBA)	62	5.0	ug/L	1.00	12/08/2004 18:43	
Methyl tert-butyl ether (MTBE)	97	0.50	ug/L	1.00	12/08/2004 18:43	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	12/08/2004 18:43	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	12/08/2004 18:43	
tert-Amyl methyl ether (TAME)	4.0	0.50	ug/L	1.00	12/08/2004 18:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	93.0	72-128	%	1.00	12/08/2004 18:43	
Toluene-d8	94.3	80-114	%	1.00	12/08/2004 18:43	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/09/2004 14:07

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/01/2004 15:45

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/08-2A.64-006

Water

Test(s): 8260B

QC Batch # 2004/12/08-2A.64

Date Extracted: 12/08/2004 18:06

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	12/08/2004 18:06	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/08/2004 18:06	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/08/2004 18:06	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	12/08/2004 18:06	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	12/08/2004 18:06	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	12/08/2004 18:06	
Benzene	ND	0.5	ug/L	12/08/2004 18:06	
Toluene	ND	0.5	ug/L	12/08/2004 18:06	
Ethylbenzene	ND	0.5	ug/L	12/08/2004 18:06	
Total xylenes	ND	1.0	ug/L	12/08/2004 18:06	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	92.8	73-130	%	12/08/2004 18:06	
Toluene-d8	98.2	81-114	%	12/08/2004 18:06	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/09/2004 14:07

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/01/2004 15:45

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/12/08-2A.64

LCS 2004/12/08-2A.64-043

Extracted: 12/08/2004

Analyzed: 12/08/2004 17:43

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.4		25	97.6			65-165	20		
Benzene	24.3		25	97.2			69-129	20		
Toluene	24.2		25	96.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	454		500	90.8			73-130			
Toluene-d8	490		500	98.0			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/09/2004 14:07



**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/01/2004 15:45

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>		<b>QC Batch # 2004/12/08-2A.64</b>
MS/MSD			Lab ID: 2004-12-0209 - 003
MS: 2004/12/08-2A.64-028	Extracted: 12/08/2004		Analyzed: 12/08/2004 19:28
			Dilution: 1.00
MSD: 2004/12/08-2A.64-050	Extracted: 12/08/2004		Analyzed: 12/08/2004 19:50
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	23.9	27.0	ND	25	95.6	108.0	12.2	65-165	20		
Benzene	24.4	27.2	ND	25	97.6	108.8	10.9	69-129	20		
Toluene	24.7	27.2	ND	25	98.8	108.8	9.6	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	426	471		500	85.2	94.2		73-130			
Toluene-d8	487	479		500	97.4	95.8		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/09/2004 14:07

STL San Francisco

Sample Receipt Checklist

Submission #: 2004-12-0042

Checklist completed by: (Initials) JM Date: 12/02/04

Courier name:  STL San Francisco  Client W.C

Custody seals intact on shipping container/samples Yes \_\_\_ No \_\_\_ Not Present

Chain of custody present? Yes  No \_\_\_

Chain of custody signed when relinquished and received? Yes  No \_\_\_

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No \_\_\_

Sample containers intact? Yes  No \_\_\_

Sufficient sample volume for indicated test? Yes  No \_\_\_

All samples received within holding time? Yes  No \_\_\_

Container/Temp Blank temperature in compliance ( $\pm 2^\circ\text{C}$ )? Temp: 6°C Yes  No \_\_\_

Potential reason for  $> 6^\circ\text{C}$ :  Ice melted  Ice in bags  Not enough ice  Not enough blue ice  Samples in boxes

Sampled < 4hr. ago?  Ice not required (e.g. air or bulk sample)  Ice Present: Yes  No \_\_\_

Water - VOA vials have zero headspace? No VOA vials submitted \_\_\_ Yes \_\_\_ No

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt?  Yes  No

pH adjusted- Preservative used:  HNO<sub>3</sub>  HCl  H<sub>2</sub>SO<sub>4</sub>  NaOH  ZnOAc - Lot #(s) \_\_\_\_\_

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: No sampling date or time on LOC or bottles -  
2 trip blanks 1 sm. bubble 1 med. O bubble  
received

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) \_\_\_\_\_ Date: \_\_\_/\_\_\_/04 Client contacted:  Yes  No

Summary of discussion:  
\_\_\_\_\_  
\_\_\_\_\_

Corrective Action (per PM/Client):  
\_\_\_\_\_  
\_\_\_\_\_



# Chain of Custody Record

2004-12-0042

Page 1 of 1 96148

Project Name: Station 608 - O&M - Remediation/Environmental  
 BP BU/GEM CO Portfolio: Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Date:

Requested Due Date (mm/dd/yy): 12/9/04  
 (Standard 7 day TAT)

Send To:	BP/GEM Facility No.: Station 608	Consultant/Contractor: URS Oakland
Lab Name: STL-SF (Pleasanton)	BP/GEM Facility Address: 17601 Hesperian Blvd, San Lorenzo, CA	Address: 1333 Broadway, Suite 800
Lab Address:	Site ID No.: Station 608	Oakland, CA 94612
1220 Quarry Lane	Site Lat/Long:	e-mail EDD: No EDF
Pleasanton, CA 94566-4756	California Global ID #: T000100085	Consultant/Contractor Project No.: M-486707.01.041
Lab PM: Afsaneh Salimpour	BP/GEM Environmental Business Manager: Paul Supple	Consultant/Contractor Tele/Fax: 510.893.3600/510.874.3268
Tele/Fax: 925.484.1919/925.484.1096	Address: P.O. Box 6549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Level 1	Moraga, CA 94570	Invoice to: Atlantic Richfield Co
BP/GEM Account No.:	Tele/Fax: 925.299.8891/925.299.8873	BP/GEM Work Release No.: G09J2-0456
Lab Bottle Order No.:		

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments			
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	GR0 (8260)	BTEX (8260)	MTBE (8260)	Fuel Oxy. (8260)		COD (410.4)	ISS (160.2)	
1	PRE-EXTR				X															
2	POST-EXTR				X							X	X	X	X					could not sample
3	Trip blank				X							X	X	X	X					
4																				
5																				
6																				
7																				
8																				
9																				

Sampler's Name: M Greenberg	Relinquished By / Affiliation: [Signature]	Date: 12/1/04	Time: 10:45	Accepted By / Affiliation: SCS MIKE	Date: 12/1/04	Time: 12:30
Shipment Date: 12/1/04	Shipment Method: pickup	Shipment Tracking No.:	Special Instructions:			

Custody Seals In Place Yes	No	Temp Blank Yes	No	Cooler Temperature on Receipt: 6 °F	Trip Blank Yes	No
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Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

BP COC Rev. 3 12/15/03

Note: returning empty voas

**ATTACHMENT G**

**O&M FIELD DATA SHEETS, CERTIFIED ANALYTICAL REPORTS,  
AND CHAIN-OF-CUSTODY RECORDS**

Date: 10/21/04

Groundwater Extraction & Treatment System  
ARCO Service Station 0608  
17601 Hesperian Boulevard  
38486314.0L041  
August 14, 2003

System Description:

Groundwater Pumps				
Well	Type	Size	Control	Set Depth (TOB)
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-2,400  
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Operating (if no, specify reason in comments)

ELECTRIC METER READING (kwh hrs)	<u>40171 kwh</u>	HOUR METER READING (hrs)	<u>160235.3</u>
----------------------------------	------------------	--------------------------	-----------------

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	<u>3,891,217</u>	<u>3,891,299</u>
FILTER INLET PRESSURE (psig)	<u>12</u>	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>10.5</u>	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>5.5 / 4.2</u>	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	<u>0</u>	(ideal range: 0 to 2 psig)

PART B: COMMENTS System Averaging 1,689 gal/day

65  
10/22/04

**PART C: WELL DATA (Monthly)**

\* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A				
UST-A		N/A	N/A	
UST-B		N/A	N/A	
SP1-V4		N/A	N/A	

**PART D: SAMPLING (Monthly)**

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds, MtBE	10/21
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	10/21
MID-1	TPH-gasoline, BTEX compounds, MtBE	10/21
MID-2	TPH-gasoline, BTEX compounds, MtBE	10/21

**PART E: READINGS (Monthly)**

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	20.5°C	1015 µS	6.89	2.60

**PART F: SYSTEM MAINTENANCE I (Monthly)**

NUMBER OF SPARE FILTERS ON SITE?		CHANGE FILTERS? (if necessary)	No
PUMP AMP DRAW	N/A	H2O2 injection well EA-1 (if necessary)	N/A
SWEEP ENCLOSURE	No		

**PART G: SYSTEM MAINTENANCE II (Quarterly)**

TEST ALARM SWITCHES	Yes	BACKFLUSH CARBONS	N/A
CLEAN TOTALIZERS	Yes		

Date: 11/18/04

**Groundwater Extraction & Treatment System**  
**ARCO Service Station 0608**  
**17601 Hesperian Boulevard**  
**38486314.0L041**  
**August 14, 2003**

**System Description:**

Well	Type	Groundwater Pumps		Set Depth (TOB)
		Size	Control panel	
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-2,400  
 Filter: Rosedale P2 25 micron

**PART A: SYSTEM DATA (Semi-Monthly)**

System on upon arrival? Operating (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>40455</u>	HOUR METER READING (hrs)	<u>16908.1</u>
---------------------------------	--------------	--------------------------	----------------

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	<u>3942930</u>	<u>3942990</u>
FILTER INLET PRESSURE (psig)	<u>18.5</u>	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>14.5</u>	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>10.0 / 4.5</u>	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	<u>0</u>	(ideal range: 0 to 2 psig)

