

January 28, 2003

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

Alameda County
JAN 30 2003
Environmental Health

**Re: Second Quarter 2002 Groundwater Monitoring and Remediation Report
ARCO Service Station #608
17601 Hesperian Boulevard
San Lorenzo, California
URS Project #38465883**

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 *Second Quarter 2002 Groundwater Monitoring and Remediation Report* for ARCO Service Station #608, located at 17601 Boulevard, San Lorenzo, California.

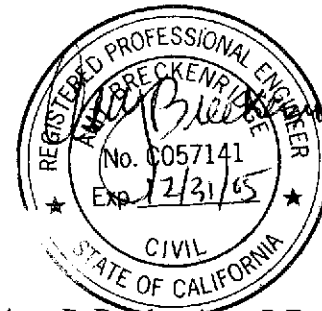
If you have any questions regarding this submission, please call (510) 874-1735.

Sincerely,

URS CORPORATION



Scott Robinson
Project Manager



Amy P. Breckenridge, P.E.
Portfolio Manager

Enclosure: Second 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

R E P O R T

Alameda County

JAN 30 2003

Environmental Health

**SECOND QUARTER 2002
GROUNDWATER MONITORING
AND REMEDIATION**

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

Prepared for
Atlantic Richfield Company

January 28, 2003

URS

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

38465883

Date: January 28, 2003
 Quarter: 2Q 02

ARCO QUARTERLY GROUNDWATER MONITORING AND REMEDIATION 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.: 38465883
 Primary Agency: ACHCSA

WORK PERFORMED THIS QUARTER (Second – 2002):

1. Shaw Environmental & Infrastructure Inc. (Shaw) prepared and submitted first quarter 2002 groundwater monitoring report.
2. Performed second quarter 2002 groundwater monitoring event.
3. Continued monthly payments to homeowners for not using domestic irrigation wells.
4. Continued homeowner quarterly monitoring result notification program.
5. Continued operation and maintenance of the groundwater extraction and treatment (GWET) system.

WORK PROPOSED FOR NEXT QUARTER (Third – 2002):

1. Prepare and submit second quarter 2002 groundwater monitoring and remediation report.
2. Perform third quarter 2002 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:	<u>GW monitoring/sampling/remediation</u>
Frequency of Groundwater Sampling:	<u>See Table 1</u>
Frequency of Groundwater Monitoring:	<u>See Table 1</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
FP Recovered this Quarter	<u>None</u>
Current Remediation Techniques:	<u>GWET</u>
Approximate Depth to Groundwater:	<u>9.12 (MW-14) to 14.77 (642H) feet</u>
TPH-g/Benzene/MTBE removed this qtr.:	<u>0.06/0.001/0.05 gallons</u>
Cumulative TPH-g/Benzene/MTBE removed:	<u>1.12/0.04/0.32 gallons</u>
Groundwater Gradient (direction):	<u>West</u>
Groundwater Gradient (magnitude):	<u>0.003 feet per foot</u>

DISCUSSION:

TPH-g was detected in five of thirteen wells sampled this quarter at concentrations ranging from 66 µg/L (17349VM) to 820 µg/L (MW-10). Benzene was not detected in any samples at or above specified laboratory method detection limits. MTBE was detected in seven wells at concentrations ranging from 8.7 µg/L (MW-15) to 1,200 µg/L (MW-10). MTBE was confirmed by EPA Method 8260B in well 17349VM at a concentration of 47 µg/L.

Well 17197VM was not sampled because the well has been grouted to the surface. Well 17302VM was not sampled because the pump is not operational. Wells 634H, 675H, 17203VM, 17348VE, and 17371VM were not sampled because residents were not home to grant access to the wells.

During the reporting period, the GWET system discharged treated groundwater at an average flow rate of 1.5 gallons per minute (gpm) for a total discharge of 145,860 gallons. The GWET system was approximately 97% operational and removed 0.06 gallons of TPH-g, 0.001 gallons of benzene, and 0.05 gallons of MTBE. The remedial system performance evaluation is included in Attachment C.

ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – April 12, 2002
- Attachment A – Field Procedures
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Historical Groundwater and SVE Tables (Cambria Environmental Technology, Inc.)
- Attachment D – Remediation System, Operation and Maintenance Report
- Table D-1 – SVE System Operational Uptime Information
- Table D-2 – SVE System Flow Rates and Analytical Results of Air Samples
- Table D-3 – SVE System Extraction Rates, Emission Rates, Destruction Efficiency and Mass Removed

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

1

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	a	a	a	a	Quarterly
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)	Ethylbenzene (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
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
675 H	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	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
17203 VM	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	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
17348 VE	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	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
17371 VM	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	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)
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
BTEX	= Benzene, toluene, ethyl benzene, and total xylenes analyzed using EPA Method 8021B.						
TPH	= Total petroleum hydrocarbons analyzed using EPA Method 8015B, Modified						
MTBE	=Methyl tertiary butyl ether analyzed using EPA Method 8021						
µg/L	= Micrograms per liter equivalent to parts per billion (ppb)						
P	= Purge						
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						
b	= Chromatogram Pattern: Unidentified Hydrocarbons C6-C10						
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
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
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
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
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
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
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-----					
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
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

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)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
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-----					
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-----					
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
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-----					
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
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-----					

BTEX =Benzene, toluene, ethyl benzene, and total xylenes analyzed using EPA Method 8021

TPH = Total petroleum hydrocarbons analyzed using EPA Method 8015B, Modified

MTBE =Methyl tertiary butyl ether analyzed using EPA Method 8021

µg/L = Micrograms per liter equivalent to parts per billion (ppb)

P = Purge

MSL = Mean sea level

TOC = Top of casing

< = Not detected at or above specified laboratory method detection limit

a = Well elevation data obtained from *Quarterly Groundwater Monitoring Report, Fourth Quarter 1994*

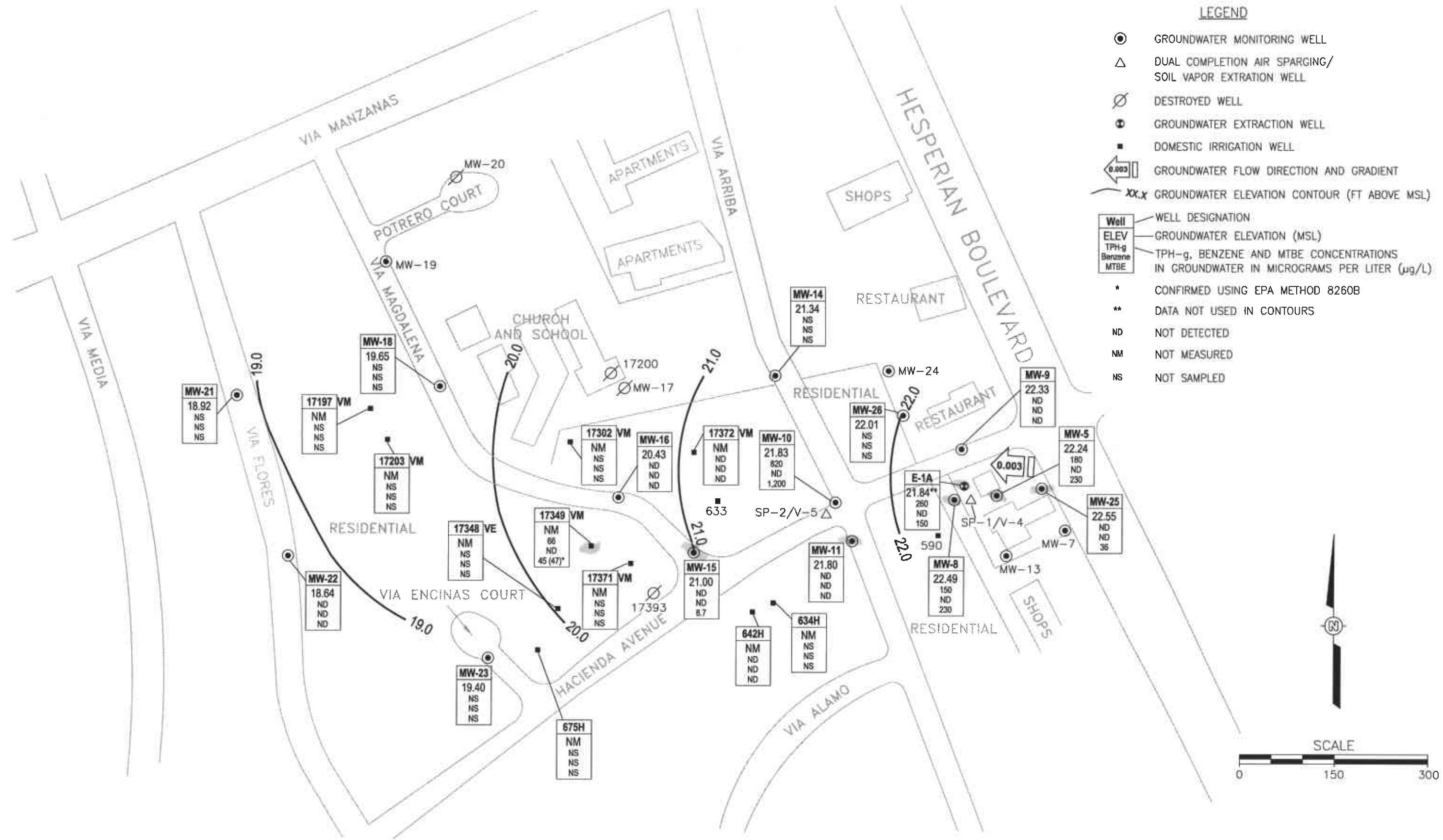
b = Chromatogram Pattern: Unidentified Hydrocarbons C6-C10

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

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	Project No. 38465883	Groundwater Elevation Contour and Analytical Summary Map Second Quarter 2002 (June 28, 2002)	FIGURE 1
	Arco Service Station #0608 17601 Hesperian Boulevard San Lorenzo, California		

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 # 020628-MTI Date 06-28-02 Client ARGO #0608

Site 17601 HESPERIAN BLVD., SAN LORENZO

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>TOC</u>	
MW-5	4					11.75	13.65		
MW-8	3					10.30	20.95		
MW-9	3					9.78	18.37		
MW-10	3					9.84	22.45		
MW-11	3					10.74	18.74		
E-1A	6					11.22	—		
MW-14	3					9.12	23.00		
MW-15	3					10.41	23.21		
MW-16	3					10.96	23.10		
MW-18	3					10.05	21.55		
MW-21	3					9.80	21.60		
MW-22	3					10.65	21.50		
MW-23	3					11.59	21.70		
MW-25	2					11.26	18.50		
MW-26	2					11.70	19.45		
634H	—	No ONE HOME				—	—		
642H	4					14.77	—	↓	ACCESSIBLE

