PACIFIC ENVIRONMENTAL GROUP, INC.

December 20, 1995
Project 330-006.2B

Mr. Michael Whelan
ARCO Products Company
P.O. Box 612530
San Jose, California 95161

Re: Quarterly Report - Third Quarter 1995
Remedial System Performance Evaluation
ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter, prepared by Pacific Environmental Group, Inc. (PACIFIC) on behalf of ARCO Products Company (ARCO), presents the results of the third quarter 1995 groundwater monitoring and remedial system performance evaluation at the site referenced above. In addition, a summary of work performed and anticipated at the site is included.

QUARTERLY GROUNDWATER MONITORING RESULTS

Groundwater samples were collected from site groundwater monitoring and domestic irrigation wells on September 14 and 15, 1995, and analyzed for the presence of total purgeable petroleum hydrocarbons calculated as gasoline (TPPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Additionally, analysis of groundwater samples for methyl t-butyl ether (MTBE) as requested by the Alameda County Health Care Services Agency (ACHCSA) was performed this quarter. Field and laboratory procedures are presented as Attachment A. Certified analytical reports, chain-of-custody documentation, and field data sheets are presented as Attachment B. Treatment system certified analytical reports and chain-of-custody documentation are presented as Attachment C.

Depth to water data collected on September 15, 1995 indicate that groundwater elevations have decreased in site groundwater monitoring wells an average of approximately 0.50 foot since May 30, 1995. Groundwater flow was to the west with an approximate gradient of 0.003. Groundwater elevation data are presented in Table 1. A groundwater elevation contour map based on the September 15, 1995 data is shown on Figure 1.

The results of groundwater monitoring this quarter for site groundwater monitoring wells indicate that TPPH-g and benzene concentrations are generally consistent with previous quarters. Wells MW-7, MW-9, MW-11, MW-13 through MW-16, MW-18, MW-19, MW-21 through MW-24, and MW-26 were below detection limits for TPPH-g and BTEX compounds. Benzene was below the detection limit in Wells MW-10, MW-17, and MW-25. TPPH-g was detected at concentrations ranging from 63 to 1,100 parts per billion (ppb). Benzene was detected at concentrations ranging from 3.3 to 30 ppb. Groundwater samples were also analyzed for methyl t-butyl ether (MTBE) this quarter. Separate-phase hydrocarbons (SPH) were not observed in any site well this quarter and have not been observed in any site well since August 29, 1990. Groundwater analytical data are presented in Tables 2 and 3. A TPPH-g and benzene concentration map is shown on Figure 2.

DOMESTIC IRRIGATION SUPPLY WELLS

The results of sampling this quarter for domestic irrigation wells indicate that TPPH-g and benzene concentrations are generally within historical range. This quarter Wells 634 H, 642 H, 675 H, and 17371 VM were not sampled. Wells 634 H and 642 H were not sampled because the homeowners were not available to allow access. Well 675 H was not sampled due to an inoperable pump. Well 17371 VM was not sampled as access was denied by the owner. TPPH-g and benzene were not detected in Wells 590 H, 17197 VM, 17203 VM, 17302 VM, 17348 VE, 17372 VM, and 17393 VM. TPPH-g was not detected in Well 633H; benzene was not detected in Well 17200 VM. TPPH-g was detected at 510 and 610 ppb in Wells 17200 VM and 17349 VM, respectively. Benzene was detected at 0.64 and 3.9 ppb in Wells 633 H and 17349 VM, respectively. Groundwater analytical data for domestic irrigation wells are presented in Tables 3 and 4.

REMEDIAL PERFORMANCE EVALUATION

Remedial action consisting of groundwater extraction (GWE) was initiated at the site on September 26, 1991. Remedial objectives at this site include: (1) migration control of the impacted groundwater plume, and (2) petroleum hydrocarbon mass reduction. In order to evaluate treatment system performance, PACIFIC monitored well water levels, instantaneous and average extracted water flow rates, and sampled the influent and effluent of the treatment system for TPPH-g and BTEX compounds 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 GWE system from June 5 to August 21, 1995, are presented below.

Description

The GWE system is comprised of an extraction well (E-1A) containing an electric submersible pump, and three 1,200-pound granular activated carbon vessels to treat the

influent groundwater stream before it is discharged into the sanitary sewer. The carbon vessels are arranged in series, with valving to permit bed order rotation. This allows for the primary vessel to become the secondary vessel after the carbon has been renewed. The third vessel serves as a polishing vessel. Sample ports are located at the treatment system influent, effluent, the mid-point between the carbon vessels, and at each individual well head. Treatment system effluent is discharged into the sanitary sewer system in accordance with Permit No. 90-073-91, issued by the Oro Loma Sanitary District on April 4, 1991. The permit was recently renewed and will be effective through April 4, 1996.

Migration Control

Progress toward meeting the migration control objective is evaluated by comparison of the groundwater elevation contour map (Figure 1) and TPPH-g and benzene concentration map (Figure 2) from previous and current groundwater monitoring events. **The GWE system was not operational during the quarterly monitoring event, therefore the migration control objective could not be fully evaluated. However, TPPH-g and benzene concentrations in downgradient wells are consistent with historical concentrations.**

Mass Reduction

Progress toward meeting the mass reduction objective is determined by evaluating GWE system mass removal data and the TPPH-g concentration trends in associated groundwater monitoring wells. GWE system operational data are collected monthly. The system flow and influent sample analysis data are used to estimate TPPH-g mass removal values. During this quarter, GWE removed 0.2 pound (0.04 gallon) of TPPH-g and an undetectable amount of benzene from the impacted groundwater beneath the site. To date, GWE has removed approximately 4.9 pounds (0.8 gallon) of TPPH-g and 0.29 pound (0.04 gallon) of benzene from impacted groundwater beneath the site. Mass removal data for the GWE system are presented in Table 4. Treatment system certified analytical reports, chain-of-custody documentation, and field data sheets are presented as Attachment C. Cumulative progress toward site remediation is presented in the following table.

	Mass Removed			
	06/05/95 to 08/21/95		Cumulative	
Analyte	(lbs)	(gal)	(lbs)	(gal)
Groundwater Extraction				
TPPH-g	0.2	0.04	4.9	0.8
Benzene	<0.01	<0.01	0.29	0.04

lbs = Pounds
gal = Gallons
TPPH-g = Total purgeable petroleum hydrocarbons calculated as gasoline

A graphical presentation of TPPH-g and benzene mass removal rate and concentrations versus time have been shown on Figures 3 and 4, respectively.

Groundwater Extraction System Operational Data

The GWE system was 100 percent operational during the reporting period. The GWE system was deactivated on August 21, 1995, in preparation for the dissolved oxygen enhancement and monitoring program as discussed in the conclusions below. During the reporting period, the GWE system discharged treated groundwater at an average operational flow rate of approximately 1.5 gallons per minute (gpm) for a period discharge of 144,510 gallons. The instantaneous groundwater system flow rate ranged from 1.1 to 1.9 gpm. Calculations based on 8 percent loading isotherm by weight indicate the primary carbon vessel is approximately 6.1 percent loaded. Treatment system analytical data are presented in Table 5.

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 C.

Conclusions

As indicated in PACIFIC's second quarter 1995 remedial system performance evaluation report, a dissolved oxygen (DO) enhancement and monitoring program was initiated at the site on September 21, 1995. The purpose of the program is to determine if DO can be significantly increased to enhance biodegradation of hydrocarbon in groundwater. This program was proposed in PACIFIC's RI/FS submitted to ACHCSA on June 28, 1995. The program calls for installing oxygen releasing compounds in Wells E-1A and MW-10. As approved by the ACHCSA, the GWE system was shut down on August 21, 1995, to allow natural transport of oxygen in groundwater. Please refer to the RI/FS report for more details about the program. Results of the program will be presented in PACIFIC's first quarter 1996 report. **Baseline groundwater biodegradation study field and laboratory data is presented in Table 7.**

SUMMARY OF WORK

Work Performed Third Quarter 1995

- Continued monitoring GWE system performance.
- Prepared and submitted second quarter 1995 groundwater monitoring and remedial system performance evaluation report.
- Initiated the DO enhancement and monitoring program.

- Continued domestic irrigation well owner reimbursement program with owners who have discontinued well use.
- Sampled site groundwater monitoring and domestic irrigation wells for third quarter 1995 groundwater monitoring program.
- Prepare third quarter 1995 groundwater monitoring and remedial system performance evaluation report.

Work Anticipated Fourth Quarter 1995

- Continue monitoring GWE system performance.
- Prepare and submit third quarter 1995 groundwater monitoring and remedial system performance evaluation report.
- Sample site groundwater monitoring and domestic irrigation wells for fourth quarter 1995 groundwater monitoring program.
- Prepare fourth quarter 1995 groundwater monitoring and remedial system performance evaluation report.
- Continue domestic irrigation well owner reimbursement program with owners who have discontinued well use.
- Continue DO enhancement and monitoring program.
- Include result of DO enhancement and monitoring program in fourth quarter 1995 groundwater monitoring report.

If there are any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Shaw Garakani
Project Engineer

R. Lee Dooley
Senior Geologist
CEG 1006

REGISTERED GEOLOGIST
R.L. DOOLEY
No. 1006
Certified Engineering
GEOLOGIST
STATE OF CALIFORNIA

Attachments:
- Table 1 - Groundwater Elevation Data
- Table 2 - Groundwater Analytical Data - Groundwater Monitoring Wells, Total Purgeable Petroleum Hydrocarbons (TPPH as Gasoline and BTEX Compounds)
- Table 3 - Groundwater Analytical Data - Total Methyl t-Butyl Ether
- Table 4 - Groundwater Analytical Data - Domestic Irrigation Wells Total Purgeable Petroleum Hydrocarbons (TPPH as Gasoline and BTEX Compounds)
- Table 5 - Groundwater Extraction System Performance Data
- Table 6 - Treatment System Analytical Data - Total Purgeable Petroleum Hydrocarbons (TPPH as Gasoline and BTEX Compounds)
- Table 7 - Groundwater Biodegradation Study Field and Laboratory Data
- Figure 1 - Groundwater Elevation Contour Map
- Figure 2 - TPPH-g/Benzene Concentration Map
- Figure 3 - Mass Removal Trend for the Groundwater Extraction System
- Figure 4 - Concentration Trends for the Groundwater Extraction System
- Attachment A - Field and Laboratory Procedures
- Attachment B - Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets
- Attachment C - Treatment System Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Ron Sykora, David D. Bohannon Organization — New Prop Owner?
Ms. Amy Leech, Alameda County Health Care Services Agency
Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region
Dr. Ravi Arulanthm, Regional Water Quality Control Board - S.F. Bay Region

Table 1
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Liquid (feet, TOB)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-1	01/11/88	N/A	N/A	–	N/A
	06/14/88	Well Destroyed			
MW-2	07/05/85	N/A	N/A	–	N/A
	01/11/88	N/A	N/A	–	N/A
	06/14/88	Well Destroyed			
MW-3	01/11/88	33.27	N/A	–	N/A
	03/07/89		11.96	–	21.31
	06/21/89		12.85	–	20.42
	12/12/89		13.46	–	19.81
	03/29/90		13.21	–	20.06
	05/08/90		13.23	–	20.04
	06/22/90		N/A	–	N/A
	07/18/90	Well Destroyed			
MW-4	01/11/88	32.43	N/A	–	N/A
	09/12/88		N/A	–	N/A
	03/07/89		10.76	–	21.67
	06/21/89		11.96	–	20.47
	12/12/89		N/A	–	N/A
	03/29/90		11.72	0.01	20.71
	05/08/90		12.19	–	20.24
	06/22/90		N/A	–	N/A
	07/18/90	Well Destroyed			
MW-5	01/16/92	Well Dry			
	02/19/92	33.99	13.50	–	20.49
	03/17/92		11.90	–	22.09
	04/15/92		12.18	–	21.81
	05/14/92		12.78	–	21.21
	06/15/92	Well Dry			
	07/14/92	Well Dry			
	08/18/92	Well Dry			
	09/15/92	Well Dry			
	10/16/92	Well Dry			
	11/18/92	Well Dry			
	12/17/92		12.74	–	21.25
	01/19/93		10.92	–	23.07
	02/22/93		11.10	–	22.89
	03/15/93		11.13	–	22.86
	04/09/93		11.46	–	22.53
	05/13/93		12.19	–	21.80
	06/04/93		12.51	–	21.48
	06/15/93		12.59	–	21.40
	09/13/93		13.40	–	20.59
	12/28/93		13.25	–	20.74
	03/28/94		12.22	–	21.77
	06/13/94		12.54	–	21.45

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Liquid (feet, TOB)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-5	09/19/94		13.55	--	20.44
(cont.)	12/19/94		12.43	--	21.56
	03/13/95		10.72	--	23.27
	05/30/95		11.68	--	22.11
	09/15/95		12.68	--	21.31
MW-6	06/21/89	32.95	12.48	--	20.47
(E-1)	12/12/89		13.16	--	19.79
	03/29/90		12.39	--	20.56
	05/08/90		12.93	--	20.02
	06/22/90		12.94	--	20.01
	07/18/90		Well Destroyed		
MW-7	01/16/92	34.40	13.33	--	21.07
	02/19/92		12.16	--	N/A
	03/17/92		11.86	--	22.54
	04/15/92		12.30	--	22.10
	05/14/92		13.04	--	21.36
	06/15/92		13.78	--	20.62
	07/14/92		14.20	--	20.20
	08/18/92		14.79	--	19.61
	09/15/92		15.12	--	19.28
	10/16/92		15.38	--	19.02
	11/18/92		15.10	--	19.30
	12/17/92		13.69	--	20.71
	01/19/93		10.92	--	23.48
	02/22/93		10.91	--	23.49
	03/15/93		11.13	--	23.27
	04/09/93		11.46	--	22.94
	05/13/93		12.22	--	22.18
	06/04/93		12.51	--	21.89
	06/15/93		12.66	--	21.74
	09/13/93		13.78	--	20.62
	12/28/93		13.43	--	20.97
	03/28/94		12.32	--	22.08
	06/13/94		12.70	--	21.70
	09/19/94		14.16	--	20.24
	12/19/94		12.32	--	22.08
	03/13/95		10.72	--	23.68
	05/30/95		11.68	--	22.72
	09/15/95		12.77	--	21.63
MW-8	01/16/92	32.79	13.40	--	19.39
	02/19/92		11.26	--	21.53
	03/17/92		10.90	--	21.89
	04/15/92		11.35	--	21.44
	05/14/92		12.06	--	20.73
	06/15/92		12.83	--	19.96
	07/14/92		12.75	--	20.04