**PART B: COMMENTS**

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**RECEIVED**  
 NOV 27 2004  
 BP UNIT

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SS  
11/22/04

**PART C: WELL DATA (Monthly)**

\* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A				
UST-A		N/A	N/A	
UST-B		N/A	N/A	
SP1-V4		N/A	N/A	

**PART D: SAMPLING (Monthly)**

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds, MtBE	11/18/04
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	11/18/04
MID-1	TPH-gasoline, BTEX compounds, MtBE	11/18/04
MID-2	TPH-gasoline, BTEX compounds, MtBE	11/18/04

**PART E: READINGS (Monthly)**

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	17.7°C	1652 us	6.95	0.34

**PART F: SYSTEM MAINTENANCE I (Monthly)**

NUMBER OF SPARE FILTERS ON SITE?	0	CHANGE FILTERS? (if necessary)	No
PUMP AMP DRAW	N/A	H2O2 injection well EA-1 (if necessary)	N/A
SWEEP ENCLOSURE	No		

**PART G: SYSTEM MAINTENANCE II (Quarterly)**

TEST ALARM SWITCHES	Yes	BACKFLUSH CARBONS	N/A
CLEAN TOTALIZERS	Yes		



Date: 12/16/04

**Groundwater Extraction & Treatment System**  
**ARCO Service Station 0608**  
**17601 Hesperian Boulevard**  
**38486314.0L041**  
**August 14, 2003**

**System Description:**

Groundwater Pumps				
Well	Type	Size	Control	Set Depth (TOB)
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-2,400  
 Filter: Rosdale P2 25 micron

**PART A: SYSTEM DATA (Semi-Monthly)**

System on upon arrival? Operating (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>40833 kWh</u>	HOUR METER READING (hrs)	<u>17578.6</u>
---------------------------------	------------------	--------------------------	----------------

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	<u>3994102</u>	<u>3994185</u>
FILTER INLET PRESSURE (psig)	<u>15</u>	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>13.2</u>	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>8.7 / 4.2</u>	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	<u>0</u>	(ideal range: 0 to 2 psig)

**PART B: COMMENTS**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**RECEIVED**

DEC 17 2004

**BP UNIT**

65  
12/17/04

**PART C: WELL DATA (Monthly)**

\* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A				
UST-A		N/A	N/A	
UST-B		N/A	N/A	
SP1-V4		N/A	N/A	

**PART D: SAMPLING (Monthly)**

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds, MtBE	12/16
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	12/16
MID-1	TPH-gasoline, BTEX compounds, MtBE	12/16
MID-2	TPH-gasoline, BTEX compounds, MtBE	12/16

**PART E: READINGS (Monthly)**

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	16.4°C	1650 µS	6.92	2.00

**PART F: SYSTEM MAINTENANCE I (Monthly)**

NUMBER OF SPARE FILTERS ON SITE?	0	CHANGE FILTERS? (if necessary)	Yes
PUMP AMP DRAW	N/A	H202 injection well EA-1 (if necessary)	N/A
SWEEP ENCLOSURE	N/A		

**PART G: SYSTEM MAINTENANCE II (Quarterly)**

TEST ALARM SWITCHES	Yes	BACKFLUSH CARBONS	N/A
CLEAN TOTALIZERS	Yes		

URS-Oakland, CA

November 09, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486707.0L041

Project: BP Facility No: 608

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Attached is our report for your samples received on 10/22/2004 16:35  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

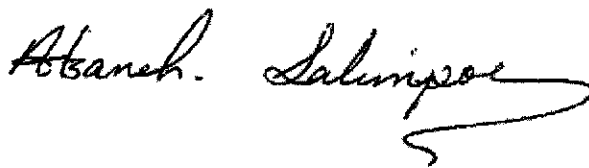
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after  
12/06/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,



Afsaneh Salimpour  
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**URS-Oakland, CA**

**November 09, 2004**

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486707.0L041

Project: BP Facility No: 608

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Case Narrative**

**General and Sample Comments**

We (STL San Francisco) received 5 Water samples , on Friday, October 22, 2004  
4:35 PM.

**Severn Trent Laboratories, Inc.**

**STL San Francisco** \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

Submission: 2004-10-0753

Project Verification

**SEVERN**

**TRENT**

Received on: 10/22/2004 16:35

From: **URS-Oakland, CA**

By: Afsaneh Salimpour

Scott Robinson

Cooler Tmp: 2

1333 Broadway, Suite 800  
Oakland, CA 94612

STL San Francisco  
1220 Quarry Ln  
Pleasanton CA 94566

Tel.: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com

Project#: Consultant Project No:

Project: BP Facility No: 608

17601 Hesperian Blvd., San Lorenzo, CA

CA DHS ELAP#:2496

Lab Sample #	Sample ID	Matrix	Sampled
EPA Method	Analysis	TAT	Due Date
2004-10-0753 - 1	<b>INFL</b>	<b>Water</b>	10/21/2004 11:50
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	10 Day	11/05/2004 17:00
2004-10-0753 - 2	<b>MID-1</b>	<b>Water</b>	10/21/2004 11:45
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	10 Day	11/05/2004 17:00
2004-10-0753 - 3	<b>MID-2</b>	<b>Water</b>	10/21/2004 11:40
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	10 Day	11/05/2004 17:00
2004-10-0753 - 4	<b>EFFL</b>	<b>Water</b>	10/21/2004 11:30
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	10 Day	11/05/2004 17:00
410.4	Subcontract - COD	10 Day	11/05/2004 17:00
160.2	Total Suspended Solids	10 Day	11/05/2004 17:00
2004-10-0753 - 5	<b>TRIP BLANK</b>	<b>Water</b>	10/21/2004 11:00

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
EFFL	10/21/2004 11:30	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/04/2004 14:53

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s):	160.2	Test(s):	160.2
Sample ID:	EFFL	Lab ID:	2004-10-0753 - 4
Sampled:	10/21/2004 11:30	Extracted:	10/27/2004 07:12
Matrix:	Water	QC Batch#:	2004/10/27-01.29

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
TSS	ND	10	mg/L	1.00	10/28/2004 06:22	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/04/2004 14:53

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 160.2

Method Blank

MB: 2004/10/27-01.29-001

Water

Test(s): 160.2

QC Batch # 2004/10/27-01.29

Date Extracted: 10/27/2004 07:12

Compound	Conc.	RL	Unit	Analyzed	Flag
TSS	ND	10	mg/L	10/28/2004 06:28	



**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Batch QC Report										
Prep(s): 160.2						Test(s): 160.2				
Laboratory Control Spike				Water			QC Batch # 2004/10/27-01.29			
LCS	2004/10/27-01.29-002			Extracted: 10/27/2004			Analyzed: 10/28/2004 06:13			
LCSD	2004/10/27-01.29-003			Extracted: 10/27/2004			Analyzed: 10/28/2004 06:20			
Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
TSS	883	822	1000	88.3	82.2	7.2	80-120	20		

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/04/2004 14:53

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
INFL	10/21/2004 11:50	Water	1
MID-1	10/21/2004 11:45	Water	2
MID-2	10/21/2004 11:40	Water	3
EFFL	10/21/2004 11:30	Water	4

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INFL	Lab ID:	2004-10-0753 - 1
Sampled:	10/21/2004 11:50	Extracted:	10/30/2004 11:59
Matrix:	Water	QC Batch#:	2004/10/30-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/30/2004 11:59	.
Benzene	ND	0.50	ug/L	1.00	10/30/2004 11:59	
Toluene	ND	0.50	ug/L	1.00	10/30/2004 11:59	
Ethylbenzene	ND	0.50	ug/L	1.00	10/30/2004 11:59	
Total xylenes	ND	1.0	ug/L	1.00	10/30/2004 11:59	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/30/2004 11:59	
Methyl tert-butyl ether (MTBE)	17	0.50	ug/L	1.00	10/30/2004 11:59	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	10/30/2004 11:59	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	10/30/2004 11:59	
tert-Amyl methyl ether (TAME)	1.1	0.50	ug/L	1.00	10/30/2004 11:59	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.8	72-128	%	1.00	10/30/2004 11:59	
Toluene-d8	103.6	80-113	%	1.00	10/30/2004 11:59	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/09/2004 11:52

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MID-1	Lab ID:	2004-10-0753 - 2
Sampled:	10/21/2004 11:45	Extracted:	10/29/2004 13:09
Matrix:	Water	QC Batch#:	2004/10/29-1B.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/29/2004 13:09	
Benzene	ND	0.50	ug/L	1.00	10/29/2004 13:09	
Toluene	ND	0.50	ug/L	1.00	10/29/2004 13:09	
Ethylbenzene	ND	0.50	ug/L	1.00	10/29/2004 13:09	
Total xylenes	ND	1.0	ug/L	1.00	10/29/2004 13:09	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/29/2004 13:09	
Methyl tert-butyl ether (MTBE)	2.0	0.50	ug/L	1.00	10/29/2004 13:09	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	10/29/2004 13:09	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	10/29/2004 13:09	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	10/29/2004 13:09	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	113.7	72-128	%	1.00	10/29/2004 13:09	
Toluene-d8	108.6	80-113	%	1.00	10/29/2004 13:09	

Severn Trent Laboratories, Inc.