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>M.Toll</u>	Date: <u>06-28-02</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <input checked="" type="checkbox"/> 6 8 _____
Total Well Depth: <u>13.65</u>	Depth to Water: <u>11.75</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>VSD</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer
Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

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

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1317	<u>68.4</u>	<u>6.90</u>	<u>937</u>	<u>1.25</u>	
1319	<u>68.3</u>	<u>6.87</u>	<u>940</u>	<u>25</u>	
1321	<u>68.3</u>	<u>6.87</u>	<u>936</u>	<u>3.75</u>	

Did well dewater? Yes No Gallons actually evacuated: 3.75

Sampling Time: 1325 Sampling Date: 06-28-02

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MTI</u>	Station # <u>ARCO # 0608</u>
Sampler: <u>M.T.11</u>	Date: <u>06-28-02</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 <input type="radio"/> 4 <input checked="" type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth: <u>20.95</u>	Depth to Water: <u>10.30</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>VST</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Middleburg Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

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

<u>4</u>	X	<u>3</u>	=	<u>12</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
<u>1301</u>	<u>68.9</u>	<u>7.26</u>	<u>835</u>	<u>4</u>	
<u>1302</u>	<u>68.1</u>	<u>6.95</u>	<u>879</u>	<u>8</u>	
<u>1303</u>	<u>68.2</u>	<u>6.94</u>	<u>880</u>	<u>12</u>	

Did well dewater? Yes No Gallons actually evacuated: 12

Sampling Time: 1310 Sampling Date: 06-28-02

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

Analyzed for: TPH-G BTX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	<u>Post-purge:</u>	<u>1.6</u>	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>M.T. 11</u>	Date: <u>06-28-02</u>
Well I.D.: <u>MW-9</u>	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth: <u>18.30</u>	Depth to Water: <u>9.78</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>VSD</u> HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg <u>Electric Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
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Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3.2</u>	X	<u>3</u>	=	<u>9.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1156	66.1	7.21	837	4	
1157	66.3	7.11	833	8	
1158	66.4	7.10	832	10	

Did well dewater? Yes No Gallons actually evacuated: 10

Sampling Time: 1205 Sampling Date: 06-28-02

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>MTD1</u>	Date: <u>06-28-02</u>
Well I.D.: <u>MW-10</u>	Well Diameter: 2 <u>③</u> 4 6 8 <u> </u>
Total Well Depth: <u>22.45</u>	Depth to Water: <u>9.34</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>BVC</u> Grade	D.O. Meter (if req'd): <u>BSD</u> HACH

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

Purge Method: Bailer Disposable Bailer
 Middleburg
 Electric Submersible
 Extraction Pump

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Other: _____

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

<u>4.7</u> 1 Case Volume (Gals.)	x	<u>3</u> Specified Volumes	=	<u>14.1</u> Calculated Volume	Gals.
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Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1330	67.9	7.00	884	5	
1331	67.8	7.00	880	10	
1332	67.7	7.00	883	15	

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 1340 Sampling Date: 06-28-02

Sample I.D.: MW-10 Laboratory: Pace Sequoia Other _____

Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TPH-D Other: _____		
D.O. (if req'd):	Pre-purge: <input type="checkbox"/>	mg/L
	Post-purge: <input checked="" type="checkbox"/>	<u>1.2</u> mg/L
O.R.P. (if req'd):	Pre-purge: <input type="checkbox"/>	mV
	Post-purge: <input type="checkbox"/>	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020629-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>MIT01</u>	Date: <u>06-28-02</u>
Well I.D.: <u>MW-11</u>	Well Diameter: 2 3 4 6 8 _____
Total Well Depth: <u>18.74</u>	Depth to Water: <u>10.74</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>VSD</u> HACH

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

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

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

<u>3</u>	X	<u>3</u>	=	<u>9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1144	65.3	7.00	999	3	
1145	65.1	6.99	982	6	
1146	65.1	6.98	980	9	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>9</u>
Sampling Time: <u>1160</u>	Sampling Date: <u>06-28-02</u>
Sample I.D.: <u>MW-11</u>	Laboratory: Pace <u>Sequoia</u> Other _____

Analyzed for: TPH-G BTEX <u>MTBE</u> TPH-D Other:
D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: <u>1.7</u> mg/L
O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020620-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>MITOI</u>	Date: <u>06-28-02</u>
Well I.D.: <u>E-1A</u>	Well Diameter: 2 3 4 <u>6</u> 8 _____
Total Well Depth: <u>—</u>	Depth to Water: <u>11.22</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>VST</u> HACH

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

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

Sampling Method: Bailer
~~Disposable Bailer~~
 Extraction Port
 Other: End of Hose

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 <u>X</u> <u>Rate for 10 min @ 1 gpm</u>	Specified Volumes	Calculated Volume
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Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1255	70.9	7.10	948	10	odor
* No sampling port. disconnected hose @ CAM fitting in Vault & sampled there.					
* At control panel in Compound turn Switch "E-1A" from "Auto" to "HAND". This turns Pump on.					

Did well dewater? Yes Gallons actually evacuated: 10

Sampling Time: 1255 Sampling Date: 06-28-02

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MT1</u>	Station # <u>ARCO # 0608</u>
Sampler: <u>M.TD11</u>	Date: <u>06-28-02</u>
Well I.D.: <u>MW-15</u>	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/>
Total Well Depth: <u>23.21</u>	Depth to Water: <u>10.41</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Grade	D.O. Meter (if req'd): <input checked="" type="checkbox"/> <input type="checkbox"/> 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.

<u>4.7</u>	x	<u>3</u>	=	<u>14.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>1132</u>	<u>63.4</u>	<u>7.06</u>	<u>937</u>	<u>5</u>	
<u>1133</u>	<u>63.9</u>	<u>7.03</u>	<u>935</u>	<u>10</u>	
<u>1134</u>	<u>63.9</u>	<u>7.00</u>	<u>935</u>	<u>15</u>	

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 1140 Sampling Date: 06-28-02

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:	<u>1.9</u>	mg/L
	O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>M.T.P.I.</u>	Date: <u>06-28-02</u>
Well I.D.: <u>MW-16</u>	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth: <u>23.0</u>	Depth to Water: <u>10.96</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Grade	D.O. Meter (if req'd): <input checked="" type="checkbox"/> <input type="checkbox"/> HACH

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

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Middleburg <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
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Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>4.5</u>	x	<u>3</u>	=	<u>13.5</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1121	64.4	7.22	894	5	
1122	64.2	7.08	894	10	
1123	64.1	7.07	890	14	

Did well dewater? Yes <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>14</u>
Sampling Time: <u>1130</u>	Sampling Date: <u>06-28-02</u>
Sample I.D.: <u>MW-16</u>	Laboratory: Pace <input checked="" type="checkbox"/> Sequoia <input type="checkbox"/> Other _____

Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TPH-D Other: _____			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: <u>2.0</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MT1</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>M.T.011</u>	Date: <u>06-28-02</u>
Well I.D.: <u>1W-22</u>	Well Diameter: 2 <u>3</u> 4 6 8 _____
Total Well Depth: <u>21.50</u>	Depth to Water: <u>10.65</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>BVC</u> Grade	D.O. Meter (if req'd): <u>BVC</u> HACH

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

Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Middleburg</u> <u>Electric Submersible</u> <u>Extraction Pump</u> Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Extraction Port</u> Other: _____
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Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>4</u>	x	<u>3</u>	=	<u>12</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
<u>1108</u>	<u>62.6</u>	<u>7.22</u>	<u>920</u>	<u>4</u>	
<u>1109</u>	<u>62.7</u>	<u>7.13</u>	<u>919</u>	<u>8</u>	
<u>1110</u>	<u>62.6</u>	<u>7.11</u>	<u>917</u>	<u>12</u>	

Did well dewater? Yes No Gallons actually evacuated: 12

Sampling Time: 1115 Sampling Date: 06-28-02

Sample I.D.: 1W-22 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	<u>mg/L</u>	Post-purge:	<u>1.9</u> <u>mg/L</u>
O.R.P. (if req'd):	Pre-purge:	<u>mV</u>	Post-purge:	<u>mV</u>

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>M.T.O.II</u>	Date: <u>06-28-02</u>
Well I.D.: <u>MW-25</u>	Well Diameter: <u>②</u> 3 4 6 8 _____
Total Well Depth: <u>18.50</u>	Depth to Water: <u>11.26</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</u> Grade	D.O. Meter (if req'd): <u>YSD</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer
Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible
 Extraction Pump Other: _____
 Other: _____

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

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1234	65.4	7.11	1007	1.25	
1236	65.1	7.10		2.5	
1238	65.1	7.10	1000	3.75	

Did well dewater? Yes No Gallons actually evacuated: 3.75

Sampling Time: 1245 Sampling Date: 06-28-02

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

Analyzed for: TPH-G BTX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.2	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MTI</u>	Station # <u>ARCO # 0608</u>
Sampler: <u>M.T.11</u>	Date: <u>06-28-02</u>
Well I.D.: <u>634 H</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>PVC</u> HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
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Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1410					<u>No one Home to ask permission for access.</u>

Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: _____
Sampling Time: _____	Sampling Date: <u>06-28-02</u>
Sample I.D.: <u>634 H</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other: _____	
D.O. (if req'd): _____	Pre-purge: _____ mg/L <u>Post-purge:</u> _____ mg/L
O.R.P. (if req'd): _____	Pre-purge: _____ mV <u>Post-purge:</u> _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MTI</u>	Station # <u>ARCO # 0608</u>
Sampler: <u>MITDI</u>	Date: <u>06-28-02</u>
Well I.D.: <u>642H</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u> </u>	Depth to Water: <u>14.77</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>BVC</u> Grade	D.O. Meter (if req'd): <u>VSD</u> HACH

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

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

Sampling Method: Bailer
~~Disposable Bailer~~
 Extraction Port
 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	<u>X</u> <u>RAN FOR 5 min.</u> Gals.	Specified Volume	Calculated Volume
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Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
<u>0940</u>	<u>63.1</u>	<u>6.49</u>	<u>922</u>	<u> </u>	
					<u>Turned pump on @ switch on porch @ about 6 ft up wall.</u>

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: 0940 Sampling Date: 06-28-02

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

Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other: <u> </u>					
D.O. (if req'd):	Pre-purge:	mg/L	<u>Post-purge:</u>	<u>N/A</u>	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	<u>Post-purge:</u>		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020620-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>MITDI</u>	Date: <u>06-28-02</u>
Well I.D.: <u>675H</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</u> Grade	D.O. Meter (if req'd): <u>RSD</u> HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
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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	<u>3</u> Specified Volumes	=	_____ Gals. Calculated Volume
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Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>1A20</u>	<u>NO ONE HOME</u>	<u>NO ONE HOME</u>	<u>NO ONE HOME</u>	<u>NO ONE HOME</u>	<u>to ask permission to access well.</u>

Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: _____	
Sampling Time: _____	Sampling Date: <u>06-28-02</u>	
Sample I.D.: <u>675H</u>	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>TPH-G</u> <u>BTX</u> <u>MTBE</u> 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 #: <u>020628-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>MITO1</u>	Date: <u>06-28-02</u>
Well I.D.: <u>17197VM</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>DVC</u> Grade	D.O. Meter (if req'd): <u>DSD</u> HACH

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

Purge Method: 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.

