URS

RO-355

February 27, 2003

Mr. Amir K. Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: Fourth Quarter 2002 Groundwater Monitoring and Remediation Report
ARCO Service Station #608
17601 Hesperian Boulevard
San Lorenzo, California
URS Project #38486167

Dear Mr. Gholami:

On behalf of Atlantic Richfield Company (ARCO - an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Fourth Quarter 2002 Groundwater Monitoring and Remediation Report* for ARCO Service Station #608, located at 17601 Hesperian Boulevard, San Lorenzo, California.

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

Sincerely,
URS CORPORATION

Scott Robinson
Project Manager

Steve Krcik, R.G.
Project Geologist

REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 4976
EXP. 9/30/03
STATE OF CALIFORNIA

Enclosure: Fourth Quarter 2002 Groundwater Monitoring and Remediation Report

cc: Mr. Paul Supple, ARCO, P.O. Box 6549, Moraga, CA 94549
Mr. Ron Sykora/Mr. Robert L. Webster, David D. Bohannon Organization, 60 Hillsdale Mall, San Mateo, CA 94403
Mr. Chuck Headlee, Regional Water Quality Control Board - San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612

URS Corporation
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Atlantic Richfield Company
(a BP affiliated company)

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

February 27, 2003

Re: Fourth Quarter 2002 Groundwater Monitoring Report
ARCO Station #608
17601 Hesperian Blvd
San Lorenzo, CA

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

Submitted by:

Paul Supple
Environmental Business Manager

REPORT

FOURTH QUARTER 2002 GROUNDWATER MONITORING AND REMEDIATION

ARCO SERVICE STATION #608
17601 HESPERIAN BOULEVARD
SAN LORENZO, CALIFORNIA

Prepared for
Atlantic Richfield Company

February 27, 2003

URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

38486167

Date: February 27, 2003
Quarter: 4Q 02

ARCO QUARTERLY GROUNDWATER MONITORING AND REMEDIATION SYSTEM REPORT

Facility No.:	608	Address:	17601 Hesperian Boulevard, San Lorenzo, California
Atlantic Richfield Co. Environmental Engineer:			Paul Supple
Consulting Co./Contact Person:			URS Corporation/Scott Robinson
Consultant Project No.:			38486167
Primary Agency:			ACHCSA

WORK PERFORMED THIS QUARTER (Fourth – 2002):

1. Performed fourth quarter 2002 groundwater monitoring event.
2. Continued monthly payments to homeowners for not using domestic irrigation wells.
3. Continued homeowner quarterly monitoring result notification program.
4. Continued operation and maintenance of the groundwater extraction and treatment (GWET) system.
5. Submitted monthly flow data to Oro Loma Sanitary District.
6. Replaced the hour meter for the GWET System on November 17, 2002.
7. Replaced groundwater extraction pump on December 5, 2002.

WORK PROPOSED FOR NEXT QUARTER (First – 2003):

1. Prepare fourth quarter 2002 groundwater monitoring and remediation report on December 30, 2002.
2. Perform first quarter 2003 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 flow data to Oro Loma Sanitary District.

Current Phase of Project:	GW monitoring/sampling/remediation
Frequency of Groundwater Sampling:	See Table 1
Frequency of Groundwater Monitoring:	See Table 1
Is Free Product (FP) Present On-Site:	No
FP Recovered this Quarter	None
Current Remediation Techniques:	GWET
Approximate Depth to Groundwater:	7.13 (MW-14) to 16.33 (E-1A) feet
Groundwater Gradient (direction):	West
Groundwater Gradient (magnitude):	0.003 feet per foot
Frequency of GWET System Lab Sampling:	See Table 1

Frequency of GWET System Field Monitoring:	Bi-weekly		
System Restart:	6/5/2000		
Extraction Well:	E-1A		
Permits for Discharge:	Oro Loma Sanitary District Permit No. SDP-037 Expires 8/5/2003		
Gallons of Groundwater Treated and Discharge for this Quarter:	68,965		
Total Gallons of Groundwater Treated and Discharged to Date:	6,222,807		
Total Operation Hours to Date:	46,130		
Mass Removal (pounds):	Quarterly	Cumulatively	
TPH-g:	0.11	6.97	
Benzene:	0.000	0.31	
MTBE:	0.07	2.40	
GWET System Samples Collection Dates and Effluent Results (µg/L)::	11/07/2002	12/05/2002	01/03/2003
TPH-g:	250	ND<1.0	210
Benzene:	220	ND<1.0	110
MTBE:	170	ND<1.0	140

DISCUSSION:

TPH-g was detected in two of the eleven wells sampled this quarter at concentrations of 95 µg/L (MW-25) and 190 µg/L (E-1A). Benzene was detected in MW-25 at a concentration of 13 µg/L. MTBE was detected in five wells at concentrations ranging from 5.5 µg/L (MW-8) to 490 µg/L (MW-10).

Domestic irrigation wells 17302VM, 17348VE and 17371VM were not sampled because the wells are not operational. Domestic irrigation wells 634H, 675H and 17203VM were not sampled because residents were not home to grant access to the wells. Well MW-16 could not be sampled this quarter because a car was parked on top of it.

On November 17, 2002 the hour meter was replaced on the GWET system. From November 17, 2002 to January 3, 2003, the system operated 86 percent of the time. From October 7, 2002 to January 3, 2003 a total of 68,965 gallons of groundwater was treated. This volume does not coincide with historical volumes, however, since the replacement of the groundwater extraction pump on December 5, 2002 the discharged volume has increased to historical levels.

RECOMMENDATIONS:

We recommend contacting the homeowners for domestic irrigation wells 17302VM, 17348VE and 17371VM to see about having ARCO destroy wells for them since the wells are not operational.

We recommend reducing the sampling frequency of wells MW-9, ~~MW-16~~ has MTBE, and MW-22 from quarterly to annually due to the consistently low to non-detect values for the constituents of concern.

ATTACHMENTS:

- Table 1 – Groundwater Sampling Schedule
- Table 2 – Groundwater Analytical Data – Domestic Irrigation Wells
- Table 3 – Groundwater Elevation and Analytical Data – Groundwater Monitoring Wells
- Table 4 – Groundwater Flow Direction and Gradient
- Table 5 – Groundwater Extraction System Performance Data
- Table 6 – Treatment System Analytical Data
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – December 30, 2002
- Figure 2 – Groundwater Extraction System Mass Removal Trend TPH-g and Benzene
- Figure 3 – Groundwater Extraction System Concentration Trend TPH-g and Benzene
- Figure 4 – Groundwater Extraction System Mass Removal Trend MTBE
- Figure 5 – Groundwater Extraction System Concentration Trend MTBE
- 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 – EDCC Report and EDF/Geowell Submittal Confirmation

Table 1
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
Groundwater Monitoring Wells					
MW-5	a	a	a	a	Quarterly
MW-7	----------Removed from Program----------				
MW-8	a	a	a	a	Quarterly
MW-9	a	a	a	a	Quarterly
MW-10	a	a	a	a	Quarterly
MW-11	a	a	a	a	Quarterly
E-1A	a	a	a	a	Quarterly
MW-13	----------Removed from Program----------				
MW-14	a				Annually
MW-15	a	a	a	a	Quarterly
MW-16	a	a	a	a	Quarterly
MW-17	----------Destroyed----------				
MW-18	a				Annually
MW-19	----------Removed from Program----------				
MW-20	----------Destroyed----------				
MW-21	a				Annually
MW-22	a	a	a	a	Quarterly
MW-23	a				Annually
MW-24	----------Removed from Program----------				
MW-25	a	a	a	a	Quarterly
MW-26	a				Annually

Table 1
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
Domestic Irrigation Wells					
590H	----------Destroyed----------				
633H	----------Destroyed----------				
634H	a	a	a	a	Quarterly
642H	a	a	a	a	Quarterly
675H	a	a	a	a	Quarterly
17197 VM	----------Destroyed----------				
17200 VM	----------Destroyed----------				
17203 VM	a	a	a	a	Quarterly
17302 VM	a	a	a	a	Quarterly
17348 VE	a	a	a	a	Quarterly
17349 VM	----------Destroyed----------				
17371 VM	a	a	a	a	Quarterly
17372 VM	a	a	a	a	Quarterly
17393 VM	----------Destroyed----------				

a. Samples analyzed for TPH-g, BTEX compounds, and MTBE by EPA Methods 8015B, 8021B, respectively. MTBE is confirmed by EPA Method 8260B for concentrations detected in domestic wells.

Table 2

Groundwater Analytical Data - Domestic Irrigation Wells

ARCO Service Station #0608

17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
634 H	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
642 H	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	12/30/02	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**
675 H	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17197 VM	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17203 VM	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17302 VM	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**

Table 2

Groundwater Analytical Data - Domestic Irrigation Wells

ARCO Service Station #0608

17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
17348 VE	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17349 VM	03/13/02	ND<50	1	ND<0.50	ND<0.50	ND<0.50	49
	06/28/02	66	0.50	ND<0.50	ND<0.50	ND<0.50	45(47)[a]
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17371 VM	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17372 VM	03/13/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	12/30/02	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**

Table 2
Groundwater Analytical Data - Domestic Irrigation Wells

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

Note:	Samples analyzed for benzene, toluene, ethyl benzene, and total xylenes using EPA Method 8021B. Tert-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl (ETBE), and tert-amyl methyl ether (TAME) were not detected at or above the specified laboratory method detection limit in any of the groundwater samples analyzed.
TPH	= Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015, Modified
MTBE	= Methyl tertiary butyl ether
µg/L	= Micrograms per liter
P	= Purged
NP	=Not Purged
MSL	= Mean sea level
TOC	= Top of casing
<	= Not detected at or above specified laboratory method detection limit
a	= MTBE confirmed by EPA Method 8260
Source:	The data within this table collected prior to June 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 3

Groundwater Elevation and Analytical Data - Groundwater Monitoring Wells

ARCO Service Station #0608

17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-5	03/13/02	33.99	11.46	22.53	530	ND<2.5	ND<2.5	ND<2.5	ND<2.5	230
	06/28/02		11.75	22.24	180[b]	ND<1.0	2.6	ND<1.0	1.2	230
	09/20/02		12.15	21.84	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	333
	12/30/02		**9.73**	**24.26**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**
MW-8	03/13/02	32.79	10.30	22.49	500	ND<2.5	ND<2.5	ND<2.5	ND<2.5	1,100
	06/28/02		10.30	22.49	150[b]	ND<0.50	2.9	0.54	1.5	130
	09/20/02		10.84	21.95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	273
	12/30/02		**8.31**	**24.48**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**5.5**
MW-9	03/13/02	32.11	9.49	22.62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02		9.78	22.33	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02		10.29	21.82	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<0.500
	12/30/02		**7.60**	**24.51**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**
MW-10	03/13/02	31.67	9.68	21.99	680	ND<5.0	ND<5.0	ND<5.0	ND<5.0	570
	06/28/02		9.84	21.83	820[b]	ND<2.0	ND<2.0	ND<2.0	ND<2.0	1,200
	09/20/02		10.37	21.30	194	ND<0.50	ND<0.50	ND<0.50	ND<1.50	575
	12/30/02		**7.70**	**23.97**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**490**
MW-11	03/13/02	32.54	10.38	22.16	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02		10.74	21.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02		11.27	21.27	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<0.500
	12/30/02		**8.73**	**23.81**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**
E-1A (MW-12)	03/13/02	33.06	21.75	11.31	200	ND<0.50	ND<0.50	ND<0.50	ND<0.50	310
	06/28/02		11.22	21.84	260[b]	ND<0.50	11	1.2	1.2	150
	09/20/02		11.80	21.26	250	1.18	0.520	ND<0.5	ND<1.5	218
	12/30/02		**16.33**	**16.73**	**190 [c,e]**	**ND<1.2 [e]**	**ND<1.2 [e]**	**ND<1.2 [e]**	**ND<1.2 [e]**	**190 [e]**

Table 3

Groundwater Elevation and Analytical Data - Groundwater Monitoring Wells

ARCO Service Station #0608

17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-14	03/13/02	30.46	8.56	21.90	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02		9.12	21.34	----------Well Sampled Annually----------					
	09/20/02		9.79	20.67	----------Well Sampled Annually----------					
	12/30/02		**7.13**	**23.33**	**----------Well Sampled Annually----------**					
MW-15	03/13/02	31.41	10.03	21.38	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21
	06/28/02		10.41	21.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8.7
	09/20/02		11.00	20.41	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	21.6
	12/30/02		**8.33**	**23.08**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**67**
MW-16	03/13/02	31.39	10.51	20.88	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02		10.96	20.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02		10.47	20.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	1.67
	12/30/02		**NM**		**Well not sampled - Car Parked on Well**					
MW-18	03/13/02	29.70	9.46	20.24	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02		10.05	19.65	----------Well Sampled Annually----------					
	09/20/02		10.67	19.03	----------Well Sampled Annually----------					
	12/30/02		**7.98**	**21.72**	**----------Well Sampled Annually----------**					
MW-21	03/13/02	28.72	9.40	19.32	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0
	06/28/02		9.80	18.92	----------Well Sampled Annually----------					
	09/20/02		10.27	18.45	----------Well Sampled Annually----------					
	12/30/02		**7.70**	**21.02**	**----------Well Sampled Annually----------**					
MW-22	03/13/02	29.29	9.86	19.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02		10.65	18.64	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02		11.05	18.24	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<0.500
	12/30/02		**8.28**	**21.01**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**

Table 3

Groundwater Elevation and Analytical Data - Groundwater Monitoring Wells

ARCO Service Station #0608

17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-23	03/13/02	30.99	11.01	19.98	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02		11.59	19.40	----------Well Sampled Annually----------					
	09/20/02		12.00	18.99	----------Well Sampled Annually----------					
	12/30/02		**9.42**	**21.57**	**----------Well Sampled Annually----------**					
MW-25	03/13/02	33.81	10.99	22.82	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02		11.26	22.55	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	36
	09/20/02		11.65	22.16	117	ND<0.50	ND<0.50	ND<0.50	ND<1.50	259
	12/30/02		**9.33**	**24.48**	**95 [d]**	**13**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**98 [f]**
MW-26	03/13/02	33.71	11.27	22.44	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02		11.70	22.01	----------Well Sampled Annually----------					
	09/20/02		12.10	21.61	----------Well Sampled Annually----------					
	12/30/02		**9.60**	**24.11**	**----------Well Sampled Annually----------**					

Table 3
Groundwater Elevation and Analytical Data - Groundwater Monitoring Wells

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

Note:	Samples analyzed for benzene, toluene, ethyl benzene, and total xylenes using EPA Method 8021B.
TPH	= Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015, Modified
MTBE	= Methyl tertiary butyl ether
µg/L	= Micrograms per liter
P	= Purged
NP	=Not Purged
MSL	= Mean sea level
TOC	= Top of casing
ND<	= Not detected at or above specified laboratory method detection limit
a	= Well elevation data obtained from Quarterly Groundwater Monitoring and Site Status Report, Fourth Quarter 1994
b	= Chromatogram Pattern: Unidentified Hydrocarbons C6-C10
c	= Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
d	= 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.
Source:	The data within this table collected prior to June 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 4

Groundwater Flow Direction and Gradient

ARCO Service Station #0608

17601 Hesperian Boulevard, San Lorenzo, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06-28-02	West	0.003
09-20-02	West	0.002
12-30-02	**West**	**0.003**

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)	TPPH as Gasoline: Influent Concentration (µg/L)	TPPH as Gasoline: Net Removed (pounds)	TPPH as Gasoline: Removed To Date (pounds)	Benzene: Influent Concentration (µg/L)	Benzene: Net Removed (pounds)	Benzene: Removed To Date (pounds)	MtBE: Influent Concentration (µg/L)	MtBE: Net Removed (pounds)	MtBE: Removed To Date (pounds)	Primary MtBE Carbon Loading (%)
09/25/91	0	N/A	0	0	0.0	ND	N/A	0.00	N/A	0.000	0.00	N/A	N/A	N/A	0.0
09/26/91	N/A	N/A	1,144	1,144	N/A	38	0.00	0.00	4.8	0.000	0.00	N/A	N/A	N/A	0.0
10/22/91	26	96	12,844	11,700	7.6	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
11/22/91	77	93	52,532	39,688	13.0	ND	N/A	0.00	0.52	0.000	0.00	N/A	N/A	N/A	0.0
12/19/91	322	62	122,540	70,008	4.8	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
01/16/92	994	0	283,289	160,749	4.0	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
02/19/92	1,809	0	485,200	201,911	4.1	370	0.31	0.31	14	0.012	0.01	N/A	N/A	N/A	0.4
03/17/92	2,462	0	662,847	177,647	4.5	160	0.39	0.70	18	0.024	0.04	N/A	N/A	N/A	0.9
04/15/92	3,150	1	851,100	188,253	4.6	200	0.28	0.99	11	0.023	0.06	N/A	N/A	N/A	1.2
05/14/92	3,849	0	1,030,086	178,986	4.3	45	0.18	1.17	1.4	0.009	0.07	N/A	N/A	N/A	1.5
06/19/92	4,712	0	1,229,960	199,874	3.9	ND	N/A	1.17	ND	0.001	0.07	N/A	N/A	N/A	1.5
07/14/92	5,001	52	1,291,201	61,241	3.5	97	0.02	1.19	25.0	0.006	0.08	N/A	N/A	N/A	1.5
08/18/92	N/A	N/A	1,410,018	118,817	N/A	ND	N/A	1.19	ND	0.012	0.09	N/A	N/A	N/A	1.5
09/15/92	6,298	N/A	1,535,640	125,622	3.1	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
10/16/92	7,012	4	1,651,623	115,983	2.7	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
11/18/92	7,809	0	1,768,076	116,453	2.4	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
12/17/92	8,502	0	1,864,300	96,224	2.3	96	0.04	1.23	7.7	0.003	0.09	N/A	N/A	N/A	1.5
01/18/93	8,798	61	1,915,165	50,865	2.9	100	0.04	1.27	13	0.004	0.10	N/A	N/A	N/A	1.6
02/22/93	9,607	0	2,096,930	181,765	3.7	480	0.44	1.71	36	0.037	0.13	N/A	N/A	N/A	2.1
03/15/93	10,113	0	2,205,833	108,903	3.6	310	0.36	2.07	29	0.030	0.16	N/A	N/A	N/A	2.6
04/09/93	10,517	33	2,298,770	92,937	3.8	140	0.17	2.25	11	0.015	0.18	N/A	N/A	N/A	2.8
05/13/93	11,211	15	2,449,160	150,390	3.6	530	0.42	2.67	27	0.024	0.20	N/A	N/A	N/A	3.3
06/04/93	11,734	1	2,543,500	94,340	3.0	170	0.28	2.94	5.2	0.013	0.21	N/A	N/A	N/A	3.7
07/20/93	12,573	24	2,689,697	146,197	2.9	200	0.23	3.17	12	0.010	0.22	N/A	N/A	N/A	4.0
08/16/93	13,219	0	2,791,366	101,669	2.6	150	0.15	3.32	4.9	0.007	0.23	N/A	N/A	N/A	4.1
09/13/93	13,888	0	2,884,736	93,370	2.3	80	0.09	3.41	2.2	0.003	0.23	N/A	N/A	N/A	4.3
10/08/93	14,485	1	2,951,737	67,001	1.9	ND	0.02	3.43	ND	0.001	0.24	N/A	N/A	N/A	4.3
11/19/93	15,494	0	3,036,032	84,295	1.4	ND	0.00	3.43	ND	0.000	0.24	N/A	N/A	N/A	4.3
12/21/93	16,260	0	3,113,565	77,533	1.7	73	0.02	3.45	3.5	0.001	0.24	N/A	N/A	N/A	4.3
01/18/94	16,939	0	3,190,900	77,335	1.9	60	0.04	3.49	3.1	0.002	0.24	N/A	N/A	N/A	4.4
02/17/94	17,658	0	3,273,720	82,820	1.9	ND	0.02	3.51	2.5	0.002	0.24	N/A	N/A	N/A	4.4