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Liquid (feet, TOB)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-8	08/18/92		13.83	--	18.96
(cont.)	09/15/92		14.17	--	18.62
	10/16/92		14.51	--	18.28
	11/18/92		14.15	--	18.64
	12/17/92		12.68	--	20.11
	01/19/93		9.79	--	23.00
	02/22/93		9.95	--	22.84
	03/15/93		10.31	--	22.48
	04/09/93		10.47	--	22.32
	05/13/93		11.18	--	21.61
	06/04/93		11.47	--	21.32
	06/15/93		11.62	--	21.17
	09/13/93		12.70	--	20.09
	12/28/93		12.23	--	20.56
	03/28/94		11.28	--	21.51
	06/13/94		11.60	--	21.19
	09/19/94		13.07	--	19.72
	12/19/94		11.22	--	21.57
	03/13/95		9.66	--	23.13
	05/30/95		10.87	--	21.92
	09/15/95		11.67	--	21.12
MW-9	01/16/92	32.11	12.45	--	19.66
	02/19/92		10.25	--	21.86
	03/17/92		10.01	--	22.10
	04/15/92		10.49	--	21.62
	05/14/92		11.19	--	20.92
	06/15/92		11.86	--	20.25
	07/14/92		12.28	--	19.83
	08/18/92		12.89	--	19.22
	09/15/92		13.28	--	18.83
	10/16/92		13.60	--	18.51
	11/18/92		13.24	--	18.87
	12/17/92		11.76	--	20.35
	01/19/93		8.99	--	23.12
	02/22/93		9.13	--	22.98
	03/15/93		9.48	--	22.63
	04/09/93		9.63	--	22.48
	05/13/93		10.35	--	21.76
	06/04/93		10.65	--	21.46
	06/15/93		10.81	--	21.30
	09/13/93		11.87	--	20.24
	12/28/93		11.61	--	20.50
	03/28/94		10.48	--	21.63
	06/13/94		10.80	--	21.31
	09/19/94		12.25	--	19.86
	12/19/94		10.40	--	21.71
	03/13/95		8.70	--	23.41

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Liquid (feet, TOB)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-9	05/30/95		10.01	–	22.10
(cont.)	09/15/95		10.88	–	21.23
MW-10	01/16/92	31.67	12.55	–	19.12
	02/19/92		10.50	–	21.17
	03/18/92		10.12	–	21.55
	04/15/92		10.59	–	21.08
	05/14/92		11.30	–	20.37
	06/15/92		11.93	–	19.74
	07/14/92		12.42	–	19.25
	08/18/92		13.03	–	18.64
	09/15/92		13.42	–	18.25
	10/16/92		13.74	–	17.93
	11/18/92		13.42	–	18.25
	12/17/92		11.94	–	19.73
	01/19/93		9.13	–	22.54
	02/22/93		9.22	–	22.45
	03/15/93		9.64	–	22.03
	04/09/93		9.75	–	21.92
	05/13/93		10.49	–	21.18
	06/04/93		10.78	–	20.89
	06/15/93		10.93	–	20.74
	09/13/93		12.01	–	19.66
	12/28/93		11.41	–	20.26
	03/28/94		10.60	–	21.07
	06/13/94		10.95	–	20.72
	09/19/94		12.37	–	19.30
	12/19/94		10.64	–	21.03
	03/13/95		8.93	–	22.74
	05/30/95		10.18	–	21.49
	09/15/95		11.05	–	20.62
MW-11	01/16/92	32.54	13.28	–	19.26
	02/19/92		11.29	–	21.25
	03/17/92		10.81	–	21.73
	04/15/92		11.23	–	21.31
	05/14/92		11.96	–	20.58
	06/15/92		12.64	–	19.90
	07/14/92		13.08	–	19.46
	08/18/92		13.72	–	18.82
	09/15/92		14.13	–	18.41
	10/16/92		14.45	–	18.09
	11/18/92		14.11	–	18.43
	12/17/92		12.69	–	19.85
	01/19/93		9.91	–	22.63
	02/22/93		9.95	–	22.59
	03/15/93		10.30	–	22.24
	04/09/93		10.42	–	22.12
	05/13/93		11.16	–	21.38

Table 1 (continued)
Groundwater Elevation Data

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San Lorenzo, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Liquid (feet, TOB)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-11	06/04/93		11.44	--	21.10
(cont.)	06/15/93		11.59	--	20.95
	09/13/93		12.68	--	19.86
	12/28/93		12.05	--	20.49
	03/28/94		11.23	--	21.31
	06/13/94		11.62	--	20.92
	09/19/94		13.05	--	19.49
	12/19/94		11.45	--	21.09
	03/13/95		9.70	--	22.84
	05/30/95		10.89	--	21.65
	09/15/95		11.71	--	20.83
E-1A	01/16/92	33.06	23.68	--	9.38
(MW-12)	02/19/92		18.71	--	14.35
	03/17/92		23.10	--	9.96
	04/15/92		20.54	--	12.52
	05/14/92		23.09	--	9.97
	06/15/92		23.72	--	9.34
	07/14/92		13.25	--	19.81
	08/18/92		23.73	--	9.33
	09/15/92		23.62	--	9.44
	10/16/92		23.78	--	9.28
	11/18/92		23.80	--	9.26
	12/17/92		22.65	--	10.41
	01/19/93		23.65	--	9.41
	02/22/93		23.70	--	9.36
	03/15/93		22.92	--	10.14
	04/09/93		22.50	--	10.56
	05/13/93		20.40	--	12.66
	06/04/93		18.74	--	14.32
	06/15/93		20.00	--	13.06
	09/13/93		19.50	--	13.56
	12/28/93		20.35	--	12.71
	03/28/94		18.13	--	14.93
	06/13/94		11.60	--	21.46
	09/19/94		19.61	--	13.45
	12/19/94		19.80	--	13.26
	03/13/95		21.75	--	11.31
	05/30/95		17.38	--	15.68
	09/15/95		11.83	--	21.23
MW-13	01/16/92	35.42	15.70	--	19.72
	02/19/92		13.60	--	21.82
	03/17/92		13.20	--	22.22
	04/15/92		13.64	--	21.78
	05/14/92		14.34	--	21.08
	06/15/92		15.13	--	20.29
	07/14/92		15.45	--	19.97
	08/18/92		16.15	--	19.27

Table 1 (continued)
Groundwater Elevation Data

ARCO Service Station 0608
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San Lorenzo, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Liquid (feet, TOB)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-13	09/15/92		16.51	--	18.91
(cont.)	10/16/92		16.81	--	18.61
	11/18/92		16.50	--	18.92
	12/17/92		15.07	--	20.35
	01/19/93		12.40	--	23.02
	02/22/93		12.35	--	23.07
	03/15/93		12.69	--	22.73
	04/09/93		12.85	--	22.57
	05/13/93		13.55	--	21.87
	06/04/93		13.83	--	21.59
	06/15/93		13.97	--	21.45
	09/13/93		15.09	--	20.33
	12/28/93		14.47	--	20.95
	03/28/94		13.64	--	21.78
	06/13/94		13.98	--	21.44
	09/19/94		15.45	--	19.97
	12/19/94		13.60	--	21.82
	03/13/95		12.06	--	23.36
	05/30/95		13.25	--	22.17
	09/15/95		14.04	--	21.38
MW-14	01/16/92	30.46	11.34	--	19.12
	02/19/92		9.32	--	21.14
	03/17/92		9.04	--	21.42
	06/15/92		10.83	--	19.63
	09/15/92		12.27	--	18.19
	12/17/92		10.69	--	19.77
	03/15/93		8.70	--	21.76
	06/15/93		9.90	--	20.56
	09/13/93		10.89	--	19.57
	12/28/93		10.24	--	20.22
	03/28/94		9.55	--	20.91
	06/13/94		9.92	--	20.54
	09/19/94		11.25	--	19.21
	12/19/94		9.52	--	20.94
	03/13/95		7.77	--	22.69
	05/30/95		9.18	--	21.28
	09/15/95		10.00	--	20.46
MW-15	01/16/92	31.41	12.80	--	18.61
	02/19/92		10.85	--	20.56
	03/18/92		10.41	--	21.00
	06/15/92		12.19	--	19.22
	09/15/92		13.69	--	17.72
	12/17/92		12.26	--	19.15
	03/15/93		10.05	--	21.36
	06/15/93		11.32	--	20.09
	09/13/93		12.35	--	19.06
	12/28/93		11.76	--	19.65

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Liquid (feet, TOB)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-15	03/28/94		10.95	--	20.46
(cont.)	09/19/94		12.68	--	18.73
	12/19/94		11.03	--	20.38
	03/13/95		9.32	--	22.09
	05/30/95		10.57	--	20.84
	09/15/95		11.44	--	19.97
MW-16	01/16/92	31.39	13.09	--	18.30
	02/19/92		10.99	--	20.40
	03/18/92		10.85	--	20.54
	06/15/92		12.64	--	18.75
	09/15/92		14.07	--	17.32
	12/17/92		12.56	--	18.83
	03/15/93		10.60	--	20.79
	06/15/93		11.86	--	19.53
	09/13/93		12.83	--	18.56
	12/28/93		12.14	--	19.25
	03/28/94		11.46	--	19.93
	06/13/94		11.87	--	19.52
	09/19/94		13.15	--	18.24
	12/19/94		11.36	--	20.03
	03/13/95		9.60	--	21.79
	05/30/95		11.17	--	20.22
	09/15/95		11.97	--	19.42
MW-17	01/16/92	32.43	13.92	--	18.51
	02/19/92		11.65	--	20.78
	03/18/92		11.71	--	20.72
	06/15/92		13.50	--	18.93
	09/15/92		14.95	--	17.48
	12/17/92		13.34	--	19.09
	03/15/93		11.47	--	20.96
	06/15/93		12.69	--	19.74
	09/13/93		13.66	--	18.77
	12/28/93		12.96	--	19.47
	03/28/94		12.33	--	20.10
	06/13/94		12.71	--	19.72
	09/19/94		14.00	--	18.43
	12/19/94		12.27	--	20.16
	03/13/95		10.64	--	21.79
	05/30/95		12.02	--	20.41
	09/15/95		12.83	--	19.60
MW-18	03/18/92	29.70	9.73	--	19.97
	06/15/92		11.50	--	18.20
	09/15/92		12.90	--	16.80
	12/17/92		11.21	--	18.49
	03/15/93		9.62	--	20.08
	06/15/93		10.85	--	18.85

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Liquid (feet, TOB)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-18	09/13/93		11.75	--	17.95
(cont.)	12/28/93		11.06	--	18.64
	03/28/94		10.43	--	19.27
	06/13/94		10.80	--	18.90
	09/19/94		12.03	--	17.67
	12/19/94		10.30	--	19.40
	03/13/95		8.52	--	21.18
	05/30/95		10.21	--	19.49
	09/15/95		10.96	--	18.74
MW-19	03/18/92	29.02	9.22	--	19.80
	06/15/92		10.94	--	18.08
	09/15/92		12.38	--	16.64
	12/17/92		10.51	--	18.51
	03/15/93		9.23	--	19.79
	06/15/93		10.28	--	18.74
	09/13/93		11.16	--	17.86
	12/28/93		10.58	--	18.44
	03/28/94		9.92	--	19.10
	06/13/94		10.26	--	18.76
	09/19/94		11.45	--	17.57
	12/19/94		9.72	--	19.30
	03/13/95		8.04	--	20.98
	05/30/95		9.76	--	19.26
	09/15/95		10.40	--	18.62
MW-20	03/18/92	29.54	9.49	--	20.05
	06/15/92		11.11	--	18.43
	09/15/92		12.50	--	17.04
	12/17/92		10.74	--	18.80
	03/15/93		9.44	--	20.10
	06/05/93		10.45	--	19.09
	10/11/93	Well Destroyed			
MW-21	03/18/92	28.72	9.55	--	19.17
	06/15/92		11.30	--	17.42
	09/15/92		12.78	--	15.94
	12/17/92		10.80	--	17.92
	03/15/93		9.59	--	19.13
	06/15/93		10.77	--	17.95
	09/13/93		11.63	--	17.09
	12/28/93		11.02	--	17.70
	03/28/94		10.30	--	18.42
	06/13/94		10.69	--	18.03
	09/19/94		11.89	--	16.83
	12/19/94		10.07	--	18.65
	03/13/95		8.34	--	20.38
	05/30/95		10.15	--	18.57
	09/15/95		10.88	--	17.84

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Liquid (feet, TOB)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-22	03/17/92	29.29	10.05	--	19.24
	06/15/92		11.84	--	17.45
	09/15/92		13.27	--	16.02
	12/17/92		11.58	--	17.71
	03/15/93		10.03	--	19.26
	06/15/93		11.22	--	18.07
	09/13/93		12.17	--	17.12
	12/28/93		11.34	--	17.95
	03/28/94		10.78	--	18.51
	06/13/94		11.24	--	18.05
	09/19/94		12.43	--	16.86
	12/19/94		10.62	--	18.67
	03/13/95		8.78	--	20.51
	05/30/95		10.61	--	18.68
	09/15/95		11.40	--	17.89
MW-23	03/17/92	30.99	11.20	--	19.79
	06/15/92		12.94	--	18.05
	09/15/92		14.40	--	16.59
	12/17/92		13.01	--	17.98
	03/15/93		11.01	--	19.98
	06/15/93		12.26	--	18.73
	09/13/93		13.23	--	17.76
	12/28/93		12.57	--	18.42
	03/28/94		11.86	--	19.13
	06/13/94		12.26	--	18.73
	09/19/94		13.55	--	17.44
	12/19/94		11.81	--	19.18
	03/13/95		10.05	--	20.94
	05/30/95		11.67	--	19.32
	09/15/95		12.40	--	18.59
MW-24	06/15/93	34.38	13.39	--	20.99
	09/13/93		14.38	--	20.00
	12/28/93		13.83	--	20.55
	03/28/94		13.02	--	21.36
	06/13/94		13.37	--	21.01
	09/19/94		14.72	--	19.66
	12/19/94		13.05	--	21.33
	03/13/95		11.10	--	23.28
	05/30/95		12.62	--	21.76
	09/15/95		13.47	--	20.91
MW-25	04/09/93	34.12	11.18	--	22.94
	06/15/93		12.35	--	21.77
	09/13/93		13.45	--	20.67
	12/28/93		12.89	--	21.23
	03/28/94		12.02	--	22.10
	06/13/94		12.39	--	21.73

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Liquid (feet, TOB)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-25	09/19/94		13.82	--	20.30
(cont.)	12/19/94		12.00	--	22.12
	03/13/95		10.30	--	23.82
	05/30/95		11.58	--	22.54
	09/15/95		12.42	--	21.70
MW-26	06/15/93	33.71	12.66	--	21.05
	09/13/93		13.70	--	20.01
	12/28/93		13.06	--	20.65
	03/28/94		12.30	--	21.41
	06/13/94		12.65	--	21.06
	09/19/94		14.05	--	19.66
	12/19/94		12.39	--	21.32
	03/13/95		10.48	--	23.23
	05/30/95		11.93	--	21.78
	09/15/95		12.75	--	20.96

SPH = Separate-phase hydrocarbons
MSL = Mean sea level
TOB = Top of box
N/A = Not available
Well elevations are measured from set mark at top of vault box.
For groundwater elevation data prior to January 1992, see previous groundwater monitoring reports.