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1415					WELL Has been Abandoned. Concreted up & Grouted

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: _____ Sampling Date: 06-28-02

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

Analyzed for: TPH-G BTX 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 #: <u>020628-MTI</u>	Station # <u>ARCO # 0608</u>
Sampler: <u>MITI</u>	Date: <u>06-28-02</u>
Well I.D.: <u>17203 VM</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>PVC</u> HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
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Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>1435</u>					<u>No one home who speaks English.</u>

Did well dewater? Yes <u>/</u> No	Gallons actually evacuated: _____	
Sampling Time: _____	Sampling Date: <u>06-28-02</u>	
Sample I.D.: <u>17203 VM</u>	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>TPH-G</u> <u>BTX</u> <u>MTBE</u> 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 #: <u>020628-MTI</u>	Station # <u>ARCO # 0608</u>
Sampler: <u>MITI</u>	Date: <u>06-28-02</u>
Well I.D.: <u>17302 VM</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth: <u> </u>	Depth to Water: <u> </u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>VSD</u> HACH

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

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

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

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
					<u>Pump is not running / function. ^{not} with out for over 1 yr.</u>
					<u>Confirmed w/ Mrs. Johansen.</u>

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: <u> </u>
Sampling Time: <u> </u>	Sampling Date: <u>06-28-02</u>
Sample I.D.: <u> </u>	Laboratory: Pace <u>Sequoia</u> Other <u> </u>
Analyzed for: <u>TPH-D</u> <u>BTX</u> <u>MTBE</u> TPH-D Other: <u> </u>	
D.O. (if req'd): <u> </u>	Pre-purge: <u> </u> mg/L Post-purge: <u>NA</u> mg/L
O.R.P. (if req'd): <u> </u>	Pre-purge: <u> </u> mV Post-purge: <u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020629-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>M.TOH</u>	Date: <u>06-28-02</u>
Well I.D.: <u>17348 VE</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: 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	<u>3</u>	=	_____ Gals.
		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>1423</u>					<u>No ONE home to ask permission to access well!</u>

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: _____ Sampling Date: 06-28/02

Sample I.D.: 17348 VE Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTX 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 #: <u>020628-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>MITDI</u>	Date: <u>06-28-02</u>
Well I.D.: <u>17349VM 17349VM</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth: <u> </u>	Depth to Water: <u>No Gassy Port</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>RVC</u> Grade	D.O. Meter (if req'd): <u>VSD</u> HACH

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

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

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Other: Spigot @ Top of Pump

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	<u>RAW for 5min</u>	Gals.
		Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1050	64.0	7.09	948	-	
	* No ONE HOME. Went through side Gate, plugged in Pump				
	Sampled from spigot on top of pump.				
	* Neighbors said Mr. Kost passed away. No one lives @ house.				

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: 1050 Sampling Date: 06-28-02

Sample I.D.: 17349VM Laboratory: Pace Sequoia Other

Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other: <u> </u>		
D.O. (if req'd):	Pre-purge: <u> </u> mg/L	Post-purge: <u>NA</u> mg/L
O.R.P. (if req'd):	Pre-purge: <u> </u> mV	Post-purge: <u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020628-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>M.TDI</u>	Date: <u>06-28-02</u>
Well I.D.: <u>17371 VM</u>	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>VSD</u> HACH

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

Purge Method: 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.

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

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
1400					<u>NON Functioning Pump. Confirmed w/ Mrs. Babcock.</u>
					<u>No plug, Pump has been dismantled.</u>

Did well dewater? Yes No

Gallons actually evacuated: _____

Sampling Time: _____ Sampling Date: 06-28-02

Sample I.D.: 17371 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 #: <u>020628-MTI</u>	Station # <u>ARCO # 0609</u>
Sampler: <u>M.Toll</u>	Date: <u>06-28-02</u>
Well I.D.: <u>17372 VM</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth: <u> </u>	Depth to Water: <u>No Gauge Part.</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>VSD</u> HACH

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

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

Sampling Method: Bailer
~~Disposable Bailer~~
 Extraction Port
 Other: Spiget

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	<u>3</u> Run for 5 min. Specified Volumes	Gals.	Calculated Volume
-----------------------	---	--	-------	-------------------

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1005	63.1	7.16	865	—	NEW 20' Rubber hose installed May 2002
					Owner Turned pump on & I sampled from spiget along side fence.

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: 1005 Sampling Date: 06-28-02

Sample I.D.: 17372 VM Laboratory: Pace Sequoia Other:

Analyzed for: TPH-G BTX MTBE TPH-D Other:

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

WELLHEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client Arco # 0008 Inspection Date 10-28-01
 Site Address 17601 Hesperian Blvd., San Lorenzo Inspected By M.T.H.

1. Lid on box?	6. Casing secure?	12. Water standing in wellbox?	15. Well cap functional?
2. Lid broken?	7. Casing cut level?	12a. Standing above the top of casing?	16. Can cap be pulled loose?
3. Lid bolts missing?	8. Debris in wellbox?	12b. Standing below the top of casing?	17. Can cap seal out water?
4. Lid bolts stripped?	9. Wellbox is too far above grade?	12c. Water even with the top of casing?	18. Padlock present?
5. Lid seal intact?	10. Wellbox is too far below grade?	13. Well cap present?	19. Padlock functional?
	11. Wellbox is crushed/damaged?	14. Well cap found secure?	

Check box if no deficiencies were found. Note below deficiencies you were able to correct.

Well I.D.	Deficiency	Corrective Action Taken
Allwells	Don't have Locks or they don't function.	NONE
MW-9	Broken 3" Cap	
MW-10	" "	
MW-5	" 4" Cap	
MW-8	Broken 4" Cap	
MW-23		
MW-11		
MW-14		
MW-15		
MW-16		
MW-18		
MW-21	MW-22	
MW-22	MW-25, MW-210 = Broken 2" Cap.	

Note below all deficiencies that could not be corrected and still need to be corrected.

Well I.D.	Persisting Deficiency	BTS Office assigns or defers Correction to:	Date assigned	Date corrected
MW-20	wellbox stripped 9/16" Bolts.	BTS can make repairs if requested DK		
Allwells	Need Locks. & caps Refer to sizes above.			
	The wells have 4" coveys which reduce to a 3" casing.			

SOURCE RECORD **BILL OF LADING**
 FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM
 GROUNDWATER WELLS AT :

ARCO
 Client
#D008
 Site Name
17601 HESPERIAN BLVD.
 Street Address
SAN LORENZO, CA
 City, State

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 TO:

Altamont Landfill

The contractor performing this work is BLAINE TECH SERVICES,
 INC., 1680 Rogers Ave., San Jose, CA 95112 (phone [408] 573-0555).

WELL I.D.	GALS.	WELL I.D.	GALS.
Purge Water =			
/ 104		/	
/		/	
/		/	
/		/	
/		/	
/		/	
/		/	
added equip.		any other	
rinse water / 3		adjustments /	

TOTAL GALS. RECOVERED 102
 loaded onto BTS vehicle # 47

BTS event # D20628-MT time 1445 date 6/28/02
 signature retHall

 REC'D AT BTS time _____ date 6/28/02
 unloaded by signature retHall

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

16 July, 2002

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

RE: ARCO #608, San Lorenzo, Ca
Sequoia Report: MLG0032

Enclosed are the results of analyses for samples received by the laboratory on 07/01/02 10:28. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate #1210



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

Reported:
07/16/02 11:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	MLG0032-01	Water	06/28/02 13:25	07/01/02 10:28
MW-8	MLG0032-02	Water	06/28/02 13:10	07/01/02 10:28
MW-9	MLG0032-03	Water	06/28/02 12:05	07/01/02 10:28
MW-10	MLG0032-04	Water	06/28/02 13:40	07/01/02 10:28
MW-11	MLG0032-05	Water	06/28/02 11:50	07/01/02 10:28
E-1A	MLG0032-06	Water	06/28/02 12:55	07/01/02 10:28
MW-15	MLG0032-07	Water	06/28/02 11:40	07/01/02 10:28
MW-16	MLG0032-08	Water	06/28/02 11:30	07/01/02 10:28
MW-22	MLG0032-09	Water	06/28/02 11:15	07/01/02 10:28
MW-25	MLG0032-10	Water	06/28/02 12:45	07/01/02 10:28
624H	MLG0032-11	Water	06/28/02 09:40	07/01/02 10:28
17349VM	MLG0032-12	Water	06/28/02 10:50	07/01/02 10:28
17372VM	MLG0032-13	Water	06/28/02 10:05	07/01/02 10:28

Sequoia Analytical - Morgan Hill

Latonya Pelt, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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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

Reported:
 07/16/02 11:46

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-5 (MLG0032-01) Water Sampled: 06/28/02 13:25 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	180	100	ug/l	2	2G06024	07/06/02	07/06/02	8015Bm/8021 B	P-03
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	2.6	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	1.2	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	230	5.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		104 %		70-130	"	"	"	"	
MW-8 (MLG0032-02) Water Sampled: 06/28/02 13:10 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	150	50	ug/l	1	2G06024	07/06/02	07/06/02	8015Bm/8021 B	P-03
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	2.9	0.50	"	"	"	"	"	"	
Ethylbenzene	0.54	0.50	"	"	"	"	"	"	
Xylenes (total)	1.5	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	130	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		112 %		70-130	"	"	"	"	
MW-9 (MLG0032-03) Water Sampled: 06/28/02 12:05 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G06024	07/06/02	07/06/02	8015Bm/8021 B	
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 %		70-130	"	"	"	"	