Table 5
Groundwater Extraction System Performance Data

ARCO Service Station #0608
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San Lorenzo, California

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	TPPH as Gasoline: Influent Concentration (µg/L)	TPPH as Gasoline: Net Removed (pounds)	TPPH as Gasoline: Removed To Date (pounds)	Benzene: Influent Concentration (µg/L)	Benzene: Net Removed (pounds)	Benzene: Removed To Date (pounds)	MtBE: Influent Concentration (µg/L)	MtBE: Net Removed (pounds)	MtBE: Removed To Date (pounds)	Primary MtBE Carbon Loading (%)
03/15/94	18,235	7	3,344,249	70,529	2.0	ND	0.00	3.51	ND	0.001	0.24	N/A	N/A	N/A	4.4
04/21/94	18,849	31	3,418,537	74,288	2.0	110	0.03	3.55	7.8	0.002	0.24	N/A	N/A	N/A	4.4
05/13/94	19,351	5	3,478,910	60,373	2.0	230	0.09	3.63	8.3	0.004	0.25	N/A	N/A	N/A	4.5
06/14/94	19,680	57	3,518,608 a	39,698	2.0	230	0.08	3.71	12	0.003	0.25	N/A	N/A	N/A	4.6
07/14/94	20,145	35	3,574,408 b	55,800	2.0	270	0.12	3.83	6.9	0.004	0.26	N/A	N/A	N/A	4.8
08/17/94	20,920	5	51,260 c	91,580 c	2.0	ND	0.10	3.93	1.8	0.003	0.26	N/A	N/A	N/A	4.9
09/12/94	21,549	0	120,910	69,650	1.8	ND	0.00	3.93	ND	0.001	0.26	N/A	N/A	N/A	4.9
10/18/94	22,408	1	211,880	90,970	1.8	ND	0.00	3.93	ND	0.000	0.26	N/A	N/A	N/A	4.9
11/15/94	23,080	0	280,840	68,960	1.7	ND	0.00	3.93	0.66	0.000	0.26	N/A	N/A	N/A	4.9
12/05/94	23,489	15	325,830	44,990	1.8	470	0.09	3.99	32	0.006	0.27	N/A	N/A	N/A	5.0
01/04/95	24,205	1	408,740	82,910	1.9	ND	0.16	4.15	1.1	0.011	0.28	N/A	N/A	N/A	5.2
02/06/95	24,926	9	499,690	90,950	2.1	100	0.04	4.19	2.4	0.001	0.28	N/A	N/A	N/A	5.2
03/02/95	25,465	6	569,180	69,490	2.1	ND	0.03	4.22	ND	0.001	0.28	N/A	N/A	N/A	5.3
04/04/95	26,253	1	672,510	103,330	2.2	290	0.12	4.34	6.6	0.003	0.28	N/A	N/A	N/A	5.4
05/02/95	26,924	0	760,350	87,840	2.2	240	0.19	4.54	7.1	0.005	0.29	N/A	N/A	N/A	5.7
06/05/95	27,721	2	848,810	88,460	1.9	ND	0.09	4.62	ND	0.003	0.29	N/A	N/A	N/A	5.8 f
07/06/95	28,464	0	921,260	72,450	1.6	270	0.08	4.71	2.4	0.001	0.29	N/A	N/A	N/A	N/A g
08/21/95 d	29,568	0	993,320	72,060	1.1	230	0.15	4.86	1.8	0.001	0.29	N/A	N/A	N/A	N/A g
06/05/00 e	29,592	N/A	976,600	N/A	N/A	700	N/A	4.86	7.2	N/A	0.29	361	N/A	0.00	N/A g
06/05/00	29,593	0	979,800	3,200	2.1	700	0.02	4.88	7.2	0.000	0.29	361	0.01	0.01	N/A g
07/08/00	30,352	4	1,131,560	151,760	3.3	133	0.53	5.40	5.1	0.008	0.30	272	0.40	0.41	N/A g
08/07/00	30,955	16	1,228,240	96,680	2.7	144	0.11	5.51	2.8	0.003	0.30	126	0.16	0.57	N/A g
09/08/00	31,528	25	1,306,300	78,060	2.3	261	0.13	5.65	2.7	0.002	0.30	120	0.08	0.65	N/A g
10/10/00	32,230	9	1,393,820	87,520	2.1	114	0.14	5.78	ND	0.001	0.31	ND	0.04	0.69	N/A g
11/07/00	32,880	3	1,472,930	79,110	2.0	128	0.08	5.86	ND	0.000	0.31	98.6	0.03	0.73	N/A g
12/05/00	33,516	5	1,548,840	75,910	2.0	167	0.09	5.96	0.775	0.000	0.31	104	0.06	0.79	N/A g
01/04/01	33,924	43	1,595,340	46,500	1.9	ND	0.03	5.99	ND	0.000	0.31	86.8	0.04	0.83	N/A g
02/06/01	34,556	20	1,672,330	76,990	2.0	203	0.07	6.05	0.572	0.000	0.31	80.5	0.05	0.88	N/A g
03/08/01	34,776	70	1,698,860	26,530	2.0	219	0.05	6.10	ND	0.000	0.31	81.0	0.02	0.90	N/A g
03/24/01	35,088	19	1,741,170	42,310	2.3	NS †	0.07	6.17	NS †	0.000	0.31	NS †	0.03	0.93	N/A g
04/18/01	35,335	59	1,770,860	29,690	2.0	74.5	0.04	6.21	ND	0.000	0.31	97.5	0.02	0.95	N/A g

Table 5
Groundwater Extraction System Performance Data

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Influent Sample Date		Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	TPPH as Gasoline Influent Concentration (µg/L)	TPPH as Gasoline Net Removed (pounds)	TPPH as Gasoline Removed To Date (pounds)	Benzene Influent Concentration (µg/L)	Benzene Net Removed (pounds)	Benzene Removed To Date (pounds)	MtBE Influent Concentration (µg/L)	MtBE Net Removed (pounds)	MtBE Removed To Date (pounds)	Primary MtBE Carbon Loading (%)	
05/04/01		35,716	0	1,812,690	41,830	1.8	63.3	0.02	6.23	ND	0.000	0.31	93.2	0.03	0.98	N/A	g
06/09/01		36,345	27	1,879,710	67,020	1.8	64	0.04	6.27	ND	0.000	0.31	71	0.05	1.03	N/A	g
07/05/01	h	36,469	80	1,897,180	17,470	2.3	100	0.01	6.28	ND	0.000	0.31	430	0.04	1.07	N/A	g
08/14/01	h	36,822	63	1,928,510	31,330	1.5	290	0.05	6.33	2.2	0.000	0.31	870	0.17	1.24	N/A	g
09/05/01		37,219	25	1,977,050	48,540	2.0	ND(100)	0.06	6.39	ND(1.0)	0.000	0.31	340	0.24	1.48	N/A	g
10/05/01		37,932	0	2,040,950	63,900	1.5	ND	0.00	6.39	ND	0.000	0.31	150	0.13	1.61	N/A	g
11/13/01		38,820	0	2,119,670	78,720	1.5	ND	0.00	6.39	ND	0.000	0.31	92	0.08	1.69	N/A	g
12/11/01		39,496	0	2,186,530	66,860	1.6	65	0.02	6.41	ND	0.000	0.31	83	0.05	1.74	N/A	g
01/04/02		40,063	0	2,248,700	62,170	1.8	ND(50)	0.02	6.43	ND	0.000	0.31	140	0.06	1.80	N/A	g
02/05/02		40,830	0	2,333,090	84,390	1.8	100	0.04	6.46	ND	0.000	0.31	190	0.12	1.91	N/A	g
03/05/02		40,968	79	2,353,460	20,370	2.5	150	0.02	6.48	ND(1.2)	0.000	0.31	350	0.05	1.96	N/A	g
04/08/02		41,735	6	2,448,360	94,900	2.1	400	0.22	6.70	9.6	0.004	0.31	260	0.24	2.20	N/A	g
05/16/02		42,642	1	2,499,320	50,960	0.9	310	0.15	6.85	ND(1.0)	0.002	0.31	330	0.13	2.33	N/A	g
05/31/02		42,832	47	2,503,380	4,060	0.4	NS	0.00	6.85	NS	0.000	0.31	NS	0.00	2.33	N/A	g
08/19/02		44,925	i	2,520,289	16,909	0.1	NS	0.00	6.85	NS	0.000	0.31	NS	0.00	2.33	N/A	g
10/03/02		44,956	i	2,520,582	293	0.2	NS	0.00	6.85	NS	0.000	0.31	NS	0.00	2.33	N/A	g
10/07/02		44,956	i	2,522,394	1,812	N/A	160	0.00	6.86	ND(1.0)	0.000	0.31	130	0.00	2.33	N/A	g
11/07/02		**0**	j	**2,527,925**	**5,531**	**N/A**	**250**	**0.01**	**6.86**	**ND(1.0)**	**0.000**	**0.31**	**210**	**0.01**	**2.34**	**N/A**	g
12/05/02		**479**	29	**2,528,113**	**188**	**0.0**	**220**	**0.00**	**6.86**	**ND(1.0)**	**0.000**	**0.31**	**110**	**0.00**	**2.34**	**N/A**	g
01/03/03		**1,174**	0	**2,591,359**	**63,246**	**1.5**	**170**	**0.10**	**6.97**	**ND(1.0)**	**0.000**	**0.31**	**140**	**0.07**	**2.40**	**N/A**	g

REPORTING PERIOD:	**10/07/02 to 1/3/02**								
TOTAL GALLONS EXTRACTED:	**6,222,807**								
PERIOD GALLONS EXTRACTED:	**68,965**								
TOTAL POUNDS REMOVED:		**6.97**		**0.31**		**2.40**			
TOTAL GALLONS REMOVED:		**1.14**		**0.04**		**0.33**			
AVERAGE PERIOD FLOW RATE (gpm):	**0.12**								
PERIOD PERCENT OPERATIONAL:	**N/A**								
PERIOD POUNDS REMOVED:		**0.11**		**0.000**		**0.07**			
PERIOD GALLONS REMOVED:		**0.02**		**0.000**		**0.01**			

Table 5
Groundwater Extraction System Performance Data

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TPPH	= Total purgeable petroleum hydrocarbons	a.	Totalizer broken; volume estimated from hourmeter and flow rate.
gpm	= Gallons per minute	b.	Volume estimated from hourmeter and instantaneous flow rate.
µg/L	= Micrograms per liter	c.	Sewer totalizer replaced July 28, 1994; volume discharged estimated between July 14 and 28, 1994 at 2.0 gpm.
N/A	= Not available or not applicable	d.	GWE system temporarily shut down August 21, 1995.
ND	= Not detected above detection limit	e.	GWE system restarted June 5, 2000.
NS	= Not sampled	f.	Prior to June 5, 2000 primary carbon loading for benzene estimated using isotherm of 8 percent by weight.
†	= Assume same concentration as prior sampling event	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.
Densities: Gasoline = 6.1 lbs/gallon; Benzene = 7.34 lbs/gallon.		i.	Hour meter reading not functioning.
MtBE not quantified prior to 6/5/00		j.	Hour meter replaced.

Equations: Net Dissolved TPH-g Removed [pounds] = TPH-g concentration, [ug/L] x net volume (gallon) x density of gasoline [pound/gallon]
(Net dissolved TPH-g removed is calculated by averaging influent concentrations)

Note: The data within this table collected prior to May 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 6
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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

Date Sampled	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)
INFL (influent to primary carbon)									
09/26/91	38	4.8	0.6	1.6	1.1	NS	NS	NS	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
11/22/91	ND<30	0.5	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
02/19/92	370	14	0.34	14	2.4	NS	NS	NS	NA
03/17/92	160	18	0.32	0.56	1.6	NS	NS	NS	NA
04/15/92	200	11	ND<0.3	7.3	0.77	NS	NS	NS	NA
05/14/92	45	1.4	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
07/14/92	97	25	ND<0.5	8.5	ND<0.5	NS	NS	NS	NA
08/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/15/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/16/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/17/92	96	7.7	13	0.56	9.7	NS	NS	NS	NA
01/18/93	100	13	6.6	1.1	11	NS	NS	NS	NA
02/22/93	480	36	29	4.9	96	NS	NS	NS	NA
03/15/93	310	29	14	4.9	55	NS	NS	NS	NA
04/09/93	140	11	2.8	2.6	17	NS	NS	NS	NA
05/13/93	530	27	12	18	96	NS	NS	NS	NA
06/04/93	170	5.2	1.6	2.5	23	NS	NS	NS	NA
07/20/93	200	12	0.91	8.2	29	NS	NS	NS	NA
08/16/93	150	4.9	0.63	2.9	15	NS	NS	NS	NA
09/13/93	80	2.2	ND<0.5	ND<0.5	4.8	NS	NS	NS	NA
10/08/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/19/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/21/93	73	3.5	ND<0.5	1.9	8.4	NS	NS	NS	NA
01/18/94	60	3.1	ND<0.5	3.2	4.3	NS	NS	NS	NA
02/17/94	ND<50	2.5	ND<0.5	2.1	3.1	NS	NS	NS	NA
03/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
04/21/94	110	7.8	ND<1.0	9.6	ND<1.0	NS	NS	NS	NA
05/13/94	230	8.3	ND<0.5	14	6.0	NS	NS	NS	NA
06/14/94	230	12	ND<0.5	16	1.5	NS	NS	NS	NA
07/14/94	270	6.9	ND<0.5	15	1.9	NS	NS	NS	NA
08/18/94	ND<50	1.8	ND<0.5	1.5	ND<0.5	NS	NS	NS	NA
09/12/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/05/94	ND<50	0.66	ND<0.5	2.6	ND<0.5	NS	NS	NS	NA
12/05/94	470	32	0.59	29	6.2	NS	NS	NS	NA
01/04/95	ND<50	1.1	ND<0.50	1.4	ND<0.50	NS	NS	NS	NA
02/06/95	100	2.4	1.1	1.2	2.8	NS	NS	NS	NA
03/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
04/04/95	290	6.6	ND<0.50	10	1.7	NS	NS	NS	NA
05/02/95	240	7.1	ND<0.50	3.2	1.6	NS	NS	NS	NA
06/05/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
07/06/95	270	2.4	ND<0.50	7.6	1.0	NS	NS	NS	NA
08/21/95	230	1.8	ND<0.50	1.6	0.9	NS	NS	NS	NA
06/05/00	700	7.24	ND<1.00	2.11	ND<1.00	361	NS	NS	NA
07/08/00	133	5.09	0.598	ND<0.500	ND<0.500	272	NS	NS	NA
08/10/00	144	2.80	ND<0.500	1.04	ND<0.500	126	NS	NS	NA
09/08/00	261	2.74	0.826	0.626	ND<0.500	120	NS	NS	NA
10/10/00	114	ND<0.500	1.68	0.843	ND<0.500	ND<2.50	NS	NS	NA

Table 6
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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

Date Sampled	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)
INFL (influent to primary carbon) (cont.)									
11/07/00	128	ND<0.500	ND<0.500	ND<0.500	ND<0.500	98.6	NS	NS	NA
12/05/00	167	0.775	ND<0.500	ND<0.500	ND<0.500	104	NS	NS	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	86.8	NS	NS	NA
02/06/01	203	0.572	ND<0.500	0.513	ND<0.500	80.5	NS	NS	NA
03/08/01	219	ND<0.500	6.16	1.21	0.682	81.0	NS	NS	NA
04/18/01	74.5	ND<0.500	ND<0.500	ND<0.500	ND<0.500	97.5	NS	NS	NA
05/04/01	63.3	ND<0.500	ND<0.500	ND<0.500	ND<0.500	93.2	NS	NS	NA
06/09/01	64	ND<0.50	ND<0.50	ND<0.50	ND<0.50	71	NS	NS	NA
07/05/01	100	ND<0.50	2.5	ND<0.50	ND<0.50	430	NS	NS	NA
08/14/01	290	2.2	3.5	ND<1.0	ND<1.0	870	NS	NS	NA
09/05/01	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	340	NS	NS	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150	NS	NS	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	92	NS	NS	NA
12/11/01	65	ND<0.50	0.58	ND<0.50	ND<0.50	83	NS	NS	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	NS	NS	NA
02/05/02	100	ND<0.50	ND<0.50	ND<0.50	ND<0.50	190	NS	NS	NA
03/05/02	150	ND<1.2	ND<1.2	ND<1.2	ND<1.2	350	NS	NS	NA
04/08/02	400	9.6	ND<1.0	1.4	ND<1.0	260	NS	NS	NA
05/16/02	310	ND<1.0	ND<1.0	ND<1.0	ND<1.0	330	NS	NS	NA
10/07/02	160	4.1	ND<1.0	ND<1.0	ND<1.0	130	NS	NS	NA
11/07/02	**250**	**ND<0.50**	**10**	**0.70**	**0.77**	**210**	**NS**	**NS**	**NA**
12/05/02	**220**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**110**	**NS**	**NS**	**NA**
01/03/03	**170**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**140**	**NS**	**NS**	**NA**
MID-1 (between primary and secondary carbons)									
09/26/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
02/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
03/17/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
04/15/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
05/14/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
07/14/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
08/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/15/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/16/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/17/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/18/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
02/22/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/15/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
04/09/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/13/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/04/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/14/94	ND	ND	ND	ND	ND	NS	NS	NS	NA
08/17/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/12/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/18/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/04/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
02/06/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/02/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA

Table 6
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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