Table 2
Groundwater Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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

Well Number	Date Sampled		TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-1	01/11/88		300	20	10	50	80
	06/14/88		Well Destroyed				
MW-2	07/05/85	a	32,000	1,000	690	N/A	1,500
	01/11/88		3,300	804	115	168	166
	06/14/88		Well Destroyed				
MW-3	01/11/88		1,800	20	20	80	60
	03/07/89		150,000	4,600	5,200	5,600	13,000
	06/21/89		63,000	2,700	5,800	3,300	12,000
	12/12/89		Well Dry				
	03/29/90	b	1,100,000	13,000	60,000	17,000	91,000
	06/22/90		Well Dry				
	07/18/90		Well Destroyed				
MW-4	01/11/88		62,000	2,700	7,900	850	5,200
	09/12/88		Separate-Phase Hydrocarbon Sheen				
	03/07/89		84,000	2,400	3,400	2,500	7,600
	06/21/89		31,000	400	800	200	1,500
	12/12/89		Well Dry				
	03/29/90		0.01 foot of Separate-Phase Hydrocarbon				
	06/22/90		Well Dry				
	07/18/90		Well Destroyed				
MW-5	01/11/88		31,000	4,000	2,700	3,800	5,500
	03/07/89		1,300	340	ND	140	50
	06/21/89		1,100	200	ND	130	40
	12/12/89		Well Dry				
	03/29/90		Well Dry				
	06/22/90		Well Dry				
	09/19/90		Well Dry				
	12/27/90		Well Dry				
	03/21/91		Well Dry				
	06/26/91		Well Dry				
	09/24/91		Well Dry				
	12/19/91		Well Dry				
	03/18/92		11,000	110	2	410	150
	06/15/92		Well Dry				
	09/16/92		Well Dry				
	12/22/92		960	220	6.5	4	2
	03/17/93		2,600	180	1.4	28	1.2
	06/17/93		2,500	450	7.5	55	<5
	09/17/93		1,400	230	<5.0	6.7	<5.0
	12/29/93		690	38	2.1	2.7	3.8
	03/30/94		1,400	30	<5	<5	<5
	06/14/94		1,700	42	<5	<5	<5
	09/20/94		500	18	<0.5	<0.5	0.52

Table 2 (continued)
Groundwater Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-5	12/20/94	840	19	2.2	1.1	2.3
(cont.)	03/14/95	2,300	16	<5.0	8.6	<5.0
	06/01/95	750	13	<0.50	1.1	<0.50
	09/15/95	550	11	<1.0	<1.0	<1.0
MW-6	06/21/89	1,700	170	170	85	290
(E-1)	12/12/89	500	26	7	8	18
	03/29/90	130	14	9	4	11
	06/22/90	150	15	5	4	13
	07/18/90	Well Destroyed				
MW-7	04/13/90	<50	<0.3	<0.3	<0.3	<0.3
	06/22/90	<50	0.5	1	0.6	3
	09/19/90	<50	<0.3	<0.3	<0.3	<0.3
	12/27/90	69	<0.3	0.3	0.4	2
	03/21/91	<30	<0.3	<0.3	<0.3	<0.3
	06/26/91	<30	<0.3	<0.3	<0.3	<0.3
	09/24/91	<30	<0.3	<0.3	<0.3	<0.3
	12/19/91	<30	<0.3	<0.3	<0.3	<0.3
	03/17/92	<30	<0.3	<0.3	<0.3	<0.3
	06/17/92	<30	<0.3	<0.3	<0.3	<0.3
	09/16/92	<50	<0.5	<0.5	<0.5	<0.5
	12/21/92	<50	<0.5	<0.5	<0.5	<0.5
	03/17/93	<50	<0.5	<0.5	<0.5	<0.5
	06/15/93	<50	<0.5	<0.5	<0.5	<0.5
	09/14/93	<50	<0.5	<0.5	<0.5	<0.5
	12/29/93	<50	<0.5	<0.5	<0.5	<0.5
	03/30/94	<50	<0.5	<0.5	<0.5	<0.5
	06/14/94	<50	<0.5	<0.5	<0.5	<0.5
	09/20/94	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	<0.5	<0.5	<0.5	<0.5
	03/14/95	<50	<0.50	<0.50	<0.50	<0.50
	06/01/95	<50	<0.50	<0.50	<0.50	<0.50
	09/15/95	<50	<0.50	<0.50	<0.50	<0.50
MW-8	04/13/90	4,900	350	16	450	33
	06/22/90	3,700	370	12	330	28
	09/19/90	140	4	3	3	3
	12/27/90	1,200	7	0.3	53	<0.3
	03/21/91	540	8.8	<6.0	21	9.6
	06/26/91	2,100	290	<6.0	56	<6.0
	09/24/91	260	51	0.34	7.9	<0.3
	12/19/91	5,300	300	<3.0	21	4.8
	03/17/92	9,200	370	3	48	4.9
	06/17/92	3,300	460	2.7	63	6.9
	09/16/92	1,500	58	<0.5	6.1	4.5
	12/22/92	3,600	410	56	62	4.4

Table 2 (continued)
Groundwater Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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

Well Number	Date Sampled		TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-8	03/18/93		3,600	61	<0.5	11	1.2
(cont.)	06/17/93		2,400	430	<5	11	<5
	09/14/93		1,900	36	1.4	32	8.6
	12/29/93		2,100	50	0.65	2.9	4.7
	03/29/94		1,900	220	<10	<10	<10
	06/14/94		2,800	340	<5	<5	<5
	09/20/94		2,100	46	<1.0	<1.0	<1.0
	12/20/94		1,800	120	<2.5	<2.5	<2.5
	03/14/95		840	17	<2.0	<2.0	<2.0
	06/01/95	c	810	5.2	<0.50	0.69	0.71
	09/15/95	c	850	30	<1.0	<1.0	<1.0
MW-9	04/13/90		<50	<0.3	<0.3	<0.3	2
	06/22/90		12,000	200	3	250	180
	09/19/90		<50	<0.3	<0.3	<0.3	0.6
	12/27/90		<50	<0.3	<0.3	<0.3	<0.3
	03/21/91		<30	<0.3	<0.3	<0.3	<0.3
	06/26/91		<30	<0.3	<0.3	<0.3	<0.3
	09/24/91		<30	<0.3	<0.3	<0.3	<0.3
	12/19/91		<30	<0.3	<0.3	<0.3	<0.3
	03/17/92		<30	<0.3	<0.3	<0.3	<0.3
	06/16/92		<30	<0.3	<0.3	<0.3	<0.3
	09/16/92		<50	<0.5	<0.5	<0.5	<0.5
	12/21/92	c	75	<0.5	<0.5	<0.5	<0.5
	03/16/93		<50	<0.5	<0.5	<0.5	<0.5
	06/15/93		<50	<0.5	<0.5	<0.5	<0.5
	09/14/93		<50	<0.5	<0.5	<0.5	<0.5
	12/29/93		<50	<0.5	<0.5	<0.5	<0.5
	03/29/94		<50	<0.5	<0.5	<0.5	<0.5
	06/14/94		<50	<0.5	<0.5	<0.5	<0.5
	09/20/94		<50	<0.5	<0.5	<0.5	<0.5
	12/20/94		<50	<0.5	<0.5	<0.5	<0.5
	03/14/95		<50	<0.50	<0.50	<0.50	<0.50
	06/01/95		<50	<0.50	<0.50	<0.50	<0.50
	09/15/95		<50	<0.50	<0.50	<0.50	<0.50
MW-10	04/13/90		10,000	150	4	280	200
	06/22/90		9,700	28	<0.3	131	210
	09/19/90		1,800	<0.3	4	0.8	10
	12/27/90		5,700	7	3	95	61
	03/21/91		6,900	22	<15	92	33
	06/26/91		9,300	51	<0.3	59	34
	09/24/91		360	8.6	5.2	14	6.2
	12/19/91		3,300	9.2	8.4	11	17
	03/18/92		4,700	14	<6.0	29	10
	06/16/92		4,800	0.46	0.34	7.4	3.8
	09/16/92		2,000	8.3	3	3.3	5.5

Table 2 (continued)
Groundwater Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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

Well Number	Date Sampled		TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-10	12/22/92	c	2,700	6.2	<1.0	7.5	2.8
(cont.)	03/16/93		4,100	340	2.4	58	54
	06/17/93		4,900	860	<10	540	92
	09/17/93		4,500	670	<10.0	240	7.2
	12/28/93	d	5,000	1,200	12	46	31
	03/29/94		4,700	470	<10	29	45
	06/14/94		3,700	370	<1.0	<1.0	<1.0
	09/20/94		2,600	79	<2.5	7.4	2.7
	12/20/94		3,000	150	<5.0	<5.0	<5.0
	03/13/95		2,500	18	<5.0	<5.0	<5.0
	06/01/95	c	1,100	<1.2	<1.2	<1.2	<1.2
	09/14/95	c	1,100	<2.0	<2.0	<2.0	<2.0
MW-11	04/13/90		<50	<0.3	<0.3	<0.3	<0.3
	06/22/90		63	0.4	0.9	0.7	3
	09/19/90		<50	<0.3	<0.3	<0.3	<0.3
	12/27/90		<50	<0.3	<0.3	<0.3	<0.3
	03/21/91		<30	<0.3	<0.3	<0.3	<0.3
	06/26/91		<30	<0.3	<0.3	<0.3	<0.3
	09/24/91		<30	<0.3	<0.3	<0.3	<0.3
	12/19/91		<30	<0.3	<0.3	<0.3	<0.3
	03/17/92		<30	<0.3	<0.3	<0.3	<0.3
	06/16/92		<30	<0.3	<0.3	<0.3	<0.3
	09/16/92		<50	<0.5	<0.5	<0.5	<0.5
	12/22/92		<50	<0.5	<0.5	<0.5	<0.5
	03/16/93		<50	<0.5	<0.5	<0.5	<0.5
	06/16/93		<50	<0.5	<0.5	<0.5	<0.5
	09/14/93		<50	<0.5	<0.5	<0.5	<0.5
	12/29/93		<50	<0.5	<0.5	<0.5	<0.5
	03/29/94		<50	<0.5	<0.5	<0.5	<0.5
	06/13/94		<50	<0.5	<0.5	<0.5	<0.5
	09/20/94		<50	<0.5	<0.5	<0.5	<0.5
	12/20/94		<50	<0.5	<0.5	<0.5	<0.5
	03/13/95		<50	<0.50	<0.50	<0.50	<0.50
	06/01/95		<50	<0.50	<0.50	<0.50	<0.50
	09/14/95		<50	<0.50	<0.50	<0.50	<0.50
E-1A	09/19/90		<50	7	0.9	1	2
(MW-12)	12/27/90		<50	3	0.5	1	1
	03/21/91		<30	4.2	<0.3	1.1	0.89
	06/26/91		41	6.3	<0.3	1.2	0.59
			Converted to Extraction Well 8/91				
	03/28/94		120	4.8	<0.50	5.7	4.1
	06/14/94	*	230	12	<0.5	16	1.5
	09/20/94	*	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94		<50	2.4	<0.5	1.9	<0.5
	03/14/95		<50	<0.50	<0.50	<0.50	<0.50

Table 2 (continued)
Groundwater Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
E-1A	06/01/95	680	4.9	<0.50	18	2.4
(cont.)	09/15/95	73	3.3	<0.50	2.3	<0.50
MW-13	07/03/91	<30	<0.3	<0.3	<0.3	<0.3
	09/24/91	<30	<0.3	<0.3	<0.3	<0.3
	12/19/91	<30	<0.3	<0.3	<0.3	<0.3
	03/17/92	<30	<0.3	<0.3	<0.3	<0.3
	06/17/92	<30	<0.3	<0.3	<0.3	<0.3
	09/16/92	<50	<0.5	<0.5	<0.5	<0.5
	12/21/92	<50	<0.5	<0.5	<0.5	<0.5
	03/17/93	<50	<0.5	<0.5	<0.5	<0.5
	06/15/93	<50	<0.5	<0.5	<0.5	<0.5
	09/14/93	<50	<0.5	<0.5	<0.5	<0.5
	12/29/93	<50	<0.5	<0.5	<0.5	<0.5
	03/30/94	<50	<0.5	<0.5	<0.5	<0.5
	06/14/94	<50	<0.5	<0.5	<0.5	<0.5
	09/20/94	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	<0.5	<0.5	<0.5	<0.5
	03/14/95 c	570	2.0	<0.50	3.9	7.9
	06/01/95	<50	<0.50	<0.50	<0.50	<0.50
	09/15/95	<50	<0.50	<0.50	<0.50	<0.50
MW-14	07/03/91	<30	<0.3	<0.3	<0.3	<0.3
	09/24/91	<30	<0.3	<0.3	<0.3	<0.3
	12/19/91	<30	<0.3	<0.3	<0.3	<0.3
	03/17/92	<30	<0.3	<0.3	<0.3	<0.3
	06/16/92	<30	<0.3	<0.3	<0.3	<0.3
	09/16/92	<50	<0.5	<0.5	<0.5	<0.5
	12/22/92	<50	<0.5	<0.5	<0.5	<0.5
	03/16/93	<50	<0.5	<0.5	<0.5	<0.5
	06/15/93	<50	<0.5	<0.5	<0.5	<0.5
	09/15/93	<50	<0.5	<0.5	<0.5	<0.5
	12/28/93	<50	<0.5	<0.5	<0.5	<0.5
	03/29/94	<50	<0.5	<0.5	<0.5	<0.5
	06/13/94	<50	<0.5	<0.5	<0.5	<0.5
	09/20/94	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	<0.5	<0.5	<0.5	<0.5
	03/13/95	<50	<0.50	<0.50	<0.50	<0.50
	06/01/95	<50	<0.50	<0.50	<0.50	<0.50
	09/14/95	<50	<0.50	<0.50	<0.50	<0.50
MW-15	07/03/91	570	1.8	1	1	2.2
	09/24/91	<30	<0.3	<0.3	<0.3	<0.3
	12/19/91	360	<0.6	<0.6	0.64	<0.6
	03/18/92	730	0.74	0.98	1.8	0.68
	06/16/92	310	0.54	0.34	0.96	2.5
	09/16/92	100	1	<0.5	<0.5	<0.5

Table 2 (continued)
Groundwater Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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