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

Reported:
07/16/02 11:46

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-10 (MLG0032-04) Water Sampled: 06/28/02 13:40 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	820	200	ug/l	4	2G10002	07/10/02	07/10/02	8015Bm/8021 B	P-03
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1200	10	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.2 %		70-130	"	"	"	"	
MW-11 (MLG0032-05) Water Sampled: 06/28/02 11:50 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G06024	07/06/02	07/06/02	8015Bm/8021 B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %		70-130	"	"	"	"	
E-1A (MLG0032-06) Water Sampled: 06/28/02 12:55 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	260	50	ug/l	1	2G06024	07/06/02	07/06/02	8015Bm/8021 B	P-03
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	11	0.50	"	"	"	"	"	"	
Ethylbenzene	1.2	0.50	"	"	"	"	"	"	
Xylenes (total)	1.2	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	150	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		124 %		70-130	"	"	"	"	



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

Reported:
07/16/02 11:46

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-15 (MLG0032-07) Water Sampled: 06/28/02 11:40 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G06024	07/06/02	07/06/02	8015Bm/8021	B
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether	8.7	2.5	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	70-130		"	"	"	"	"
MW-16 (MLG0032-08) Water Sampled: 06/28/02 11:30 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G06024	07/06/02	07/06/02	8015Bm/8021	B
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		109 %	70-130		"	"	"	"	"
MW-22 (MLG0032-09) Water Sampled: 06/28/02 11:15 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G06024	07/06/02	07/06/02	8015Bm/8021	B
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.8 %	70-130		"	"	"	"	"



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

Reported:
07/16/02 11:46

**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 (MLG0032-10) Water Sampled: 06/28/02 12:45 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G06024	07/06/02	07/06/02	8015Bm/8021 B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	36	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %	70-130		"	"	"	"	
624H (MLG0032-11) Water Sampled: 06/28/02 09:40 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G06025	07/06/02	07/06/02	8015Bm/8021 B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.5 %	70-130		"	"	"	"	
17349VM (MLG0032-12) Water Sampled: 06/28/02 10:50 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	66	50	ug/l	1	2G06025	07/06/02	07/06/02	8015Bm/8021 B	P-03
Benzene	0.50	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	45	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98.2 %	70-130		"	"	"	"	



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Oakland CA, 94607

Project: ARCO #608, San Lorenzo, Ca
Project Number: ARCO #608, San Lorenzo, CA
Project Manager: Scott Robinson

Reported:
07/16/02 11:46

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
17372YM (MLG0032-13) Water Sampled: 06/28/02 10:05 Received: 07/01/02 10:28									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G06025	07/06/02	07/06/02	8015Bm/8021 B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.8 %		70-130	"	"	"	"	



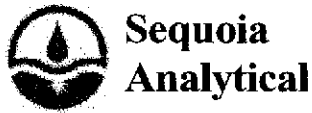
URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #608, San Lorenzo, Ca
Project Number: ARCO #608, San Lorenzo, CA
Project Manager: Scott Robinson

Reported:
07/16/02 11:46

**MTBE Confirmation by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
17349VM (MLG0032-12) Water Sampled: 06/28/02 10:50 Received: 07/01/02 10:28									
Methyl tert-butyl ether	47	0.50	ug/l	1	2G09031	07/09/02	07/09/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-140		"	"	"	"	



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 Morgan Hill, CA 95037
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 FAX (408) 782-6308
 www.sequoialabs.com

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

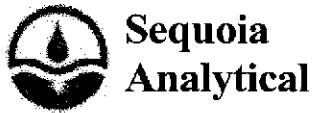
Reported:
 07/16/02 11:46

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 2G06024 - EPA 5030B [P/T]									
Blank (2G06024-BLK1)					Prepared & Analyzed: 07/06/02				
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	"						
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.9</i>		<i>"</i>	<i>10.0</i>		<i>109</i>	<i>70-130</i>		
LCS (2G06024-BS1)					Prepared & Analyzed: 07/06/02				
Benzene	10.4	0.50	ug/l	10.0		104	70-130		
Toluene	10.5	0.50	"	10.0		105	70-130		
Ethylbenzene	9.89	0.50	"	10.0		98.9	70-130		
Xylenes (total)	31.4	0.50	"	30.0		105	70-130		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.9</i>		<i>"</i>	<i>10.0</i>		<i>109</i>	<i>70-130</i>		
LCS (2G06024-BS2)					Prepared & Analyzed: 07/06/02				
Gasoline Range Organics (C6-C10)	266	50	ug/l	250		106	70-130		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>14.7</i>		<i>"</i>	<i>10.0</i>		<i>147</i>	<i>70-130</i>		<i>S-02</i>
Matrix Spike (2G06024-MS1)					Source: MLG0032-02 Prepared & Analyzed: 07/06/02				
Gasoline Range Organics (C6-C10)	503	50	ug/l	550	150	64.2	60-140		
Benzene	8.02	0.50	"	6.60	ND	120	60-140		
Toluene	44.7	0.50	"	39.7	2.9	105	60-140		
Ethylbenzene	10.3	0.50	"	9.20	0.54	106	60-140		
Xylenes (total)	51.7	0.50	"	46.1	1.5	109	60-140		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>19.1</i>		<i>"</i>	<i>10.0</i>		<i>191</i>	<i>70-130</i>		<i>QM-07</i>
Matrix Spike Dup (2G06024-MSD1)					Source: MLG0032-02 Prepared & Analyzed: 07/06/02				
Gasoline Range Organics (C6-C10)	473	50	ug/l	550	150	58.7	60-140	6.15	25 QM-07
Benzene	7.21	0.50	"	6.60	ND	108	60-140	10.6	25
Toluene	39.8	0.50	"	39.7	2.9	92.9	60-140	11.6	25
Ethylbenzene	8.26	0.50	"	9.20	0.54	83.9	60-140	22.0	25
Xylenes (total)	44.1	0.50	"	46.1	1.5	92.4	60-140	15.9	25
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>17.0</i>		<i>"</i>	<i>10.0</i>		<i>170</i>	<i>70-130</i>		<i>QM-07</i>

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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

Reported:
07/16/02 11:46

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	RPD RPD	RPD Limit	Notes
Batch 2G06025 - EPA 5030B [P/T]									
Blank (2G06025-BLK1) Prepared & Analyzed: 07/06/02									
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	"						
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.7		"	10.0		107		70-130	
LCS (2G06025-BS1) Prepared & Analyzed: 07/06/02									
Benzene	11.0	0.50	ug/l	10.0		110		70-130	
Toluene	11.2	0.50	"	10.0		112		70-130	
Ethylbenzene	10.5	0.50	"	10.0		105		70-130	
Xylenes (total)	33.7	0.50	"	30.0		112		70-130	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.3		"	10.0		113		70-130	
LCS (2G06025-BS2) Prepared & Analyzed: 07/06/02									
Gasoline Range Organics (C6-C10)	276	50	ug/l	250		110		70-130	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.88		"	10.0		98.8		70-130	
Matrix Spike (2G06025-MS1) Source: MLG0028-03 Prepared & Analyzed: 07/06/02									
Gasoline Range Organics (C6-C10)	506	50	ug/l	550	ND	92.0		60-140	
Benzene	8.99	0.50	"	6.60	ND	136		60-140	
Toluene	42.1	0.50	"	39.7	ND	106		60-140	
Ethylbenzene	9.17	0.50	"	9.20	ND	98.6		60-140	
Xylenes (total)	51.0	0.50	"	46.1	ND	111		60-140	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.3		"	10.0		113		70-130	
Matrix Spike Dup (2G06025-MSD1) Source: MLG0028-03 Prepared & Analyzed: 07/06/02									
Gasoline Range Organics (C6-C10)	545	50	ug/l	550	ND	99.1	7.42	60-140	25
Benzene	5.95	0.50	"	6.60	ND	90.2	40.7	60-140	25 QM-07
Toluene	40.0	0.50	"	39.7	ND	101	5.12	60-140	25
Ethylbenzene	9.06	0.50	"	9.20	ND	97.4	1.21	60-140	25
Xylenes (total)	46.1	0.50	"	46.1	ND	100	10.1	60-140	25
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.3		"	10.0		103		70-130	

Sequoia Analytical - Morgan Hill

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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	Reported: 07/16/02 11:46
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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	Limit	RPD	RPD Limit	Notes
Batch 2G10002 - EPA 5030B [P/T]										
Blank (2G10002-BLK1) Prepared & Analyzed: 07/10/02										
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	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.8		"	10.0		118	70-130			
LCS (2G10002-BS1) Prepared & Analyzed: 07/10/02										
Benzene	10.9	0.50	ug/l	10.0		109	70-130			
Toluene	11.0	0.50	"	10.0		110	70-130			
Ethylbenzene	11.3	0.50	"	10.0		113	70-130			
Xylenes (total)	33.5	0.50	"	30.0		112	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	12.1		"	10.0		121	70-130			
LCS (2G10002-BS2) Prepared & Analyzed: 07/10/02										
Gasoline Range Organics (C6-C10)	242	50	ug/l	250		96.8	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	12.4		"	10.0		124	70-130			
Matrix Spike (2G10002-MS1) Source: MLF0709-11 Prepared & Analyzed: 07/10/02										
Gasoline Range Organics (C6-C10)	449	50	ug/l	550	ND	77.8	60-140			
Benzene	11.3	0.50	"	6.60	ND	171	60-140			QM-07
Toluene	45.0	0.50	"	39.7	ND	113	60-140			
Ethylbenzene	10.5	0.50	"	9.20	ND	114	60-140			
Xylenes (total)	52.4	0.50	"	46.1	ND	114	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.9		"	10.0		119	70-130			
Matrix Spike Dup (2G10002-MSD1) Source: MLF0709-11 Prepared & Analyzed: 07/10/02										
Gasoline Range Organics (C6-C10)	465	50	ug/l	550	ND	80.7	60-140	3.50	25	
Benzene	11.4	0.50	"	6.60	ND	173	60-140	0.881	25	QM-07
Toluene	43.3	0.50	"	39.7	ND	109	60-140	3.85	25	
Ethylbenzene	10.2	0.50	"	9.20	ND	111	60-140	2.90	25	
Xylenes (total)	50.1	0.50	"	46.1	ND	109	60-140	4.49	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.0		"	10.0		110	70-130			