Date Sampled	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)
MID-1 (cont.)									
07/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
08/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<5.00	NS	NS	NA
09/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
10/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
11/07/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
12/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
03/08/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
05/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.3	NS	NS	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.7	NS	NS	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.0	NS	NS	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	26	NS	NS	NA
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	NS	NS	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	39	NS	NS	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	58	NS	NS	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	55	NS	NS	NA
11/07/02	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**100**	**NS**	**NS**	**NA**
12/05/02	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**51**	**NS**	**NS**	**NA**
01/03/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**66**	**NS**	**NS**	**NA**
MID-2 (between secondary and teriary carbons)									
06/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
07/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/10/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/07/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/05/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
03/08/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
05/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.7	NS	NS	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
11/07/02	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**	**NS**	**NS**	**NA**
12/05/02	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**	**NS**	**NS**	**NA**
01/03/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**	**NS**	**NS**	**NA**

Table 6
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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

Date Sampled	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)
EFFL (effluent to sewer)									
09/26/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
11/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
02/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
03/17/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
04/15/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
05/14/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
07/14/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
08/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/15/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/16/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/17/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
01/18/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
02/22/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
03/15/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
04/09/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
05/13/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
06/04/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
07/20/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
08/16/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/13/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/08/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/19/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/21/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
01/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
02/17/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
03/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
04/21/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
05/13/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
06/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
07/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
08/17/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/12/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/05/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/05/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
01/04/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
02/06/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
03/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
04/04/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
05/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
06/05/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
07/06/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
08/21/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
06/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	7.19
06/12/00	ND<50.0	NS	NS	NS	NS	NS	NS	NS	NA
07/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	32.1	ND<10.0	7.08
08/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<5.00	23.4	ND<10.0	6.67
09/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	29.2	ND<10.0	6.82
10/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.25

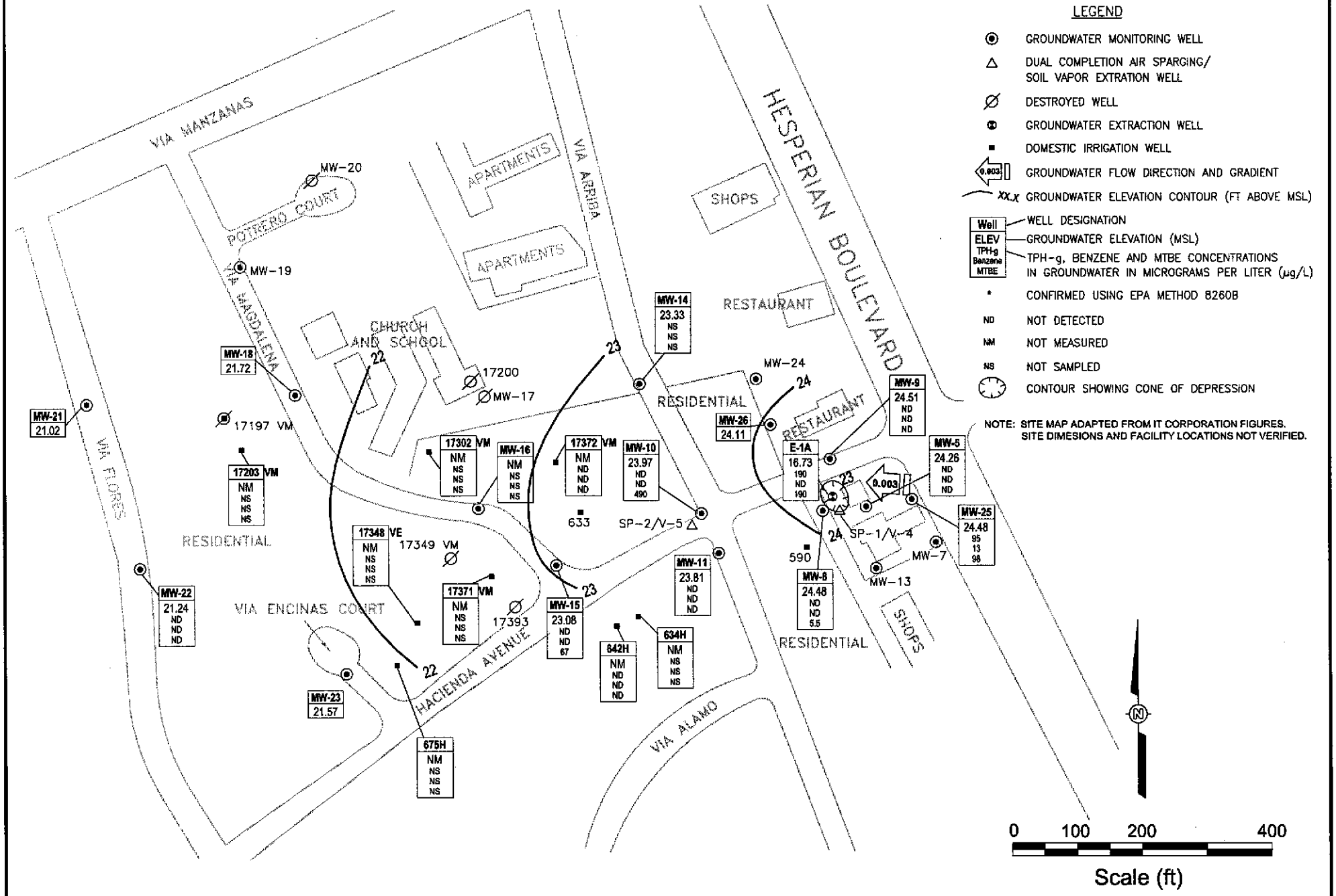
Table 6
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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

Date Sampled	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)
EFFL (effluent to sewer) (cont.)									
11/07/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.24
12/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	44.0	ND<10.0	7.48
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.00
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	10.7	7.03
03/08/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.04
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	28.5	ND<10.0	7.06
05/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.31
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	34	ND<10	7.05
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	7.10
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	14	7.09
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	70	ND<10	7.07
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	55	ND<10	6.89
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	150	ND<10	6.98
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	34	ND<10	7.01
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	52	ND<10	7.22
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.91
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.77
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.52
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.60
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
11/07/02	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**0.74**	**ND<2.5**	**ND<30**	**ND<10**	**7.80**
12/05/02	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.0**	**ND<30**	**ND<10**	**7.40**
01/03/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**	**ND<30**	**ND<10**	**7.50**

TPH = Total purgeable petroleum hydrocarbons
MtBE = Methyl tert Butyl Ether
COD = Chemical oxygen demand
TSS = Total suspended solids
µg/L = Micrograms per liter
mg/L = Miligrams per liter
ND< = Denotes minimum laboratory detection limit.
NA = Not applicable or not available
NS = Not sampled
ND = Not detected
Note: The data within this table collected prior to May 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

X:\x_env_waste\BP GEM\Sites\Scott Robinson\Paul Supple\0608\Reports\Monitoring\Qtr.3,2002\Drawings\GWEC-AS_9-20.dwg



URS	Project No. 38465883 Arco Service Station #0608 17601 Hesperian Boulevard San Lorenzo, California	Groundwater Elevation Contour and Analytical Summary Map Third Quarter 2002 (September 20, 2002)	FIGURE 1

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

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

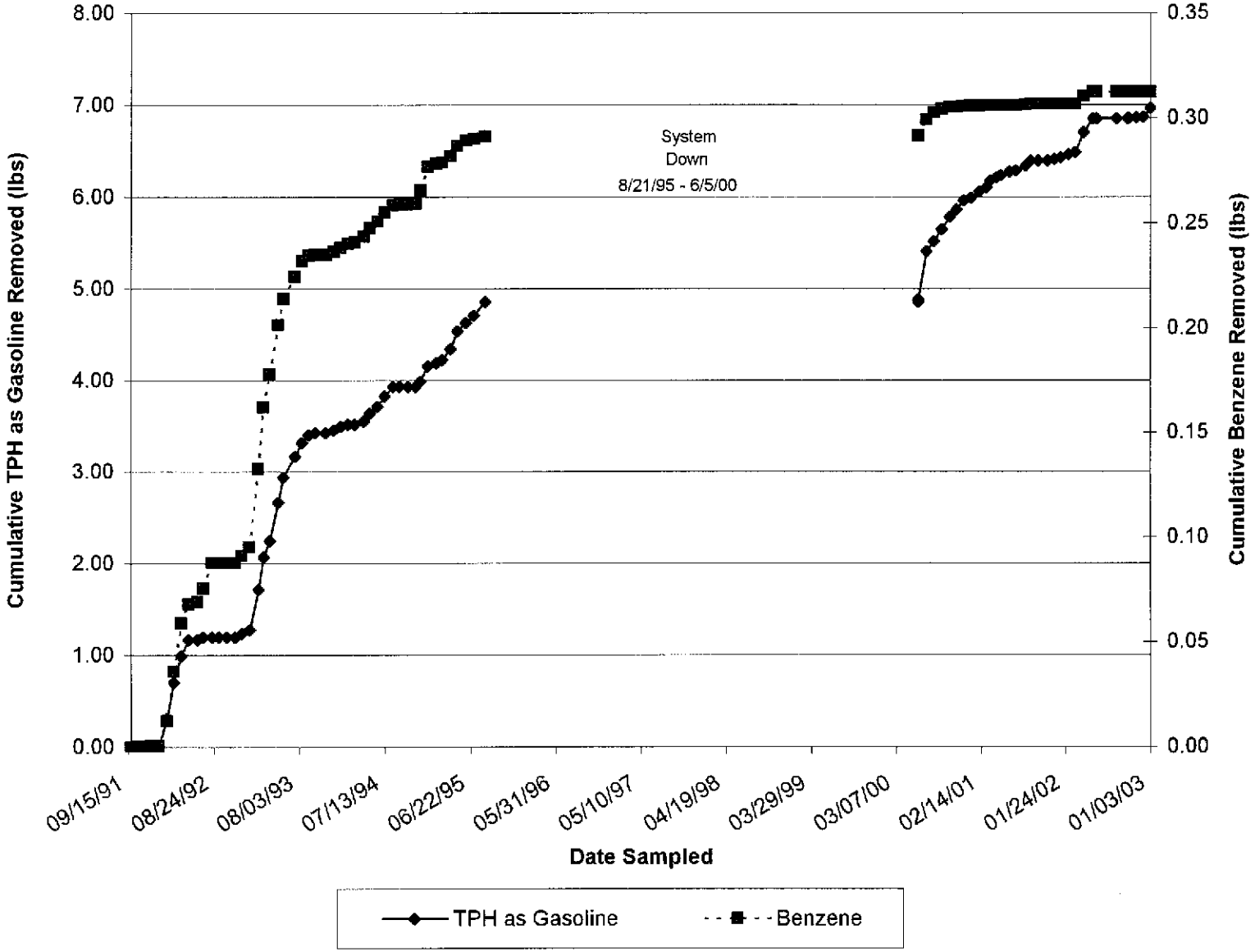


Figure 3
Groundwater Extraction System Concentration Trend
TPH-g and Benzene

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

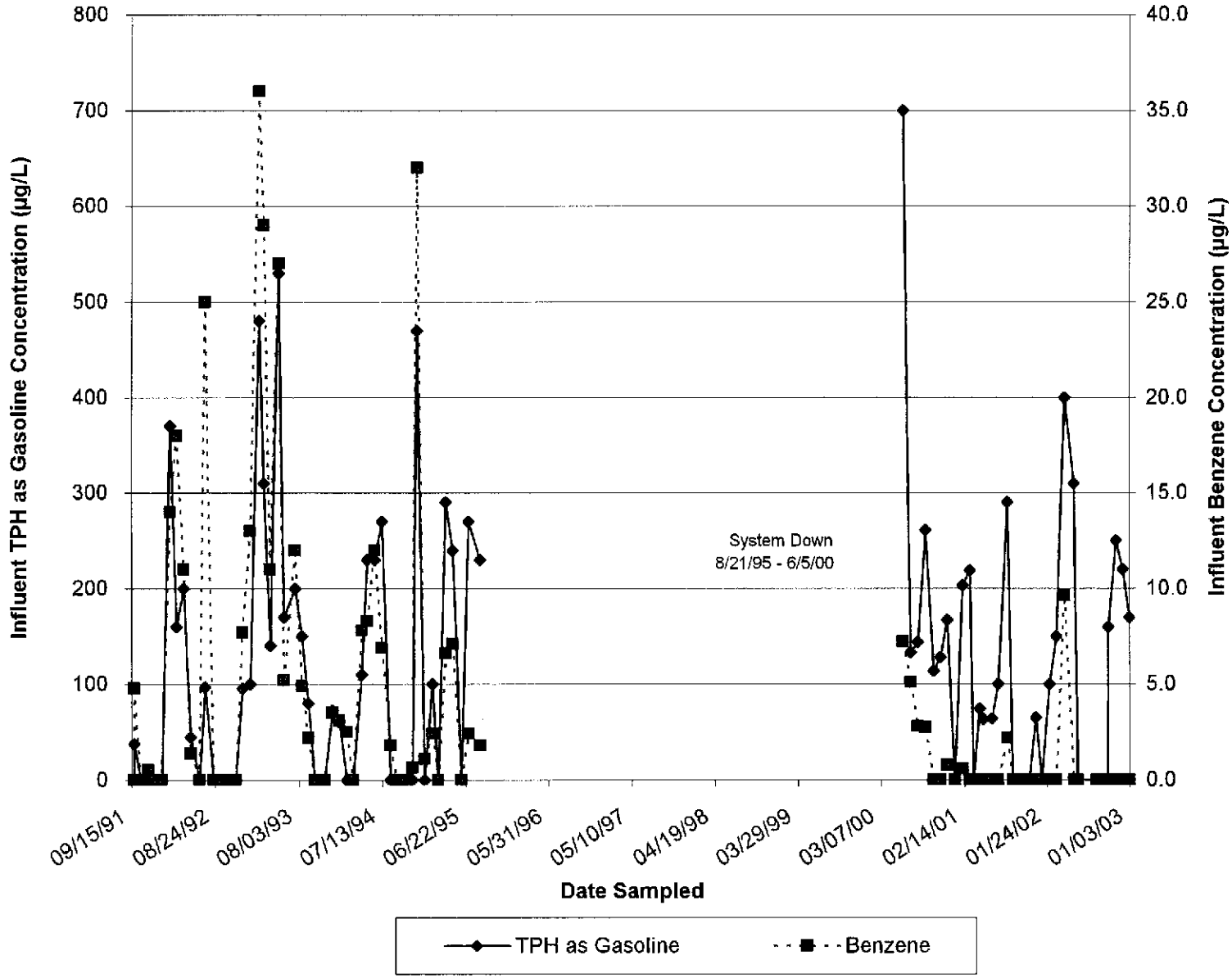


Figure 4
Groundwater Extraction System Mass Removal Trend
MtBE

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

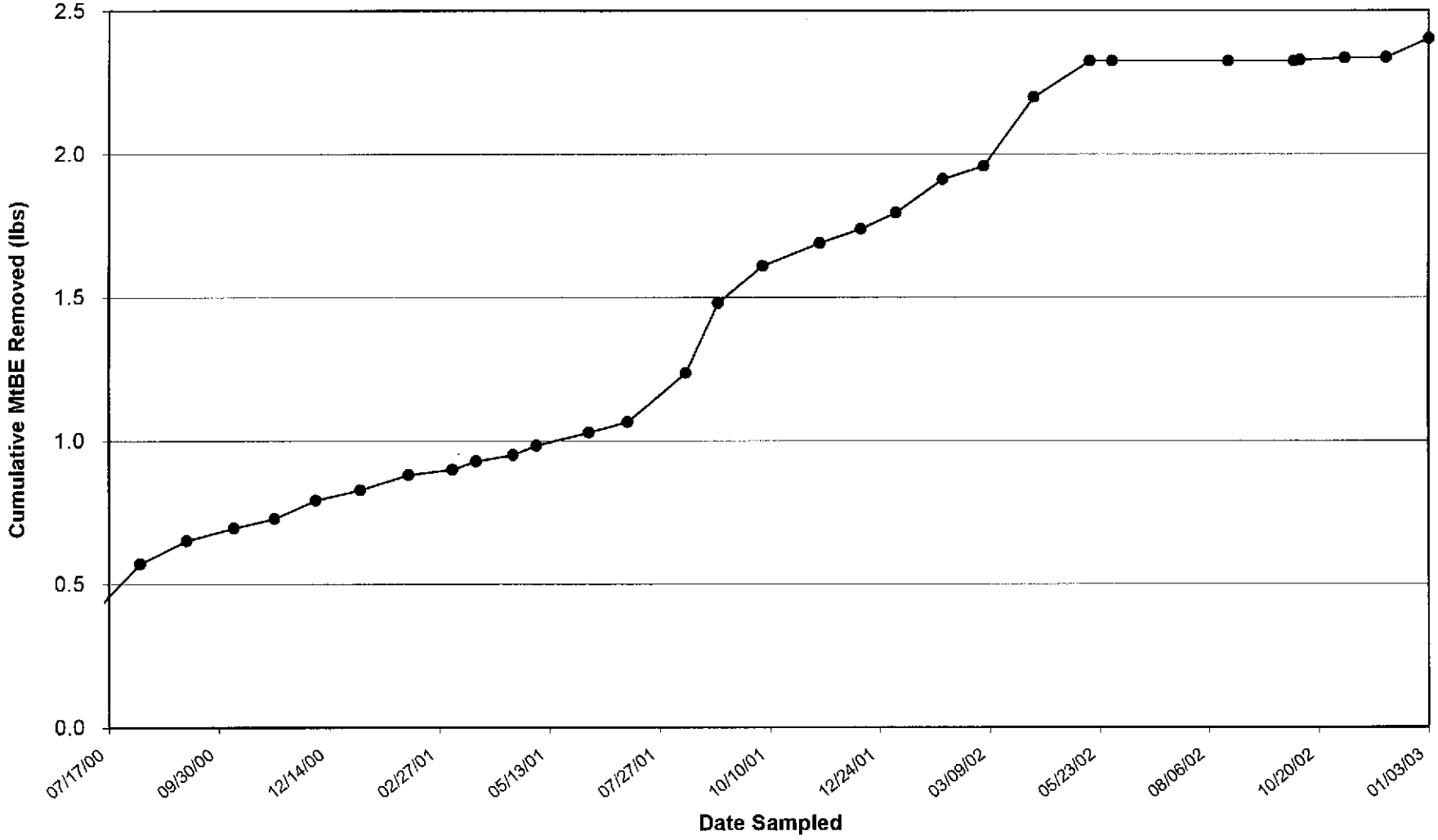
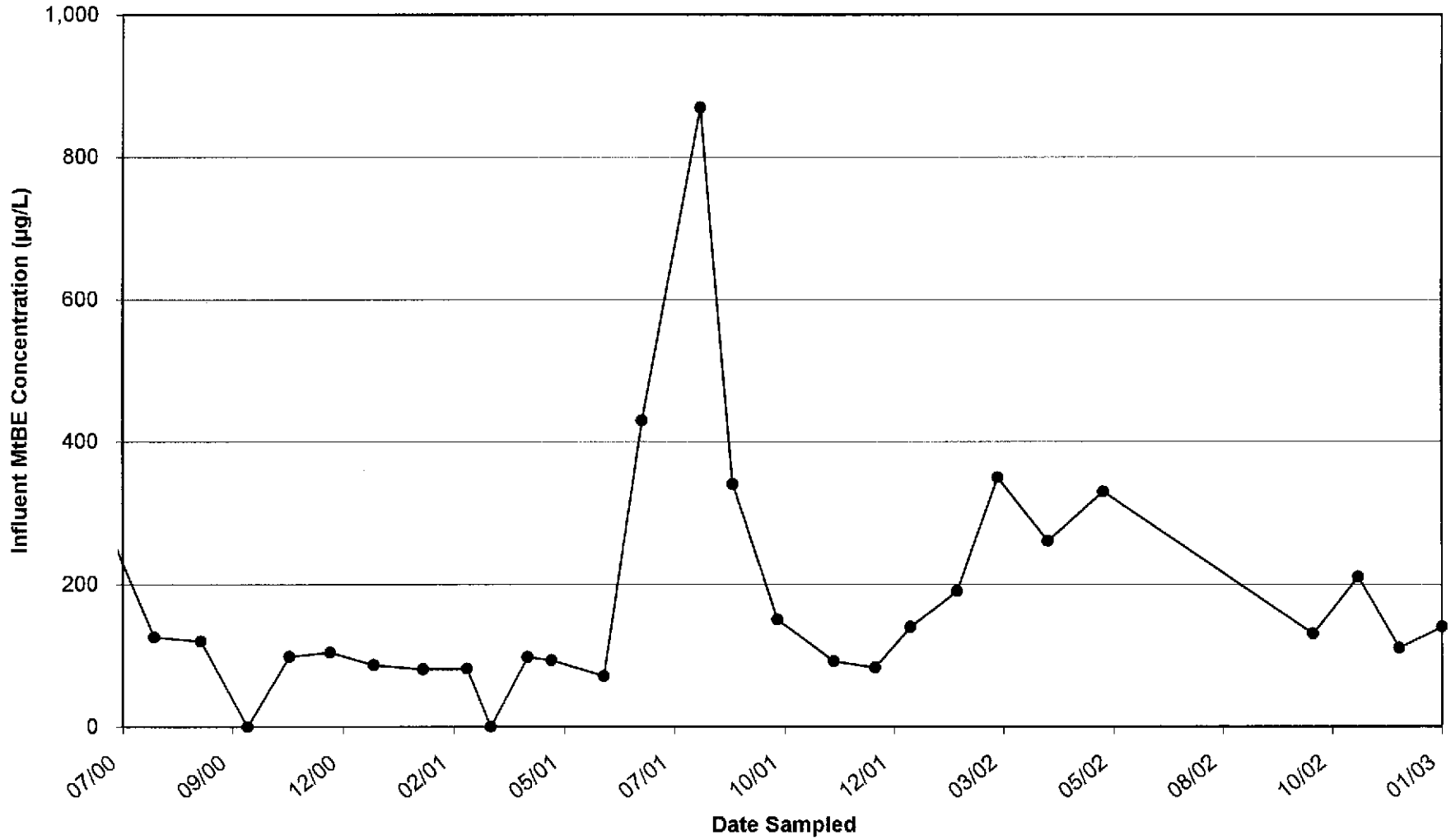