Well Number	Date Sampled	TPPH as Gasoline (ppb)		Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-15	12/22/92	130	c	<0.5	<0.5	<0.5	<0.5
(cont.)	03/18/93	130	c	<0.5	<0.5	<0.5	<0.5
	06/17/93	<50		<0.5	<0.5	<0.5	<0.5
	09/17/93	<50		<0.5	<0.5	<0.5	<0.5
	12/29/93	52		<0.5	<0.5	<0.5	1.5
	03/29/94	<50		<0.5	<0.5	<0.5	<0.5
	06/13/94	<50		<0.5	<0.5	<0.5	<0.5
	09/20/94	<50		<0.5	<0.5	<0.5	<0.5
	12/20/94	<50		<0.5	<0.5	<0.5	<0.5
	03/13/95	<50		<0.50	<0.50	<0.50	<0.50
	05/31/95	<50		<0.50	<0.50	<0.50	<0.50
	09/14/95	<50		<0.50	<0.50	<0.50	<0.50
MW-16	07/03/91	2,700		31	6.9	4.6	3.1
	09/24/91	430		1.8	1.3	1.9	1.5
	12/19/91	75		<0.3	<0.3	<0.3	<0.3
	03/18/92	1,500		4	0.73	2.2	1.3
	06/16/92	80		<0.3	<0.3	<0.3	<0.3
	09/16/92	<50		<0.5	<0.5	<0.5	<0.5
	12/22/92	<50		<0.5	<0.5	<0.5	<0.5
	03/18/93	380	c	<0.5	<0.5	<0.5	<0.5
	06/17/93	<50		<0.5	<0.5	<0.5	<0.5
	09/17/93	<50		<0.5	<0.5	<0.5	<0.5
	12/28/93	<50		<0.5	<0.5	0.72	<0.5
	03/28/94	<50		<0.5	<0.5	<0.5	<0.5
	06/13/94	<50		<0.5	<0.5	<0.5	<0.5
	09/20/94	<50		<0.5	<0.5	<0.5	<0.5
	12/20/94	52		<0.5	<0.5	<0.5	<0.5
	03/13/95	<50		<0.50	<0.50	<0.50	<0.50
	05/31/95	52	c	<0.50	<0.50	<0.50	<0.50
	09/14/95	<50		<0.50	<0.50	<0.50	<0.50
MW-17	07/03/91	1,200		12	1.9	28	40
	09/24/91	150		2.7	0.5	3.9	0.59
	12/19/91	370		2.6	<0.3	7.2	6.5
	03/18/92	470		3.1	<0.3	9.1	8.6
	06/16/92	310		1.7	0.56	12	9.6
	09/16/92	77		1.5	<0.5	1.2	1
	12/21/92	220		1.2	<0.5	9.8	9.4
	03/17/93	250		<0.5	<0.5	7.8	3.3
	06/17/93	90		0.92	<0.5	2.7	2.4
	09/16/93	140		<0.5	<0.5	5.4	3.9
	12/29/93	<50		<0.5	<0.5	<0.5	<0.5
	03/29/94	<50		<0.5	<0.5	<0.5	<0.5
	06/15/94	62		<0.5	<0.5	1.2	<0.90
	09/19/94	<50		<0.5	<0.5	<0.5	<0.5
	12/20/94	77		<0.5	<0.5	1.6	0.67

Table 2 (continued)
Groundwater Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-17	03/13/95	110	<0.50	<0.50	2.9	1.2
(cont.)	05/30/95	93	1.0	<0.50	1.2	<0.50
	09/14/95	63	<0.50	<0.50	1.1	0.51
MW-18	10/04/91	<30	<0.3	<0.3	<0.3	<0.3
	12/19/91	<30	<0.3	<0.3	<0.3	<0.3
	03/18/92	<30	<0.3	<0.3	<0.3	<0.3
	06/15/92	<30	<0.3	<0.3	<0.3	<0.3
	09/15/92	<50	<0.5	<0.5	<0.5	<0.5
	12/21/92	<50	<0.5	<0.5	<0.5	<0.5
	03/17/93	<50	<0.5	<0.5	<0.5	<0.5
	06/16/93	<50	<0.5	<0.5	<0.5	<0.5
	09/16/93	<50	<0.5	<0.5	<0.5	<0.5
	12/28/93	<50	<0.5	<0.5	<0.5	<0.5
	03/28/94	<50	<0.5	<0.5	<0.5	<0.5
	06/13/94	<50	<0.5	<0.5	<0.5	<0.5
	09/20/94	<50	<0.5	<0.5	<0.5	<0.5
	03/13/95	<50	<0.50	<0.50	<0.50	<0.50
	05/30/95	<50	<0.50	<0.50	<0.50	<0.50
	09/14/95	<50	<0.50	<0.50	<0.50	<0.50
MW-19	10/04/91	<30	<0.3	<0.3	<0.3	<0.3
	12/19/91	<30	<0.3	<0.3	<0.3	<0.3
	03/18/92	<30	<0.3	<0.3	<0.3	<0.3
	06/15/92	<30	<0.3	<0.3	<0.3	<0.3
	09/15/92	<50	<0.5	<0.5	<0.5	<0.5
	12/21/92	<50	<0.5	<0.5	<0.5	<0.5
	03/17/93	<50	<0.5	<0.5	<0.5	<0.5
	06/16/93	<50	<0.5	<0.5	<0.5	<0.5
	09/16/93	<50	<0.5	<0.5	<0.5	<0.5
	12/28/93	<50	<0.5	<0.5	<0.5	<0.5
	03/28/94	<50	<0.5	<0.5	<0.5	<0.5
	06/13/94	<50	<0.5	<0.5	<0.5	<0.5
	09/19/94	<50	<0.5	<0.5	<0.5	<0.5
	12/19/94	<50	<0.5	<0.5	<0.5	<0.5
	03/13/95	<50	<0.50	<0.50	<0.50	<0.50
	05/30/95	<50	<0.50	<0.50	<0.50	<0.50
	09/14/95	<50	<0.50	<0.50	<0.50	<0.50
MW-20	10/04/91	<30	<0.3	<0.3	<0.3	<0.3
	12/19/91	<30	<0.3	<0.3	<0.3	<0.3
	03/18/92	<30	<0.3	<0.3	<0.3	<0.3
	06/15/92	<30	<0.3	<0.3	<0.3	<0.3
	09/15/92	<50	<0.5	<0.5	<0.5	<0.5
	12/21/92	<50	<0.5	<0.5	<0.5	<0.5
	03/17/93	<50	<0.5	<0.5	<0.5	<0.5

Table 2 (continued)
Groundwater Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-20	06/16/93	<50	<0.5	<0.5	<0.5	<0.5
(cont.)	10/11/93	---------- Well Destroyed ----------				
MW-21	10/04/91	<30	<0.3	<0.3	<0.3	<0.3
	12/19/91	<30	<0.3	<0.3	<0.3	<0.3
	03/18/92	<30	<0.3	<0.3	<0.3	<0.3
	06/15/92	<30	<0.3	<0.3	<0.3	<0.3
	09/15/92	<50	<0.5	<0.5	<0.5	<0.5
	12/22/92	<50	<0.5	<0.5	<0.5	<0.5
	03/17/93	<50	<0.5	<0.5	<0.5	<0.5
	06/16/93	<50	<0.5	<0.5	<0.5	<0.5
	09/16/93	<50	<0.5	<0.5	<0.5	<0.5
	12/28/93	<50	<0.5	<0.5	<0.5	<0.5
	03/28/94	<50	<0.5	<0.5	<0.5	<0.5
	06/13/94	<50	<0.5	<0.5	<0.5	<0.5
	09/19/94	<50	<0.5	<0.5	<0.5	<0.5
	12/19/94	<50	<0.5	<0.5	<0.5	<0.5
	03/13/95	<50	<0.50	<0.50	<0.50	<0.50
	05/30/95	<50	<0.50	<0.50	<0.50	<0.50
	09/14/95	<50	<0.50	<0.50	<0.50	<0.50
MW-22	10/04/91	<30	<0.3	<0.3	<0.3	<0.3
	12/19/91	<30	<0.3	<0.3	<0.3	<0.3
	03/17/92	<30	<0.3	<0.3	<0.3	<0.3
	06/15/92	<30	<0.3	<0.3	<0.3	<0.3
	09/15/92	<50	<0.5	<0.5	<0.5	<0.5
	12/22/92	<50	<0.5	<0.5	<0.5	<0.5
	03/17/93	<50	<0.5	<0.5	<0.5	<0.5
	06/16/93	<50	<0.5	<0.5	<0.5	<0.5
	09/16/93	<50	<0.5	<0.5	<0.5	<0.5
	12/28/93	<50	<0.5	<0.5	<0.5	<0.5
	03/28/94	<50	<0.5	<0.5	<0.5	<0.5
	06/13/94	<50	<0.5	<0.5	<0.5	<0.5
	09/19/94	<50	<0.5	<0.5	<0.5	<0.5
	12/19/94	<50	<0.5	<0.5	<0.5	<0.5
	03/13/95	<50	<0.50	<0.50	<0.50	<0.50
	05/30/95	<50	<0.50	<0.50	<0.50	<0.50
	09/14/95	<50	<0.50	<0.50	<0.50	<0.50
MW-23	10/04/91	<30	<0.3	<0.3	<0.3	<0.3
	12/19/91	<30	<0.3	<0.3	<0.3	<0.3
	03/17/92	<30	<0.3	<0.3	<0.3	<0.3
	06/15/92	<30	<0.3	<0.3	<0.3	<0.3
	09/15/92	<50	<0.5	<0.5	<0.5	<0.5
	12/22/92	<50	<0.5	<0.5	<0.5	<0.5
	03/16/93	<50	<0.5	<0.5	<0.5	<0.5
	06/16/93	<50	<0.5	<0.5	<0.5	<0.5

Table 2 (continued)
Groundwater Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-23	09/15/93	<50	<0.5	<0.5	<0.5	<0.5
(cont.)	12/28/93	<50	<0.5	<0.5	<0.5	<0.5
	03/28/94	<50	<0.5	<0.5	<0.5	<0.5
	06/13/94	<50	<0.5	<0.5	<0.5	<0.5
	09/19/94	<50	<0.5	<0.5	<0.5	<0.5
	12/19/94	<50	<0.5	<0.5	<0.5	<0.5
	03/13/95	<50	<0.50	<0.50	<0.50	<0.50
	05/30/95	<50	<0.50	<0.50	<0.50	<0.50
	09/14/95	<50	<0.50	<0.50	<0.50	<0.50
MW-24	03/29/93	<50	<0.5	<0.5	<0.5	<0.5
	06/15/93	<50	<0.5	<0.5	<0.5	<0.5
	09/14/93	<50	<0.5	<0.5	<0.5	<0.5
	12/29/93	<50	<0.5	<0.5	<0.5	<0.5
	03/29/94	<50	<0.5	<0.5	<0.5	<0.5
	06/13/94	<50	<0.5	<0.5	<0.5	<0.5
	09/20/94	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	<0.5	<0.5	<0.5	<0.5
	03/13/95	<50	<0.50	<0.50	<0.50	<0.50
	06/01/95	<50	<0.50	<0.50	<0.50	<0.50
	09/15/95	<50	<0.50	<0.50	<0.50	<0.50
MW-25	03/29/93	<50	0.69	<0.5	<0.5	<0.5
	06/15/93	<50	<0.5	<0.5	<0.5	<0.5
	09/14/93	<50	<0.5	<0.5	<0.5	<0.5
	12/29/93	<50	<0.5	<0.5	<0.5	<0.5
	03/29/94	<50	<0.5	<0.5	<0.5	<0.5
	06/13/94	<50	<0.5	<0.5	<0.5	<0.5
	09/20/94	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	<0.5	<0.5	<0.5	<0.5
	03/14/95	<50	<0.50	<0.50	<0.50	<0.50
	06/01/95	<50	<0.50	<0.50	<0.50	<0.50
	09/15/95	140	<0.50	<0.50	1.9	3.6
MW-26	03/29/93	<50	<0.5	<0.5	<0.5	<0.5
	06/15/93	<50	<0.5	<0.5	<0.5	<0.5
	09/14/93	<50	<0.5	<0.5	<0.5	<0.5
	12/29/93	<50	<0.5	<0.5	<0.5	<0.5
	03/29/94	<50	<0.5	<0.5	<0.5	<0.5
	06/13/94	<50	<0.5	<0.5	<0.5	<0.5
	09/20/94	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	<0.5	<0.5	<0.5	<0.5
	03/13/95	<50	<0.50	<0.50	<0.50	<0.50

Table 2 (continued)
Groundwater Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-26	06/01/95	<50	<0.50	<0.50	<0.50	<0.50
(cont.)	09/15/95	<50	<0.50	<0.50	<0.50	<0.50

TPPH = Total purgeable petroleum hydrocarbons
ppb = Parts per billion
N/A = Not available
ND = Not detected
a. Ethylbenzene and xylenes given as a combined value.
b. Well contained slight product sheen.
c. Non-typical gasoline chromatograph pattern.
d. Anomalous data point.
< = Denotes minimum laboratory detection limit. See certified analytical report for detection limits.
* = Value taken from system influent sampling.
Wells MW-1 and MW-2 destroyed prior to March 7, 1989 sampling event.
Wells MW-3, MW-4, and MW-6 (E-1) destroyed June 18, 1990.
Prior to June 1995, TPPH as gasoline was reported as TPH as gasoline.