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Project: ARCO #608, San Lorenzo, Ca
Project Number: ARCO #608, San Lorenzo, CA
Project Manager: Scott Robinson

Reported:
07/16/02 11:46

**MTBE Confirmation by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2G09031 - EPA 5030B P/T									
Blank (2G09031-BLK1)									
Prepared & Analyzed: 07/09/02									
Methyl tert-butyl ether	ND	0.50	ug/l						
Surrogate: 1,2-Dichloroethane-d4	5.38		"	5.00		108 60-140			
LCS (2G09031-BS1)									
Prepared & Analyzed: 07/09/02									
Methyl tert-butyl ether	10.5	0.50	ug/l	10.0		105 70-130			
Surrogate: 1,2-Dichloroethane-d4	5.16		"	5.00		103 60-140			
LCS Dup (2G09031-BSD1)									
Prepared & Analyzed: 07/09/02									
Methyl tert-butyl ether	10.6	0.50	ug/l	10.0		106 70-130	0.948	25	
Surrogate: 1,2-Dichloroethane-d4	5.12		"	5.00		102 60-140			



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Oakland CA, 94607

Project: ARCO #608, San Lorenzo, Ca
Project Number: ARCO #608, San Lorenzo, CA
Project Manager: Scott Robinson

Reported:
07/16/02 11:46

Notes and Definitions

- P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C10
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- 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

Project Name OLC 23 MFL
 Business Unit Atlantic Richfield Company
 BP Laboratory Contract Number: _____

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

Date: 01-23-02 Requested Due Date (mm/dd/yy) 01-23-02

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 17801 HESPERIAN BL, SAN LORENZO, CA	Address: 529 12th St. Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. ARCO 808	Oakland, CA 94608-4014
Lab PM: LaTonya Pelt	Site Lat/Long:	e-mail EDD: sved_rehan@urscorp.com
Tele/Fax: 408-776-9600 / 408-782-6308	California Global ID #:	Consultant/Contractor Project No.: IS-00000608.01 00427
Report Type & QC Level:	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-3280/510-874-3268
BP/GEM Account No.:	Address:	Consultant/Contractor PM: Scott Robinson
Lab Bottle Order No.:	Tele/Fax:	Invoice to: Consultant/Contractor or <u>BP/GEM</u> (Circle one)
		BP/GEM Work Release No:

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	P ₂ O ₅	HNO ₃	HCl	TPH-G/TEX (8015/8020)	TPH-d (8015)	MTBE (8021)	MTBE (8260) TANK/2TBE	DMPE, TDA (8260)	1,2-DCA & EDB (8260)	
1	642H	0940	X				11	1				X		X					Confirm MTBE
2	17349 VM	1050	X				12	3				X		X					at 642H
3	17372 VM	1005	X				13	3				X		X					17349 VM &
4																			17372 VM by
5																			8260
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Michael Toll</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>7/1/02</u>	Time: <u>9:50</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>7/1/02</u>	Time: <u>9:50</u>
Sampler's Company: <u>Blaine Tech Services</u>	<u>[Signature]</u>	<u>7/1/02</u>	<u>10:28</u>	<u>[Signature]</u>	<u>7/1/02</u>	<u>10:28</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals in Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 26 °F/C Trip Blank Yes No



Chain of Custody Record

Project Name 02-0623-MT1
 Business Unit Atlantic Richfield Company
 BP Laboratory Contract Number: _____

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

Date: 06-28-02 Requested Due Date (mm/dd/yy) _____ MLG0032

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 17601 HESPERIAN BL. SAN LORENZO, CA	Address: 629 12th St, Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. ARCO 608	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #:	Consultant/Contractor Project No.: JS-00000608.01 00427
Lab PM: LaTonya Pelt	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-3280/510-874-3268
Tele/Fax: 408-778-9600 / 408-782-8308	Address:	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level:	Tele/Fax:	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.:		BP/GEM Work Release No.:

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH (8015)	TPH (8015)	MTBE (8021)	MTBE (8260)	TAME, ETR, DIPE, TBA (8260)	1,2-DCA & EDB (8260)	
1	MW-5	1215		X			01	3					X	X					
2	MW-8	1310		X			02	3					X	X					
3	MW-9	1205		X			03	3					X	X					
4	MW-10	1340		X			04	3					X	X					
5	MW-11	160115		X			05	3					X	X					
6	E-1A	125115		X			06	3					X	X					
7	MW-15	1140		X			07	3					X	X					
8	MW-16	1130		X			08	3					X	X					
9	MW-22	115		X			09	3					X	X					
10	MW-25	1245		X			10	3					X	X					

Sampler's Name: <u>Michael Bell</u>	Relinquished By / Affiliation: <u>[Signature] BIS</u>	Date: <u>7/1/02</u>	Time: <u>9:50</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>7/1/02</u>	Time: <u>9:50</u>
Sampler's Company: <u>Blair Tech Services</u>		Date: <u>7/1/02</u>	Time: <u>10:28</u>		Date: <u>7/1/02</u>	Time: <u>10:28</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No.:						

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

Custody Seals In Place Yes No X Temperature Blank Yes No X Cooler Temperature on Receipt: 2.6 °F/C Trip Blank Yes No X

ATTACHMENT C
REMEDIAL SYSTEM PERFORMANCE EVALUATION

REMEDIAL SYSTEM PERFORMANCE EVALUATION

Remedial action consisting of groundwater extraction and treatment (GWET) was initiated at the site on September 26, 1991, and was deactivated on August 21, 1995, with approval from the Alameda County Health Care Services Agency (ACHCSA). The GWET system was reactivated June 5, 2000, to address elevated concentrations of methyl tert-butyl ether (MTBE). Remedial objectives from the GWET system at this site include: (1) migration control of the impacted groundwater plume and (2) MTBE mass reduction. To evaluate GWET system performance, Shaw monitored well water levels and instantaneous and average extraction flow rates. Shaw also sampled the influent between carbon vessels and the effluent of the treatment system for total purgeable petroleum hydrocarbons as gasoline (TPH-g); benzene, toluene, ethylbenzene, xylene (BTEX compounds); and methyl tert-butyl ether (MTBE) on a monthly basis. Treatment system effluent is also analyzed for chemical oxygen demand, total suspended solids, and pH as requested by the Oro Loma Sanitary District. A brief description and a performance evaluation of the GWET system from March 5 to May 16, 2002 are presented below.

Description

The GWET system is comprised of an extraction well (E-1A) containing an electric submersible pump and three 1,200-pound granular activated carbon (GAC) vessels to treat the influent groundwater stream before it is discharged into the sanitary sewer. The carbon vessels are arranged in series, with valves to permit bed order rotation to maximize the useful life of the GAC. This allows for the rotation of the carbon vessels after the carbon in the primary vessel has been renewed. Sample ports are located at the treatment system influent, effluent, and the mid-points between the carbon vessels. Treatment system effluent is discharged into the sanitary sewer system in accordance with Permit No. SDP-037 issued by the Oro Loma Sanitary District on May 15, 2001. The permit will be effective through May 14, 2002. Permit SDP-037 was reissued August 6, 2002 and is effective until August 5, 2002. During June and July 2001, reserve remedial piping was installed across the site in conjunction with the station remodeling and upgrade activities.

Migration Control

Progress toward meeting the migration control objective is evaluated by a comparison of the groundwater elevation map (Figure 1 of the Quarterly Groundwater Monitoring Report) and the TPH-g, benzene, and MTBE concentrations (Table 2 and 3) from the current quarterly groundwater monitoring event with those from previous monitoring events. Upon completing the above comparisons, URS Corporation concludes that MTBE concentrations at onsite well MW-25 and offsite well MW-10 have risen since last quarter.

Mass Reduction

Progress toward meeting the mass reduction objective is determined by evaluating GWET system mass removal data and the concentration trends in nearby groundwater monitoring wells. GWE

system operational data are collected monthly. The system flow and influent sample analysis data are used to estimate mass removal values. Performance data for the GWET system are presented in Table C-1. GWET system certified analytical reports and chain-of-custody documentation are presented as Attachment B of this report. Progress toward site remediation is presented in the following table.

Technology	Mass Removed		Cumulative	
	4/8/01 – 5/16/02		(lbs)	(gal)
Analyte	(lbs)	(gal)	(lbs)	(gal)
Groundwater Extraction				
TPH-g	0.37	0.06	6.85	1.12
Benzene	0.006	0.001	0.31	0.04
MTBE*	0.37	0.05	2.33	0.32
Lbs = Pounds				
gal = Gallons				
TPPH-g = Total purgeable petroleum hydrocarbons calculated as gasoline				
* = MTBE was not calculated prior to 06/15/00				

Graphs of TPH-g and benzene mass removal rates and concentrations versus time are shown on Figures C-1 and C-2, respectively. Graphical presentations of MTBE mass removal rate and concentration versus time are shown on Figures C-3 and C-4, respectively.

Groundwater Extraction System Operational Data

The GWET system was approximately 97 percent operational during the reporting period. Down time was due to regular system maintenance and the system being shut down resulting from PG&E interrupting electrical service. During the reporting period, the GWE system discharged treated groundwater at an average flow rate of approximately 1.5 gallons per minute (gpm) for a period discharge of 145,860 gallons. Treatment system analytical data are presented in Table C-2. Shaw took no sample during the month of June. The site was transferred from Shaw to URS Corporation on June 27, 2002. URS Corporation was unable to take a sample at the close of June.

During this quarter, the GWE system was in compliance with all conditions stipulated in the discharge permit, including pH, total suspended solids, and chemical oxygen demand. Operation and maintenance field data sheets and certified analytical reports are presented as Attachment B of this report.