Figure 5
Groundwater Extraction System Concentration Trend
MtBE

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



O&M data 12-5-02 qmr

URS Corporation

ATTACHMENT A

FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

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

WELL GAUGING DATA

Project # 021230-MT1 Date 12-30-02 Client 2608

Site 17601 Hesparian Blvd, San Lorenzo, CA

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					9.73	13.65		
MW-8	3					8.31	20.95		
MW-9	3					7.60	18.30		
MW-10	3					7.70	22.45		
MW-11	3					8.73	18.74		
E-1A	6					16.33	—		
MW-14	3					7.13	23.00		
MW-15	3					8.33	23.21		
MW-16	3					—	~~23.18~~		Tire parked over
MW-18	3					7.98	21.55		
MW-21	3					7.70	21.60		
MW-22	3					8.28	21.50		
MW-23	3					9.42	21.70		
MW-25	2					9.33	18.50		
MW-26	2					9.60	19.45	X	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-MT1	Station # 0608
Sampler: MTOLL	Date: 12-30-02
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 13.05	Depth to Water: 9.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI (HACH)

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

Purge Method: Bailer; (Disposable Bailer); ~~Middleburg~~; 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.

2.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 7.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1200	59.9	6.9	1011	2.5	Odor
	Dewatered @			3	
1415	61.4	6.7	1002	—	DTW = 11.19 odor

Did well dewater? (Yes) No Gallons actually evacuated: 3

Sampling Time: 1415 Sampling Date: 12-30-02

Sample I.D.: MW-5 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.4 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-MT1	Station # 0608
Sampler: U.Toll	Date: 12-30-02
Well I.D.: MW-3	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 20.95	Depth to Water: 8.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI (HACH)

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

Purge Method: Bailer / Disposable Bailer / (Middleburg) / Electric Submersible / Extraction Pump / Other: ____

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

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

4.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 14.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1440	63.0	7.1	1026	4.75	Odor
1445	62.7	7.0	1032	9.5	"
1450	62.6	7.1	1025	14.25	"

Did well dewater? Yes (No) Gallons actually evacuated: 14.25

Sampling Time: 1455 Sampling Date: 12-30-02

Sample I.D.: MW-3 Laboratory: Pace (Sequoia) Other____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.8 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: MW-9	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 18.30	Depth to Water: 7.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / (Middleburg) / Electric Submersible / Extraction Pump / Other: _____

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

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

4 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 12 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1330	64.4	7.5	960	4	
1340	65.1	7.1	938	8	
1344	65.1	7.1	935	12	
	Casing too tight for Elec. Sub				

Did well dewater? Yes (No) Gallons actually evacuated: 12

Sampling Time: 1350 Sampling Date: 12-30-02

Sample I.D.: MW-9 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.8	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 02-1230-MT1	Station # 01008
Sampler: M. TOM	Date: 12-30-02
Well I.D.: ~~MW-5~~ MW-10	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 22.45	Depth to Water: ~~8.35~~ 7.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI (HACH)

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

Purge Method: Bailer / Disposable Bailer / (Middleburg) / Electric Submersible / Extraction Pump / Other: ____

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

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

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1509	63.0	7.0	1000	5.5	Odor
1515	62.5	7.1	976	11	"
1521	62.4	7.1	1005	16.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 16.5

Sampling Time: 1525 Sampling Date: 12-30-02

Sample I.D.: ~~MW-5~~ MW-10 Laboratory: (Pace) (Sequoia) Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.7 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: MW-11	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 13.74	Depth to Water: 8.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / (Middleburg) / 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.

3.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 11.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1313	64.0	7.2	1000	3.75	
1317	63.9	7.0	997	7.5	
1322	63.9	7.0	990	11.25	
	CASING Bent Elec. Sub won't work				

Did well dewater? Yes (No) Gallons actually evacuated: 11.25

Sampling Time: 1325 Sampling Date: 12-30-02

Sample I.D.: MW-11 Laboratory: Pace (Sequoia) Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: MW-15	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 23.24	Depth to Water: 8.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / (Middleburg) / Electric Submersible / Extraction Pump / Other: _____

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

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

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1247	62.8	7.1	863	5.5	
1253	62.7	7.0	850	11	
1258	62.7	7.0	859	16.5	
	Casing too tight for Elec. Sub.				

Did well dewater? Yes (No) Gallons actually evacuated: 16.5

Sampling Time: 1305 Sampling Date: 12-30-02

Sample I.D.: MW-15 Laboratory: Pace (Sequoia) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: MW-16	Well Diameter: 2 3 4 6 8 ____
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

_____ (1 Case Volume (Gals.)) X 3 (Specified Volumes) = _____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1130	Vehicle Tire		Parked over well Lid.		
	Unable to get car moved No one answered door.				
1250	"		"		"

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date: 12-30-02

Sample I.D.: MW-16 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D 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 #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: MW-22	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 21.50	Depth to Water: 8.23
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / (Electric Submersible) / Extraction Pump / Other: ___

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

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

4.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 14.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1231	68.3	7.8	908	5	
1233	67.9	7.7	920	10	
1235	67.9	7.7	917	14.75	

Did well dewater? Yes (No) Gallons actually evacuated: 14.75

Sampling Time: 1240 Sampling Date: 12-30-02

Sample I.D.: MW-22 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.5	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-1KT1	Station # 0608
Sampler: M.TOH	Date: 12-30-02
Well I.D.: MW-25	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 18.50	Depth to Water: 9.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI (HACH)

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

Purge Method: Bailer / Disposable Bailer / (Middleburg) / 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.

1.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 4.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1357	65.3	7.2	1012	1.5	
1359	65.3	7.0	1010	3	
1402	65.3	7.0	1008	4.5	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Time: 1405 Sampling Date: 12-30-02

Sample I.D.: MW-25 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-MT1	Station # 0609
Sampler: M.TOLL	Date: 12-30-02
Well I.D.: E-1A	Well Diameter: 2 3 4 (6) 8 ____
Total Well Depth: —	Depth to Water: 16.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI (HACH)

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

____ (1 Case Volume (Gals.)) X 3 RAN for 3 min (Specified Volumes / Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1410	65.2	7.2	965	—	Odor

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Time: 1410 Sampling Date: 12-30-02

Sample I.D.: E-1A Laboratory: Pace (Sequoia) Other ____

Analyzed for: TPH-G (BTEX) (MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.7	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-MTJ	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: 6344	Well Diameter: 2 3 4 6 8 ____
Total Well Depth: —	Depth to Water: —
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

____ (1 Case Volume (Gals.)) X 3 (Specified Volumes) = ____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
0920	Pump has been disconnected. ~~Well~~ No Longer in Service. Both Electrical & Piping are disconnected				

Did well dewater? Yes No — Gallons actually evacuated:

Sampling Time: — Sampling Date: 12-30-02

Sample I.D.: — Laboratory: Pace (Sequoia) Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D 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 #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: 642 H	Well Diameter: 2 3 4 6 8 ____
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

1 Case Volume (Gals.)	X	Specified Volumes	Calculated Volume
_____	X	3 RAD for 3 min.	Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
0914	60.0	6.9	1009	—	

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Time: 0910 Sampling Date: 12-30-02

Sample I.D.: 642H Laboratory: Pace (Sequoia) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.1 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-MT1	Station # 0609
Sampler: M. Toll	Date: 12-30-02
Well I.D.: 675H	Well Diameter: 2 3 4 6 8 ___
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

____ (1 Case Volume (Gals.)) X 3 (Specified Volumes) = ____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1030	NOT	HOME,	NO ANSWER		

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date: 12-30-02

Sample I.D.: Laboratory: Pace (Sequoia) Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D 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 #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: 17348VE	Well Diameter: 2 3 4 6 8 ____
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
_____	X	3	=	_____ Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1045	Pump has been disconnected & (No Longer Being used				

Did well dewater? Yes / No Gallons actually evacuated:

Sampling Time: Sampling Date: 12-30-02

Sample I.D.: Laboratory: Pace (Sequoia) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D 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 #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: 17197 VM	Well Diameter: 2 3 4 6 8 ____
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

____ (1 Case Volume (Gals.)) X 3 (Specified Volumes) = ____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1020	Abandoned				

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date: 12-30-02

Sample I.D.: Laboratory: Pace (Sequoia) Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D 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 #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: 7203 VM	Well Diameter: 2 3 4 6 8 ___
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
___	X	3	=	___ Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1025	NO ONE HOME & NO ANSWER				

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date: 12-30-02

Sample I.D.: Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: 17302VM	Well Diameter: 2 3 4 6 8 ___
Total Well Depth: —	Depth to Water: —
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

1 Case Volume (Gals.)	X	3 Specified Volumes	=	___ Gals. Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
0940	- Not working. No one home				
1126	- Confirmed w/ Owner. Pump is broken & he does not plan on fixing it.				
	- He seems very upset & confrontational over the pump issue				

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date: 12-30-02

Sample I.D.: Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D 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 #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: 1734 VM	Well Diameter: 2 3 4 6 8 ____
Total Well Depth: ____	Depth to Water: ____
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
_____	X	3	=	_____ Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
0948	WELL	HAS BEEN Abandoned.			New Owner's of House

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date: 12-30-02

Sample I.D.: 1734 VM Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D 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 #: 021230-MTI	Station # 0609
Sampler: M. Toll	Date: 12-30-02
Well I.D.: 17371 VM	Well Diameter: 2 3 4 6 8 ___
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

___ (1 Case Volume (Gals.)) X 3 (Specified Volumes) = ___ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
0945	Disconnected	No Longer in Service			

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date: 12-30-02

Sample I.D.: Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D 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 #: 021230-MT1	Station # 0608
Sampler: M. Toll	Date: 12-30-02
Well I.D.: 17372 VM	Well Diameter: 2 3 4 6 8 ___
Total Well Depth: —	Depth to Water: ~
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / 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.

___ (1 Case Volume (Gals.)) X 3 (Specified Volumes) Raw for 3 min (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1016	51.1	7.8	876	—	

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Time: 1010 Sampling Date: 12-30-02

Sample I.D.: 17372 VM Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.6 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 020926-MG1	Station # 0608
Sampler: MG	Date: 9/26/02
Well I.D.: 642H	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: —	Depth to Water: 15.07
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI (HACH)

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

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer / Extraction Port / (X) Other: Spigot

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.

___ (1 Case Volume (Gals.)) x Ran pump for 2 min, then sampled (Specified Volumes) ___ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
910	65.0	7.2	927	—	

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Time: 911 Sampling Date: 9/26/02

Sample I.D.: 642H Laboratory: Pace Sequoia Other ___

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.8	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

WELLHEAD INSPECTION CHECKLIST

Client DLDS Date 12-30-02

Site Address 17601 Hesparian Blvd., San Lorenzo, CA

Job Number D2123D-MT1 Technician M.TOLL

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-5		✓		✓	✓			
MW-8	✓							
MW-9					✓			
MW-10	✓							
MW-11					✓			
E-1A	✓							
MW-14	✓							
MW-15	✓							
MW-16							✓	
MW-18		✓		✓	✓			
MW-21	✓	✓						
MW-22		✓		✓	✓			
MW-23	✓							
MW-25					✓			
MW-26	✓							

NOTES: Vehicle Tire parked over Well Lid

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:

Station # ~~0800~~ 0608

Station Address 17601 Hesperian Bl., San Lorenzo, CA

Total Gallons Collected From Groundwater Monitoring Wells: 93

added equip. rinse water 5

any other adjustments

TOTAL GALS. RECOVERED 98

loaded onto BTS vehicle # 50

BTS event # 021230-MT1

time 1540

date 12/30/02

signature

* *

REC'D AT BTS-SJ

time

date 12/30/02

unloaded by signature

ATTACHMENT B

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

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals 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 Group Environmental Management Company have been reviewed and verified by that laboratory.

Sequoia
Analytical

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

29 January, 2003

Scott Robinson
URS Corporation
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #608, San Lorenzo, Ca
Sequoia Work Order: MLL1004

Enclosed are the results of analyses for samples received by the laboratory on 12/31/02 11:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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

URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL1004
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/29/03 07:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
642 H	MLL1004-01	Water	12/30/02 09:10	12/31/02 11:45
17372 VM	MLL1004-02	Water	12/30/02 10:10	12/31/02 11:45
MW-5	MLL1004-03	Water	12/30/02 14:15	12/31/02 11:45
MW-8	MLL1004-04	Water	12/30/02 14:55	12/31/02 11:45
MW-9	MLL1004-05	Water	12/30/02 13:50	12/31/02 11:45
MW-10	MLL1004-06	Water	12/30/02 15:25	12/31/02 11:45
MW-11	MLL1004-07	Water	12/30/02 13:25	12/31/02 11:45
MW-15	MLL1004-08	Water	12/30/02 13:05	12/31/02 11:45
MW-22	MLL1004-09	Water	12/30/02 12:40	12/31/02 11:45
MW-25	MLL1004-10	Water	12/30/02 14:05	12/31/02 11:45
E-1A	MLL1004-11	Water	12/30/02 14:10	12/31/02 11:45

There were no custody seals that were received with this project.