Table 3
Groundwater Analytical Data
Total Methyl t-Butyl Ether

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

Groundwater Monitoring Wells

Well Number	Date Sampled	Methyl t-Butyl Ether (ppb)
MW-5	09/15/95	660
MW-7	09/15/95	<2.5
MW-8	09/15/95	110
MW-9	09/15/95	<2.5
MW-10	09/14/95	630
MW-11	09/14/95	<2.5
E-1A (MW-12)	09/15/95	220
MW-13	09/15/95	<2.5
MW-14	09/14/95	<2.5
MW-15	09/14/95	9.4
MW-16	09/14/95	17
MW-17	09/14/95	<2.5
MW-18	09/14/95	<2.5
MW-19	09/14/95	<2.5
MW-21	09/14/95	<2.5
MW-22	09/14/95	<2.5
MW-23	09/14/95	<2.5
MW-24	09/15/95	<2.5
MW-25	09/15/95	<2.5
MW-26	09/15/95	<2.5

Domestic Irrigation Wells

Well Number	Date Sampled	Methyl t-Butyl Ether (ppb)
590 H	09/15/95	<2.5
633 H	09/14/95	<2.5
634 H	09/14/95	NS
642 H	09/14/95	NS
675 H	09/14/95	NS
17348 VE	09/14/95	<2.5
17197 VM	09/14/95	<2.5
17200 VM	09/14/95	4.8
17203 VM	09/14/95	<2.5
17302 VM	09/14/95	<2.5
17349 VM	09/15/95	32
17371 VM	09/15/95	NS
17372 VM	09/14/95	<2.5
17393 VM	09/15/95	<2.5

Table 4
Groundwater Analytical Data
Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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)
590 H	11/13/91		<30	<0.3	<0.3	<0.3	<0.3
	10/14/92		<50	<0.5	<0.5	<0.5	<0.5
	12/21/92		<50	<0.5	<0.5	<0.5	<0.5
	03/16/93		<50	<0.5	<0.5	<0.5	<0.5
	06/17/93		<50	<0.5	<0.5	<0.5	<0.5
	09/16/93		<50	<0.5	<0.5	<0.5	<0.5
	12/30/93	a	NS	NS	NS	NS	NS
	03/29/94		<50	<0.5	<0.5	<0.5	<0.5
	06/16/94		<50	<0.5	<0.5	<0.5	<0.5
	09/21/94		<50	<0.5	<0.5	<0.5	<0.5
	12/21/94		<50	<0.5	<0.5	<0.5	<0.5
	03/15/95		<50	<0.50	<0.50	<0.50	<0.50
	05/26/95		<50	<0.50	<0.50	<0.50	<0.50
	09/15/95		<50	<0.50	13	<0.50	<0.50
633 H	09/11/91	b,d	NS	NS	NS	NS	NS
	10/14/92	a	NS	NS	NS	NS	NS
	12/21/92		<50	<0.5	<0.5	<0.5	<0.5
	03/16/93		<50	<0.5	<0.5	<0.5	<0.5
	06/17/93		<50	<0.5	<0.5	<0.5	<0.5
	09/15/93	b,d	NS	NS	NS	NS	NS
	12/30/93	b,d	NS	NS	NS	NS	NS
	03/29/94	b,d	NS	NS	NS	NS	NS
	06/15/94	b,d	NS	NS	NS	NS	NS
	09/21/94	b,d	NS	NS	NS	NS	NS
	10/07/94		<50	<0.5	<0.5	<0.5	<0.5
	12/21/94		<50	<0.5	<0.5	<0.5	<0.5
	03/15/95		250	5.1	9.8	0.65	46
	03/15/95	e	<50	<0.50	<0.50	<0.50	<0.50
	05/31/95		<50	0.93	2.4	<0.50	14
	09/14/95		<50	0.64	1.2	<0.50	7.6
634 H	09/11/91	b,d	NS	NS	NS	NS	NS
	10/14/92	a	NS	NS	NS	NS	NS
	12/21/92	b,d	NS	NS	NS	NS	NS
	03/16/93	b,d	NS	NS	NS	NS	NS
	06/17/93	b,d	NS	NS	NS	NS	NS
	09/15/93	a	NS	NS	NS	NS	NS
	12/30/93	b,d	NS	NS	NS	NS	NS
	03/29/94	b,d	NS	NS	NS	NS	NS
	06/15/94		NS	NS	NS	NS	NS
	09/21/94	b,d	NS	NS	NS	NS	NS
	12/21/94	b,d	NS	NS	NS	NS	NS
	03/15/95	b,d	NS	NS	NS	NS	NS
	05/31/95	a	NS	NS	NS	NS	NS
	09/14/95	a	NS	NS	NS	NS	NS

Table 4 (continued)
Groundwater Analytical Data
Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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)
642 H	11/13/91		<30	<0.3	<0.3	<0.3	<0.3
	10/16/92		<50	<0.5	<0.5	<0.5	<0.5
	12/21/92		<50	<0.5	<0.5	<0.5	<0.5
	03/16/93		<50	<0.5	<0.5	<0.5	<0.5
	06/17/93		<50	<0.5	<0.5	<0.5	<0.5
	09/16/93		<50	<0.5	<0.5	<0.5	<0.5
	12/30/93	a	NS	NS	NS	NS	NS
	03/30/94		<50	<0.5	<0.5	<0.5	<0.5
	06/15/94		NS	NS	NS	NS	NS
	09/21/94	b,d	NS	NS	NS	NS	NS
	12/21/94	b,d	NS	NS	NS	NS	NS
	03/15/95		<50	<0.50	<0.50	<0.50	<0.50
	05/31/95	a	NS	NS	NS	NS	NS
	09/14/95	a	NS	NS	NS	NS	NS
675 H	09/11/91	b,d	NS	NS	NS	NS	NS
	10/14/92	a	NS	NS	NS	NS	NS
	12/21/92	b,d	NS	NS	NS	NS	NS
	03/16/93	b,d	NS	NS	NS	NS	NS
	06/17/93	b,d	NS	NS	NS	NS	NS
	09/15/93	a	NS	NS	NS	NS	NS
	12/30/93	a	NS	NS	NS	NS	NS
	03/29/94	a	NS	NS	NS	NS	NS
	06/15/94	a	NS	NS	NS	NS	NS
	09/22/94		<50	<0.5	<0.5	<0.5	<0.5
	12/21/94	b,d	NS	NS	NS	NS	NS
	03/15/95	b,d	NS	NS	NS	NS	NS
	05/31/95	b,d	NS	NS	NS	NS	NS
	09/14/95	b,d	NS	NS	NS	NS	NS
17197 VM	11/13/91		<30	<0.3	<0.3	<0.3	<0.3
	10/14/92		<50	<0.5	<0.5	<0.5	<0.5
	12/21/92		<50	<0.5	<0.5	<0.5	<0.5
	03/16/93		<50	<0.5	<0.5	<0.5	<0.5
	06/17/93		<50	<0.5	<0.5	<0.5	<0.5
	09/16/93		<50	<0.5	<0.5	<0.5	<0.5
	12/30/93		<50	<0.5	<0.5	<0.5	<0.5
	03/30/94		<50	<0.5	<0.5	<0.5	<0.5
	06/15/94		<50	<0.5	<0.5	<0.5	<0.5
	09/21/94	a	NS	NS	NS	NS	NS
	12/21/94		<50	<0.5	<0.5	<0.5	<0.5
	03/15/95		<50	<0.50	<0.50	<0.50	<0.50
	05/31/95		<50	<0.50	<0.50	<0.50	<0.50
	09/14/95		<50	<0.50	<0.50	<0.50	<0.50
17200 VM	11/13/91		440	2.7	<0.3	<0.3	12
	10/14/92	a	NS	NS	NS	NS	NS

Table 4 (continued)
Groundwater Analytical Data
Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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)
17200 VM (cont.)	12/18/92	160	1.4	<0.5	<0.5	3.4
	03/16/93	<50	<0.5	<0.5	<0.5	<0.5
	06/16/93	<50	<0.5	<0.5	<0.5	<0.5
	09/15/93	<50	<0.5	<0.5	<0.5	<0.5
	12/30/93	<50	<0.5	<0.5	<0.5	<0.5
	03/29/94	<50	<0.5	<0.5	<0.5	<0.5
	06/15/94	<50	<0.5	<0.5	<0.5	<0.5
	09/21/94	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	<0.5	<0.5	<0.5	<0.5
	03/15/95	<50	<0.50	<0.50	<0.50	<0.50
	05/30/95	<50	<0.50	<0.50	<0.50	<0.50
	09/14/95	510	<0.50	<0.50	3.1	3.4
17203 VM	11/13/91	<30	<0.3	<0.3	<0.3	<0.3
	10/16/92 a	NS	NS	NS	NS	NS
	12/21/92	<50	<0.5	<0.5	<0.5	1.3
	03/16/93	<50	<0.5	<0.5	<0.5	<0.5
	06/17/93	<50	<0.5	<0.5	<0.5	<0.5
	09/16/93	<50	<0.5	<0.5	<0.5	<0.5
	12/30/93	<50	<0.5	<0.5	<0.5	<0.5
	03/30/94	<50	<0.5	<0.5	<0.5	<0.5
	06/15/94	<50	<0.5	<0.5	<0.5	<0.5
	09/21/94 a	NS	NS	NS	NS	NS
	12/21/94	<50	<0.5	<0.5	<0.5	<0.5
	03/15/95	<50	<0.50	<0.50	<0.50	<0.50
	05/31/95	<50	<0.50	<0.50	<0.50	<0.50
	09/14/95	<50	<0.50	<0.50	<0.50	<0.50
17302 VM	10/21/91	72	0.64	<0.3	0.44	<0.3
	10/14/92 a	NS	NS	NS	NS	NS
	12/21/92	<50	<0.5	<0.5	<0.5	<0.5
	03/16/93	<50	<0.5	<0.5	<0.5	<0.5
	06/17/93 b,d	NS	NS	NS	NS	NS
	09/16/93	66	<0.5	<0.5	<0.5	<0.5
	12/30/93	<50	<0.5	<0.5	<0.5	<0.5
	03/30/94	<50	<0.5	<0.5	<0.5	<0.5
	06/15/94	<50	<0.5	<0.5	<0.5	<0.5
	03/30/94	<50	<0.5	<0.5	<0.5	<0.5
	06/15/94	<50	<0.5	<0.5	<0.5	<0.5
	09/21/94 a	NS	NS	NS	NS	NS
	12/21/94	<50	<0.5	<0.5	<0.5	<0.5
	03/15/95	<50	<0.50	<0.50	<0.50	<0.50
	09/14/95	<50	<0.50	<0.50	<0.50	<0.50
17348 VE	11/13/91 b,d	NS	NS	NS	NS	NS
	10/14/92 a	NS	NS	NS	NS	NS
	12/21/92	<50	<0.5	<0.5	<0.5	<0.5

Table 4 (continued)
Groundwater Analytical Data
Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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)
17348 VE	03/16/93		<50	<0.5	<0.5	<0.5	<0.5
(cont.)	06/16/93		<50	<0.5	<0.5	<0.5	<0.5
	09/15/93		<50	<0.5	<0.5	<0.5	<0.5
	12/30/93	b,d	NS	NS	NS	NS	NS
	03/30/94		<50	<0.5	<0.5	<0.5	<0.5
	06/15/94		<50	<0.5	<0.5	<0.5	<0.5
	09/21/94	a	NS	NS	NS	NS	NS
	12/21/94		<50	<0.5	<0.5	<0.5	<0.5
	03/15/95		<50	<0.50	<0.50	<0.50	<0.50
	05/30/95		<50	<0.50	<0.50	<0.50	<0.50
	09/14/95		<50	<0.50	<0.50	<0.50	<0.50
17349 VM	09/27/91		780	13	<3.0	<3.0	<3.0
	10/14/92		2,200	<50	<50	<50	110
	12/18/92		1,500	14	1.8	7.1	56
	03/16/93		1,100	16	4.2	1.8	1.8
	06/17/93		1,100	1.5	6.7	2.9	7.9
	09/16/93		1,200	13	21	3	10
	12/30/93	a	NS	NS	NS	NS	NS
	03/30/94		420	<1	<1	<1	5.3
	06/15/94		460	<0.5	<0.5	<0.5	1.8
	09/21/94		590	1.8	<0.5	1.1	7.6
	12/21/94		670	<0.5	<0.5	<0.5	1.8
	03/15/95		1,400	19	<5.0	7.9	48
	05/31/95		890	<2.0	<2.0	4.3	22
	09/15/95		610	3.9	<0.50	<0.50	<0.50
17371 VM	11/13/91		870	9	1	2.1	4.5
	10/14/92		<50	<0.5	<0.5	<0.5	<0.5
	12/18/92		<50	<0.5	<0.5	<0.5	<0.5
	03/16/93		500	8.7	<0.5	3.9	3.1
	06/17/93	c	NS	NS	NS	NS	NS
	09/16/93	c	NS	NS	NS	NS	NS
	12/30/93	c	NS	NS	NS	NS	NS
	03/30/94	c	NS	NS	NS	NS	NS
	06/15/94	c	NS	NS	NS	NS	NS
	09/21/94	c	NS	NS	NS	NS	NS
	12/21/94	c	NS	NS	NS	NS	NS
	03/15/95	c	NS	NS	NS	NS	NS
	05/31/95	c	NS	NS	NS	NS	NS
17372 VM	09/27/91		300	5.5	<0.60	1.3	0.72
	10/14/92		220	<1.0	<1.0	<1.0	<1.0
	12/18/92		290	3.8	0.88	0.99	1.2
	03/16/93	*	110	<0.5	<0.5	<0.5	<0.5
	06/17/93		140	<0.5	1.3	0.63	1.1
	09/15/93		120	<0.5	1.1	0.62	1.2

Table 4 (continued)
Groundwater Analytical Data
Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

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)
17372 VM	12/30/93	<50	<0.5	<0.5	<0.5	<0.5
(cont.)	03/30/94	<50	<0.5	<0.5	<0.5	<0.5
	06/15/94	110	<0.5	<0.5	<0.5	<0.5
	09/21/94	55	<0.5	<0.5	<0.5	<0.5
	12/21/94	<50	<0.5	<0.5	<0.5	<0.5
	03/15/95	<50	<0.50	<0.50	<0.50	<0.50
	05/31/95	60	<0.50	<0.50	<0.50	<0.50
	09/14/95	<50	<0.50	<0.50	<0.50	<0.50
17393 VM	11/13/91	31	<0.3	<0.3	<0.3	<0.3
	10/14/92 a	NS	NS	NS	NS	NS
	12/18/92	<50	<0.5	<0.5	<0.5	<0.5
	03/16/93	<50	<0.5	<0.5	<0.5	<0.5
	06/17/93	<50	<0.5	<0.5	<0.5	<0.5
	09/15/93	<50	<0.5	<0.5	<0.5	<0.5
	12/30/93 a	NS	NS	NS	NS	NS
	12/30/93	<50	<0.5	<0.5	<0.5	<0.5
	03/30/94	50	<0.5	<0.5	<0.5	<0.5
	06/15/94	<50	<0.5	<0.5	<0.5	<0.5
	09/21/94 a	NS	NS	NS	NS	NS
	12/21/94	<50	<0.5	<0.5	<0.5	<0.5
	03/15/95	<50	<0.50	<0.50	<0.50	<0.50
	05/31/95	<50	<0.50	<0.50	<0.50	<0.50
	09/15/95	<50	<0.50	<0.50	<0.50	<0.50

TPPH = Total purgeable petroleum hydrocarbons
ppb = Parts per billion
H = Hacienda Avenue
< = Denotes laboratory detection limit
NS = Not sampled
VM = Via Magdalena
* = Non-typical chromatogram pattern; did not sample.
VE = Via Encinas
a. Owner not available to approve sampling access; well not sampled.
b. Pump not functioning; well not sampled.
c. Access denied by owner; well not sampled.
d. Pumping equipment obstructing sampling access; well not sampled.
e. Laboratory analyzed duplicate sample for confirmation. See certified analytical report.
Homeowners are contacted one week prior to sampling event.
Prior to June 1995, TPPH as gasoline was reported as TPH as gasoline.