Table C-1
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			Benzene			MtBE			Primary Carbon Loading (%)
						Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	
09/25/91	0	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	39,888	13.0	ND	N/A	0.00	0.52	0.000	0.00	N/A	N/A	N/A	0.0
12/18/91	322	62	122,540	70,006	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	662,647	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	1,030,098	178,988	4.3	45	0.16	1.17	1.4	0.009	0.07	N/A	N/A	N/A	1.5
06/19/92	4,712	0	1,229,990	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	0.06	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	116,459	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
01/16/93	8,796	61	1,915,165	50,885	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	0.16	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	13,868	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	16,290	0	3,113,585	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	82,620	1.9	ND	0.02	3.51	2.5	0.002	0.24	N/A	N/A	N/A	4.4
03/15/94	18,235	7	3,344,248	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	3.3	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	0.25	N/A	N/A	N/A	4.6
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
10/16/94	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	25,485	6	569,160	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	780,350	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	g
08/21/95 d	29,588	0	993,320	72,060	1.1	230	0.15	4.86	1.8	0.001	0.29	N/A	N/A	N/A	g
09/05/00 e	29,592	N/A	976,600	N/A	N/A	700	N/A	4.96	7.2	N/A	0.29	361	N/A	0.00	N/A g
09/05/00	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	1,131,580	151,760	3.3	133	0.53	5.40	5.1	0.008	0.30	272	0.40	0.41	N/A g

Table C-1
Groundwater Extraction System Performance Data

ARCO Service Station 0808
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			Benzene			MIBE			Primary Carbon Loading (%)	
						Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)		
08/07/00	30,956	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	5.88	ND	0.000	0.31	98.6	0.05	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	33,824	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
05/04/01	35,716	0	1,812,690	41,630	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	84	0.04	6.27	ND	0.000	0.31	71	0.05	1.03	N/A	g
07/05/01	h 36,469	80	1,897,190	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	370	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	66,880	1.6	65	0.02	6.41	ND	0.000	0.31	63	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	6.48	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	42,842	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
REPORTING PERIOD:						3/5/02 - 5/16/02										
TOTAL GALLONS EXTRACTED:						6,130,768										
PERIOD GALLONS EXTRACTED:						145,860										
TOTAL POUNDS REMOVED:						6.85			0.31			2.33				
TOTAL GALLONS REMOVED:						1.12			0.04			0.32				
AVERAGE PERIOD FLOW RATE (gpm):						1.5										
PERIOD PERCENT OPERATIONAL:						97%										
PERIOD POUNDS REMOVED:						0.37			0.006			0.37				
PERIOD GALLONS REMOVED:						0.06			0.001			0.05				
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 MIBE loading because MIBE wasn't tracked prior to 8/5/00.										
Densities: Gasoline = 6.1 lbs/gallon; Benzene = 7.34 lbs/gallon.						h. System down during construction to main sewer line from approx. 6/25/01; restarted 8/14/01.										
MIBE not quantified prior to 6/5/00																
Equations: Net Dissolved TPH-g Removed [pounds] =						TPH-g concentration, [µg/L] x net volume (gallon) x density of gasoline [pound/gallon]										
						(Net dissolved TPH-g removed is calculated by averaging influent concentrations)										

Table C-2
Treatment System Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline and BTEX Compounds)

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

Date Sampled	TPPH as Gasoline (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	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
11/22/91	<30	0.5	<0.3	<0.3	<0.3	NS	NS	NS	NA
12/19/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
01/16/91	<30	<0.3	<0.3	<0.3	<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	<0.3	7.3	0.77	NS	NS	NS	NA
05/14/92	45	1.4	<0.3	<0.3	<0.3	NS	NS	NS	NA
06/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
07/14/92	97	25	<0.5	8.5	<0.5	NS	NS	NS	NA
08/18/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/15/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/16/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/18/92	<50	<0.5	<0.5	<0.5	<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	<0.5	<0.5	4.8	NS	NS	NS	NA
10/08/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/19/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/21/93	73	3.5	<0.5	1.9	8.4	NS	NS	NS	NA
01/18/94	60	3.1	<0.5	3.2	4.3	NS	NS	NS	NA
02/17/94	<50	2.5	<0.5	2.1	3.1	NS	NS	NS	NA
03/15/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
04/21/94	110	7.8	<1.0	9.6	<1.0	NS	NS	NS	NA
05/13/94	230	8.3	<0.5	14	6.0	NS	NS	NS	NA
06/14/94	230	12	<0.5	16	1.5	NS	NS	NS	NA
07/14/94	270	6.9	<0.5	15	1.9	NS	NS	NS	NA
08/18/94	<50	1.8	<0.5	1.5	<0.5	NS	NS	NS	NA
09/12/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/18/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/05/94	<50	0.66	<0.5	2.6	<0.5	NS	NS	NS	NA
12/05/94	470	32	0.59	29	6.2	NS	NS	NS	NA
01/04/95	<50	1.1	<0.50	1.4	<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	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
04/04/95	290	6.6	<0.50	10	1.7	NS	NS	NS	NA
05/02/95	240	7.1	<0.50	3.2	1.6	NS	NS	NS	NA
06/05/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
07/06/95	270	2.4	<0.50	7.6	1.0	NS	NS	NS	NA
08/21/95	230	1.8	<0.50	1.6	0.9	NS	NS	NS	NA
06/05/00	700	7.24	<1.00	2.11	<1.00	361	NS	NS	NA
07/08/00	133	5.09	0.598	<0.500	<0.500	272	NS	NS	NA
08/10/00	144	2.80	<0.500	1.04	<0.500	126	NS	NS	NA
09/08/00	261	2.74	0.826	0.626	<0.500	120	NS	NS	NA
10/10/00	114	<0.500	1.68	0.843	<0.500	<2.50	NS	NS	NA

Table C-2
Treatment System Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline and BTEX Compounds)

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

Date Sampled	TPPH as Gasoline (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	<0.500	<0.500	<0.500	<0.500	98.6	NS	NS	NA
12/05/00	167	0.775	<0.500	<0.500	<0.500	104	NS	NS	NA
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	86.8	NS	NS	NA
02/06/01	203	0.572	<0.500	0.513	<0.500	80.5	NS	NS	NA
03/08/01	219	<0.500	6.16	1.21	0.682	81.0	NS	NS	NA
04/18/01	74.5	<0.500	<0.500	<0.500	<0.500	97.5	NS	NS	NA
05/04/01	63.3	<0.500	<0.500	<0.500	<0.500	93.2	NS	NS	NA
06/09/01	64	<0.50	<0.50	<0.50	<0.50	71	NS	NS	NA
07/05/01	100	<0.50	2.5	<0.50	<0.50	430	NS	NS	NA
08/14/01	290	2.2	3.5	<1.0	<1.0	870	NS	NS	NA
09/05/01	<100	<1.0	<1.0	<1.0	<1.0	340	NS	NS	NA
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	150	NS	NS	NA
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	92	NS	NS	NA
12/11/01	65	<0.50	0.58	<0.50	<0.50	83	NS	NS	NA
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	140	NS	NS	NA
02/05/02	100	<0.50	<0.50	<0.50	<0.50	190	NS	NS	NA
03/05/02	150	<1.2	<1.2	<1.2	<1.2	350	NS	NS	NA
04/08/02	400	9.6	<1.0	1.4	<1.0	260	NS	NS	NA
05/16/02	310	<1.0	<1.0	<1.0	<1.0	330	NS	NS	NA
MID-1 (between primary and secondary carbons)									
09/26/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
10/22/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
12/19/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
01/16/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
02/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
03/17/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
04/15/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
05/14/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
06/19/92	<30	<0.3	<0.3	<0.3	<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	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA

Table C-2
Treatment System Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline and BTEX Compounds)

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

Date Sampled	TPPH as Gasoline (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.)									
09/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
10/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
11/07/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
12/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
02/06/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
03/08/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
04/18/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
05/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	3.3	NS	NS	NA
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	5.7	NS	NS	NA
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	9.0	NS	NS	NA
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	26	NS	NS	NA
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	17	NS	NS	NA
04/08/02	<50	<0.50	<0.50	<0.50	<0.50	39	NS	NS	NA
05/16/02	<50	<0.50	<0.50	<0.50	<0.50	58	NS	NS	NA
MID-2 (between secondary and tertiary carbons)									
06/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<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	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
02/06/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
03/08/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
04/18/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
05/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
04/08/02	<50	<0.50	<0.50	<0.50	<0.50	4.7	NS	NS	NA
05/16/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
EFFL (effluent to sewer)									
09/26/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
10/22/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
11/22/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
12/19/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
01/16/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
02/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
03/17/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA

Table C-2
Treatment System Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline and BTEX Compounds)

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

Date Sampled	TPPH as Gasoline (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.)									
04/15/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
05/14/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
06/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
07/14/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
08/18/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/15/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/16/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/18/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/17/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
01/18/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
02/22/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
03/15/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
04/09/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
05/13/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
06/04/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
07/20/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
08/16/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/13/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/08/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/19/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/21/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
01/18/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
02/17/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
03/15/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
04/21/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
05/13/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
06/14/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
07/14/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
08/17/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/12/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/18/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/05/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/05/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
01/04/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
02/06/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
03/02/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
04/04/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
05/02/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
06/05/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
07/06/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
08/21/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
06/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	7.19
06/12/00	<50.0	NS	NS	NS	NS	NS	NS	NS	NA
07/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	32.1	<10.0	7.08
08/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	23.4	<10.0	6.67
09/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	29.2	<10.0	6.82
10/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.25
11/07/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.24
12/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	44.0	<10.0	7.48
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.00
02/06/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	10.7	7.03
03/08/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.04
04/18/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	28.5	<10.0	7.06

Table C-2
Treatment System Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline and BTEX Compounds)

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

Date Sampled	TPPH as Gasoline (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.)									
05/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.31
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	34	<10	7.05
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.10
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	14	7.09
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	70	<10	7.07
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	55	<10	6.89
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	150	<10	6.98
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	34	<10	7.01
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	52	<10	7.22
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.91
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.77
04/08/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.52
05/16/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.60
TPPH = Total purgeable petroleum hydrocarbons MtBE = Methyl tert Butyl Ether COD = Chemical oxygen demand TSS = Total suspended solids µg/L = Micrograms per liter mg/L = Milligrams per liter < = Denotes minimum laboratory detection limit. NA = Not applicable or not available NS = Not sampled ND = Not detected									