Sequoia Analytical

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

URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL1004
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/29/03 07:45

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
642 H (MLL1004-01) Water Sampled: 12/30/02 09:10 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A09003	01/09/03	01/09/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*55-142*		"	"	"	"	
17372 VM (MLL1004-02) Water Sampled: 12/30/02 10:10 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A09003	01/09/03	01/09/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.2 %*	*55-142*		"	"	"	"	
MW-5 (MLL1004-03) Water Sampled: 12/30/02 14:15 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A09003	01/09/03	01/09/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*55-142*		"	"	"	"	

Sequoia Analytical

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL1004
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/29/03 07:45

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MLL1004-04) Water Sampled: 12/30/02 14:55 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A09003	01/09/03	01/09/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**5.5**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.6 %*		*55-142*	"	"	"	"	
MW-9 (MLL1004-05) Water Sampled: 12/30/02 13:50 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A09003	01/09/03	01/09/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.6 %*		*55-142*	"	"	"	"	
MW-10 (MLL1004-06) Water Sampled: 12/30/02 15:25 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	ND	500	ug/l	10	3A09003	01/09/03	01/09/03	8015Bm/8021B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**490**	25	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.4 %*		*55-142*	"	"	"	"	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL1004
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/29/03 07:45

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (MLL1004-07) Water Sampled: 12/30/02 13:25 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A09003	01/09/03	01/09/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*		*55-142*	"	"	"	"	
MW-15 (MLL1004-08) Water Sampled: 12/30/02 13:05 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A09003	01/09/03	01/09/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**67**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.5 %*		*55-142*	"	"	"	"	
MW-22 (MLL1004-09) Water Sampled: 12/30/02 12:40 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A09003	01/09/03	01/09/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.5 %*		*55-142*	"	"	"	"	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL1004
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/29/03 07:45

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-25 (MLL1004-10) Water Sampled: 12/30/02 14:05 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	**95**	50	ug/l	1	3A13002	01/13/03	01/13/03	8015Bm/8021B	HC-21
Benzene	**13**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**98**	2.5	"	"	"	"	"	"	O-11
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*55-142*		"	"	"	"	*O-11*
E-1A (MLL1004-11) Water Sampled: 12/30/02 14:10 Received: 12/31/02 11:45									
Gasoline Range Organics (C6-C10)	**190**	120	ug/l	2.5	3A17002	01/17/03	01/17/03	8015Bm/8021B	HC-12,HT-04
Benzene	ND	1.2	"	"	"	"	"	"	HT-04
Toluene	ND	1.2	"	"	"	"	"	"	HT-04
Ethylbenzene	ND	1.2	"	"	"	"	"	"	HT-04
Xylenes (total)	ND	1.2	"	"	"	"	"	"	HT-04
Methyl tert-butyl ether	**190**	6.2	"	"	"	"	"	"	HT-04
Surrogate: a,a,a-Trifluorotoluene		*119 %*	*55-142*		"	"	"	"	*HT-04*

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL1004
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/29/03 07:45

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A09003 - EPA 5030B [P/T]										
Blank (3A09003-BLK1)				Prepared & Analyzed: 01/09/03						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*11.5*		"	*10.0*		*115*	*55-142*			
Laboratory Control Sample (3A09003-BS1)				Prepared & Analyzed: 01/09/03						
Benzene	10.8	0.50	ug/l	10.0		108	68-140			
Toluene	11.3	0.50	"	10.0		113	76-127			
Ethylbenzene	11.6	0.50	"	10.0		116	77-130			
Xylenes (total)	34.1	0.50	"	30.0		114	78-128			
Surrogate: a,a,a-Trifluorotoluene	*10.6*		"	*10.0*		*106*	*55-142*			
Laboratory Control Sample (3A09003-BS2)				Prepared & Analyzed: 01/09/03						
Gasoline Range Organics (C6-C10)	226	50	ug/l	250		90.4	62-134			
Surrogate: a,a,a-Trifluorotoluene	*12.4*		"	*10.0*		*124*	*55-142*			
Matrix Spike (3A09003-MS1)		**Source: MLL1004-07**		Prepared & Analyzed: 01/09/03						
Gasoline Range Organics (C6-C10)	419	50	ug/l	550	ND	76.2	62-134			
Benzene	9.94	0.50	"	6.80	ND	146	68-140			QM-07
Toluene	43.4	0.50	"	41.0	ND	105	76-127			
Ethylbenzene	10.4	0.50	"	9.80	ND	106	77-130			
Xylenes (total)	49.5	0.50	"	47.9	ND	103	78-128			
Surrogate: a,a,a-Trifluorotoluene	*14.1*		"	*10.0*		*141*	*55-142*			
Matrix Spike Dup (3A09003-MSD1)		**Source: MLL1004-07**		Prepared & Analyzed: 01/09/03						
Gasoline Range Organics (C6-C10)	478	50	ug/l	550	ND	86.9	62-134	13.2	41	
Benzene	11.3	0.50	"	6.80	ND	166	68-140	12.8	30	QM-07

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL1004
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/29/03 07:45

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A09003 - EPA 5030B [P/T]										
Matrix Spike Dup (3A09003-MSD1)		**Source: MLL1004-07**		Prepared & Analyzed: 01/09/03						
Toluene	49.0	0.50	ug/l	41.0	ND	119	76-127	12.1	30	
Ethylbenzene	11.6	0.50	"	9.80	ND	118	77-130	10.9	21	
Xylenes (total)	56.8	0.50	"	47.9	ND	119	78-128	13.7	21	
Surrogate: a,a,a-Trifluorotoluene	*14.0*		"	*10.0*		*140*	*55-142*			
Batch 3A13002 - EPA 5030B [P/T]										
Blank (3A13002-BLK1)				Prepared & Analyzed: 01/13/03						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							O-11
Surrogate: a,a,a-Trifluorotoluene	*9.83*		"	*10.0*		*98.3*	*55-142*			*O-11*
Laboratory Control Sample (3A13002-BS1)				Prepared & Analyzed: 01/13/03						
Benzene	9.86	0.50	ug/l	10.0		98.6	68-140			
Toluene	10.1	0.50	"	10.0		101	76-127			
Ethylbenzene	9.87	0.50	"	10.0		98.7	77-130			
Xylenes (total)	30.7	0.50	"	30.0		102	78-128			
Surrogate: a,a,a-Trifluorotoluene	*10.8*		"	*10.0*		*108*	*55-142*			*O-11*
Laboratory Control Sample (3A13002-BS2)				Prepared & Analyzed: 01/13/03						
Gasoline Range Organics (C6-C10)	228	50	ug/l	250		91.2	62-134			
Surrogate: a,a,a-Trifluorotoluene	*11.0*		"	*10.0*		*110*	*55-142*			*O-11*

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL1004
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/29/03 07:45

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A13002 - EPA 5030B [P/T]										
Laboratory Control Sample Dup (3A13002-BSD1)				Prepared & Analyzed: 01/13/03						
Benzene	10.4	0.50	ug/l	10.0		104	68-140	5.33	30	
Toluene	10.5	0.50	"	10.0		105	76-127	3.88	30	
Ethylbenzene	10.8	0.50	"	10.0		108	77-130	9.00	21	
Xylenes (total)	32.5	0.50	"	30.0		108	78-128	5.70	21	
Surrogate: a,a,a-Trifluorotoluene	*11.0*		"	*10.0*		*110*	*55-142*			*O-11*
Laboratory Control Sample Dup (3A13002-BSD2)				Prepared & Analyzed: 01/13/03						
Gasoline Range Organics (C6-C10)	230	50	ug/l	250		92.0	62-134	0.873	41	
Surrogate: a,a,a-Trifluorotoluene	*11.4*		"	*10.0*		*114*	*55-142*			*O-11*
Batch 3A17002 - EPA 5030B [P/T]										
Blank (3A17002-BLK1)				Prepared & Analyzed: 01/17/03						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*11.1*		"	*10.0*		*111*	*55-142*			
Laboratory Control Sample (3A17002-BS1)				Prepared & Analyzed: 01/17/03						
Benzene	11.0	0.50	ug/l	10.0		110	68-140			
Toluene	11.7	0.50	"	10.0		117	76-127			
Ethylbenzene	12.4	0.50	"	10.0		124	77-130			
Xylenes (total)	37.1	0.50	"	30.0		124	78-128			
Surrogate: a,a,a-Trifluorotoluene	*10.7*		"	*10.0*		*107*	*55-142*			

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL1004
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/29/03 07:45

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A17002 - EPA 5030B [P/T]										
Laboratory Control Sample (3A17002-BS2)				Prepared & Analyzed: 01/17/03						
Gasoline Range Organics (C6-C10)	257	50	ug/l	250		103	62-134			
Surrogate: a,a,a-Trifluorotoluene	*10.3*		"	*10.0*		*103*	*55-142*			
Matrix Spike (3A17002-MS1)		**Source: MMA0088-07**		Prepared & Analyzed: 01/17/03						
Gasoline Range Organics (C6-C10)	481	50	ug/l	550	ND	87.5	62-134			
Benzene	11.0	0.50	"	6.80	ND	162	68-140			QM-07
Toluene	42.0	0.50	"	41.0	ND	102	76-127			
Ethylbenzene	9.81	0.50	"	9.80	ND	100	77-130			
Xylenes (total)	48.4	0.50	"	47.9	ND	101	78-128			
Surrogate: a,a,a-Trifluorotoluene	*10.4*		"	*10.0*		*104*	*55-142*			
Matrix Spike Dup (3A17002-MSD1)		**Source: MMA0088-07**		Prepared & Analyzed: 01/17/03						
Gasoline Range Organics (C6-C10)	467	50	ug/l	550	ND	84.9	62-134	2.95	41	
Benzene	11.7	0.50	"	6.80	ND	172	68-140	6.17	30	QM-07
Toluene	44.0	0.50	"	41.0	ND	107	76-127	4.65	30	
Ethylbenzene	10.5	0.50	"	9.80	ND	107	77-130	6.79	21	
Xylenes (total)	51.5	0.50	"	47.9	ND	108	78-128	6.21	21	
Surrogate: a,a,a-Trifluorotoluene	*11.3*		"	*10.0*		*113*	*55-142*			

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL1004
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/29/03 07:45

Notes and Definitions

HC-12	Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
HC-21	Chromatogram Pattern: Gasoline C6-C10
HT-04	This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
O-11	The continuing calibration standard was outside of the acceptance criteria. This should be considered in evaluating the result for its intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Sequoia Analytical

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2 December, 2002

Scott Robinson
URS Corporation
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #608, San Lorenzo, Ca
Sequoia Work Order: MLK0252

Enclosed are the results of analyses for samples received by the laboratory on 11/07/02 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley

James Hartley For Latonya Pelt
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLK0252
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/02/02 17:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INFL	MLK0252-01	Water	11/07/02 12:35	11/07/02 15:30
MID-1	MLK0252-02	Water	11/07/02 12:30	11/07/02 15:30
MID-2	MLK0252-03	Water	11/07/02 12:25	11/07/02 15:30
EFFL	MLK0252-04	Water	11/07/02 12:20	11/07/02 15:30

There were no custody seals that were received with this project.

Sequoia Analytical

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLK0252
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/02/02 17:58

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (MLK0252-01) Water Sampled: 11/07/02 12:35 Received: 11/07/02 15:30									
Gasoline Range Organics (C6-C10)	**250**	50	ug/l	1	2K20004	11/20/02	11/21/02	8015Bm/8021B	HC-12
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	**10**	0.50	"	"	"	"	"	"	
Ethylbenzene	**0.70**	0.50	"	"	"	"	"	"	
Xylenes (total)	**0.77**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**210**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.9 %*	*55-142*		"	"	"	"	
MID-1 (MLK0252-02) Water Sampled: 11/07/02 12:30 Received: 11/07/02 15:30									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2K21004	11/21/02	11/21/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**100**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*55-142*		"	"	"	"	
MID-2 (MLK0252-03) Water Sampled: 11/07/02 12:25 Received: 11/07/02 15:30									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2K21004	11/21/02	11/21/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*55-142*		"	"	"	"	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLK0252
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/02/02 17:58

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MLK0252-04) Water Sampled: 11/07/02 12:20 Received: 11/07/02 15:30									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2K20003	11/20/02	11/20/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**0.74**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.1 %*	*55-142*		"	"	"	"	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLK0252
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/02/02 17:58

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MLK0252-04) Water Sampled: 11/07/02 12:20 Received: 11/07/02 15:30									
Chemical Oxygen Demand	ND	30	mg/l	1	2K15020	11/14/02	11/15/02	EPA 410.4	
Total Suspended Solids	ND	10	"	"	2K14030	11/08/02	11/14/02	EPA 160.2	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLK0252
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/02/02 17:58

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2K20003 - EPA 5030B [P/T]										
Blank (2K20003-BLK1)				Prepared & Analyzed: 11/20/02						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	0.560	0.50	"							Q-19
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*9.34*		"	*10.0*		*93.4*	*55-142*			
Laboratory Control Sample (2K20003-BS1)				Prepared & Analyzed: 11/20/02						
Benzene	10.5	0.50	ug/l	10.0		105	68-140			
Toluene	11.0	0.50	"	10.0		110	76-127			
Ethylbenzene	11.0	0.50	"	10.0		110	77-130			
Xylenes (total)	32.2	0.50	"	30.0		107	78-128			
Surrogate: a,a,a-Trifluorotoluene	*11.1*		"	*10.0*		*111*	*55-142*			
Laboratory Control Sample (2K20003-BS2)				Prepared & Analyzed: 11/20/02						
Gasoline Range Organics (C6-C10)	236	50	ug/l	250		94.4	62-134			
Surrogate: a,a,a-Trifluorotoluene	*10.8*		"	*10.0*		*108*	*55-142*			
Matrix Spike (2K20003-MS1)	**Source: MLK0249-06**			Prepared & Analyzed: 11/20/02						
Gasoline Range Organics (C6-C10)	488	50	ug/l	550	ND	88.7	62-134			
Benzene	10.3	0.50	"	6.60	ND	156	68-140			QM-07
Toluene	ND	0.50	"	39.7	ND	NR	76-127			QM-07
Ethylbenzene	10.3	0.50	"	9.20	ND	112	77-130			
Xylenes (total)	50.6	0.50	"	46.1	ND	110	78-128			
Surrogate: a,a,a-Trifluorotoluene	*15.4*		"	*10.0*		*154*	*55-142*			*QM-07*
Matrix Spike Dup (2K20003-MSD1)	**Source: MLK0249-06**			Prepared & Analyzed: 11/20/02						
Gasoline Range Organics (C6-C10)	449	50	ug/l	550	ND	81.6	62-134	8.32	41	
Benzene	9.10	0.50	"	6.60	ND	138	68-140	12.4	30	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLK0252
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/02/02 17:58

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2K20003 - EPA 5030B [P/T]										
Matrix Spike Dup (2K20003-MSD1)		**Source: MLK0249-06**		Prepared & Analyzed: 11/20/02						
Toluene	41.0	0.50	ug/l	39.7	ND	103	76-127		30	
Ethylbenzene	9.06	0.50	"	9.20	ND	98.5	77-130	12.8	21	
Xylenes (total)	45.4	0.50	"	46.1	ND	98.5	78-128	10.8	21	
Surrogate: a,a,a-Trifluorotoluene	*12.9*		"	*10.0*		*129*	*55-142*			
Batch 2K20004 - EPA 5030B [P/T]										
Blank (2K20004-BLK1)				Prepared & Analyzed: 11/20/02						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*9.52*		"	*10.0*		*95.2*	*55-142*			
Laboratory Control Sample (2K20004-BS1)				Prepared & Analyzed: 11/20/02						
Benzene	9.94	0.50	ug/l	10.0		99.4	68-140			
Toluene	9.96	0.50	"	10.0		99.6	76-127			
Ethylbenzene	9.62	0.50	"	10.0		96.2	77-130			
Xylenes (total)	30.8	0.50	"	30.0		103	78-128			
Surrogate: a,a,a-Trifluorotoluene	*9.58*		"	*10.0*		*95.8*	*55-142*			
Laboratory Control Sample (2K20004-BS2)				Prepared & Analyzed: 11/20/02						
Gasoline Range Organics (C6-C10)	266	50	ug/l	250		106	62-134			
Surrogate: a,a,a-Trifluorotoluene	*13.9*		"	*10.0*		*139*	*55-142*			

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URS Corporation 500 12th Street, Suite 100 Oakland CA, 94607	Project: ARCO #608, San Lorenzo, Ca Project Number: ARCO #608, San Lorenzo, CA Project Manager: Scott Robinson	MLK0252 **Reported:** 12/02/02 17:58

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2K20004 - EPA 5030B [P/T]										
Matrix Spike (2K20004-MS1)	**Source: MLK0247-02**			Prepared: 11/20/02		Analyzed: 11/21/02				
Gasoline Range Organics (C6-C10)	527	50	ug/l	550	ND	95.8	62-134			
Benzene	6.93	0.50	"	6.60	ND	105	68-140			
Toluene	34.8	0.50	"	39.7	ND	87.7	76-127			
Ethylbenzene	7.30	0.50	"	9.20	ND	79.3	77-130			
Xylenes (total)	37.9	0.50	"	46.1	ND	82.2	78-128			
Surrogate: a,a,a-Trifluorotoluene	*5.35*		"	*10.0*		*53.5*	*55-142*			*QM-07*
Matrix Spike Dup (2K20004-MSD1)	**Source: MLK0247-02**			Prepared: 11/20/02		Analyzed: 11/21/02				
Gasoline Range Organics (C6-C10)	523	50	ug/l	550	ND	95.1	62-134	0.762	41	
Benzene	6.95	0.50	"	6.60	ND	105	68-140	0.288	30	
Toluene	35.2	0.50	"	39.7	ND	88.7	76-127	1.14	30	
Ethylbenzene	7.40	0.50	"	9.20	ND	80.4	77-130	1.36	21	
Xylenes (total)	38.3	0.50	"	46.1	ND	83.1	78-128	1.05	21	
Surrogate: a,a,a-Trifluorotoluene	*5.01*		"	*10.0*		*50.1*	*55-142*			*QM-07*
Batch 2K21004 - EPA 5030B [P/T]										
Blank (2K21004-BLK1)				Prepared & Analyzed: 11/21/02						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*8.33*		"	*10.0*		*83.3*	*55-142*			
Laboratory Control Sample (2K21004-BS1)				Prepared & Analyzed: 11/21/02						
Benzene	10.4	0.50	ug/l	10.0		104	68-140			
Toluene	10.5	0.50	"	10.0		105	76-127			
Ethylbenzene	10.1	0.50	"	10.0		101	77-130			
Xylenes (total)	32.4	0.50	"	30.0		108	78-128			

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLK0252
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/02/02 17:58

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2K21004 - EPA 5030B [P/T]										
Laboratory Control Sample (2K21004-BS1)				Prepared & Analyzed: 11/21/02						
Surrogate: a,a,a-Trifluorotoluene	*8.74*		*ug/l*	*10.0*		*87.4*	*55-142*			
Laboratory Control Sample (2K21004-BS2)				Prepared & Analyzed: 11/21/02						
Gasoline Range Organics (C6-C10)	269	50	ug/l	250		108	62-134			
Surrogate: a,a,a-Trifluorotoluene	*12.7*		"	*10.0*		*127*	*55-142*			
Matrix Spike (2K21004-MS1)		**Source: MLK0393-02**		Prepared: 11/21/02		Analyzed: 11/22/02				
Gasoline Range Organics (C6-C10)	922	50	ug/l	550	ND	168	62-134			QM-07
Benzene	13.6	0.50	"	6.60	ND	206	68-140			QM-07
Toluene	85.3	0.50	"	39.7	ND	215	76-127			QM-07
Ethylbenzene	18.8	0.50	"	9.20	ND	204	77-130			QM-07
Xylenes (total)	99.1	0.50	"	46.1	ND	215	78-128			QM-07
Surrogate: a,a,a-Trifluorotoluene	*6.23*		"	*10.0*		*62.3*	*55-142*			
Matrix Spike Dup (2K21004-MSD1)		**Source: MLK0393-02**		Prepared: 11/21/02		Analyzed: 11/27/02				
Gasoline Range Organics (C6-C10)	451	50	ug/l	550	ND	82.0	62-134	68.6	41	QR-07
Benzene	7.80	0.50	"	6.60	ND	118	68-140	54.2	30	QR-07
Toluene	38.9	0.50	"	39.7	ND	97.8	76-127	74.7	30	QR-07
Ethylbenzene	8.17	0.50	"	9.20	ND	88.8	77-130	78.8	21	QR-07
Xylenes (total)	42.6	0.50	"	46.1	ND	92.4	78-128	79.7	21	QR-07
Surrogate: a,a,a-Trifluorotoluene	*6.60*		"	*10.0*		*66.0*	*55-142*			

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLK0252
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/02/02 17:58

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2K14030 - General Preparation										
Blank (2K14030-BLK1)				Prepared: 11/08/02 Analyzed: 11/14/02						
Total Suspended Solids	ND	10	mg/l							
Duplicate (2K14030-DUP1)		**Source: MLK0236-01**		Prepared: 11/08/02 Analyzed: 11/14/02						
Total Suspended Solids	36.7	10	mg/l		35			4.74	20	
Batch 2K15020 - General Preparation										
Blank (2K15020-BLK1)				Prepared: 11/14/02 Analyzed: 11/15/02						
Chemical Oxygen Demand	ND	30	mg/l							
Laboratory Control Sample (2K15020-BS1)				Prepared: 11/14/02 Analyzed: 11/15/02						
Chemical Oxygen Demand	91.7	30	mg/l	100		91.7	80-124			
Matrix Spike (2K15020-MS1)		**Source: MLK0252-04**		Prepared: 11/14/02 Analyzed: 11/15/02						
Chemical Oxygen Demand	76.4	30	mg/l	100	ND	76.4	80-124			QM-07
Matrix Spike Dup (2K15020-MSD1)		**Source: MLK0252-04**		Prepared: 11/14/02 Analyzed: 11/15/02						
Chemical Oxygen Demand	80.1	30	mg/l	100	ND	80.1	80-124	4.73	23	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLK0252
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/02/02 17:58

Notes and Definitions

HC-12	Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
Q-19	The method blank contains this analyte at a concentration above the method reporting limit. This should be considered in evaluating the data for its intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-07	The RPD was outside control limits. The results may still be useful for their intended purpose.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Sequoia Analytical

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24 December, 2002

Scott Robinson
URS Corporation
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #608, San Lorenzo, Ca
Sequoia Work Order: MLL0257

Enclosed are the results of analyses for samples received by the laboratory on 12/05/02 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL0257
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/24/02 16:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INFL	MLL0257-01	Water	12/05/02 12:00	12/05/02 16:15
MID-1	MLL0257-02	Water	12/05/02 12:05	12/05/02 16:15
MID-2	MLL0257-03	Water	12/05/02 12:10	12/05/02 16:15
EFFL	MLL0257-04	Water	12/05/02 12:15	12/05/02 16:15

There were no custody seals that were received with this project.