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11/09/2004 11:52

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MID-2	Lab ID:	2004-10-0753 - 3
Sampled:	10/21/2004 11:40	Extracted:	10/29/2004 13:27
Matrix:	Water	QC Batch#:	2004/10/29-1B.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/29/2004 13:27	
Benzene	ND	0.50	ug/L	1.00	10/29/2004 13:27	
Toluene	ND	0.50	ug/L	1.00	10/29/2004 13:27	
Ethylbenzene	ND	0.50	ug/L	1.00	10/29/2004 13:27	
Total xylenes	ND	1.0	ug/L	1.00	10/29/2004 13:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/29/2004 13:27	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/29/2004 13:27	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	10/29/2004 13:27	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	10/29/2004 13:27	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	10/29/2004 13:27	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.5	72-128	%	1.00	10/29/2004 13:27	
Toluene-d8	104.4	80-113	%	1.00	10/29/2004 13:27	

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFL	Lab ID:	2004-10-0753 - 4
Sampled:	10/21/2004 11:30	Extracted:	10/29/2004 10:06
Matrix:	Water	QC Batch#:	2004/10/29-1B-68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/29/2004 10:06	
Benzene	ND	0.50	ug/L	1.00	10/29/2004 10:06	
Toluene	ND	0.50	ug/L	1.00	10/29/2004 10:06	
Ethylbenzene	ND	0.50	ug/L	1.00	10/29/2004 10:06	
Total xylenes	ND	1.0	ug/L	1.00	10/29/2004 10:06	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/29/2004 10:06	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/29/2004 10:06	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	10/29/2004 10:06	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	10/29/2004 10:06	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	10/29/2004 10:06	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	108.3	72-128	%	1.00	10/29/2004 10:06	
Toluene-d8	102.3	80-113	%	1.00	10/29/2004 10:06	

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/10/29-1B.68-000

Water

Test(s): 8260B

QC Batch # 2004/10/29-1B.68

Date Extracted: 10/29/2004 09:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/29/2004 09:00	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/29/2004 09:00	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/29/2004 09:00	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	10/29/2004 09:00	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	10/29/2004 09:00	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	10/29/2004 09:00	
Benzene	ND	0.5	ug/L	10/29/2004 09:00	
Toluene	ND	0.5	ug/L	10/29/2004 09:00	
Ethylbenzene	ND	0.5	ug/L	10/29/2004 09:00	
Total xylenes	ND	1.0	ug/L	10/29/2004 09:00	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	111.8	72-128	%	10/29/2004 09:00	
Toluene-d8	100.8	80-113	%	10/29/2004 09:00	

Severn Trent Laboratories, Inc.

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11/09/2004 11:52

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/10/30-1C.64-013

Water

Test(s): 8260B

QC Batch # 2004/10/30-1C.64

Date Extracted: 10/30/2004 09:13

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/30/2004 09:13	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/30/2004 09:13	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/30/2004 09:13	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	10/30/2004 09:13	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	10/30/2004 09:13	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	10/30/2004 09:13	
Benzene	ND	0.5	ug/L	10/30/2004 09:13	
Toluene	ND	0.5	ug/L	10/30/2004 09:13	
Ethylbenzene	ND	0.5	ug/L	10/30/2004 09:13	
Total xylenes	ND	1.0	ug/L	10/30/2004 09:13	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	93.4	72-128	%	10/30/2004 09:13	
Toluene-d8	102.0	80-113	%	10/30/2004 09:13	

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11/09/2004 11:52



**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/10/29-1B.68**

LCS 2004/10/29-1B.68-041

Extracted: 10/29/2004

Analyzed: 10/29/2004 08:41

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.6		25	102.4			65-165	20		
Benzene	22.1		25	88.4			69-129	20		
Toluene	23.2		25	92.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	501		500	100.2			72-128			
Toluene-d8	505		500	101.0			80-113			

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11/09/2004 11:52

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/10/30-1C.64

LCS 2004/10/30-1C.64-050

Extracted: 10/30/2004

Analyzed: 10/30/2004 08:50

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.4		25	85.6			65-165	20		
Benzene	20.3		25	81.2			69-129	20		
Toluene	21.0		25	84.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	469		500	93.8			72-128			
Toluene-d8	502		500	100.4			80-113			

Severn Trent Laboratories, Inc.

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11/09/2004 11:52

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>		<b>Water</b>	<b>QC Batch # 2004/10/29-1B.68</b>
EFFL >> MS		Lab ID:	2004-10-0753 - 004
MS: 2004/10/29-1B.68-024		Extracted: 10/29/2004	Analyzed: 10/29/2004 10:24
			Dilution: 1.00
MSD: 2004/10/29-1B.68-042		Extracted: 10/29/2004	Analyzed: 10/29/2004 10:42
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	29.0	24.7	ND	25	116.0	98.8	16.0	65-165	20		
Benzene	24.1	22.5	ND	25	96.4	90.0	6.9	69-129	20		
Toluene	23.5	22.7	ND	25	94.0	90.8	3.5	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	515	522		500	103.0	104.4		72-128			
Toluene-d8	509	528		500	101.8	105.6		80-113			

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11/09/2004 11:52

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>		<b>Water</b>	<b>QC Batch # 2004/10/30-1C.64</b>
<b>MS/MSD</b>		Lab ID:	2004-10-0766 - 001
MS:	2004/10/30-1C.64-044	Extracted:	10/30/2004 12:44
		Dilution:	1.00
MSD:	2004/10/30-1C.64-006	Extracted:	10/30/2004 13:06
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	19.9	19.2	ND	25	79.6	76.8	3.6	69-129	20		
Toluene	20.6	20.0	ND	25	82.4	80.0	3.0	70-130	20		
Methyl tert-butyl ether	108	118	94.2	25	55.2	95.2	53.2	65-165	20	M5	R1
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	463	475		500	92.6	95.0		72-128			
Toluene-d8	503	523		500	100.6	104.6		80-113			

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11/09/2004 11:52

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URS-Oakland, CA

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Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 10/22/2004 16:35

Site: 17601 Hesperian Blvd., San Lorenzo, CA

---

**Legend and Notes**

---

**Result Flag**

M5

MS/MSD spike recoveries were below acceptance limits.  
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/09/2004 11:52

STL San Francisco

Sample Receipt Checklist

Submission #: 2004- 10 - 0753

Checklist completed by: (initials) DSH Date: 10/25/04

Courier name: [X] STL San Francisco [ ] Client

Custody seals intact on shipping container/samples

Yes [ ] No [ ] Not Present [X]

Chain of custody present?

Yes [X] No [ ]

Chain of custody signed when relinquished and received?

Yes [X] No [ ]

Chain of custody agrees with sample labels?

Yes [X] No [ ]

Samples in proper container/bottle?

Yes [X] No [ ]

Sample containers intact?

Yes [X] No [ ]

Sufficient sample volume for indicated test?

Yes [X] No [ ]

All samples received within holding time?

Yes [X] No [ ]

Container/Temp: Blank temperature in compliance (4°C ± 2°C)? [X] Yes [ ] No

Potential reasons for: [ ] Ice melted [ ] Ice in bags [ ] Not enough ice [ ] Not enough glue [ ] Samples in boxes [ ]

Sampled < 4hrs ago? [ ] Ice not required for air or bulk sample [ ]

Water - VOA vials have zero headspace? No VOA vials submitted [ ] Yes [X] No [ ]

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt? [ ] Yes [ ] No

[ ] pH adjusted - Preservative used: [ ] HNO3 [ ] HCl [ ] H2SO4 [ ] NaOH [ ] ZnOAc - Lot #(s)

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) Date: / /04 Client contacted: [ ] Yes [ ] No

Summary of discussion:

Corrective Action (per PM/Client):



2004-10-0753  
bp

### Chain of Custody Record

Project Name: Station 60B - O&M - Remediation/Environmental  
 BP BU/GEM CO Portfolio: Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company

On-site Time: 1100 Temp: 72  
 Off-site Time: 1200 Temp: 74  
 Sky Conditions: Sunny, Clear  
 Meteorological Events: None  
 Wind Speed: N/A Direction: N/A

Date: 10/21/04 Requested Due Date (mm/dd/yy): 11/4/04  
 2-Week TAT (Standard 14 day TAT)

Send To:	BP/GEM Facility No.: Station 60B	Consultant/Contractor: URS Oakland
Lab Name: STL-SF (Pleasanton)	BP/GEM Facility Address: 17601 Hesperian Blvd, San Lorenzo, CA	Address: 1333 Broadway, Suite 800
Lab Address:	Site ID No.: Station 60B	Oakland, CA 94612
1220 Quarry Lane	Site Lat/Long:	e-mail EDD: No EDF
Pleasanton, CA 94566-4756	California Global ID #: T000100085	Consultant/Contractor Project No.: 38486707.01041
Lab PM: Afzand Salimpour	BP/GEM Environmental Business Manager: Paul Supple	Consultant/Contractor Tele/Fax: 510.893.3600/510.874.3268
Tele/Fax: 925.484.1919/925.484.1096	Address: P.O. Box 6549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Level 1	Morgan, CA 94570	Invoice to: Atlantic Richfield Co
BP/GEM Account No.:	Tele/Fax: 925.299.8891/925.299.8872	BP/GEM Work Release No: G09JZ-0456
Lab Bottle Order No:		

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H2SO4	HNO3	HCl	GRO (8260)	BTEX (8260)	MTHB (8260)	Fuel Oxy. (8260)	
1	INFL	1150	10/21	X			3				X	X	X	X			Additional reports to: George Brasman
2	MID-1	1145	10/21	X			3				X	X	X	X			
3	MID-2	1140	10/21	X			3				X	X	X	X			
4	EPFL	1130	10/21	X			3				X	X	X	X			
5	EPFL	1130	10/21	X			1	X							X		NO EDF
6	EPFL	1130	10/21	X			1	X							X		
7	Trip blank	1000	10/21	X			2										on hold
8																	
9																	
10																	