Figure C-1
Groundwater Extraction System Concentration Trend
TPH-g and Benzene

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

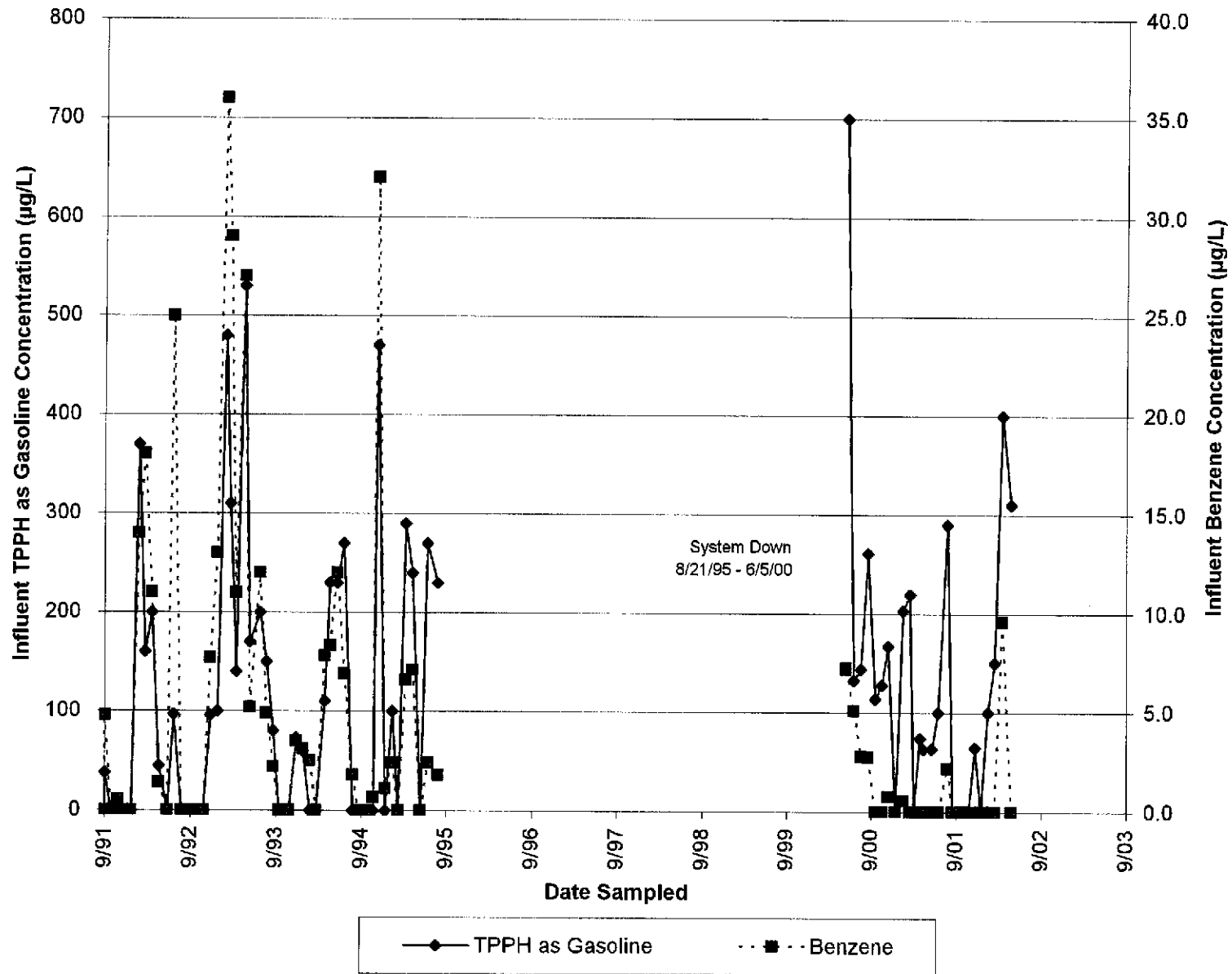


Figure C-2
Groundwater Extraction System Mass Removal Trend
MTBE

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

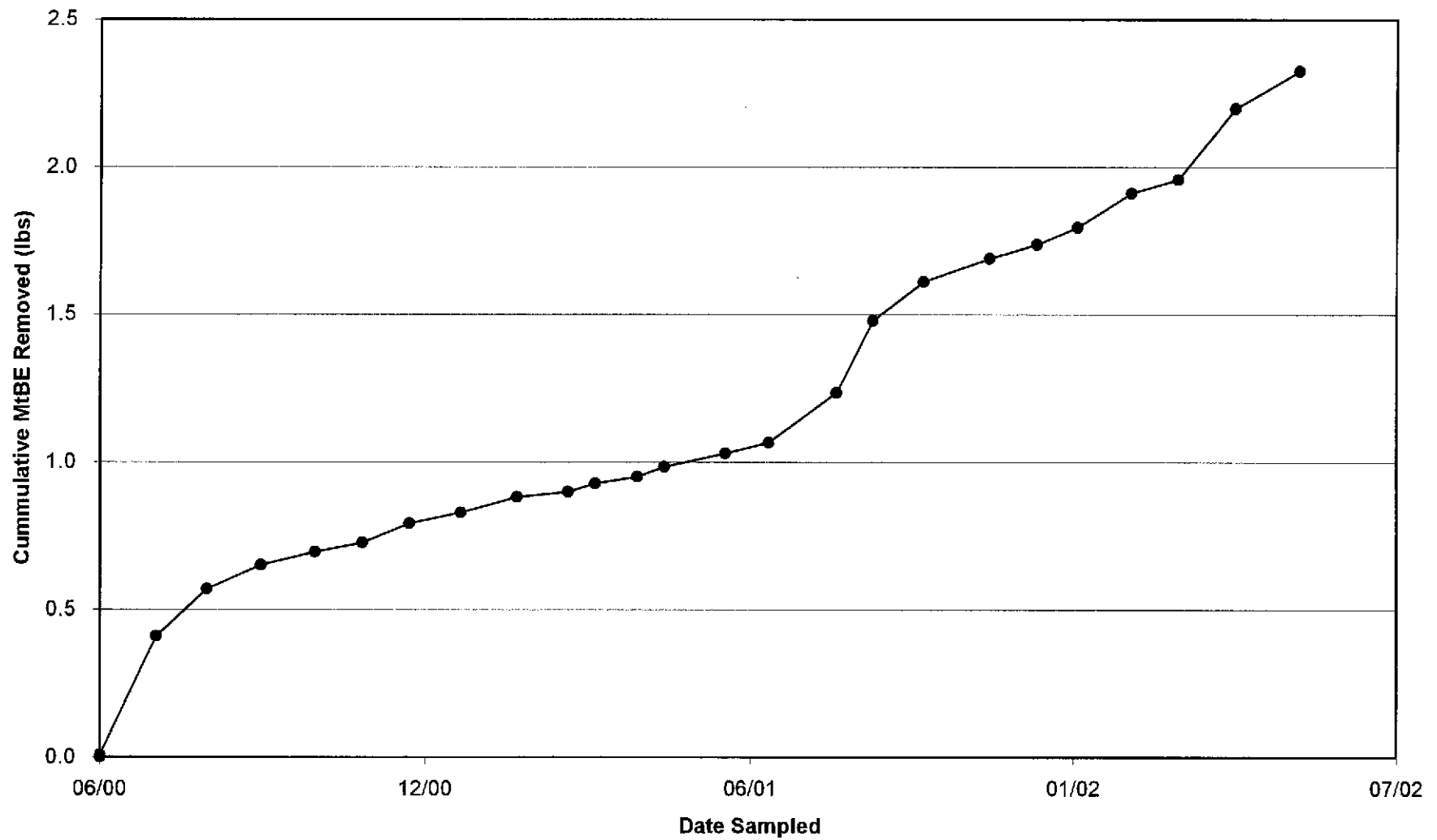
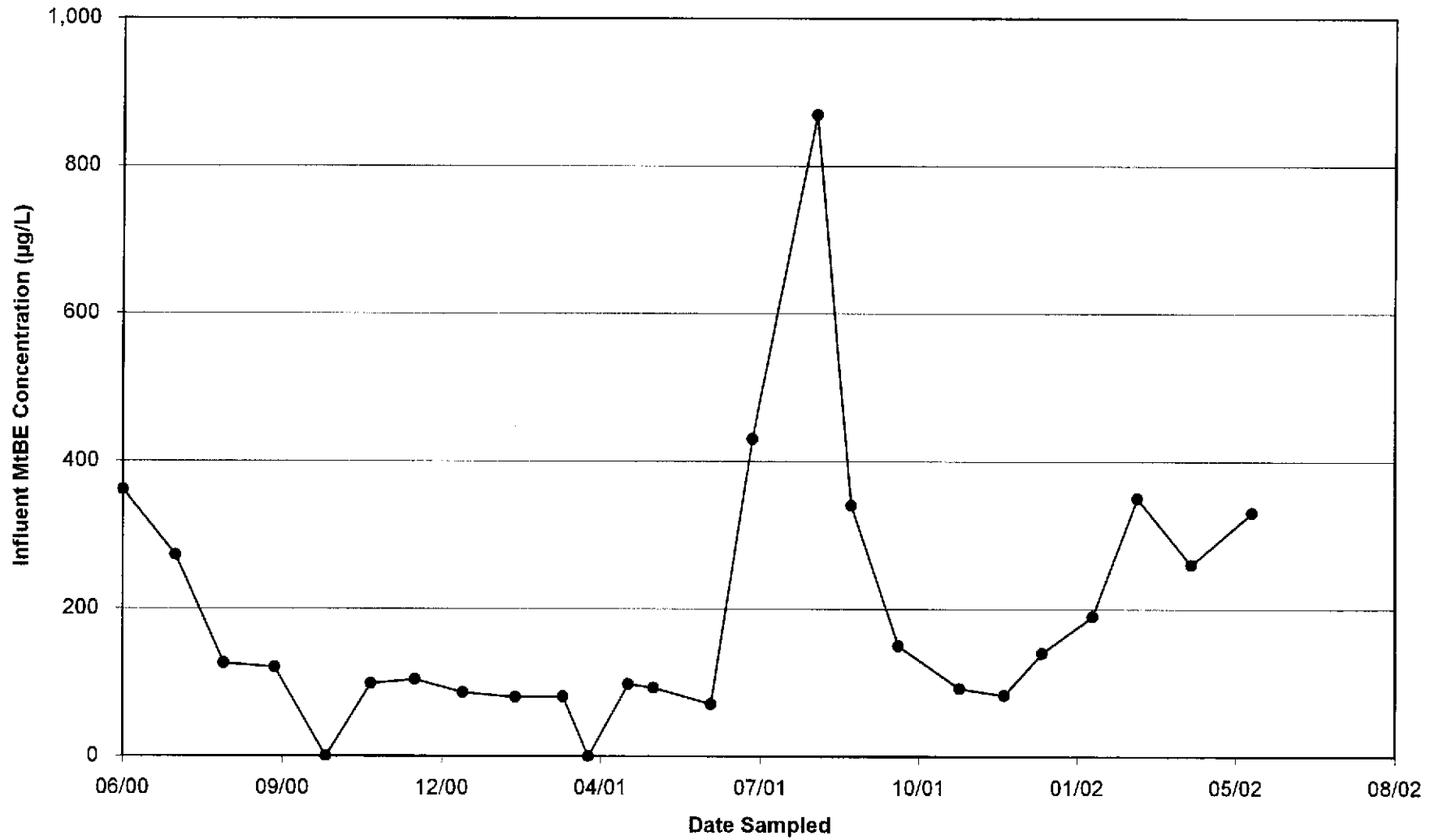