Sequoia Analytical

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL0257
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/24/02 16:01

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MLL0257-04) Water Sampled: 12/05/02 12:15 Received: 12/05/02 16:15									
Chemical Oxygen Demand	ND	30	mg/l	1	2L09025	12/09/02	12/09/02	EPA 410.4	
Total Suspended Solids	ND	10	"	"	2L12019	12/11/02	12/12/02	EPA 160.2	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL0257
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/24/02 16:01

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (MLL0257-01) Water Sampled: 12/05/02 12:00 Received: 12/05/02 16:15									**HT-04**
Purgeable Hydrocarbons	**220**	100	ug/l	2	2120358	12/23/02	12/23/02	DHS LUFT	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**110**	4.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89 %*	*60-140*		"	"	"	"	
MID-1 (MLL0257-02) Water Sampled: 12/05/02 12:05 Received: 12/05/02 16:15									**HT-04**
Purgeable Hydrocarbons	ND	50	ug/l	1	2120358	12/21/02	12/21/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**51**	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96 %*	*60-140*		"	"	"	"	
MID-2 (MLL0257-03) Water Sampled: 12/05/02 12:10 Received: 12/05/02 16:15									**HT-04**
Purgeable Hydrocarbons	ND	50	ug/l	1	2120358	12/21/02	12/21/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95 %*	*60-140*		"	"	"	"	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL0257
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/24/02 16:01

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MLL0257-04) Water Sampled: 12/05/02 12:15 Received: 12/05/02 16:15									**HT-04**
Purgeable Hydrocarbons	ND	50	ug/l	1	2120358	12/21/02	12/21/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95 %*	*60-140*		"	"	"	"	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL0257
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/24/02 16:01

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2L09025 - General Preparation										
Blank (2L09025-BLK1)				Prepared & Analyzed: 12/09/02						
Chemical Oxygen Demand	ND	30	mg/l							
Laboratory Control Sample (2L09025-BS1)				Prepared & Analyzed: 12/09/02						
Chemical Oxygen Demand	86.3	30	mg/l	100		86.3	80-124			
Matrix Spike (2L09025-MS1)		**Source: MLL0257-04**		Prepared & Analyzed: 12/09/02						
Chemical Oxygen Demand	72.2	30	mg/l	100	ND	72.2	80-124			QM-07
Matrix Spike Dup (2L09025-MSD1)		**Source: MLL0257-04**		Prepared & Analyzed: 12/09/02						
Chemical Oxygen Demand	77.3	30	mg/l	100	ND	77.3	80-124	6.82	23	QM-07
Batch 2L12019 - General Preparation										
Blank (2L12019-BLK1)				Prepared: 12/11/02 Analyzed: 12/12/02						
Total Suspended Solids	ND	10	mg/l							
Duplicate (2L12019-DUP1)		**Source: MLL0298-11**		Prepared: 12/11/02 Analyzed: 12/12/02						
Total Suspended Solids	24.0	10	mg/l		23			4.26	20	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL0257
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/24/02 16:01

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120358 - EPA 5030B (P/T)										
Blank (2120358-BLK1)				Prepared & Analyzed: 12/21/02						
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: a,a,a-Trifluorotoluene	*9.54*		"	*10.0*		*95*	*60-140*			
Blank (2120358-BLK2)				Prepared & Analyzed: 12/23/02						
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: a,a,a-Trifluorotoluene	*9.70*		"	*10.0*		*97*	*60-140*			
Laboratory Control Sample (2120358-BS1)				Prepared & Analyzed: 12/21/02						
Benzene	9.04	0.50	ug/l	10.0		90	70-130			
Toluene	8.82	0.50	"	10.0		88	70-130			
Ethylbenzene	9.08	0.50	"	10.0		91	70-130			
Xylenes (total)	26.2	0.50	"	30.0		87	70-130			
Methyl tert-butyl ether	9.96	2.0	"	10.0		100	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.38*		"	*10.0*		*94*	*60-140*			
Laboratory Control Sample (2120358-BS2)				Prepared & Analyzed: 12/23/02						
Benzene	9.52	0.50	ug/l	10.0		95	70-130			
Toluene	9.41	0.50	"	10.0		94	70-130			
Ethylbenzene	9.49	0.50	"	10.0		95	70-130			
Xylenes (total)	28.8	0.50	"	30.0		96	70-130			
Methyl tert-butyl ether	9.82	2.0	"	10.0		98	70-130			

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL0257
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/24/02 16:01

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120358 - EPA 5030B (P/T)										
Laboratory Control Sample (2120358-BS2)				Prepared & Analyzed: 12/23/02						
Surrogate: a,a,a-Trifluorotoluene	*10.2*		*ug/l*	*10.0*		*102*	*60-140*			

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MLL0257
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/24/02 16:01

Notes and Definitions

HT-04	This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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27 January, 2003

Scott Robinson
URS Corporation
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #608, San Lorenzo, Ca
Sequoia Work Order: MMA0051

Enclosed are the results of analyses for samples received by the laboratory on 01/03/03 19:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MMA0051
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/27/03 10:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INFL	MMA0051-01	Water	01/03/03 12:30	01/03/03 19:00
MID-1	MMA0051-02	Water	01/03/03 12:25	01/03/03 19:00
MID-2	MMA0051-03	Water	01/03/03 12:20	01/03/03 19:00
EFFL	MMA0051-04	Water	01/03/03 12:15	01/03/03 19:00

There were no custody seals that were received with this project.

Sequoia Analytical

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MMA0051
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/27/03 10:40

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (MMA0051-01) Water Sampled: 01/03/03 12:30 Received: 01/03/03 19:00									**HT-04**
Gasoline Range Organics (C6-C10)	**170**	100	ug/l	2	3A19002	01/19/03	01/19/03	8015Bm/8021B	HC-12
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**140**	5.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*55-142*		"	"	"	"	
MID-1 (MMA0051-02) Water Sampled: 01/03/03 12:25 Received: 01/03/03 19:00									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A15002	01/15/03	01/15/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**66**	2.5	"	"	"	"	"	"	A-01
Surrogate: a,a,a-Trifluorotoluene		*92.3 %*	*55-142*		"	"	"	"	
MID-2 (MMA0051-03) Water Sampled: 01/03/03 12:20 Received: 01/03/03 19:00									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A15002	01/15/03	01/15/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.4 %*	*55-142*		"	"	"	"	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MMA0051
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/27/03 10:40

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MMA0051-04) Water Sampled: 01/03/03 12:15 Received: 01/03/03 19:00									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A15002	01/15/03	01/15/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.9 %*		*55-142*	"	"	"	"	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MMA0051
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/27/03 10:40

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MMA0051-04) Water Sampled: 01/03/03 12:15 Received: 01/03/03 19:00									
Chemical Oxygen Demand	ND	30	mg/l	1	3A08025	01/08/03	01/08/03	EPA 410.4	
Total Suspended Solids	ND	10	"	"	3A11007	01/07/03	01/08/03	EPA 160.2	

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MMA0051
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/27/03 10:40

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A15002 - EPA 5030B [P/T]										
Blank (3A15002-BLK1)				Prepared & Analyzed: 01/15/03						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*9.73*		"	*10.0*		*97.3*	*55-142*			
Laboratory Control Sample (3A15002-BS1)				Prepared & Analyzed: 01/15/03						
Benzene	10.6	0.50	ug/l	10.0		106	68-140			
Toluene	10.8	0.50	"	10.0		108	76-127			
Ethylbenzene	11.2	0.50	"	10.0		112	77-130			
Xylenes (total)	33.5	0.50	"	30.0		112	78-128			
Surrogate: a,a,a-Trifluorotoluene	*9.73*		"	*10.0*		*97.3*	*55-142*			
Laboratory Control Sample (3A15002-BS2)				Prepared & Analyzed: 01/15/03						
Gasoline Range Organics (C6-C10)	243	50	ug/l	250		97.2	62-134			
Surrogate: a,a,a-Trifluorotoluene	*10.5*		"	*10.0*		*105*	*55-142*			
Matrix Spike (3A15002-MS1)		**Source: MMA0051-03**		Prepared & Analyzed: 01/15/03						
Gasoline Range Organics (C6-C10)	424	50	ug/l	550	ND	77.1	62-134			
Benzene	11.8	0.50	"	6.80	ND	174	68-140			QM-07
Toluene	44.2	0.50	"	41.0	ND	108	76-127			
Ethylbenzene	10.5	0.50	"	9.80	ND	107	77-130			
Xylenes (total)	51.3	0.50	"	47.9	ND	107	78-128			
Surrogate: a,a,a-Trifluorotoluene	*12.5*		"	*10.0*		*125*	*55-142*			
Matrix Spike Dup (3A15002-MSD1)		**Source: MMA0051-03**		Prepared & Analyzed: 01/15/03						
Gasoline Range Organics (C6-C10)	369	50	ug/l	550	ND	67.1	62-134	13.9	41	
Benzene	9.95	0.50	"	6.80	ND	146	68-140	17.0	30	QM-07

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MMA0051
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/27/03 10:40

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A15002 - EPA 5030B [P/T]										
Matrix Spike Dup (3A15002-MSD1)		**Source: MMA0051-03**		Prepared & Analyzed: 01/15/03						
Toluene	37.7	0.50	ug/l	41.0	ND	92.0	76-127	15.9	30	
Ethylbenzene	8.99	0.50	"	9.80	ND	91.7	77-130	15.5	21	
Xylenes (total)	44.0	0.50	"	47.9	ND	91.9	78-128	15.3	21	
Surrogate: a,a,a-Trifluorotoluene	*11.5*		"	*10.0*		*115*	*55-142*			
Batch 3A19002 - EPA 5030B [P/T]										
Blank (3A19002-BLK1)				Prepared & Analyzed: 01/19/03						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*9.47*		"	*10.0*		*94.7*	*55-142*			
Laboratory Control Sample (3A19002-BS1)				Prepared & Analyzed: 01/19/03						
Benzene	9.50	0.50	ug/l	10.0		95.0	68-140			
Toluene	9.86	0.50	"	10.0		98.6	76-127			
Ethylbenzene	9.47	0.50	"	10.0		94.7	77-130			
Xylenes (total)	29.5	0.50	"	30.0		98.3	78-128			
Surrogate: a,a,a-Trifluorotoluene	*9.54*		"	*10.0*		*95.4*	*55-142*			
Laboratory Control Sample (3A19002-BS2)				Prepared & Analyzed: 01/19/03						
Gasoline Range Organics (C6-C10)	236	50	ug/l	250		94.4	62-134			
Surrogate: a,a,a-Trifluorotoluene	*9.41*		"	*10.0*		*94.1*	*55-142*			

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MMA0051
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/27/03 10:40

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A19002 - EPA 5030B [P/T]										
Matrix Spike (3A19002-MS1)		**Source: MMA0056-02**		Prepared & Analyzed: 01/19/03						
Gasoline Range Organics (C6-C10)	493	50	ug/l	550	ND	83.6	62-134			
Benzene	10.0	0.50	"	6.80	ND	146	68-140			QM-07
Toluene	36.8	0.50	"	41.0	0.55	88.4	76-127			
Ethylbenzene	8.52	0.50	"	9.80	0.51	81.7	77-130			
Xylenes (total)	45.6	0.50	"	47.9	1.8	91.4	78-128			
Surrogate: a,a,a-Trifluorotoluene	*8.75*		"	*10.0*		*87.5*	*55-142*			
Matrix Spike Dup (3A19002-MSD1)		**Source: MMA0056-02**		Prepared & Analyzed: 01/19/03						
Gasoline Range Organics (C6-C10)	504	50	ug/l	550	ND	85.6	62-134	2.21	41	
Benzene	10.5	0.50	"	6.80	ND	153	68-140	4.88	30	QM-07
Toluene	38.2	0.50	"	41.0	0.55	91.8	76-127	3.73	30	
Ethylbenzene	8.89	0.50	"	9.80	0.51	85.5	77-130	4.25	21	
Xylenes (total)	47.5	0.50	"	47.9	1.8	95.4	78-128	4.08	21	
Surrogate: a,a,a-Trifluorotoluene	*8.98*		"	*10.0*		*89.8*	*55-142*			

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URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MMA0051
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/27/03 10:40

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A08025 - General Preparation										
Blank (3A08025-BLK1)				Prepared & Analyzed: 01/08/03						
Chemical Oxygen Demand	ND	30	mg/l							
Laboratory Control Sample (3A08025-BS1)				Prepared & Analyzed: 01/08/03						
Chemical Oxygen Demand	87.3	30	mg/l	100		87.3	80-124			
Matrix Spike (3A08025-MS1)		**Source: MMA0051-04**		Prepared & Analyzed: 01/08/03						
Chemical Oxygen Demand	94.1	30	mg/l	100	ND	94.1	80-124			
Matrix Spike Dup (3A08025-MSD1)		**Source: MMA0051-04**		Prepared & Analyzed: 01/08/03						
Chemical Oxygen Demand	94.4	30	mg/l	100	ND	94.4	80-124	0.318	23	
Batch 3A11007 - General Preparation										
Blank (3A11007-BLK1)				Prepared: 01/07/03 Analyzed: 01/08/03						
Total Suspended Solids	ND	10	mg/l							
Duplicate (3A11007-DUP1)		**Source: MMA0050-13**		Prepared: 01/07/03 Analyzed: 01/08/03						
Total Suspended Solids	133	10	mg/l		120			10.3	20	

Sequoia Analytical

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

URS Corporation	Project: ARCO #608, San Lorenzo, Ca	MMA0051
500 12th Street, Suite 100	Project Number: ARCO #608, San Lorenzo, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	01/27/03 10:40

Notes and Definitions

A-01	MTBE result for this sample was not confirmed using a secondary column in accordance to client contract.
HC-12	Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
HT-04	This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

On-site Time: 0900	Temp: 58.7
Off-site Time: 1540	Temp: 62.9
Sky Conditions: Cloudy, Rain	
Meteorological Events: Rain	
Wind Speed:	Direction:

Project Name 02230-NT1
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Requested Due Date (mm/dd/yy)

Date: 12-30-02

nd To:	
b Name: SEQUOIA	
b Address: 885 Jarvis Dr. Morgan Hill, CA 95037	
b PM: Latonya Pelt	
le/Fax: 408-776-9600 / 408-782-6308	
port Type & QC Level: Send EDF Reports	
P/GEM Account No.:	
b Bottle Order No:	

BP/GEM Facility No.:	
BP/GEM Facility Address:	17601 HESPERIAN BL, SAN LORENZO, CA
Site ID No.	ARCO 608
Site Lat/Long:	
California Global ID #:	T0600100085
BP/GEM PM Contact:	PAUL SUPPLE
Address:	
Tele/Fax:	

Consultant/Contractor:	URS
Address:	500 12th St., Ste. 200 Oakland, CA 94609-4014
e-mail EDD:	syed_rehan@urscorp.com
Consultant/Contractor Project No.:	J5-00000608.01 00427
Consultant Tele/Fax:	510-874-1735/510-874-3268
Consultant/Contractor PM:	Scott Robinson
Invoice to:	Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Work Release No:	INTRIM -50715

em No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015 / 8021)	Requested Analysis: TPH –D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Sample Point Lat/Long and Comments
1	642 H	1010		X				3				X	X		X			"Confirm all MTBE
2	17372 VM	1010		X				3				X	X		X			Hits at 642 H
3	MW-5	1415		X				3				X	X		X			& 17372 VM."
4	MW-8	1455		X				3				X	X		X			
5	MW-9	1350		X				3				X	X		X			
6	MW-10	1525		X				3				X	X		X			
7	MW-11	1325		X				3				X	X		X			
8	MW-15	1305		X				3				X	X		X			
9	MW-22	1240		X				3				X	X		X			
10	MW-25	1405		X				3				X	X		X			

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
ampler's Name: Michael Toll						
ampler's Company: Blaine Tech Services	Mike Toll / BTS					
hipment Date:						
hipment Method:						
hipment 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 ___

Chain of Custody Record

Project Name 021230-MT1
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Requested Due Date (mm/dd/yy)

Date: 12-30-02

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

End To:	
Lab Name:	SEQUOIA
Lab Address:	885 Jarvis Dr. Morgan Hill, CA 95037
Lab PM:	Latonya Pelt
Tele/Fax:	408-776-9600 / 408-782-6308
Report Type & QC Level:	Send EDF Reports
BP/GEM Account No.:	

BP/GEM Facility No.:	
BP/GEM Facility Address:	17601 HESPERIAN BL, SAN LORENZO, CA
Site ID No.	ARCO 608
Site Lat/Long:	
California Global ID #:	T0600100085
BP/GEM PM Contact:	PAUL SUPPLE
Address:	
Tele/Fax:	

Consultant/Contractor:	URS
Address:	500 12th St., Ste. 200 Oakland, CA 94609-4014
e-mail EDD:	syed_rehan@urscorp.com
Consultant/Contractor Project No.:	J5-00000608.01 00427
Consultant Tele/Fax:	510-874-1735/510-874-3268
Consultant/Contractor PM:	Scott Robinson
Invoice to:	Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Work Release No:	INTRIM -50715