Sampler's Name: George Brasman	Retiquished By: [Signature]	Date: 10/21/04	Time: 1570
Sampler's Company: URS Corp.	[Signature]	Date: 10/22/04	Time: 1045
Shipment Date: 10/21/04	[Signature]	Date: 10/22/04	Time: 1635
Shipment Method: STL-SAC	[Signature]	Date: 10/22/04	Time: 1635
Shipment Tracking No: 1022041635	[Signature]	Date: 10/22/04	Time: 1635
Special Instructions: COD = Chemical Oxygen Demand (250 ml poly w/H2SO4), TSS = Total Suspended Solids (250 ml poly unpreserved)			

Custody Seals In Place Yes  No  Temp Blank Yes  No  Cooler Temperature on Receipt 2 °F/C Trip Blank Yes  No



11 November, 2004

Afsaneh Salimpour  
Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

RE: BP  
Work Order: P410516

Enclosed are the results of analyses for samples received by the laboratory on 10/26/04 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Michael R. Giles For Robert Butler  
Dept Manager / Project Manager

CA ELAP Certificate #2374



Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton CA, 94566

Project:BP  
Project Number:2004-10-0753  
Project Manager:Afsaneh Salimpour

P410516  
Reported:  
11/11/04 09:41

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFFL	P410516-01	Water	10/21/04 11:30	10/26/04 10:00

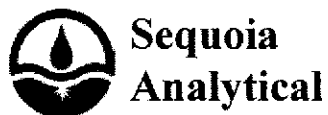
Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton CA, 94566

Project:BP  
Project Number:2004-10-0753  
Project Manager:Afsaneh Salimpour

P410516  
Reported:  
11/11/04 09:41

**Conventional Chemistry Parameters by APHA/EPA Methods  
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EFFL (P410516-01) Water    Sampled: 10/21/04 11:30    Received: 10/26/04 10:00</b>									
Chemical Oxygen Demand	ND	20000	ug/l	1	4110092	11/03/04	11/03/04	EPA 410.4	



Severn Trent Laboratories, San Francisco 1220 Quarry Lane Pleasanton CA, 94566	Project:BP Project Number:2004-10-0753 Project Manager:Afsaneh Salimpour	P410516 Reported: 11/11/04 09:41
--	--	--

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 4110092 - General Preparation / EPA 410.4**

<b>Blank (4110092-BLK1)</b>				Prepared & Analyzed: 11/03/04						
Chemical Oxygen Demand	ND	20000	ug/l							
<b>Laboratory Control Sample (4110092-BS1)</b>				Prepared & Analyzed: 11/03/04						
Chemical Oxygen Demand	240000	20000	ug/l	250000		96	80-120			
<b>Matrix Spike (4110092-MS1)</b>				Prepared & Analyzed: 11/03/04						
Chemical Oxygen Demand	625000	40000	ug/l	500000	120000	101	75-125			
<b>Matrix Spike Dup (4110092-MSD1)</b>				Prepared & Analyzed: 11/03/04						
Chemical Oxygen Demand	663000	40000	ug/l	500000	120000	109	75-125	6	20	

Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton CA, 94566

Project:BP  
Project Number:2004-10-0753  
Project Manager:Afsaneh Salimpour

P410516  
Reported:  
11/11/04 09:41

**Notes and Definitions**

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



STL

P410510  
Chain of Custody

Date Shipped: 10/25/2004  
2004-10-0753 - 1

From: STL San Francisco (CL)  
1220 Quarry Lane  
Pleasanton, CA 94566-4756

To: Sequoia Analytical Petaluma  
1455 N. McDowell Blvd., North Ste. D  
Petaluma, CA 94954

Project Manager: Afsaneh Salimpour  
Phone: (925) 484-1919 Ext: 107  
Fax: (925) 484-1096  
Email: asalimpour@stl-inc.com

Phone: (707) 792-1865 Ext:  
Fax: (707) 792-0342  
Contact: Sample Receiving  
Phone: (707) 792-1865 Ext:

CL Submission #: 2004-10-0753

Project #: Consultant Project No:  
38486707.0L041  
Project Name: BP Facility No: 608

CL PO #:

Client Sample ID	CL#	Sampled	Matrix	TAT
Analysis			Method	
EFFL Subcontract - COD	P410510-01 4	10/21/2004 11:30:00AM	Water 410.4	10 Day

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

CONTACT  
COOLING TEMPERATURE 4.7 °C

RELINQUISHED BY: 1. 15:15

Signature \_\_\_\_\_ Time \_\_\_\_\_

Printed Name Bryan Thomas Date 10/25/04

Company STL-SF

RELINQUISHED BY: 2.

Signature \_\_\_\_\_ Time \_\_\_\_\_

Printed Name \_\_\_\_\_ Date \_\_\_\_\_

Company \_\_\_\_\_

RELINQUISHED BY: 3.

Signature \_\_\_\_\_ Time \_\_\_\_\_

Printed Name \_\_\_\_\_ Date \_\_\_\_\_

Company \_\_\_\_\_

RECEIVED BY: 1.

Signature \_\_\_\_\_ Time \_\_\_\_\_

Printed Name \_\_\_\_\_ Date \_\_\_\_\_

Company \_\_\_\_\_

RECEIVED BY: 10/26/04

Signature \_\_\_\_\_ Time \_\_\_\_\_

Printed Name \_\_\_\_\_ Date \_\_\_\_\_

Company \_\_\_\_\_

RECEIVED BY: 3.

Signature \_\_\_\_\_ Time \_\_\_\_\_

Printed Name \_\_\_\_\_ Date \_\_\_\_\_

Company \_\_\_\_\_

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: STL  
 REC. BY (PRINT): CV  
 WORKORDER: P410516

DATE Received at Lab: 10/26/04  
 TIME Received at Lab: 1:00  
 LOG IN DATE: 10/26/04

(Drinking water) for regulatory purposes: YES/NO  
 (Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	Dash #	CLIENT ID	CONTAINER DESCRIPTION	pH	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s) <input checked="" type="radio"/> Present / <input checked="" type="radio"/> Absent Intact / Broken*			EFCL	Other H <sub>2</sub> O		W	10/26	
2. Chain-of-Custody Present / Absent*								
3. Airbill: <input checked="" type="radio"/> Airbill / <input type="radio"/> Sticker Present / Absent								
4. Airbill #: <u>671975408039</u>								
5. Sample Labels: <input checked="" type="radio"/> Present / <input type="radio"/> Absent								
6. Sample IDs: <input checked="" type="radio"/> Listed / <input type="radio"/> Not Listed on Chain-of-Custody								
7. Sample Condition: <input checked="" type="radio"/> Intact / <input type="radio"/> Broken* / <input type="radio"/> Leaking*								
8. Does information on custody reports, traffic reports, and sample labels agree? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
9. Sample received within hold time: <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
10. Proper Preservatives used: <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
11. Temperature Blank Received? Yes / <input checked="" type="radio"/> No*								
12. Temp Rec. at Lab: <u>4.7</u> degrees C (Acceptance range for samples requiring thermal pres.: 4 +/- 2°C)								
13. Samples collected more than 4 days ago? Yes / <input checked="" type="radio"/> No								

**\*If Circled, contact Project Manager and attach record of resolution.**

**URS-Oakland, CA**

December 02, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: 38486707.0L041

Project: 608

Site: 17601 Hesperian Blvd, San Lorenzo, CA

Attached is our report for your samples received on 11/19/2004 17:00  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

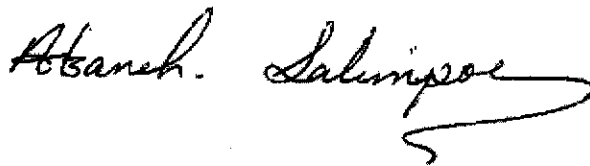
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after  
01/03/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,



Afsaneh Salimpour  
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**URS-Oakland, CA**

December 02, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: 38486707.0L041

Project: 608

Site: 17601 Hesperian Blvd, San Lorenzo, CA

**Case Narrative**

**General and Sample Comments**

We (STL San Francisco) received 5 Water samples , on Friday, November 19,  
2004 5:00 PM.