Table 5
Groundwater Extraction System Performance Data

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

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	TPPH as Gasoline: Influent Concentration (µg/L)	TPPH as Gasoline: Net Removed (pounds)	TPPH as Gasoline: Removed To Date (pounds)	Benzene: Influent Concentration (µg/L)	Benzene: Net Removed (pounds)	Benzene: Removed To Date (pounds)	Primary Carbon Loading (%)
09/25/91	0	N/A	0	0	0.0	ND	N/A	0.0	N/A	0.00	0.00	0.0
09/26/91	N/A	N/A	1,144	1,144	N/A	38	0.0	0.0	4.8	0.00	0.00	0.0
10/22/91	26	96	12,844	11,700	7.6	ND	N/A	0.0	ND	0.00	0.00	0.0
11/22/91	77	93	52,532	39,688	13.0	ND	N/A	0.0	0.52	0.00	0.00	0.0
12/19/91	322	62	122,540	70,008	4.8	ND	N/A	0.0	ND	0.00	0.00	0.0
01/16/92	994	0	283,289	160,749	4.0	ND	N/A	0.0	ND	0.00	0.00	0.0
02/19/92	1,809	0	485,200	201,911	4.1	370	0.3	0.3	14	0.01	0.01	0.4
03/17/92	2,462	0	662,847	177,647	4.5	160	0.4	0.7	18	0.02	0.04	0.9
04/15/92	3,150	1	851,100	188,253	4.6	200	0.3	1.0	11	0.02	0.06	1.2
05/14/92	3,849	0	1,030,066	178,986	4.3	45	0.2	1.2	1.4	0.01	0.07	1.5
06/19/92	4,712	0	1,229,960	199,874	3.9	ND	N/A	1.2	ND	0.00	0.07	1.5
07/14/92	5,091	52	1,291,201	61,241	3.5	87	0.0	1.2	25.0	0.01	0.08	1.5
08/18/92	N/A	N/A	1,410,018	118,817	N/A	ND	N/A	1.2	ND	0.01	0.09	1.5
09/15/92	6,296	N/A	1,535,640	125,622	3.1	ND	N/A	1.2	ND	0.00	0.09	1.5
10/16/92	7,012	4	1,651,623	115,983	2.7	ND	N/A	1.2	ND	0.00	0.09	1.5
11/16/92	7,809	0	1,768,076	116,453	2.4	ND	N/A	1.2	ND	0.00	0.09	1.5
12/17/92	8,502	0	1,864,300	96,224	2.3	96	0.0	1.2	7.7	0.00	0.09	1.5
01/18/93	8,796	61	1,915,165	50,865	2.9	100	0.0	1.3	13	0.00	0.10	1.6
02/22/93	9,607	0	2,096,930	181,765	3.7	480	0.4	1.7	36	0.04	0.13	2.1
03/15/93	10,113	0	2,205,833	108,903	3.6	310	0.4	2.1	29	0.03	0.16	2.6
04/09/93	10,517	33	2,298,770	92,937	3.8	140	0.2	2.2	11	0.02	0.18	2.8
05/13/93	11,211	15	2,449,160	150,390	3.6	530	0.4	2.7	27	0.02	0.20	3.3
06/04/93	11,734	1	2,543,500	94,340	3.0	170	0.3	2.9	5.2	0.01	0.21	3.7
07/20/93	12,573	24	2,689,697	146,197	2.9	200	0.2	3.2	12	0.01	0.22	4.0
08/16/93	13,219	0	2,791,366	101,669	2.6	150	0.1	3.3	4.9	0.01	0.23	4.1
09/13/93	13,888	0	2,884,736	93,370	2.3	80	0.1	3.4	2.2	0.00	0.23	4.3
10/08/93	14,485	1	2,951,737	67,001	1.9	ND	0.0	3.4	ND	0.00	0.24	4.3
11/19/93	15,494	0	3,036,032	84,295	1.4	ND	0.0	3.4	ND	0.00	0.24	4.3
12/21/93	16,260	0	3,113,565	77,533	1.7	73	0.0	3.5	3.5	0.00	0.24	4.3
01/18/94	16,939	0	3,190,900	77,335	1.9	60	0.0	3.5	3.1	0.00	0.24	4.4
02/17/94	17,658	0	3,273,720	82,820	1.9	ND	0.0	3.5	2.5	0.00	0.24	4.4
03/15/94	18,235	7	3,344,249	70,529	2.0	ND	0.0	3.5	ND	0.00	0.24	4.4
04/21/94	18,849	31	3,418,537	74,288	2.0	110	0.0	3.5	7.8	0.00	0.24	4.4
05/13/94	19,351	5	3,478,910	60,373	2.0	230	0.1	3.6	6.3	0.00	0.25	4.5
06/14/94	19,680	57	3,518,608 a	39,698	2.0	230	0.1	3.7	12	0.00	0.25	4.6
07/14/94	20,145	35	3,574,408 b	55,800	2.0	270	0.1	3.8	6.9	0.00	0.26	4.8
08/17/94	20,920	5	51,260 c	91,580 c	2.0	ND	0.1	3.9	1.8	0.00	0.26	4.9
09/12/94	21,549	0	120,910	69,650	1.8	ND	0.0	3.9	ND	0.00	0.26	4.9
10/18/94	22,408	1	211,880	90,970	1.8	ND	0.0	3.9	ND	0.00	0.26	4.9
11/15/94	23,080	0	280,840	68,960	1.7	ND	0.0	3.9	0.66	0.00	0.26	4.9
12/05/94	23,489	15	325,830	44,990	1.8	470	0.1	4.0	32	0.01	0.27	5.0
01/04/95	24,205	1	406,740	82,910	1.9	ND	0.2	4.2	1.1	0.01	0.28	5.2
02/06/95	24,926	9	499,690	90,950	2.1	100	0.0	4.2	2.4	0.00	0.28	5.2
03/02/95	25,465	6	569,180	69,490	2.1	ND	0.0	4.2	ND	0.00	0.28	5.3

Table 5 (continued)
Groundwater Extraction System Performance Data

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

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	TPPH as Gasoline: Influent Concentration (µg/L)	TPPH as Gasoline: Net Removed (pounds)	TPPH as Gasoline: Removed To Date (pounds)	Benzene: Influent Concentration (µg/L)	Benzene: Net Removed (pounds)	Benzene: Removed To Date (pounds)	Primary Carbon Loading (%)
04/04/95	26,253	1	672,510	103,330	2.2	290	0.1	4.3	6.6	0.00	0.28	5.4
05/02/95	26,924	0	760,350	87,840	2.2	240	0.2	4.5	7.1	0.01	0.29	5.7
06/05/95	27,721	2	848,810	88,460	1.9	ND	0.1	4.6	ND	0.00	0.29	5.8
07/06/95	28,464	0	921,260	72,450	1.6	270	0.1	4.7	2.4	0.00	0.29	5.9
08/21/95 d	29,568	0	993,320	72,060	1.1	230	0.2	4.9	1.8	0.00	0.29	6.1
REPORTING PERIOD: 06/05/95 - 09/30/95 (d)												
TOTAL GALLONS EXTRACTED:				**4,608,048**								
PERIOD GALLONS EXTRACTED:				**144,510**								
TOTAL POUNDS REMOVED:								**4.9**			**0.29**	
TOTAL GALLONS REMOVED:								**0.8**			**0.04**	
PERIOD POUNDS REMOVED:							**0.2**			**0.00**		
PERIOD GALLONS REMOVED:							**0.04**			**0.00**		
AVERAGE PERIOD FLOW RATE (gpm):					**1.5**							
AVERAGE PERCENT DOWNTIME SINCE START-UP:					**13.6%**							
PERIOD PERCENT OPERATIONAL:					**100%**							

TPPH = Total purgeable petroleum hydrocarbons
gpm = Gallons per minute
µg/L = Micrograms per liter
N/A = Not available or not applicable
ND = Not detected above detection limit
Densities: Gasoline = 6.1 lbs/gallon; Benzene = 7.34 lbs/gallon.

a. Totalizer broken; volume estimated from hourmeter and flow rate.
b. Volume estimated from hourmeter and instantaneous flow rate.
c. Sewer totalizer replaced July 28, 1994; volume discharged estimated between July 14 and 28, 1994 at 2.0 gpm.
d. GWE system temporarily shut down August 21, 1995.
Primary carbon loading estimated using isotherm of 8 percent by weight.

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

Table 6
Treatment System Analytical Data
Total Purgeable 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)
INFL (influent to primary carbon)					
09/26/91	38	4.8	0.6	1.6	1.1
10/22/91	<30	<0.3	<0.3	<0.3	<0.3
11/22/91	<30	0.5	<0.3	<0.3	<0.3
12/19/91	<30	<0.3	<0.3	<0.3	<0.3
01/16/91	<30	<0.3	<0.3	<0.3	<0.3
02/19/92	370	14	0.34	14	2.4
03/17/92	160	18	0.32	0.56	1.6
04/15/92	200	11	<0.3	7.3	0.77
05/14/92	45	1.4	<0.3	<0.3	<0.3
06/19/92	<30	<0.3	<0.3	<0.3	<0.3
07/14/92	97	25	<0.5	8.5	<0.5
08/18/92	<50	<0.5	<0.5	<0.5	<0.5
09/15/92	<50	<0.5	<0.5	<0.5	<0.5
10/16/92	<50	<0.5	<0.5	<0.5	<0.5
11/18/92	<50	<0.5	<0.5	<0.5	<0.5
12/17/92	96	7.7	13	0.56	9.7
01/18/93	100	13	6.6	1.1	11
02/22/93	480	36	29	4.9	95
03/15/93	310	29	14	4.9	55
04/09/93	140	11	2.6	2.6	17
05/13/93	530	27	12	18	96
06/04/93	170	5.2	1.6	2.5	23
07/20/93	200	12	0.91	8.2	29
08/16/93	150	4.9	0.63	2.9	15
09/13/93	80	2.2	<0.5	<0.5	4.8
10/06/93	<50	<0.5	<0.5	<0.5	<0.5
11/19/93	<50	<0.5	<0.5	<0.5	<0.5
12/21/93	73	3.5	<0.5	1.9	8.4
01/18/94	60	3.1	<0.5	3.2	4.3
02/17/94	<50	2.5	<0.5	2.1	3.1
03/15/94	<50	<0.5	<0.5	<0.5	<0.5
04/21/94	110	7.8	<1.0	9.6	<1.0
05/13/94	230	8.3	<0.5	14	6.0
06/14/94	230	12	<0.5	16	1.5
07/14/94	270	6.9	<0.5	15	1.9
08/18/94	<50	1.8	<0.5	1.5	<0.5
09/12/94	<50	<0.5	<0.5	<0.5	<0.5
10/18/94	<50	<0.5	<0.5	<0.5	<0.5
11/05/94	<50	0.66	<0.5	2.6	<0.5
12/05/94	470	32	0.59	29	6.2
01/04/95	<50	1.1	<0.50	1.4	<0.50
02/06/95	100	2.4	1.1	1.2	2.8
03/02/95	<50	<0.50	<0.50	<0.50	<0.50
04/04/95	290	6.6	<0.50	10	1.7
05/02/95	240	7.1	<0.50	3.2	1.6
06/05/95	<50	<0.50	<0.50	<0.50	<0.50
07/06/95	270	2.4	<0.50	7.6	1.0
08/21/95	230	1.8	<0.50	1.6	0.9

Table 6 (continued)
Treatment System Analytical Data
Total Purgeable 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)
MID-1 (between carbons)					
09/26/91	<30	<0.3	<0.3	<0.3	<0.3
10/22/91	<30	<0.3	<0.3	<0.3	<0.3
12/19/91	<30	<0.3	<0.3	<0.3	<0.3
01/16/91	<30	<0.3	<0.3	<0.3	<0.3
02/19/92	<30	<0.3	<0.3	<0.3	<0.3
03/17/92	<30	<0.3	<0.3	<0.3	<0.3
04/15/92	<30	<0.3	<0.3	<0.3	<0.3
05/14/92	<30	<0.3	<0.3	<0.3	<0.3
06/19/92	<30	<0.3	<0.3	<0.3	<0.3
07/14/92	NS	NS	NS	NS	NS
08/18/92	NS	NS	NS	NS	NS
09/15/92	NS	NS	NS	NS	NS
10/16/92	NS	NS	NS	NS	NS
11/18/92	NS	NS	NS	NS	NS
12/17/92	NS	NS	NS	NS	NS
01/18/93	NS	NS	NS	NS	NS
02/22/93	NS	NS	NS	NS	NS
03/15/93	NS	NS	NS	NS	NS
04/09/93	NS	NS	NS	NS	NS
05/13/93	NS	NS	NS	NS	NS
06/04/93	NS	NS	NS	NS	NS
07/14/94	ND	ND	ND	ND	ND
08/17/94	NS	NS	NS	NS	NS
09/12/94	NS	NS	NS	NS	NS
10/18/94	NS	NS	NS	NS	NS
11/05/94	NS	NS	NS	NS	NS
12/05/94	NS	NS	NS	NS	NS
01/04/95	NS	NS	NS	NS	NS
02/06/95	NS	NS	NS	NS	NS
03/02/95	NS	NS	NS	NS	NS
EFFL (effluent to sewer)					
09/26/91	<30	<0.3	<0.3	<0.3	<0.3
10/22/91	<30	<0.3	<0.3	<0.3	<0.3
11/22/91	<30	<0.3	<0.3	<0.3	<0.3
12/19/91	<30	<0.3	<0.3	<0.3	<0.3
01/16/91	<30	<0.3	<0.3	<0.3	<0.3
02/19/92	<30	<0.3	<0.3	<0.3	<0.3
03/17/92	<30	<0.3	<0.3	<0.3	<0.3
04/15/92	<30	<0.3	<0.3	<0.3	<0.3
05/14/92	<30	<0.3	<0.3	<0.3	<0.3
06/19/92	<30	<0.3	<0.3	<0.3	<0.3
07/14/92	<50	<0.5	<0.5	<0.5	<0.5
08/18/92	<50	<0.5	<0.5	<0.5	<0.5
09/15/92	<50	<0.5	<0.5	<0.5	<0.5
10/16/92	<50	<0.5	<0.5	<0.5	<0.5
11/18/92	<50	<0.5	<0.5	<0.5	<0.5
12/17/92	<50	<0.5	<0.5	<0.5	<0.5

Table 6 (continued)
Treatment System Analytical Data
Total Purgeable 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)
EFFL (effluent to sewer) (cont.)					
01/18/93	<50	<0.5	<0.5	<0.5	<0.5
02/22/93	<50	<0.5	<0.5	<0.5	<0.5
03/15/93	<50	<0.5	<0.5	<0.5	<0.5
04/09/93	<50	<0.5	<0.5	<0.5	<0.5
05/13/93	<50	<0.5	<0.5	<0.5	<0.5
06/04/93	<50	<0.5	<0.5	<0.5	<0.5
07/20/93	<50	<0.5	<0.5	<0.5	<0.5
08/16/93	<50	<0.5	<0.5	<0.5	<0.5
09/13/93	<50	<0.5	<0.5	<0.5	<0.5
10/08/93	<50	<0.5	<0.5	<0.5	<0.5
11/19/93	<50	<0.5	<0.5	<0.5	<0.5
12/21/93	<50	<0.5	<0.5	<0.5	<0.5
01/18/94	<50	<0.5	<0.5	<0.5	<0.5
02/17/94	<50	<0.5	<0.5	<0.5	<0.5
03/15/94	<50	<0.5	<0.5	<0.5	<0.5
04/21/94	<50	<0.5	<0.5	<0.5	<0.5
05/13/94	<50	<0.5	<0.5	<0.5	<0.5
06/14/94	<50	<0.5	<0.5	<0.5	<0.5
07/14/94	<50	<0.5	<0.5	<0.5	<0.5
08/17/94	<50	<0.5	<0.5	<0.5	<0.5
09/12/94	<50	<0.5	<0.5	<0.5	<0.5
10/18/94	<50	<0.5	<0.5	<0.5	<0.5
11/05/94	<50	<0.5	<0.5	<0.5	<0.5
12/05/94	<50	<0.5	<0.5	<0.5	<0.5
01/04/95	<50	<0.50	<0.50	<0.50	<0.50
02/06/95	<50	<0.50	<0.50	<0.50	<0.50
03/02/95	<50	<0.50	<0.50	<0.50	<0.50
04/04/95	<50	<0.50	<0.50	<0.50	<0.50
05/02/95	<50	<0.50	<0.50	<0.50	<0.50
06/05/95	<50	<0.50	<0.50	<0.50	<0.50
07/06/95	<50	<0.50	<0.50	<0.50	<0.50
08/21/95	<50	<0.50	<0.50	<0.50	<0.50

TPPH = Total purgeable petroleum hydrocarbons
ppb = Parts per billion
< = Denotes minimum laboratory detection limit.
NS = Not sampled
ND = Not detected
Prior to June 1995, TPPH as gasoline was reported as TPH as gasoline.