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015 / 8021)	Requested Analysis: TPH -D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Sample Point Lat/Long and Comments
1	~~[illegible]~~			X				3				X	X		X	X		
2	E-1A			X				3				X	X		X			
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name:	Michael Toll
Sampler's Company:	BlaineTech Services
Shipment Date:	
Shipment Method:	
Shipment Tracking No:	

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Toll / BTS					

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___

Chain of Custody Record

Project Name: 22230-VM1
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Requested Due Date (mm/dd/yy):
ML4004

Date: 12-30-02

On-site: Time: 0900	Temp: 58.7
Off- site: Time: 1540	Temp: 62.9
Sky Conditions: Cloudy, Rain	
Meteorological Events: Rain	
Wind Speed:	Direction:

Send To:	
Lab Name: SEQUOIA	
Lab Address: 885 Jarvis Dr.	
Morgan Hill, CA 95037	
Lab PM: Latonya Pelt	
Tele/Fax: 408-776-9600 / 408-782-6308	
Report Type & QC Level: Send EDF Reports	
BP/GEM Account No.:	
Lab Bottle Order No:	

BP/GEM Facility No.:	
BP/GEM Facility Address:	17601 HESPERIAN BL, SAN LORENZO, CA
Site ID No.	ARCO 608
Site Lat/Long:	
California Global ID #:	T0600100085
BP/GEM PM Contact:	PAUL SUPPLE
Address:	
Tele/Fax:	

Consultant/Contractor:	URS
Address:	500 12th St., Ste. 200
	Oakland, CA 94609-4014
e-mail EDD:	syed_rehan@urscorp.com
Consultant/Contractor Project No.:	25-00000608.01 00427
Consultant Tele/Fax:	510-874-1735/510-874-3268
Consultant/Contractor PM:	Scott Robinson
Invoice to:	Consultant/Contractor or (BP/GEM) (Circle one)
BP/GEM Work Release No:	INTERIM -50715

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015 / 8021)	Requested Analysis: TPH-D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Sample Point Lat/Long and Comments
1	MW-4	0910		X			01	3				X	X		X			"Confirm all MTBE Hits at 642 ft & 17372 VM."
2	17372 VM	1010		X			02	3				X	X		X			
3	MW-5	1415		X			03	3				X	X		X			
4	MW-8	1455		X			04	3				X	X		X			
5	MW-9	1350		X			05	3				X	X		X			
6	MW-10	[illegible]		X			06	3				X	X		X			
7	MW-11	1325		X			07	3				X	X		X			
8	MW-15	1305		X			08	3				X	X		X			
9	MW-22	1240		X			09	3				X	X		X			
10	MW-25	1405		X			10	3				X	X		X			

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Michael Dill		12/30/02	1050		12/30/02	1050
Sampler's Company: Blaine Tech Services		12/30/02	1145		12/31/02	1145
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 5 °F/C Trip Blank Yes ___ No ✓

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

BP COC Rev. 1 2/5/02

Chain of Custody Record

Project Name 021230-MT1
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number: 111004
Requested Due Date (mm/dd/yy)
Date: 12-30-02

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

Send To:	
Lab Name:	SEQUOIA
Lab Address:	885 Jarvis Dr. Morgan Hill, CA 95037
Lab PM:	Latonya Pelt
Tele/Fax:	408-776-9600 / 408-782-6308
Report Type & QC Level:	Send EDF Reports
BP/GEM Account No.:	

BP/GEM Facility No.:	
BP/GEM Facility Address:	17601 HESPERIAN BL, SAN LORENZO, CA
Site ID No.	ARCO 608
Site Lat/Long:	
California Global ID #:	T0600100085
BP/GEM PM Contact:	PAUL SUPPLE
Address:	
Tele/Fax:	

Consultant/Contractor:	URS
Address:	500 12th St., Ste. 200 Oakland, CA 94609-4014
e-mail EDD:	syed_rehan@urscorp.com
Consultant/Contractor Project No.:	JS-00000608.01 00427
Consultant Tele/Fax:	510-874-1735/510-874-3268
Consultant/Contractor PM:	Scott Robinson
Invoice to:	Consultant/Contractor or BP/GEM (circle one)
BP/GEM Work Release No:	INTRIM -50715

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015 / 8021)	Requested Analysis: TPH-D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Sample Point Lat/Long and Comments
1	~~Effluent Water~~			X				3				X	X		X	X		
2 ✓	E-1A	1010		X			11	3				X	X		X			
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name:	Michael Toll	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	BlaineTech Services	Toll / BTS	12/30/02	1050		12/30/02	1050
Shipment Date:			12/31/02	1142		1/2/03	1145
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 ✓

A5

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT): [illegible]
WORKORDER: 112004

DATE Received at Lab: 12/31/02
TIME Received at Lab: 1645
LOG IN DATE: 12-31-02

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*	1		6427	(3) Voas HCl	(L)	12/30/02	
2. Chain-of-Custody	Present / Absent*	2		7372 VM				
3. Traffic Reports or Packing List:	Present / Absent	3		MW-5				
4. Airbill:	Airbill / Sticker Present / Absent	4		MW-8				
		5		MW-9				
		6		MW-10				
		7		MW-11				
5. Airbill #:		8		MW-15				
6. Sample Labels:	Present / Absent	9		MW-22				
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody	10		MW-25				
		11		[illegible]				
8. Sample Condition:	Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	(Yes) / No*							
10. Sample received within hold time:	Yes / No*						12/31/02	
11. Proper Preservatives used:	(Yes) / No*							
12. Temp Rec. at Lab:	7°C							
(Acceptance range for samples requiring thermal pres.:4+/-2°C)	(Yes) / No**							
**Exception (if any):								

*If Circled, contact Project Manager and attach record of resolution.

Chain of Custody Record

On-site Time:	1200 Temp: 60
Off-site Time:	1300 Temp: 60
Sky Conditions:	Clear
Meteorological Events:	Rainy
Wind Speed:	10 mph Direction:

Project Name Station 608 -18501 Hesparian Blvd, San Lorenzo, CA
Business Unit Atlantic Richfield Company/Northern CA Portfolio
BP Laboratory Contract Number: 4 6 1 0 0 0

Date: 11/7/02

Requested Due Date:
(mm/dd/yy - 2 weeks from sampling date) MLK 0252

Send To:	BP/GEM Facility No.: Station 608	Consultant: URS Oakland
Lab Name: Sequoia Analytical	BP/GEM Facility Address: 18501 Hesparian Blvd, San Lorenzo, CA	Address: 500 12th Street, #200
Lab Address: 885 Jarvis Drive	Site ID No, Station 608	Oakland, CA 94607
Morgan Hill, CA 95037	California Global ID #:T0600101665	e-mail EDD: Scott Robinson@URSCorp.com
	BP/GEM PM Contact: Paul Supplo	Consultant Project No.: 35-00000608.01
Lab PM: Latonya Pelt	Address: P.O. Box 6549, Moraga, CA 94570	Consultant Tele/Fax: 510-874-3280/510-874-3268
Tele/Fax: 408-782-8154/408-782-6308	Tele/Fax: 925-299-8891/925-299-8872	Consultant PM: Scott Robinson
Report Type & QC Level: Normal		Invoice to: Atlantic Richfield Company
BP/GEM Account No.:		BP/GEM Work Release No:

Item No.	Field Point ID	Sample ID	Time	Matrix: Soil/Solid	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl			Requested Analysis: TPH-g (8015)	BTEX (8021)	MTBE (8021)	COD	TSS					Sample Point Lat/Long and Comments
1	INFL	INFL	1235		X			01	3				X			X	X	X							
2	MID-1	MID-1	1230		X			02	3				X			X	X	X							
3	MID-2	MID-2	1225		X			03	3				X			X	X	X							
4	EFFL	EFFL	1220		X			04	7	X	X		X			X	X	X	X	X					
5																									
6																									
7																									
8																									
9																									
10																									

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:		11/7/02	1530	Michael Gorin/SAL	11/7/02	1530
Sampler's Company: URS Oakland	Michael Gorin URS	11/7/02		Sequoia	11-7-	1830
Shipment Date:		11/7	2020	Cinnabar Express	11-7-02	2020
Shipment Method: Hand Deliver						
Shipment Tracking No:						

Special Instructions: COD = Chemical Oxygen Demand (3 VOS's w/ H2SO4), TSS = Total Suspended Solids (1 Liter poly unpreserved)

Custody Seals In Place Yes No x Temperature Blank Yes No x Cooler Temperature on Receipt 3.8 °F/C Trip Blank Yes No x

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT): AJ
WORKORDER: MLK0252

DATE Received at Lab: 11-7-02
TIME Received at Lab: 2020
LOG IN DATE: 11-9-02

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent (circled Absent)	1		INFL	(3) VOAs HCl	L	11-7-02	Lot B 2149040
	Intact / Broken*	2		MID-1	↓	↓	↓	↓
2. Chain-of-Custody	Present / Absent* (circled Present)	3		MID-2	↓			
3. Traffic Reports or		4		EFFL	(3) VOAs HCl			
Packing List:	Present / Absent (circled Absent)	↓		↓	(1) L Poly	↓	↓	↓
4. Airbill:	Airbill / Sticker				3 VOAs H2SO4			
	Present / Absent (circled Absent)							
5. Airbill #:	—							
6. Sample Labels:	Present / Absent (circled Present)							
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody (circled Listed)							
8. Sample Condition:	Intact / Broken* / Leaking* (circled Intact)							
9. Does information on custody reports, traffic reports and sample labels agree?	Yes / No* (circled Yes)							
10. Sample received within hold time:	Yes / No* (circled Yes)							
11. Proper Preservatives used:	Yes / No* (circled Yes)							
12. Temp Rec. at Lab:	3.8°C							
(Acceptance range for samples requiring thermal pres.: 4+/-2°C)	Yes / No** (circled Yes)							
**Exception (if any):								

11-7-02 AJ

*If Circled, contact Project Manager and attach record of resolution.

Chain of Custody Record

Project Name Station 608 -18501 Hesparian Blvd, San Lorenzo, CA
Business Unit Atlantic Richfield Company/Northern CA Portfolio
BP Laboratory Contract Number: 4 6 1 0 0 0

Date: 12/5/02

Requested Due Date:
(mm/dd/yy - 2 weeks from sampling date)

On-site Time:	0800	Temp:	58
Off-site Time:	1300	Temp:	64
Sky Conditions:	Cloudy		
Meteorological Events:	None		
Wind Speed:	n/a	Direction:	n/a

Send To:	BP/GEM Facility No.: Station 608	Consultant: URS Oakland
Lab Name: Sequoia Analytical	BP/GEM Facility Address: 18501 Hesparian Blvd, San Lorenzo, CA	Address: 500 12th Street, #200
Lab Address: 885 Jarvis Drive	Site ID No. Station 608	Oakland, CA 94607
Morgan Hill, CA 95037	California Global ID #:T0600101665	e-mail EDD: Scott Robinson@URSCorp.com
	BP/GEM PM Contact: Paul Supple	Consultant Project No.: 38465883.00327
Lab PM: Latonya Pelt	Address: P.O. Box 6549, Moraga, CA 94570 MLL 0257	Consultant Tele/Fax: 510-874-3280/510-874-3268
Tele/Fax: 408-782-8154/408-782-6308	Tele/Fax: 925-299-8891/925-299-8872	Consultant PM: Scott Robinson
Report Type & QC Level: Normal		Invoice to: Atlantic Richfield Company
BP/GEM Account No.:		BP/GEM Work Release No:

Lab Bottle Order No.

Item No.	Field Point ID	Sample ID	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Preservatives:	Preservatives:	Requested Analysis: TPH-g (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: BTEX (8021)	Requested Analysis: COD	Requested Analysis: TSS	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Sample Point Lat/Long and Comments
1	INFL	INFL	1200		X			01	3				X			X	X	X							
2	MID-1	MID-1	1205		X			02	3				X			X	X	X							
3	MID-2	MID-2	1210		X			03	3				X			X	X	X							
4	EFFL	EFFL	1215		X			04	7	X	X		X			X	X	X	X	X					
5																									
6																									
7																									
8																									
9																									
10																									

Sampler's Name: George Beaushaw	Relinquished By/Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: URS Oakland		12/5/02	1615	Monica Gregson SeqSAC	12/5/02	1665
Shipment Date:	Monica Gregson SeqSAC	12/5/02			12-6-	1015
Shipment Method: Hand Deliver					12-6-	1710
Shipment Tracking No:	UPS	12/6	2:30		12/6/02	2030

Special Instructions: COD = Chemical Oxygen Demand (3 VOS's w/ H2SO4), TSS = Total Suspended Solids (1 Liter poly unpreserved)

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

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT): TL
WORKORDER: ML0257

DATE Received at Lab: 12/6/02
TIME Received at Lab: 2030
LOG IN DATE: 12-7-02

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*	1		Trip	(3) Voas HCl	(W)	12/5/02	22/0660
2. Chain-of-Custody	Present / Absent*	2		Mw1	↓	↓	↓	↓
3. Traffic Reports or Packing List	Present / Absent	3		Mw2				
4. Airbill:	Airbill / Sticker Present / Absent	4		Trip	(3) Voas HCl			
				↓	(3) Voas H2SO4			
				↓	(1) 1L Polymer	↓	↓	
5. Airbill #:								
6. Sample Labels:	Present / Absent							
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody							
8. Sample Condition:	Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	Yes / No*							
10. Sample received within hold time:	Yes / No*							
11. Proper Preservatives used:	Yes / No*							
12. Temp Rec. at Lab: 5°C (Acceptance range for samples requiring thermal pres.:4+/-2°C) **Exception (if any):	Yes / No**							

*If Circled, contact Project Manager and attach record of resolution.

MMA 0051

Chain of Custody Record

Project Name Station 608 -18501 Hesperian Blvd, San Lorenzo, CA
Business Unit Atlantic Richfield Company/Northern CA Portfolio
BP Laboratory Contract Number: 4 6 1 0 0 0

Date: 1/3/03
Requested Due Date: 01/17/03
(mm/dd/yy - 2 weeks from sampling date)

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

Send To:	BP/GEM Facility No.: Station 608	Consultant: URS Oakland
Lab Name: Sequoia Analytical	BP/GEM Facility Address: 18501 Hesperian Blvd, San Lorenzo, CA	Address: 500 12th Street, #200
Lab Address: 885 Jarvis Drive	Site ID No. Station 608	Oakland, CA 94607
Morgan Hill, CA 95037	California Global ID #:T0600101665	e-mail EDD: Scott.Robinson@URSCorp.com
	BP/GEM PM Contact: Paul Supple	Consultant Project No.: 25-00000608.01
Lab PM: Latonya Pelt	Address: P.O. Box 6549, Moraga, CA 94570	Consultant Tele/Fax: 510-874-3280/510-874-3268
Tele/Fax: 408-782-8154/408-782-6308	Tele/Fax: 925-299-8891/925-299-8872	Consultant PM: Scott Robinson
Report Type & QC Level: Normal		Invoice to: Atlantic Richfield Company
BP/GEM Account No.:		BP/GEM Work Release No:

Lab Bottle Order No:

Item No.	Field Point ID	Sample ID	Time	Matrix: Soil/Solid	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl			Requested Analysis: TPH-g (8015)	BTEX (8021)	MTBE (8021)	COD	TSS						Sample Point Lat/Long and Comments
1	INFL	INFL	1230		X		✓	01	3				X			X	X	X								
2	MID-1	MID-1	1225		X		✓	02	3				X			X	X	X								
3	MID-2	MID-2	1220		X		✓	03	3				X			X	X	X								
4	EFFL	EFFL	1215		X		✓	04	5		X		X			X	X	X	X	X						
5																										
6																										
7																										
8																										
9																										
10																										

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: George Bastian						
Sampler's Company: URS Oakland		1/3/03	1445		1/3/03	1445
Shipment Date:		1/3/03			1/3/3	1630
Shipment Method: Hand Deliver		1/3/03	1900		1/3	1900
Shipment Tracking No:						

Special Instructions: COD = Chemical Oxygen Demand (3 VOS's w/ H2SO4), TSS = Total Suspended Solids (1 Liter poly unpreserved)

Seals In Place Yes ___ No x Temperature Blank Yes ___ No x Cooler Temperature on Receipt 3 °F/C Trip Blank Yes ___ No x

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT): HT
WORKORDER: MMA0051

DATE Received at Lab: 1/3/03
TIME Received at Lab: 1700
LOG IN DATE: 1-6-02

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / (Absent)	01		INFL	3 voa (HCl)	L	1/3/03	(otb 22180 50)
	Intact / Broken*	02		MID 1				
2. Chain-of-Custody	(Present) / Absent*	03		MID 2				
3. Traffic Reports or		04		EFFL	3 voa (HCl)			
Packing List:	Present / (Absent)	↓			3 voa (HCl)			
4. Airbill:	Airbill / Sticker	↓			1 L poly			
	Present / (Absent)							
5. Airbill #:								
6. Sample Labels:	(Present) / Absent							
7. Sample IDs:	(Listed) / Not Listed							
	on Chain-of-Custody							
8. Sample Condition:	(Intact) / Broken* /							
	Leaking*							
9. Docs information on custody reports, traffic reports and sample labels agree?	(Yes) / No*				1/3/03 HT			
10. Sample received within hold time:	(Yes) / No*							
11. Proper Preservatives used:	(Yes) / No*							
12. Temp Rec. at Lab:	3°C							
Is temp 4 +/-2°C?	(Yes) / No**							

(Acceptance range for samples requiring thermal pres.)

*Exception (if any): Metals / DFF on ice? / DFF no ice? or Problem COC

*If Circled, contact Project Manager and attach record of resolution.