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496



Submission: 2004-11-0654

Project Verification

**SEVERN**  
**TRENT**

Received on: 11/19/2004 17:00

From: **URS-Oakland, CA**

By: Afsaneh Salimpour

Scott Robinson

Cooler Tmp: 2

1333 Broadway, Suite 800  
Oakland, CA 94612

**STL San Francisco**  
1220 Quarry Ln  
Pleasanton CA 94566

Project#: 38486707.0L041

Tel.: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com

Project: 608

17601 Hesperian Blvd, San Lorenzo, CA

CA DHS ELAP#:2496

Lab Sample #	Sample ID	Matrix	Sampled
EPA Method	Analysis	TAT	Due Date
2004-11-0654 - 1	<b>INFL</b>	<b>Water</b>	11/18/2004 11:20
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	10 Day	12/02/2004 17:00
2004-11-0654 - 2	<b>MID-1</b>	<b>Water</b>	11/18/2004 11:15
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	10 Day	12/02/2004 17:00
2004-11-0654 - 3	<b>MID-2</b>	<b>Water</b>	11/18/2004 11:10
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	10 Day	12/02/2004 17:00
2004-11-0654 - 4	<b>EFFL</b>	<b>Water</b>	11/18/2004 11:00
8260B	Gas/BTEX Fuel Oxygenates by 8260B <i>Benzene, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), Ethylbenzene, Gasoline, Methyl tert-butyl ether (MTBE), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Toluene, Total xylenes</i>	10 Day	12/02/2004 17:00
410.4	Subcontract - COD	10 Day	12/02/2004 17:00
160.2	Total Suspended Solids	10 Day	12/02/2004 17:00
2004-11-0654 - 5	<b>TRIP BLANK</b>	<b>Water</b>	11/18/2004 10:30

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
EFFL	11/18/2004 11:00	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 16:41

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

Prep(s):	160.2	Test(s):	160.2
Sample ID:	EFFL	Lab ID:	2004-11-0654 - 4
Sampled:	11/18/2004 11:00	Extracted:	11/22/2004 09:12
Matrix:	Water	QC Batch#:	2004/11/22-01.29

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
TSS	14	10	mg/L	1.00	11/24/2004 07:13	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 16:41

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

**Batch QC Report**

Prep(s): 160.2

Method Blank

MB: 2004/11/22-01.29-001

Water

Test(s): 160.2

QC Batch # 2004/11/22-01.29

Date Extracted: 11/22/2004 09:12

Compound	Conc.	RL	Unit	Analyzed	Flag
TSS	ND	10	mg/L	11/24/2004 07:08	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 16:41

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

Batch QC Report										
Prep(s): 160.2						Test(s): 160.2				
Laboratory Control Spike			Water			QC Batch # 2004/11/22-01.29				
LCS	2004/11/22-01.29-002		Extracted: 11/22/2004			Analyzed: 11/24/2004 07:09				
LCSD	2004/11/22-01.29-003		Extracted: 11/22/2004			Analyzed: 11/24/2004 07:10				
Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
TSS	872	869	1000	87.2	86.9	0.3	80-120	20		

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

11/29/2004 16:41

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
INFL	11/18/2004 11:20	Water	1
MID-1	11/18/2004 11:15	Water	2
MID-2	11/18/2004 11:10	Water	3
EFFL	11/18/2004 11:00	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/01/2004 10:58

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INFL	Lab ID:	2004-11-0654 - 1
Sampled:	11/18/2004 11:20	Extracted:	11/28/2004 13:20
Matrix:	Water	QC Batch#:	2004/11/28-1C.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/28/2004 13:20	
Benzene	ND	0.50	ug/L	1.00	11/28/2004 13:20	
Toluene	ND	0.50	ug/L	1.00	11/28/2004 13:20	
Ethylbenzene	ND	0.50	ug/L	1.00	11/28/2004 13:20	
Total xylenes	ND	1.0	ug/L	1.00	11/28/2004 13:20	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/28/2004 13:20	
Methyl tert-butyl ether (MTBE)	14	0.50	ug/L	1.00	11/28/2004 13:20	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	11/28/2004 13:20	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/28/2004 13:20	
tert-Amyl methyl ether (TAME)	0.76	0.50	ug/L	1.00	11/28/2004 13:20	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	101.4	72-128	%	1.00	11/28/2004 13:20	
Toluene-d8	101.1	80-113	%	1.00	11/28/2004 13:20	

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MID-1	Lab ID:	2004-11-0654 - 2
Sampled:	11/18/2004 11:15	Extracted:	11/28/2004 13:43
Matrix:	Water	QC Batch#:	2004/11/28-1C.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/28/2004 13:43	
Benzene	ND	0.50	ug/L	1.00	11/28/2004 13:43	
Toluene	ND	0.50	ug/L	1.00	11/28/2004 13:43	
Ethylbenzene	ND	0.50	ug/L	1.00	11/28/2004 13:43	
Total xylenes	ND	1.0	ug/L	1.00	11/28/2004 13:43	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/28/2004 13:43	
Methyl tert-butyl ether (MTBE)	1.5	0.50	ug/L	1.00	11/28/2004 13:43	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	11/28/2004 13:43	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/28/2004 13:43	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	11/28/2004 13:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	101.1	72-128	%	1.00	11/28/2004 13:43	
Toluene-d8	99.7	80-113	%	1.00	11/28/2004 13:43	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/01/2004 10:58



**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MID-2	Lab ID:	2004-11-0654 - 3
Sampled:	11/18/2004 11:10	Extracted:	11/28/2004 14:05
Matrix:	Water	QC Batch#:	2004/11/28-1C.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/28/2004 14:05	
Benzene	ND	0.50	ug/L	1.00	11/28/2004 14:05	
Toluene	ND	0.50	ug/L	1.00	11/28/2004 14:05	
Ethylbenzene	ND	0.50	ug/L	1.00	11/28/2004 14:05	
Total xylenes	ND	1.0	ug/L	1.00	11/28/2004 14:05	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/28/2004 14:05	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	11/28/2004 14:05	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	11/28/2004 14:05	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/28/2004 14:05	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	11/28/2004 14:05	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.5	72-128	%	1.00	11/28/2004 14:05	
Toluene-d8	98.5	80-113	%	1.00	11/28/2004 14:05	

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFL	Lab ID:	2004-11-0654 - 4
Sampled:	11/18/2004 11:00	Extracted:	11/28/2004 14:28
Matrix:	Water	QC Batch#:	2004/11/28-1C.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/28/2004 14:28	
Benzene	ND	0.50	ug/L	1.00	11/28/2004 14:28	
Toluene	ND	0.50	ug/L	1.00	11/28/2004 14:28	
Ethylbenzene	ND	0.50	ug/L	1.00	11/28/2004 14:28	
Total xylenes	ND	1.0	ug/L	1.00	11/28/2004 14:28	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/28/2004 14:28	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	11/28/2004 14:28	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	11/28/2004 14:28	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/28/2004 14:28	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	11/28/2004 14:28	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.0	72-128	%	1.00	11/28/2004 14:28	
Toluene-d8	97.8	80-113	%	1.00	11/28/2004 14:28	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/01/2004 10:58

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2004/11/28-1C.66

MB: 2004/11/28-1C.66-059

Date Extracted: 11/28/2004 06:59

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/28/2004 06:59	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	11/28/2004 06:59	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/28/2004 06:59	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	11/28/2004 06:59	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	11/28/2004 06:59	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	11/28/2004 06:59	
Benzene	ND	0.5	ug/L	11/28/2004 06:59	
Toluene	ND	0.5	ug/L	11/28/2004 06:59	
Ethylbenzene	ND	0.5	ug/L	11/28/2004 06:59	
Total xylenes	ND	1.0	ug/L	11/28/2004 06:59	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.4	72-128	%	11/28/2004 06:59	
Toluene-d8	98.6	80-113	%	11/28/2004 06:59	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/01/2004 10:58

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2004/11/28-1C.66			
LCS	2004/11/28-1C.66-036		Extracted: 11/28/2004		Analyzed: 11/28/2004 06:36				
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.4		25	89.6			65-165	20		
Benzene	24.6		25	98.4			69-129	20		
Toluene	27.6		25	110.4			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	463		500	92.6			72-128			
Toluene-d8	505		500	101.0			80-113			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/01/2004 10:58

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486707.0L041  
608

Received: 11/19/2004 17:00

Site: 17601 Hesperian Blvd, San Lorenzo, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>		<b>Water</b>	<b>QC Batch # 2004/11/28-1C.66</b>
EFFL >> MS		Lab ID:	2004-11-0654 - 004
MS: 2004/11/28-1C.66-050		Extracted: 11/28/2004	Analyzed: 11/28/2004 14:50
			Dilution: 1.00
MSD: 2004/11/28-1C.66-013		Extracted: 11/28/2004	Analyzed: 11/28/2004 15:13
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	25.4	25.0	ND	25	101.6	100.0	1.6	65-165	20		
Benzene	26.8	24.1	ND	25	107.2	96.4	10.6	69-129	20		
Toluene	31.0	27.5	ND	25	124.0	110.0	12.0	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	473	480		500	94.7	96.0		72-128			
Toluene-d8	514	496		500	102.7	99.2		80-113			

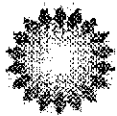
Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/01/2004 10:58





bp

7004-11-0654

### Chain of Custody Record

Project Name: Station 608 - O&M - Remediation/Environmental  
 BP BU/GEM CO Portfolio: Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company

95888

Page 1 of 1

On-site Time: 1030	Temp: 65
Off-site Time: 1209	Temp: 65
Sky Conditions: Sunny	
Meteorological Events: None	
Wind Speed: N/A	Direction: N/A

Date: 11/18/04

Requested Due Date (mm/dd/yy): ~~11/18/04~~  
 (Standard 14 day TAT)

Send To: BP/GEM Facility No.: Station 608	Consultant/Contractor: URS Oakland
Lab Name: STL-SF (Pleasanton)	Address: 1333 Broadway, Suite 800
Lab Address: 1220 Quarry Lane Pleasanton, CA 94566-4756	Oakland, CA 94612
Lab PM: Afshaneh Salimpour	e-mail EDF: No EDF
Tele/Fax: 925.484.1919/925.484.1096	California Global ID #: T000100085
Report Type & QC Level: Level 1	BP/GEM Environmental Business Manager: Paul Supple
BP/GEM Account No.:	Address: P.O. Box 6549 Morgan, CA 94570
Lab Bottle Order No.:	Tele/Fax: 925.299.8891/925.299.8872
	BP/GEM Work Release No: G09JZ-0456