Table 7

Groundwater Biodegradation Study Field and Laboratory Data

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

		Field Analyses										Laboratory Analyses			
Well	Sample Date	Color	Odor	pH (units)	Electrical Conductivity (millimhos)	Oxidation Reduction Potential (millivolts)	Temperature (degrees C)	Turbidity (NTU)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L)	Ferrous Iron (mg/L)	Nitrate as Nitrate (mg/L)	Sulfate (mg/L)	TPPH as Gasoline (µg/L)	Benzene (µg/L)
Background Range (Approximate)		NA	NA	6.5 to 8.0	<1,000	-400 to +200	10.0 to 20.0	<250	~0	>1.0	>0	>1.0	>5.0	<50	<0.50
Approximate Range Indicating Biodegradation		NA	NA	6.5 to 8.0	<1,000	-400 to +200	10.0 to 20.0	<250	~0	< 1.0	~0	<1.0	< 5.0	>50	>0.50
590 H	05/26/95	Clear	None	7.37	2,360	-95	20.5	9.51	0.0	6.0	0.0	38	70	<50	<0.50
	09/15/95	Clear	Heavy	7.10	1,060	NM	19.4	100 a	NM	NM	NM	NS	NS	<50	<0.50
633 H	05/31/95	Clear	None	7.09	1,295	-72	18.9	17.85	0.0	1.0	0.2	38	61	<50	0.93
	09/12/95	Clear	None	7.41	861	NM	20.0	100 a	NM	1.0/2.0	NM	NS	NS	<50	0.64
634 H	05/31/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/12/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
642 H	05/31/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/12/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
675 H	05/31/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/12/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
17197 VM	05/31/95	Clear	None	7.37	1,333	-149	19.0	7.44	0.0	2.0	0.8	22	45	<50	<0.50
	09/14/95	Clear	None	7.48	850	NM	18.2	100 a	NM	8.0/10	NM	NS	NS	<50	<0.50
17200 VM	05/30/95	Brown	None	7.49	1,365	-185	19.8	30.40	0.0	1.0	0.18	31	67	<50	<0.50
	09/14/95	Clear	Faint	7.21	951	NM	21.1	100 a	NM	1.0/1.0	NM	NS	NS	510	<0.50
17203 VM	05/31/95	Brown	None	7.21	1,236	-168	18.3	35.10	0.0	1.0	0.1	26	48	<50	<0.50
	09/14/95	Clear	None	7.36	920	NM	20.0	100 a	NM	2.0/2.0	NM	NS	NS	<50	<0.50

Table 7 (continued)

Groundwater Biodegradation Study Field and Laboratory Data

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

		Field Analyses										Laboratory Analyses			
Well	Sample Date	Color	Odor	pH (units)	Electrical Conductivity (millimhos)	Oxidation Reduction Potential (millivolts)	Temperature (degrees C)	Turbidity (NTU)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L)	Ferrous Iron (mg/L)	Nitrate as Nitrate (mg/L)	Sulfate (mg/L)	TPPH as Gasoline (µg/L)	Benzene (µg/L)
17302 VM	05/31/95	Clear	None	7.41	1,193	-159	18.6	8.83	0.0	2.0	0.1	9	58	<50	<0.50
	09/14/95	Clear	None	7.56	920	NM	20.6	100 a	NM	1.0/1.0	NM	NS	NS	<50	<0.50
17348 VE	05/30/95	Brown	None	7.28	1,423	-113	22.5	>200	0.0	2.0	0.6	22 b	85 b	<50	<0.50
	09/14/95	Clear	Faint	7.00	1,001	NM	18.1	100 a	NM	1.0/1.0	NM	NS	NS	<50	<0.50
17349 VM	05/31/95	Clear	Moderate	7.02	1,190	-226	19.3	15.11	0.0	1.0	0.5	<0.10	15	890	<0.50
	09/15/95	Clear	Faint	7.04	1,106	NM	18.0	100 a	NM	1.0/1.0	NM	NS	NS	610	3.9
17371 VM	05/31/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/15/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
17372 VM	05/31/95	Clear	None	7.09	1,371	-227	19.5	11.25	0.0	1.0	0.1	<0.10	100	60	<0.50
	09/14/95	Clear	None	7.36	946	NM	18.7	100 a	NM	NM	NM	NS	NS	<50	<0.50
17393 VM	05/31/95	Brown	None	7.40	1,508	-228	19.9	18.13	0.0	1.0	0.1	33	74	<50	<0.50
	09/15/95	Clear	None	7.11	1,020	NM	19.4	100 a	NM	1.0/2.0	NM	NS	NS	<50	<0.50
E-1A c	06/01/95	Clear	None	7.63	1,340	-155	20.4	8.50	0.0	2.0	0.1	23	54	680	4.9
	09/15/95	Clear	Moderate	7.36	1,208	NM	15.9	100 a	NM	1.0/1.5	NM	NS	NS	73	3.3
MW-5	06/01/95	Brown	Faint	7.10	1,400	-119	20.2	98.85	0.0	2.0	*	19	<0.1	750	13
	09/15/95	Clear	Heavy	7.20	1,068	NM	17.7	100 a	NM	1.0/2.0	NM	NS	NS	550	11
MW-7	06/01/95	Brown	None	7.11	1,156	-99	20.7	43.27	0.0	*	*	42	68	<50	<0.50
	09/15/95	Brown	None	7.20	1,406	NM	18.3	100 a	NM	NM	NM	NS	NS	<50	<0.50
MW-8	06/01/95	Brown	Strong	7.09	1,071	-199	20.4	29.00	0.0	1.0	0.1	<0.10	33	810	5.2
	09/15/95	Clear	Moderate	7.01	1,000	NM	17.3	100 a	NM	1.0/1.0	NM	NS	NS	850	30

Table 7 (continued)

Groundwater Biodegradation Study Field and Laboratory Data

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

				Field Analyses								Laboratory Analyses			
Well	Sample Date	Color	Odor	pH (units)	Electrical Conductivity (millimhos)	Oxidation Reduction Potential (millivolts)	Temperature (degrees C)	Turbidity (NTU)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L)	Ferrous Iron (mg/L)	Nitrate as Nitrate (mg/L)	Sulfate (mg/L)	TPPH as Gasoline (µg/L)	Benzene (µg/L)
MW-9	06/01/95	Brown	None	7.27	1,191	-117	20.6	>200	0.0	*	*	27	67	<50	<0.50
	09/15/95	Brown	None	7.10	926	NM	19.4	100 a	NM	1.0/2.0	NM	NS	NS	<50	<0.50
MW-10 c	06/01/95	Clear	Moderate	7.00	1,301	-199	18.0	9.28	0.0	1.0	0.2	<0.10	8.1	1,100	<1.2
	09/14/95	Clear	Moderate	7.10	968	NM	20.0	100 a	NM	1.0/2.0	NM	NS	NS	1,100	<2.0
MW-11	06/01/95	Brown	None	7.15	1,275	-152	18.0	55.40	0.0	1.0	0.1	43	75	<50	<0.50
	09/14/95	Cloudy	None	7.06	608	NM	19.8	100 a	NM	1.0/2.0	NM	NS	NS	<50	<0.50
MW-13	06/01/95	Brown	None	7.23	1,247	-104	21.2	>200	0.0	*	*	43	66	<50	<0.50
	09/15/95	Clear	None	7.10	1,190	NM	17.2	100 a	NM	1.0/1.0	NM	NS	NS	<50	<0.50
MW-14	06/01/95	Brown	None	7.09	1,223	-185	18.9	32.93	0.0	1.0	0.0	27	62	<50	<0.50
	09/14/95	Cloudy	None	6.99	860	NM	20.0	150 a	NM	2.0/2.0	NM	NS	NS	<50	<0.50
MW-15	05/31/95	Brown	None	6.98	1,336	-230	20.2	39.70	0.0	1.0	0.2	<0.10	73	<50	<0.50
	09/14/95	Brown	None	7.30	901	NM	20.3	100 a	NM	1.0/2.0	NM	NS	NS	<50	<0.50
MW-16	05/31/95	Brown	None	7.43	1,135	-188	20.2	51.67	0.0	2.0	0.12	12	41	52	<0.50
	09/14/95	Brown	None	7.36	996	NM	21.2	100 a	NM	2.0/2.0	NM	NS	NS	<50	<0.50
MW-17	05/30/95	Clear	None	7.25	1,351	-126	18.8	16.82	0.0	1.0	0.18	18	58	93	1.0
	09/14/95	Clear	None	7.11	827	NM	15.6	100 a	NM	1.0/1.0	NM	NS	NS	63	<0.50
MW-18	05/30/95	Clear	None	7.04	1,401	-136	20.3	14.39	0.0	1.0	0.15	31	57	<50	<0.50
	09/14/95	Cloudy	None	7.41	1,018	NM	20.6	150 a	NM	1.0/1.0	NM	NS	NS	<50	<0.50
MW-19	05/30/95	Clear	None	7.52	1,466	-167	19.5	25.43	0.0	1.0	0.15	30	63	<50	<0.50
	09/14/95	Clear	None	7.06	937	NM	21.7	100 a	NM	1.0/2.0	NM	NS	NS	<50	<0.50

Table 7 (continued)

Groundwater Biodegradation Study Field and Laboratory Data

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

		Field Analyses										Laboratory Analyses			
Well	Sample Date	Color	Odor	pH (units)	Electrical Conductivity (millimhos)	Oxidation Reduction Potential (millivolts)	Temperature (degrees C)	Turbidity (NTU)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L)	Ferrous Iron (mg/L)	Nitrate as Nitrate (mg/L)	Sulfate (mg/L)	TPPH as Gasoline (µg/L)	Benzene (µg/L)
MW-21	05/30/95	Clear	None	7.34	1,294	-149	19.9	17.39	0.0	1.0	0.1	42	56	<50	<0.50
	09/14/95	Clear	None	7.30	940	NM	18.2	100 a	NM	1.0/1.0	NM	NS	NS	<50	<0.50
MW-22	05/30/95	Clear	None	7.28	1,118	-150	18.9	13.30	0.0	1.0	0.15	11	80	<50	<0.50
	09/14/95	Cloudy	None	7.31	960	NM	17.9	150 a	NM	2.0/2.0	NM	NS	NS	<50	<0.50
MW-23	05/30/95	Brown	None	7.25	1,353	-98	20.1	84.40	0.0	2.0	0.2	35	74	<50	<0.50
	09/14/95	Clear	None	6.93	954	NM	18.2	100 a	NM	1.0/2.0	NM	NS	NS	<50	<0.50
MW-24	06/01/95	Brown	None	6.66	1,280	-91	21.4	>200	0.0	*	*	29	58	<50	<0.50
	09/15/95	Brown	None	7.18	996	NM	19.4	100 a	NM	2.0/2.0	NM	NS	NS	<50	<0.50
MW-25	06/01/95	Brown	None	7.23	1,222	-76	19.5	>200	0.0	*	*	31	73	<50	<0.50
	09/15/95	Brown	None	7.20	609	NM	17.8	100 a	NM	1.0/1.0	NM	NS	NS	140	<0.50
MW-26	06/01/95	Brown	Faint	7.13	1,261	-92	22.4	>200	0.0	*	*	29	62	<50	<0.50
	09/15/95	Brown	None	7.21	680	NM	17.8	100 a	NM	1.0/1.0	NM	NS	NS	<50	<0.50
SP-1	09/15/95	Clear	None	6.94	1,040	NM	18.3	100 a	NM	1.0/2.0	NM	NS	NS	<50	<0.50
SP-2	09/15/95	Clear	None	7.18	1,110	NM	20.1	100 a	NM	2.0/2.0	NM	NS	NS	94	<0.50

NTU = Nepholemetric turbidity unit
mg/L = Milligrams per liter
µg/L = Micrograms per liter
TPPH = Total purgeable petroleum hydrocarbons
NA = Not available or not applicable due to well blockage, inoperable pump, or not authorized by well owner to sample.
NM = Not measured
NS = Not sampled
* = High sample turbidity prevented colorimetric analysis

a. Numerical values were not given for turbidity; light was assumed to be 100 NTU and moderate was assumed to be 150 NTU.
b. The sulfate and nitrate samples for Well 17348 VE were lost at the laboratory. The well was resampled for these analyses on June 2, 1995.
c. ORC's installed September 21, 1995 in Wells E-1A and MW-10.
Recorded values represent an average of one to three samples.