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)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-5	††	03/13,14/96		33.99	9.75	24.24	1,600	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
		06/25/97			12.64	21.35	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	0.59	<0.50	<0.50	<0.50	25	1.8
		12/14,15/98			11.85	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	906	1.2
		03/15/00	a		--	--	--	--	--	--	--	1,230	--
		06/13/00	b		12.44	21.55	96.7	<0.50	<0.50	<0.50	<0.50	551	2.0
		9/19,20/00			12.45	21.54	<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	1.8
		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	<	0.0
		06/14,15/99				——————————Removed From Gauging and Sampling Program ——————————							
MW-8		03/13,14/96		32.79	8.90	23.89	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			11.67	21.12	570	57	<1.0	2.1	1.7	57	2.0
		09/09,10/97	a		--	--	--	--	--	--	--	48	--
		11/24,25/97			11.60	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	22.99	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
		09/26/01			10.80	21.99	140	<0.50	0.58	<0.50	1.9	170	0.6
		12/29/01			9.85	22.94	<50.0	<0.50	<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)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (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	<2.5	NM
		03/31-04/01/97			9.95	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			10.86	21.26	<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	<2.5	3.0
		11/24,25/97			10.70	21.41	<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	58	4.8
		06/04/98			9.35	22.76	<50	<0.30	<0.30	<0.30	<0.60	<10	2.0
		09/21,22/98			10.55	21.56	<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	<2.5	2.2
		03/15,16/99			9.10	23.01	<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	3.27	2.2
		09/15,16/99			10.83	21.28	<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	<5.0	2.6
		03/15/00			8.58	23.53	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
		06/13/00	b		10.48	21.63	<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	<2.5	2.0
		12/14,15/00			10.35	21.76	<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	<2.5	2.6
		06/14/01			10.33	21.78	<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	<2.5	1.8
		12/29/01			8.82	23.29	<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	<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	20.59	950	<1.2	3.3	2.5	3.7	240	2.0
		09/09,10/97	a		--	--	--	--	--	--	--	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	1.35	232	NM
		09/15,16/99			11.03	20.64	655	<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	469	<1.0	<1.0	<1.0	<1.0	266	2.2
		03/15/00	a		--	--	--	--	--	--	--	342	--
		06/13/00	b		10.85	20.82	617	6.82	2.77	3.07	1.92	437	1.0
		9/19,20/00			10.70	20.97	527	<0.50	0.86	0.99	1.19	413	2.2
		12/14,15/00			10.35	21.32	456	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	2.60	<0.50	1.50	290	3.0
		09/26/01			10.98	20.69	580	<0.50	1.60	1.50	1.60	250	2.6
		12/29/01			9.06	22.61	410	<0.50	6.70	2.50	2.90	950	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	8.60	23.94	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28/96			10.55	21.99	<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

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Groundwater Monitoring Wells

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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)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-11		06/14,15/99			11.25	21.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
(cont.)		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	††	03/13,14/96		33.06	10.35	22.71	2,700	38	<5.0	130	6.2	NA	NM
(MW-12)		05/28,29/96			11.50	21.56	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	†		12.65	20.41	1,900	7.9	<2.0	62	3.5	140	NM
		06/25/97			11.82	21.24	4,900	21	<5.0	53	6.8	160	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	<2.5	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	<0.60	<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	22.94	<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	21.63	<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	20.38	<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	<2.5	1.8
		06/03/98			8.52	21.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	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	<5.0	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)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-14	06/14,15/99			9.54	20.92	Well Sampled Annually						
(cont.)	09/15/99			9.98	20.48	Well Sampled Annually						
	12/08,09/99			9.84	20.62	Well Sampled Annually						
	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	Well Sampled Annually						
	9/19,20/00			9.68	20.78	Well Sampled Annually						
	12/14,15/00			9.14	21.32	Well Sampled Annually						
	3/8,9/01			8.10	22.36	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	06/14/01			9.51	20.95	Well Sampled Annually						
	09/26/01			9.96	20.50	Well Sampled Annually						
	12/29/01			7.62	22.84	Well Sampled Annually						
	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	12	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	Well Inaccessible						
	11/24,25/97					Well Inaccessible						
	03/19/98			9.15	22.26	<50	<0.50	<0.50	<0.50	<0.50	5.3	2.2
	06/04/98			NM		Well Inaccessible						
	09/21,22/98			NM		Well Inaccessible						
	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		Well Inaccessible						
	06/14,15/99			NM		Well Inaccessible						
	09/15, 16/99			NM		Well Inaccessible						
	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	--
	06/13/00	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	Well Inaccessible						
	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	66	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	<0.50	<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
	03/19/98			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
	09/21,22/98			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	<0.50	<0.50	3.13	3.4
	09/15/99			11.99	19.40	<50	<0.50	<0.50	<0.50	<0.50	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	<0.50	<0.50	<0.50	<2.5	2.4
	06/14/01			11.47	19.92	<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

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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)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-18	03/31-04/01/97		10.14	19.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
(cont.)	06/25/97		10.94	18.76	<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		10.79	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	0.588	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	18.87	<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	19.62	<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		10.66	18.06	Well Sampled Annually						
	12/14,15/00		10.30	18.42	Well Sampled Annually						
	3/8,9/01		9.00	19.72	<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		10.61	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	2.8
	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	19.62	<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

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)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-22	03/15/00			9.20	20.09	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.1
(cont.)	06/13/00	b		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			9.86	19.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
MW-23	03/13/96		30.99	9.13	21.86	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			11.37	19.62	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			12.31	18.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			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	18.86	<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	19.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	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 ----------						
	09/15/99			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	b		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	03/13,15/96		34.38	10.10	24.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			12.25	22.13	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			13.28	21.10	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			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	<10	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			11.58	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	03/13,14/96		34.12	9.61	24.51	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28,29/96			11.30	22.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28,29/96			12.32	21.80	<50	<0.50	<0.50	<0.50	<0.50	51	NM
	11/25/96			11.83	22.29	<50	<0.50	<0.50	<0.50	<0.50	110	NM
	03/31-04/01/97			11.55	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	a		--	--	--	--	--	--	--	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	164	1.0
	03/15/00	a		--	--	--	--	--	--	--	206	--
	06/13/00	b		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	23.59	<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	84	1.0
	12/29/01	c	33.81	10.32	23.49	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	03/13,15/96		33.71	9.38	24.33	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			11.57	22.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28,29/96			12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			12.03	21.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97			11.84	21.87	<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 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)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-26	09/09,10/97			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	<0.50	<0.50	<0.50	<2.5	1.0
	03/15,16/99			10.86	22.85	<50	<0.50	<0.50	<0.50	<0.50	<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			10.50	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 ----------						
	9/19,20/00			12.38	21.33	---------- Well Sampled Annually ----------						
	12/14,15/00			11.88	21.83	---------- Well Sampled Annually ----------						
	3/8,9/01			10.78	22.93	<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

MtBE = Methyl tert-butyl ether
MSL = Mean sea level
TOB = Top of box
ppb = Parts per billion
ppm = Parts per million
< = Less than laboratory detection limit
† = Well sampled without purging.
†† = ORC program initiated September 21, 1995 and discontinued on May 15, 1997.

NA = Not analyzed
NM = Not measured
NS = Not sampled
a. = MtBE result confirmed by EPA Method 8260.
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.
c. = well elevation changed during station reconstruction. well resurveyed 11/6/2001

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)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (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 Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
634 H	06/03/98 e	NS	NS	NS	NS	NS	NS	NM
(cont.)	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	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	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
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Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
675 H	12/14/00 f	NS	NS	NS	NS	NS	NS	NM
(cont.)	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

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Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)		Dissolved Oxygen (ppm)
17302 VM	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
(cont.)	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		NM
	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	c	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	c	NM
	09/09/97	380	6.0	1.4	0.98	<0.50	38		3.0
	09/09/97	--	--	--	--	--	34	c	NM
	11/24/97	240	<1.0	1.1	<1.0	1.4	53		2.4
	11/24/97	--	--	--	--	--	33	c†	NM
	03/19/98	1,300	14	<0.50	<0.50	1.2	250		1.0
	03/19/98	--	--	--	--	--	27	c	NM

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17349 VM	06/03/98	860	8.7	<0.50	0.7	8.0	38		4.9
(cont.)	07/29/98	860	20	2.1	<1.2	<1.2	27		NM
	07/29/98	--	--	--	--	--	25	c	NM
	09/21/98	200	<0.50	<0.50	<0.50	14	14		5.2
	12/14/98	254	<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	c	2.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	82.1	c	2.8
	06/13/00	319	5.28	<0.5	<0.50	<0.50	97.1		NM
	06/13/00	--	--	--	--	--	85.1	c	NM
	09/19/00	106	<0.50	2	<0.50	<0.50	204.0		NM
	09/19/00	--	--	--	--	--	84.0	c	NM
	12/14/00	65.9	0.61	<0.50	<0.50	<0.50	188.0		1.8
	12/14/00	--	--	--	--	--	197.0	c	NM
	03/08/01	<50	<0.50	<0.50	<0.50	<0.50	91.8		1.8
	03/08/01	--	--	--	--	--	98.3	c	NM
	06/14/01	<50	<0.50	<0.50	<0.50	<0.50	68.0		2.8
	06/14/01	--	--	--	--	--	99.0	c	NM
	09/26/01	52	0.53	<0.50	<0.50	<0.50	49.0		1.8
	09/26/01	--	--	--	--	--	54.0	c	
	12/29/01	<50.0	<0.50	0.78	<0.50	<0.50	58.0		NM
	12/29/01	--	--	--	--	--	48.0	c	NM
	03/13/02	<50.0	1	<0.50	<0.50	<0.50	49.0		2.0
	03/13/02	--	--	--	--	--	47.0	c	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	c	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

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17372 VM	07/29/98	--	--	--	--	--	1,100	c	NM
(cont.)	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	200		1.6
	09/21/98	--	--	--	--	--	360	c	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
	06/14/01	<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	<0.50	<2.5		NM
	03/31/97 a	NS	NS	NS	NS	NS	NS		NM
	06/25/97	---------- Well Destroyed ----------							

TPPH = Total purgeable petroleum hydrocarbons
MtBE = Methyl tert-butyl ether
NA = Not analyzed
NS = Not sampled
ppb = Parts ber billion
H = Hacienda Avenue
VM = Via Magdalena
VE = Via Encinas
< = Less than laboratory detection limit stated to the right.
* = MtBE data maybe anamolous; 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. MtBE 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.

Notes:
Homeowners are contacted 1 week prior to sampling event.
Please see certified analytical reports for laboratory notes and definitions

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

02/20/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #608, San Lorenzo, C
Work Order Number:	MLL1004
Global ID:	T0600100085
Lab Report Number:	MLL1004012920030745

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MLL10040129200 30745	17372 VM	MLL100402	W	CS	SW8021F	SW5030B	12/30/02	01/09/03	01/09/03	3A09003	1	
MLL10040129200 30745	642 H	MLL100401	W	CS	SW8021F	SW5030B	12/30/02	01/09/03	01/09/03	3A09003	1	
MLL10040129200 30745	E-1A	MLL100411	W	CS	SW8021F	SW5030B	12/30/02	01/17/03	01/17/03	3A17002	1	
MLL10040129200 30745	MW-10	MLL100406	W	CS	SW8021F	SW5030B	12/30/02	01/09/03	01/09/03	3A09003	1	
MLL10040129200 30745	MW-11	MLL100407	W	CS	SW8021F	SW5030B	12/30/02	01/09/03	01/09/03	3A09003	1	
MLL10040129200 30745	MW-15	MLL100408	W	CS	SW8021F	SW5030B	12/30/02	01/09/03	01/09/03	3A09003	1	
MLL10040129200 30745	MW-22	MLL100409	W	CS	SW8021F	SW5030B	12/30/02	01/09/03	01/09/03	3A09003	1	
MLL10040129200 30745	MW-25	MLL100410	W	CS	SW8021F	SW5030B	12/30/02	01/13/03	01/13/03	3A13002	1	
MLL10040129200 30745	MW-5	MLL100403	W	CS	SW8021F	SW5030B	12/30/02	01/09/03	01/09/03	3A09003	1	
MLL10040129200 30745	MW-8	MLL100404	W	CS	SW8021F	SW5030B	12/30/02	01/09/03	01/09/03	3A09003	1	
MLL10040129200 30745	MW-9	MLL100405	W	CS	SW8021F	SW5030B	12/30/02	01/09/03	01/09/03	3A09003	1	
		MMA008807	W	NC	SW8021F	SW5030B	/ /	01/17/03	01/17/03	3A17002	1	
		3A09003BS1	WQ	BS1	SW8021F	SW5030B	/ /	01/09/03	01/09/03	3A09003	1	
		3A09003BS2	WQ	BS2	SW8021F	SW5030B	/ /	01/09/03	01/09/03	3A09003	1	
		3A09003BLK1	WQ	LB1	SW8021F	SW5030B	/ /	01/09/03	01/09/03	3A09003	1	
		3A09003MS1	W	MS1	SW8021F	SW5030B	/ /	01/09/03	01/09/03	3A09003	1	
		3A09003MSD1	W	SD1	SW8021F	SW5030B	/ /	01/09/03	01/09/03	3A09003	1	
		3A13002BSD1	WQ	BD1	SW8021F	SW5030B	/ /	01/13/03	01/13/03	3A13002	1	
		3A13002BSD2	WQ	BD2	SW8021F	SW5030B	/ /	01/13/03	01/13/03	3A13002	1	
		3A13002BS1	WQ	BS1	SW8021F	SW5030B	/ /	01/13/03	01/13/03	3A13002	1	
		3A13002BS2	WQ	BS2	SW8021F	SW5030B	/ /	01/13/03	01/13/03	3A13002	1	
		3A13002BLK1	WQ	LB1	SW8021F	SW5030B	/ /	01/13/03	01/13/03	3A13002	1	
		3A17002BS1	WQ	BS1	SW8021F	SW5030B	/ /	01/17/03	01/17/03	3A17002	1	
		3A17002BS2	WQ	BS2	SW8021F	SW5030B	/ /	01/17/03	01/17/03	3A17002	1	
		3A17002BLK1	WQ	LB1	SW8021F	SW5030B	/ /	01/17/03	01/17/03	3A17002	1	
		3A17002MS1	W	MS1	SW8021F	SW5030B	/ /	01/17/03	01/17/03	3A17002	1	
		3A17002MSD1	W	SD1	SW8021F	SW5030B	/ /	01/17/03	01/17/03	3A17002	1	

EDFSAMP: Error Summary Log

02/20/03

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

02/20/03

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					/ /	0

EDFRES: Error Summary Log

02/20/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3A09003MS1	MS1	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	3A09003MS1	MS1	W	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	3A09003MSD1	SD1	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	3A09003MSD1	SD1	W	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	3A17002MS1	MS1	W	SW8021F	PR	01/17/03	1	AAATFBZME
Warning: extra parameter	3A17002MS1	MS1	W	SW8021F	PR	01/17/03	1	GROC6C10
Warning: extra parameter	3A17002MSD1	SD1	W	SW8021F	PR	01/17/03	1	AAATFBZME
Warning: extra parameter	3A17002MSD1	SD1	W	SW8021F	PR	01/17/03	1	GROC6C10
Warning: extra parameter	MLL100401	CS	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	MLL100401	CS	W	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	MLL100401	CS	W	SW8021F	PR	01/09/03	1	MTBE
Warning: extra parameter	MLL100402	CS	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	MLL100402	CS	W	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	MLL100402	CS	W	SW8021F	PR	01/09/03	1	MTBE
Warning: extra parameter	MLL100403	CS	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	MLL100403	CS	W	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	MLL100403	CS	W	SW8021F	PR	01/09/03	1	MTBE
Warning: extra parameter	MLL100404	CS	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	MLL100404	CS	W	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	MLL100404	CS	W	SW8021F	PR	01/09/03	1	MTBE
Warning: extra parameter	MLL100405	CS	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	MLL100405	CS	W	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	MLL100405	CS	W	SW8021F	PR	01/09/03	1	MTBE
Warning: extra parameter	MLL100406	CS	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	MLL100406	CS	W	SW8021F	PR	01/09/03	1	GROC6C10

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MLL100406	CS	W	SW8021F	PR	01/09/03	1	MTBE
Warning: extra parameter	MLL100407	CS	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	MLL100407	CS	W	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	MLL100407	CS	W	SW8021F	PR	01/09/03	1	MTBE
Warning: extra parameter	MLL100408	CS	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	MLL100408	CS	W	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	MLL100408	CS	W	SW8021F	PR	01/09/03	1	MTBE
Warning: extra parameter	MLL100409	CS	W	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	MLL100409	CS	W	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	MLL100409	CS	W	SW8021F	PR	01/09/03	1	MTBE
Warning: extra parameter	MLL100410	CS	W	SW8021F	PR	01/13/03	1	AAATFBZME
Warning: extra parameter	MLL100410	CS	W	SW8021F	PR	01/13/03	1	GROC6C10
Warning: extra parameter	MLL100410	CS	W	SW8021F	PR	01/13/03	1	MTBE
Warning: extra parameter	MLL100411	CS	W	SW8021F	PR	01/17/03	1	AAATFBZME
Warning: extra parameter	MLL100411	CS	W	SW8021F	PR	01/17/03	1	GROC6C10
Warning: extra parameter	MLL100411	CS	W	SW8021F	PR	01/17/03	1	MTBE
Warning: extra parameter	MMA008807	NC	W	SW8021F	PR	01/17/03	1	AAATFBZME
Warning: extra parameter	MMA008807	NC	W	SW8021F	PR	01/17/03	1	GROC6C10
Warning: extra parameter	3A09003BLK1	LB1	WQ	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	3A09003BLK1	LB1	WQ	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	3A09003BLK1	LB1	WQ	SW8021F	PR	01/09/03	1	MTBE
Warning: extra parameter	3A09003BS1	BS1	WQ	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	3A09003BS2	BS2	WQ	SW8021F	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	3A09003BS2	BS2	WQ	SW8021F	PR	01/09/03	1	GROC6C10
Warning: extra parameter	3A13002BLK1	LB1	WQ	SW8021F	PR	01/13/03	1	AAATFBZME
Warning: extra parameter	3A13002BLK1	LB1	WQ	SW8021F	PR	01/13/03	1	GROC6C10
Warning: extra parameter	3A13002BLK1	LB1	WQ	SW8021F	PR	01/13/03	1	MTBE
Warning: extra parameter	3A13002BS1	BS1	WQ	SW8021F	PR	01/13/03	1	AAATFBZME
Warning: extra parameter	3A13002BS2	BS2	WQ	SW8021F	PR	01/13/03	1	AAATFBZME

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3A13002BS2	BS2	WQ	SW8021F	PR	01/13/03	1	GROC6C10
Warning: extra parameter	3A13002BSD1	BD1	WQ	SW8021F	PR	01/13/03	1	AAATFBZME
Warning: extra parameter	3A13002BSD2	BD2	WQ	SW8021F	PR	01/13/03	1	AAATFBZME
Warning: extra parameter	3A13002BSD2	BD2	WQ	SW8021F	PR	01/13/03	1	GROC6C10
Warning: extra parameter	3A17002BLK1	LB1	WQ	SW8021F	PR	01/17/03	1	AAATFBZME
Warning: extra parameter	3A17002BLK1	LB1	WQ	SW8021F	PR	01/17/03	1	GROC6C10
Warning: extra parameter	3A17002BLK1	LB1	WQ	SW8021F	PR	01/17/03	1	MTBE
Warning: extra parameter	3A17002BS1	BS1	WQ	SW8021F	PR	01/17/03	1	AAATFBZME
Warning: extra parameter	3A17002BS2	BS2	WQ	SW8021F	PR	01/17/03	1	AAATFBZME
Warning: extra parameter	3A17002BS2	BS2	WQ	SW8021F	PR	01/17/03	1	GROC6C10

EDFQC: Error Summary Log

02/20/03

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

02/20/03

Error type	Clrevdate	Anmcode	Exmcode	Parlabel	Clcode
There are no errors in this data file	/ /				

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Facility Name: ARCO
Submittal Title: Fourth Quarter 2002 Groundwater Monitoring Report for Site #608
Submittal Type: GW Monitoring Report

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