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	GRO (\$260)	BTEX (\$260)	MTEE (\$260)	Fuel Oxy. (\$266)	COD (410.4)	TSS (160.2)	
1	INEL	1120	11/18		X			3				X	X	X	X				Holdman Report To: George Bradshaw
2	MID-1	1115	11/18		X			3				X	X	X	X				
3	MID-2	1110	11/18		X			3				X	X	X	X				
4	EFFL	1100	11/18		X			3				X	X	X	X				
5	EFFL	1100	11/18		X			1	X							X			NO EDF
6	EFFL	1100	11/18		X			1	X							X			
7	Trip blank	1030	11/18		X			2											on hold
8																			
9																			
10																			

Sampler's Name: George Bradshaw	Relinquished By: [Signature]	Date: 11/18/04	Time: 1500	Accepted By / Affiliation: [Signature] URS	Date: 11-18-04	Time: 1536
Sampler's Company: URS Corporation		Date: 11/18/04	Time: 1050	Accepted By / Affiliation: [Signature] URS	Date: 11/18/04	Time: 1050
Shipment Date: 11/18/04		Date: 11/18/04	Time: 1700	Accepted By / Affiliation: [Signature] URS	Date: 11/19/04	Time: 1700
Shipment Method: SPC - STL						
Shipment Tracking No:						

Special Instructions: COD = Chemical Oxygen Demand (250 ml poly w/H<sub>2</sub>SO<sub>4</sub>), TSS = Total Suspended Solids (250 ml poly unpreserved)

Custody Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt 2 °C Trip Blank Yes No



3 December, 2004

Afsaneh Salimpour  
Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

RE: BP  
Work Order: P411496

Enclosed are the results of analyses for samples received by the laboratory on 11/22/04 10:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stacy P. Hoch For Robert Butler  
Dept Manager / Project Manager

CA ELAP Certificate #2374



Severn Trent Laboratories, San Francisco 1220 Quarry Lane Pleasanton CA, 94566	Project:BP Project Number:2004-11-0548-1 Project Manager:Afsaneh Salimpour	P411496 Reported: 12/03/04 15:36
--	--	--

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFFL	P411496-01	Water	11/18/04 11:00	11/22/04 10:20



Severn Trent Laboratories, San Francisco 1220 Quarry Lane Pleasanton CA, 94566	Project:BP Project Number:2004-11-0548-1 Project Manager:Afsaneh Salimpour	P411496 Reported: 12/03/04 15:36
--	--	--

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EFFL (P411496-01) Water Sampled: 11/18/04 11:00 Received: 11/22/04 10:20</b>									
Chemical Oxygen Demand	ND	20000	ug/l	1	4110709	11/30/04	11/30/04	EPA 410.4	

Severn Trent Laboratories, San Francisco  
 1220 Quarry Lane  
 Pleasanton CA, 94566

 Project:BP  
 Project Number:2004-11-0548-1  
 Project Manager:Afsaneh Salimpour

 P411496  
 Reported:  
 12/03/04 15:36

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 4110709 - General Preparation / EPA 410.4**

<b>Blank (4110709-BLK1)</b>				<b>Prepared &amp; Analyzed: 11/30/04</b>						
Chemical Oxygen Demand	ND	20000	ug/l							
<b>Laboratory Control Sample (4110709-BS1)</b>				<b>Prepared &amp; Analyzed: 11/30/04</b>						
Chemical Oxygen Demand	244000	20000	ug/l	250000		98	80-120			
<b>Matrix Spike (4110709-MS1)</b>				<b>Prepared &amp; Analyzed: 11/30/04</b>						
Chemical Oxygen Demand	250000	20000	ug/l	250000	ND	100	75-125			
<b>Matrix Spike Dup (4110709-MSD1)</b>				<b>Prepared &amp; Analyzed: 11/30/04</b>						
Chemical Oxygen Demand	252000	20000	ug/l	250000	ND	101	75-125	0.8	20	

Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton CA, 94566

Project:BP  
Project Number:2004-11-0548-1  
Project Manager:Afsaneh Salimpour

P411496  
Reported:  
12/03/04 15:36

**Notes and Definitions**

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

P411496



STL

Chain of Custody

Date Shipped: 11/20/2004

2004-11-0654 - 1

P411496

From: STL San Francisco (CL) 1220 Quarry Lane Pleasanton, CA 94566-4756

To: Sequoia Analytical Petaluma 1455 N. McDowell Blvd., North Ste. D Petaluma, CA 94954

Project Manager: Afsaneh Salimpour Phone: (925) 484-1919 Ext: 107 Fax: (925) 484-1096 Email: asalimpour@stl-inc.com

Phone: (707) 792-1865 Ext: Fax: (707) 792-0342 Contact: Sample Receiving Phone: (707) 792-1865 Ext:

CL Submission #: 2004-11-0654 CL PO #:

Project #: 38486707.0L041 Project Name: 608

Table with columns: Client Sample ID, Analysis, CL#, Sampled, Matrix, Method, TAT. Row 1: EFFL, Subcontract - COD, 4, 11/18/2004 11:00:00AM, Water, 410.4, 5 Day

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

COOLER CUSTODY SEALS INTACT [ ] NOT INTACT [ ] COOLER TEMPERATURE 31 °C

RELINQUISHED BY: 1. Signature: Joan Mullen, Time: 0830, Printed Name: Joan Mullen, Date: 11-22-04, Company: STL SF

RELINQUISHED BY: 2. Signature: [Signature], Time: 1020, Printed Name: [Name], Date: 11-22-04, Company: STL S.F.

RELINQUISHED BY: 3. Signature: \_\_\_\_\_, Time: \_\_\_\_\_, Printed Name: \_\_\_\_\_, Date: \_\_\_\_\_, Company: \_\_\_\_\_

RECEIVED BY: 1. Signature: [Signature], Time: 0830, Printed Name: [Name], Date: 11-22-04, Company: STL S.F.

RECEIVED BY: 2. Signature: [Signature], Time: 1020, Printed Name: [Name], Date: 11-22-04, Company: SCQ

RECEIVED BY: 3. Signature: \_\_\_\_\_, Time: \_\_\_\_\_, Printed Name: \_\_\_\_\_, Date: \_\_\_\_\_, Company: \_\_\_\_\_



7004-11-0654

# Chain of Custody Record

Project Name Station 608 - O&M - Remediation/Environmental  
 BP BU/GEM CO Portfolio: Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company

17880 Page 1 of 1  
 On-site Time: 10:20 Temp: 65  
 Off-site Time: 12:00 Temp: 65  
 Sky Conditions: Sunny  
 Meteorological Events: None  
 Wind Speed: N/A Direction: N/A

Date: 11/18/04

Requested Due Date (mm/dd/yy) 11/18/04  
 (Standard 14 day TAT)

Send To:	BP/GEM Facility No.: Station 608	Consultant/Contractor: URS Oakland
Lab Name: STL-SF (Pleasanton)	BP/GEM Facility Address: 17601 Hesperian Blvd, San Lorenzo, CA	Address: 1333 Broadway, Suite 800
Lab Address:	Site ID No.: Station 608	Oakland, CA 94612
1220 Quarry Lane	Site Lat/Long:	e-mail EDD: No EDF
Pleasanton, CA 94566-4756	California Global ID #: T000100085	Consultant/Contractor Project No.: 38486707.0L041
Lab PM: Afsaneh Salimpour	BP/GEM Environmental Business Manager: Paul Supple	Consultant/Contractor Tele/Fax: 510.893.3600/510.874.3268
Tele/Fax: 925.484.1919/925.484.1096	Address: P.O. Box 6549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Level 1	Moraga, CA 94570	Invoice to: Atlantic Richfield Co
BP/GEM Account No.:	Tele/Fax: 925.299.8891/925.299.8872	BP/GEM Work Release No: G09JZ-0456

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of containers	Preservatives				Requested Analysis					Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	GRO (8260)	BTX (8260)	MTBE (8260)	Fuel Oxy. (8260)	COD (410.4)		TSS (160.2)
1	INFL	1120	11/18	X				3					X	X	X	X			Additionally Report To: GEORGE BRADSHAW  NO EDF  on hold
2	MID-1	1115	11/18	X				3					X	X	X	X			
3	MID-2	1110	11/18	X				3					X	X	X	X			
4	EFFL	1100	11/18	X				3					X	X	X	X			
5	EFFL	1100	11/18	X				1	X							X			
6	EFFL	1100	11/18	X				1	X							X			
7	Trip blank	1030	11/18	X				2											
8																			
9																			
10																			

Sampler's Name: <u>George Bradshaw</u>	Relinquished By: <u>[Signature]</u>	Date: <u>11/18/04</u>	Time: <u>1520</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/18/04</u>	Time: <u>1536</u>
Sampler's Company: <u>URS Corporation</u>		Date: <u>11/18/04</u>	Time: <u>1050</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/18/04</u>	Time: <u>1050</u>
Shipment Date: <u>11/18/04</u>		Date: <u>11/18/04</u>	Time: <u>1700</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/18/04</u>	Time: <u>1700</u>
Shipment Method: <u>SAE - STL</u>						

Special Instructions: COD = Chemical Oxygen Demand (250 ml poly w/H2SO4), TSS = Total Suspended Solids (250 ml poly unpreserved)

Custody Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt 2 °F/C Trip Blank Yes No

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: STZ  
 REC'D BY (PRINT): KZL  
 WORKORDER: 0411496

DATE Received at Lab: 11-22-04  
 TIME Received at Lab: 10:20  
 LOG IN DATE: 11-23-04

(Drinking water) for regulatory purposes: YES   
 (Wastewater) for regulatory purposes: YES

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	Dash #	CLIENT ID	CONTAINER DESCRIPTION	pH	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="checkbox"/> Absent Intact / Broken*			<u>STZ</u>	<u>50 p H2004</u>		<u>W</u>	<u>11-18</u>	
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*								
3. Airbill: Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent								
4. Airbill #:								
5. Sample Labels: <input checked="" type="checkbox"/> Present / Absent								
6. Sample ID: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody								
7. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*								
8. Does information on custody reports, traffic reports, and sample labels agree? <input checked="" type="checkbox"/> Yes / No*								
9. Sample received within hold time: <input checked="" type="checkbox"/> Yes / No*								
10. Proper Preservatives used: <input checked="" type="checkbox"/> Yes / No*								
11. Temperature Blank Received? Yes / <input checked="" type="checkbox"/> No*								
12. Temp Rec. at Lab: <u>3.9</u> degrees C (Acceptance range for samples requiring thermal pres.: 11/ 2°C)								
13. Sample collected more than 1 day ago? Yes * <input checked="" type="checkbox"/> No								

\*If Circled, contact Project Manager and attach record of resolution.