Figure C-3
Groundwater Extraction System Concentration Trend
MTBE

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



ATTACHMENT D
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	1,800	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	21.36	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	160	<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, 16/96	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
			11/26, 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, 16/99		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	0.91	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	11.50		21.29	530	3.0	1.7	1.9	1.5	26	2.0		
	03/19, 20/98	9.40		23.39	440	1.4	<0.50	<0.50	3.7	140	2.2		
	06/03/98	10.25		22.54	360	2.2	1.2	1.8	1.0	47	0.3		
	09/21, 22/98	11.37		21.42	380	<2.5	<2.5	<2.5	<2.5	620	0.0		
	12/14, 15/98	10.80		21.99	<50	<0.50	<0.50	<0.50	<0.50	1,600	0.0		
	03/15, 16/99	10.00		22.79	<500	<5.0	<5.0	<5.0	<5.0	625	0.0		
	06/14, 15/99	11.17		21.62	166	<0.50	<0.50	<0.50	<0.50	141	NM		
	09/15, 16/99	11.65		21.14	<500	<5.0	<5.0	<5.0	<5.0	2,380	2.4		
	12/08, 09/99	11.48		21.31	213	<0.50	<0.50	<0.50	<0.50	4,160	2.8		
	03/15/00	9.38		23.41	133	<0.50	3.44	<0.50	0.548	1,350	2.2		
	03/15/00	a		—	—	—	—	—	—	1,980	—		
	06/13/00	b		11.93	20.86	227	<0.50	<0.50	<0.50	<0.50	657	1.0	
9/19, 20/2000	11.46	21.33	191	1.7	3.2	<0.50	1.2	160	1.0				
12/14, 15/00	10.97	21.82	243	<0.50	<0.50	<0.50	<0.50	243	2.0				
3/8, 9/01	9.60	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				
09/28/01	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)	Ethylbenzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)		
MW-9	03/13, 15/96	32.11	7.85	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		10.85	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	20.58		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		459	<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		

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)	
MW-11 (cont.)	06/14, 15/99		11.25	21.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4	
	09/15/99		11.68	20.86	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.4	
	12/08, 09/99		11.53	21.01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
	03/16/00		9.32	23.22	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.7	
	06/13/00	b	11.05	21.49	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0	
	9/19, 20/00		11.37	21.17	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	3/8, 9/01		11.00	21.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0	
	3/8, 9/01		9.78	22.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	06/14/01		11.23	21.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.4	
	09/26/01		11.70	20.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6	
	12/29/01		9.91	22.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	03/13/02		10.38	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	E-1A (MW-12)	03/13, 14/96	33.06	10.35	22.71	2,700	38	<5.0	130	6.2	NA	NM
		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	46	<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	23.64	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	<0.60	<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	22.64	<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 (cont.)	06/14, 15/99		9.54	20.92	Well Sampled Annually							
	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	<0.60	<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	<0.60	<0.50	<0.50	12	NM	
03/31-04/01/97			10.45	20.96	<50	<0.50	<0.60	<0.50	<0.50	7.2	NM	
06/25/97			11.39	20.02	<50	<0.50	<0.60	<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		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	0.617	<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	7.63	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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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-18 (cont.)	03/31-04/01/97		10.14	19.66	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	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	
	06/28, 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)	Ethylbenzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)	
MW-22 (cont.)	03/15/00	b	9.20	20.09	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.1	
	06/13/00		11.06	18.23	<50	<0.50	<0.50	<0.50	<0.50	6.85	1.0	
	9/19,20/00		11.12	18.17	<50	<0.50	<0.50	<0.50	<0.50	3.18	1.8	
	12/14,15/00		10.85	18.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	3/8,9/01		9.43	19.88	<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	<2.5	2.3
	09/21,22/98		12.31	18.68	<50	<0.50	0.54	1.9	<0.50	<2.5	2.2	
	12/14/98		11.67	19.32	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.0	
	03/15,16/99		10.82	20.17	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6	
	06/14,15/99		12.08	18.91								
	09/15/99		12.48	18.51								
	12/08,09/99		12.29	18.70								
	03/15/00		10.04	20.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	08/13/00		11.95	19.04								
	9/19,20/00		12.15	18.84								
	12/14,15/00		12.25	18.74								
	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								
	09/26/01		12.40	18.59								
	12/29/01		10.42	20.57								
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	<2.5	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									79		
	11/24,25/97		12.30	21.82	<50	<0.50	<0.50	<0.50	<0.50	130	0.0	
	03/19,20/98		10.18	23.94	<50	<0.50	<0.50	<0.50	<0.50	96	1.8	
	06/04/98		11.00	23.12	<50	<0.30	<0.30	<0.30	<0.60	44	0.8	
	09/21,22/98		12.13	21.99	<50	<0.50	<0.50	0.50	<0.50	150	0.4	
	12/14,15/98		11.60	22.52	<50	<0.50	<0.50	<0.50	<0.50	44	1.0	
	03/15,16/99		10.78	23.34	<50	<0.50	<0.50	<0.50	<0.50	26.6	2.0	
	06/14,15/99		11.97	22.15	<50	<0.50	<0.50	<0.50	<0.50	98.9	2.2	
	09/15,16/1999		12.34	21.78	<50	<0.50	<0.50	<0.50	<0.50	66.4	NM	
	12/08,09/99		12.25	21.87	<50	<0.50	<0.50	<0.50	<0.50	55.5	0.0	
	03/15/00		10.16	23.96	<50	<0.50	<0.50	<0.50	<0.50	154	1.0	
	03/15/00									206		
	06/13/00									77.7	1.0	
	9/19,20/00		12.08	22.04	<50	1	<0.50	<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	<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			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 (cont.)	09/09, 10/97		12.77	20.94	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0	
	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	<2.6	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				NA = Not analyzed						
MSL	= Mean sea level				NM = Not measured							
TOB	= Top of box				NS = Not sampled							
ppb	= Parts per billion				a. = MtBE result confirmed by EPA Method 8260.							
ppm	= Parts per million				b. = Depths to water originally measured from TOC. Depth to water adjusted to reflect a TOB measurement by adding the average difference between TOB and TOC measurements over the last four gauging events.							
<	= Less than laboratory detection limit				c. = well elevation changed during station reconstruction. well resurveyed 11/6/2001							
†	= Well sampled without purging.											
††	= ORC program initiated September 21, 1996 and discontinued on May 15, 1997.											
Please see certified analytical reports for laboratory notes and definitions.												

Table 3
Groundwater Analytical Data
 Domestic Irrigation Wells

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

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	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 (cont.)	06/03/98 e	NS	NS	NS	NS	NS	NS	NM
	09/21/98 e	NS	NS	NS	NS	NS	NS	NM
	12/14/98 e	NS	NS	NS	NS	NS	NS	NM
	03/15/99 e	NS	NS	NS	NS	NS	NS	NM
	06/14/99 e	NS	NS	NS	NS	NS	NS	NM
	09/15/99 e	NS	NS	NS	NS	NS	NS	NM
	12/08/99 e	NS	NS	NS	NS	NS	NS	NM
	03/15/00 e	NS	NS	NS	NS	NS	NS	NM
	06/13/00 e	NS	NS	NS	NS	NS	NS	NM
	09/19/00 e	NS	NS	NS	NS	NS	NS	NM
	12/14/00 e	NS	NS	NS	NS	NS	NS	NM
	03/08/01 e	NS	NS	NS	NS	NS	NS	NM
	06/14/01 e	NS	NS	NS	NS	NS	NS	NM
	09/26/01 e	NS	NS	NS	NS	NS	NS	NM
	12/29/01 e	NS	NS	NS	NS	NS	NS	NM
03/13/02 e	NS	NS	NS	NS	NS	NS	NM	
642 H	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	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
 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)	
675 H (cont.)	12/14/00 f	NS	NS	NS	NS	NS	NS	NM	
	03/08/01 f	NS	NS	NS	NS	NS	NS	NM	
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM	
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM	
	12/29/01 f	NS	NS	NS	NS	NS	NS	NM	
	03/13/02 f	NS	NS	NS	NS	NS	NS	NM	
17197 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	12/14/98	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4	
	03/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.6	
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
	12/08/99 a	NS	NS	NS	NS	NS	NS	NS	NM
	03/15/00 a	NS	NS	NS	NS	NS	NS	NS	NM
	06/13/00	<50	<0.50	<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	NS	NM
	03/08/01 f	NS	NS	NS	NS	NS	NS	NS	NM
	06/14/01 f	NS	NS	NS	NS	NS	NS	NS	NM
	09/26/01 f	NS	NS	NS	NS	NS	NS	NS	NM
12/29/01 f	NS	NS	NS	NS	NS	NS	NS	NM	
03/13/02 f	NS	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	NS	NM	
17302 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	

Table 3
Groundwater Analytical Data
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San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
17302 VM	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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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)
17349 VM (cont.)	06/03/98	860	8.7	<0.50	0.7	8.0	38	4.9
	07/29/98	860	20	2.1	<1.2	<1.2	27	NM
	07/29/98	--	--	--	--	--	25	c NM
	09/21/98	200	<0.50	<0.50	<0.50	14	14	5.2
	12/14/98	254	<0.50	6.92	0.804	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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 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)
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 per billion H = Hacienda Avenue VM = Via Magdalena VE = Via Encinas < = Less than laboratory detection limit stated to the right. * = MtBE data maybe anomalous; unable to confirm with EPA Method 8260. ** = Concentration data are suspect due to inadequate purging. Well resampled on August 18, 1997 for confirmation purposes. a. Owner not available to approve sampling access; well not sampled. b. Well resampled to confirm data of March 14, 1996. c. 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									