**URS-Oakland, CA**

December 30, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486707.0L041

Project: BP Facility No: 608

Site: 17601 Hesperian Blvd., San Leandro, CA

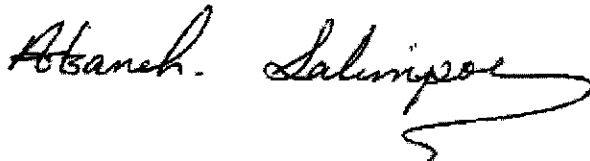
Attached is our report for your samples received on 12/17/2004 14:20  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
01/31/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,



Afsaneh Salimpour  
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496



**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
INFL	12/16/2004 10:50	Water	1
MID-1	12/16/2004 10:45	Water	2
MID-2	12/16/2004 10:40	Water	3
EFFL	12/16/2004 10:30	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: INFL	Lab ID: 2004-12-0653 - 1
Sampled: 12/16/2004 10:50	Extracted: 12/24/2004 15:22
Matrix: Water	QC Batch#: 2004/12/24-1D.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	12/24/2004 15:22	
Benzene	ND	0.50	ug/L	1.00	12/24/2004 15:22	
Toluene	ND	0.50	ug/L	1.00	12/24/2004 15:22	
Ethylbenzene	ND	0.50	ug/L	1.00	12/24/2004 15:22	
Total xylenes	ND	1.0	ug/L	1.00	12/24/2004 15:22	
tert-Butyl alcohol (TBA)	6.0	5.0	ug/L	1.00	12/24/2004 15:22	
Methyl tert-butyl ether (MTBE)	15	0.50	ug/L	1.00	12/24/2004 15:22	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	12/24/2004 15:22	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	12/24/2004 15:22	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	12/24/2004 15:22	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.0	73-130	%	1.00	12/24/2004 15:22	
Toluene-d8	100.2	81-114	%	1.00	12/24/2004 15:22	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MID-1	Lab ID:	2004-12-0653 - 2
Sampled:	12/16/2004 10:45	Extracted:	12/24/2004 13:36
Matrix:	Water	QC Batch#:	2004/12/24-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	12/24/2004 13:36	
Benzene	ND	0.50	ug/L	1.00	12/24/2004 13:36	
Toluene	ND	0.50	ug/L	1.00	12/24/2004 13:36	
Ethylbenzene	ND	0.50	ug/L	1.00	12/24/2004 13:36	
Total xylenes	ND	1.0	ug/L	1.00	12/24/2004 13:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/24/2004 13:36	
Methyl tert-butyl ether (MTBE)	1.9	0.50	ug/L	1.00	12/24/2004 13:36	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	12/24/2004 13:36	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	12/24/2004 13:36	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	12/24/2004 13:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	109.6	73-130	%	1.00	12/24/2004 13:36	
Toluene-d8	106.4	81-114	%	1.00	12/24/2004 13:36	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MID-2	Lab ID:	2004-12-0653 - 3
Sampled:	12/16/2004 10:40	Extracted:	12/24/2004 13:58
Matrix:	Water	QC Batch#:	2004/12/24-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	12/24/2004 13:58	
Benzene	ND	0.50	ug/L	1.00	12/24/2004 13:58	
Toluene	ND	0.50	ug/L	1.00	12/24/2004 13:58	
Ethylbenzene	ND	0.50	ug/L	1.00	12/24/2004 13:58	
Total xylenes	ND	1.0	ug/L	1.00	12/24/2004 13:58	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/24/2004 13:58	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/24/2004 13:58	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	12/24/2004 13:58	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	12/24/2004 13:58	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	12/24/2004 13:58	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	107.5	73-130	%	1.00	12/24/2004 13:58	
Toluene-d8	106.2	81-114	%	1.00	12/24/2004 13:58	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

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12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFL	Lab ID:	2004-12-0653 - 4
Sampled:	12/16/2004 10:30	Extracted:	12/24/2004 14:20
Matrix:	Water	QC Batch#:	2004/12/24-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	12/24/2004 14:20	
Benzene	ND	0.50	ug/L	1.00	12/24/2004 14:20	
Toluene	ND	0.50	ug/L	1.00	12/24/2004 14:20	
Ethylbenzene	ND	0.50	ug/L	1.00	12/24/2004 14:20	
Total xylenes	ND	1.0	ug/L	1.00	12/24/2004 14:20	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/24/2004 14:20	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/24/2004 14:20	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	12/24/2004 14:20	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	12/24/2004 14:20	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	12/24/2004 14:20	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	112.9	73-130	%	1.00	12/24/2004 14:20	
Toluene-d8	105.0	81-114	%	1.00	12/24/2004 14:20	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

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12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Method Blank			Water		
QC Batch # 2004/12/24-1C.64			Date Extracted: 12/24/2004 08:34		
MB: 2004/12/24-1C.64-034					
Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	12/24/2004 08:34	
Benzene	ND	0.5	ug/L	12/24/2004 08:34	
Toluene	ND	0.5	ug/L	12/24/2004 08:34	
Ethylbenzene	ND	0.5	ug/L	12/24/2004 08:34	
Total xylenes	ND	1.0	ug/L	12/24/2004 08:34	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/24/2004 08:34	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/24/2004 08:34	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	12/24/2004 08:34	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	12/24/2004 08:34	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	12/24/2004 08:34	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	108.0	73-130	%	12/24/2004 08:34	
Toluene-d8	109.0	81-114	%	12/24/2004 08:34	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/24-1D-68-033

Test(s): 8260B

Water

QC Batch # 2004/12/24-1D-68

Date Extracted: 12/24/2004 08:33

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	12/24/2004 08:33	
Benzene	ND	0.5	ug/L	12/24/2004 08:33	
Toluene	ND	0.5	ug/L	12/24/2004 08:33	
Ethylbenzene	ND	0.5	ug/L	12/24/2004 08:33	
Total xylenes	ND	1.0	ug/L	12/24/2004 08:33	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/24/2004 08:33	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/24/2004 08:33	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	12/24/2004 08:33	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	12/24/2004 08:33	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	12/24/2004 08:33	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.2	73-130	%	12/24/2004 08:33	
Toluene-d8	94.6	81-114	%	12/24/2004 08:33	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	
LCS 2004/12/24-1C.64-012		QC Batch # 2004/12/24-1C.64	
LCSD		Extracted: 12/24/2004	
		Analyzed: 12/24/2004 08:12	

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	28.0		25	112.0			65-165	20		
Benzene	26.6		25	106.4			69-129	20		
Toluene	28.4		25	113.6			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	546		500	109.2			73-130			
Toluene-d8	542		500	108.4			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/30/2004 14:18



**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/12/24-1D.68

LCS 2004/12/24-1D.68-016

Extracted: 12/24/2004

Analyzed: 12/24/2004 08:16

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.8		25	103.2			65-165	20		
Benzene	25.6		25	102.4			69-129	20		
Toluene	25.6		25	102.4			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	400		500	80.0			73-130			
Toluene-d8	490		500	98.0			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>		<b>Water</b>	<b>QC Batch # 2004/12/24-1C.64</b>
MS/MSD		Lab ID:	2004-12-0578 - 001
MS: 2004/12/24-1C.64-003		Extracted: 12/24/2004	Analyzed: 12/24/2004 11:03
			Dilution: 1.00
MSD: 2004/12/24-1C.64-025		Extracted: 12/24/2004	Analyzed: 12/24/2004 11:25
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	26.5	26.2	ND	25	106.0	104.8	1.1	69-129	20		
Toluene	27.7	28.5	ND	25	110.8	114.0	2.8	70-130	20		
Methyl tert-butyl ether	30.0	29.6	0.967	25	116.1	114.5	1.4	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	548	546		500	109.7	109.2		73-130			
Toluene-d8	544	545		500	108.8	109.0		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>		<b>QC Batch # 2004/12/24-1D.68</b>
MS/MSD			Lab ID: 2004-12-0632 - 001
MS: 2004/12/24-1D.68-045	Extracted: 12/24/2004		Analyzed: 12/24/2004 10:45
			Dilution: 1.00
MSD: 2004/12/24-1D.68-003	Extracted: 12/24/2004		Analyzed: 12/24/2004 11:03
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	25.9	26.3	ND	25	103.6	105.2	1.5	69-129	20		
Toluene	27.3	26.7	ND	25	109.2	106.8	2.2	70-130	20		
Methyl tert-butyl ether	84.6	83.4	54.4	25	120.8	116.0	4.1	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	401	418		500	80.1	83.6		73-130			
Toluene-d8	508	510		500	101.6	102.0		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/30/2004 14:18

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
EFFL	12/16/2004 10:30	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/28/2004 19:21

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Prep(s):	160.2	Test(s):	160.2
Sample ID:	EFFL	Lab ID:	2004-12-0653 - 4
Sampled:	12/16/2004 10:30	Extracted:	12/20/2004 06:15
Matrix:	Water	QC Batch#:	2004/12/20-01.29

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
TSS	ND	10	mg/L	1.00	12/20/2004 12:58	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/28/2004 19:21

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

**Batch QC Report**

Prep(s): 160.2

Method Blank

MB: 2004/12/20-01.29-001

Water

Test(s): 160.2

QC Batch # 2004/12/20-01.29

Date Extracted: 12/20/2004 06:15

Compound	Conc.	RL	Unit	Analyzed	Flag
TSS	ND	10	mg/L	12/20/2004 12:55	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/28/2004 19:21

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

**Batch QC Report**

Prep(s): 160.2

Test(s): 160.2

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/12/20-01.29**

LCS 2004/12/20-01.29-002

Extracted: 12/20/2004

Analyzed: 12/20/2004 12:56

LCSD 2004/12/20-01.29-003

Extracted: 12/20/2004

Analyzed: 12/20/2004 12:56

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
TSS	908	1000	1000	90.8	100.0	9.6	80-120	20		

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/28/2004 19:21



2004-12-0653

Chain of Custody Record

Project Name Station 608 - O&M - Remediation/Environmental
BP BU/GEM CO Portfolio: Retail
BP Laboratory Contract Number: Atlantic Richfield Company

On-site Time: 0900 Temp: 58
Off-site Time: Temp:
Sky Conditions: Sunny, Cool
Meteorological Events: None
Wind Speed: N/A Direction: N/A

Date: 12/16/04

Requested Due Date (mm/dd/yy) 12/30/04
(Standard 14 day TAT)

Send To: BP/GEM Facility No.: Station 608
Lab Name: STL-SF (Pleasanton)
Lab Address: 1220 Quarry Lane, Pleasanton, CA 94566-4756
Lab PM: Afshaneh Salimpour
Tele/Fax: 925.484.1919/925.484.1096
Report Type & QC Level: Level 1
BP/GEM Account No.:
Lab Bottle Order No.:
BP/GEM Facility Address: 17601 Hesperian Blvd, San Lorenzo, CA
Site ID No.: Station 608
Site Lat/Long:
California Global ID #: T000100085
BP/GEM Environmental Business Manager: Paul Supple
Address: P.O. Box 6549, Moraga, CA 94570
Tele/Fax: 925.299.8891/925.299.8872
Consultant/Contractor: URS Oakland
Address: 1333 Broadway, Suite 800, Oakland, CA 94612
e-mail EDF: No EDF
Consultant/Contractor Project No.: 38486707.01041
Consultant/Contractor Tele/Fax: 510.893.3600/510.874.3268
Consultant/Contractor PM: Scott Robinson
Invoice to: Atlantic Richfield Co
BP/GEM Work Release No.: G09JZ-0456

Table with columns: Item No., Sample Description, Time, Date, Matrix (Soil/Solid, Water/Liquid, Air), Laboratory No., No. of containers, Preservatives (Unpreserved, H2SO4, HNO3, HCl), Requested Analysis (GRD, BTEX, MTEB, Fuel Oxy, COD, TSS), and Sample Point Lat/Long and Comments.

Table with columns: Sampler's Name, Company, Date, Time, Relinquished By, Affiliation, Date, Time, Accepted By, Affiliation, Date, Time.

Special Instructions: COD = Chemical Oxygen Demand (250 ml poly w/H2SO4), TSS = Total Suspended Solids (250 ml poly for preserved)
Custody Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt 20.0°C Trip Blank Yes No





27 December, 2004

Afsaneh Salimpour  
Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

RE: BP  
Work Order: P412351

Enclosed are the results of analyses for samples received by the laboratory on 12/20/04 01:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stacy P. Hoch For Michael R. Giles  
Laboratory Director

CA ELAP Certificate #2374

Severn Trent Laboratories, San Francisco 1220 Quarry Lane Pleasanton CA, 94566	Project:BP Project Number:2004-12-0653-1 Project Manager:Afsaneh Salimpour	P412351 Reported: 12/27/04 15:07
--	--	--

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFFL	P412351-01	Water	12/16/04 10:30	12/20/04 01:32

Severn Trent Laboratories, San Francisco  
 1220 Quarry Lane  
 Pleasanton CA, 94566

Project:BP  
 Project Number:2004-12-0653-1  
 Project Manager:Afsaneh Salimpour

P412351  
**Reported:**  
 12/27/04 15:07

**Conventional Chemistry Parameters by APHA/EPA Methods  
 Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EFFL (P412351-01) Water    Sampled: 12/16/04 10:30    Received: 12/20/04 01:32</b>									
Chemical Oxygen Demand	ND	20000	ug/l	1	4120483	12/23/04	12/23/04	EPA 410.4	

Severn Trent Laboratories, San Francisco  
 1220 Quarry Lane  
 Pleasanton CA, 94566

 Project:BP  
 Project Number:2004-12-0653-1  
 Project Manager:Afsaneh Salimpour

 P412351  
 Reported:  
 12/27/04 15:07

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120483 - General Preparation / EPA 410.4</b>										
<b>Blank (4120483-BLK1)</b>				Prepared & Analyzed: 12/23/04						
Chemical Oxygen Demand	ND	20000	ug/l							
<b>Laboratory Control Sample (4120483-BS1)</b>				Prepared & Analyzed: 12/23/04						
Chemical Oxygen Demand	234000	20000	ug/l	250000		94	80-120			
<b>Matrix Spike (4120483-MS1)</b>				Prepared & Analyzed: 12/23/04						
Chemical Oxygen Demand	513000	40000	ug/l	500000	19000	99	75-125			
<b>Matrix Spike Dup (4120483-MSD1)</b>				Prepared & Analyzed: 12/23/04						
Chemical Oxygen Demand	509000	40000	ug/l	500000	19000	98	75-125	0.8	20	



Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton CA, 94566

Project:BP  
Project Number:2004-12-0653-1  
Project Manager:Afsaneh Salimpour

P412351  
Reported:  
12/27/04 15:07

**Notes and Definitions**

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



STL

P412351

Chain of Custody

Date Shipped: 12/20/2004

2004-12-0653 - 1

From: STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To: Sequoia Analytical Petaluma
1455 N. McDowell Blvd., North Ste. D
Petaluma, CA 94954

Project Manager: Afsaneh Salimpour
Phone: (925) 484-1919 Ext: 107
Fax: (925) 484-1096
Email: asalimpour@stl-inc.com

Phone: (707) 792-1865 Ext:
Fax: (707) 792-0342
Contact: Sample Receiving
Phone: (707) 792-1865 Ext:

CL Submission #: 2004-12-0653

Project #: Consultant Project No:
38486707.0L041

CL PO #:

Project Name: BP Facility No: 608

Table with columns: Client Sample ID, Analysis, GL# (4), Sampled (12/16/2004 10:30:00AM), Matrix (Water), Method (410.4), TAT (5 Day)

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: 1.
Signature: [Signature] Time: 0900
Printed Name: Joan Mallon Date: 12-20-04
Company: STL SF

RELINQUISHED BY: 2.
Signature: [Signature] Time: 1032
Printed Name: B. Morin Date: 12/20/04
Company: STL-SF

RELINQUISHED BY: 3.
Signature:
Time:
Printed Name:
Date:
Company:

RECEIVED BY:
Signature: [Signature] Time:
Printed Name: B. Morin Date: 12/20/04
Company: STL-SF

RECEIVED BY: 2.
Signature: [Signature] Time:
Printed Name: GAIL HERBMAN Date: 1032
Company: SEQUOIA

RECEIVED BY: 3.
Signature:
Time:
Printed Name:
Date:
Company:

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: SIL  
 REC. BY (PRINT) GH  
 WORKORDER: 12/2 P412351

DATE Received at Lab: 12/20/04  
 TIME Received at Lab: 10:52  
 LOG IN DATE: 12/20/04

(Drinking water) for  
 regulatory purposes: YES/NO  
 (Wastewater) for  
 regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	Dash #	CLIENT ID	CONTAINER DESCRIPTION	pH	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*			EFFL	250g/L Sol		L	12/16/04	
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*								
3. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
4. Airbill #:								
5. Sample Labels: <input checked="" type="radio"/> Present / Absent								
6. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody								
7. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*								
8. Does information on custody reports, traffic reports, and sample labels agree? <input checked="" type="radio"/> Yes / No*								
9. Sample received within hold time: <input checked="" type="radio"/> Yes / No*								
10. Proper Preservatives used: <input checked="" type="radio"/> Yes / No*				12/20/04				
11. Temperature Blank Received? <input checked="" type="radio"/> Yes / No*				L				
12. Temp Rec. at Lab: <u>5.9</u> degrees C (Acceptance range for samples requiring thermal pres.: 4 +/- 2°C) <input checked="" type="radio"/> Yes / No*								
13. Samples collected more than 4 days ago? <input checked="" type="radio"/> Yes / <input checked="" type="radio"/> No								

**\*If Circled, contact Project Manager and attach record of resolution.**