N

VIA MANZANAS

RESIDENTIAL

MW-20

POTRERO COURT

APARTMENTS

APARTMENTS

VIA ARRIBA

HESPERIAN BOULEVARD

SHOPS

RESTAURANT

MW-19
(18.62)

VIA MAGDALENA

18.00

19.00

20.00

CHURCH
AND SCHOOL

17200VM

MW-14
(20.46)

MW-24
(20.91)

21.00

MW-21
(17.84)

17197VM

MW-18
(18.74)

MW-17
(19.60)

RESIDENTIAL

MW-26
(20.96)

RESTAURANT

17203VM

17302VM

17372VM

MW-9
(21.23)

VIA MEDIA

VIA FLORES

RESIDENTIAL

MW-16
(19.42)

(20.62)
MW-10

(21.23)-E-1A

(21.12) MW-8

MW-25
(21.70)

633H

SP-2/V-5

SP-1/V-4

MW-5
(21.31)

590H

17349VM

17371VM

MW-15
(19.97)

MW-13
(21.38)

MW-7
(21.63)

MW-22
(17.89)

17393VM

MW-11
(20.83)

634H

642H

VIA ENCINAS COURT

17348VE

RESIDENTIAL

SHOPS

MW-23
(18.59)

675H

RESIDENTIAL

VIA ALAMO

HACIENDA AVENUE

LEGEND

MW-7 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

E-1A ◔ GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

SP-1/V-4 △ DUAL COMPLETION AIR SPARGING/SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION

MW-20 ⌀ DESTROYED WELL LOCATION AND DESIGNATION

590H ■ DOMESTIC IRRIGATION WELL LOCATION AND DESIGNATION

(20.96) GROUNDWATER ELEVATION IN FEET - MSL, 9-15-95

20.00 GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 9-15-95

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

APPROXIMATE GRADIENT = 0.003

PACIFIC ENVIRONMENTAL GROUP, INC.

APPROXIMATE SCALE

0 150 300 FEET

ARCO SERVICE STATION 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE:
1
PROJECT:
330-006.2B

N

VIA MANZANAS

RESIDENTIAL

MW-20 Ø

POTRERO COURT

APARTMENTS

APARTMENTS

VIA ARRIBA

HESPERIAN BOULEVARD

SHOPS

RESTAURANT

MW-19 ND/ND

VIA MAGDALENA

CHURCH AND SCHOOL

510/ND
17200VM

MW-17 63/ND

MW-14 ND/ND

MW-24 ND/ND

RESIDENTIAL

MW-26 ND/ND

RESTAURANT

MW-9 ND/ND

MW-21 ND/ND

VIA FLORES

ND/ND
17197VM

MW-18 ND/ND

17203VM ND/ND

17302VM ND/ND

ND/ND 17372VM

1,100/ND

73/3.3-E-1A

MW-25 140/ND

RESIDENTIAL

MW-16 ND/ND

ND/0.64 633H

MW-10

SP-2/V-5

850/30 MW-8

MW-5 550/11

SP-1/V-4

590H ND/ND

MW-7 ND/ND

17349VM 610/3.9

17371VM NS

MW-15 ND/ND

MW-11 ND/ND

MW-22 ND/ND

VIA ENCINAS COURT

17393VM ND/ND

634H 642H NS NS

MW-13 ND/ND

RESIDENTIAL

SHOPS

ND/ND 17348VE

HACIENDA AVENUE

MW-23 ND/ND

675H ND/ND

RESIDENTIAL

VIA ALAMO

LEGEND

MW-7 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

E-1A ◉ GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

SP-1/V-4 △ DUAL COMPLETION AIR SPARGING/SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION

MW-20 Ø DESTROYED WELL LOCATION AND DESIGNATION

590H ■ DOMESTIC IRRIGATION WELL LOCATION AND DESIGNATION

550/11 TPPH-g/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 9-15-95

ND NOT DETECTED

NS NOT SAMPLED

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

PACIFIC ENVIRONMENTAL GROUP, INC.

APPROXIMATE SCALE

0 150 300 FEET

ARCO SERVICE STATION 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

TPPH-g/BENZENE CONCENTRATION MAP

FIGURE: **2**

PROJECT: 330-006.2B

Figure 3
Mass Removal Trend for the Groundwater Extraction System

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

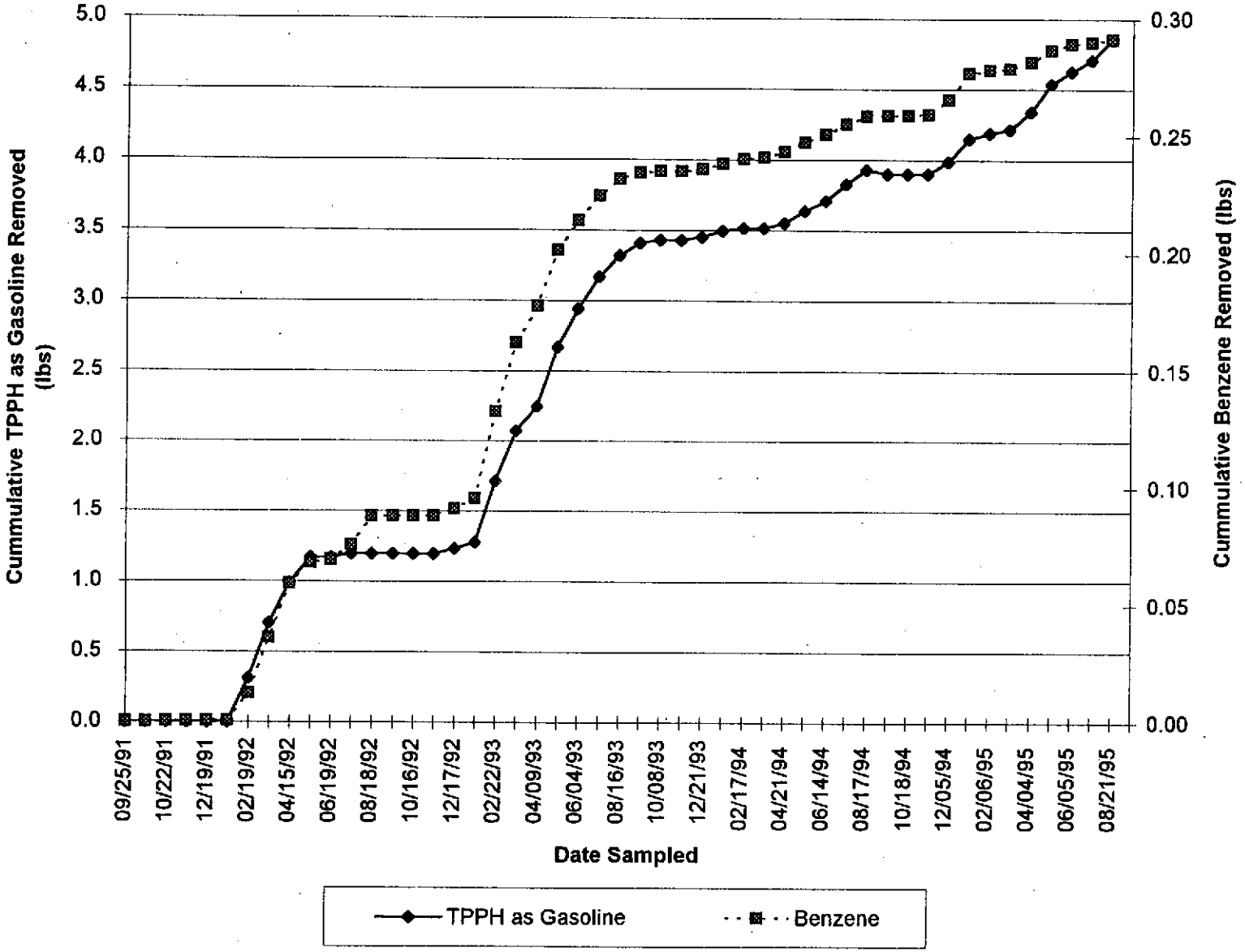
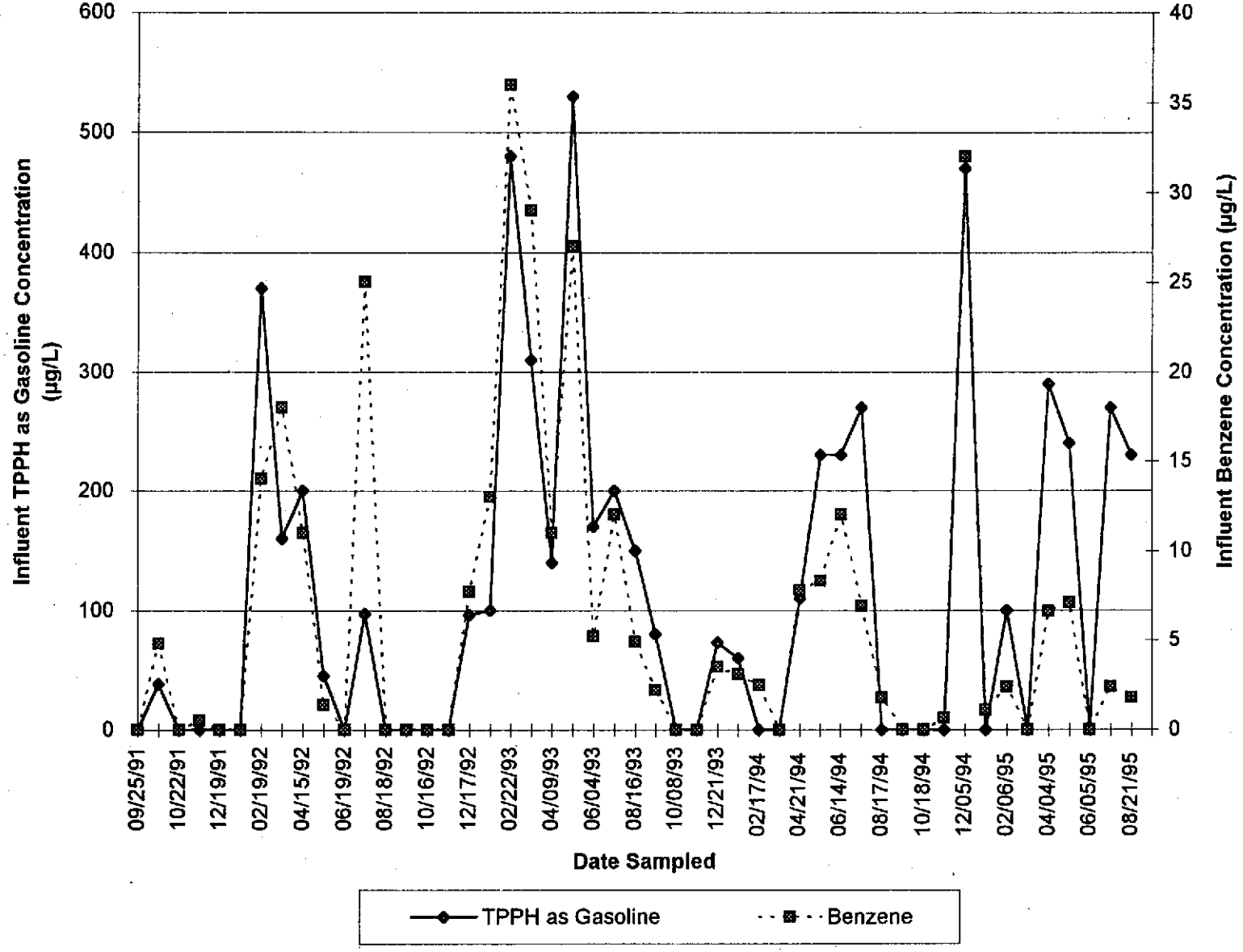


Figure 4
Concentration Trends for the Groundwater Extraction System

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



ATTACHMENT A

FIELD AND LABORATORY PROCEDURES

ATTACHMENT A
FIELD AND LABORATORY PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and checking for the presence of separate-phase hydrocarbons (SPH), using either an electronic indicator and a clear Teflon® bailer or an oil-water interface probe. Wells not containing SPH are then purged of approximately three casing volumes of water (or to dryness) using a centrifugal pump, gas displacement pump, or bailer. Equipment used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored in order to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially recover. Groundwater samples are collected using a Teflon® bailer, placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to a California State-certified laboratory.

Laboratory Procedures

The groundwater samples were analyzed for the presence of total purgeable petroleum hydrocarbons calculated as gasoline, benzene, toluene, ethylbenzene, and xylenes. The analyses were performed according to EPA Methods 8015 (modified), 8020, and 5030 utilizing a purge-and-trap extraction technique. Final detection was by gas chromatography using flame- and photo-ionization detectors. The methods of analysis for the groundwater samples are documented in the certified analytical reports. Certified analytical reports, chain-of-custody documentation, and field data sheets are presented as Attachment B.

ATTACHMENT B

CERTIFIED ANALYTICAL REPORTS, CHAIN-OF-CUSTODY DOCUMENTATION, AND FIELD DATA SHEETS

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

RECEIVED
SEP 27 1995
PACIFIC ENVIRONMENTAL GROUP, INC.

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Project: 330-006.2G/0608,San Lorenzo

Enclosed are the results from samples received at Sequoia Analytical on September 18, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9509A32 -01	LIQUID, MW-5	09/15/95	TPGBMW Purgeable TPH/BTEX
9509A32 -02	LIQUID, MW-7	09/15/95	TPGBMW Purgeable TPH/BTEX
9509A32 -03	LIQUID, MW-8	09/15/95	TPGBMW Purgeable TPH/BTEX
9509A32 -04	LIQUID, MW-9	09/15/95	TPGBMW Purgeable TPH/BTEX
9509A32 -05	LIQUID, MW-10	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -06	LIQUID, MW-11	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -07	LIQUID, MW-13	09/15/95	TPGBMW Purgeable TPH/BTEX
9509A32 -08	LIQUID, MW-14	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -09	LIQUID, MW-15	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -10	LIQUID, MW-16	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -11	LIQUID, MW-17	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -12	LIQUID, MW-18	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -13	LIQUID, MW-19	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -14	LIQUID, MW-21	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -15	LIQUID, MW-22	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -16	LIQUID, MW-23	09/14/95	TPGBMW Purgeable TPH/BTEX
9509A32 -17	LIQUID, MW-24	09/15/95	TPGBMW Purgeable TPH/BTEX
9509A32 -18	LIQUID, MW-25	09/15/95	TPGBMW Purgeable TPH/BTEX
9509A32 -19	LIQUID, MW-26	09/15/95	TPGBMW Purgeable TPH/BTEX

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

acific Environmental Group
025 Gateway Place, Suite 440
an Jose, CA 95110
ttention: Maree Doden

roject: 330-006.2G/0608,San Lorenzo

Enclosed are the results from samples received at Sequoia Analytical on September 18, 1995.
he requested analyses are listed below:

AMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
509A33 -20	LIQUID, E-1A	09/15/95	TPGBMW Purgeable TPH/BTEX
509A33 -21	LIQUID, SP-1	09/15/95	TPGBMW Purgeable TPH/BTEX
509A33 -22	LIQUID, SP-2	09/15/95	TPGBMW Purgeable TPH/BTEX
509A33 -23	LIQUID, 590H	09/15/95	TPGBMW Purgeable TPH/BTEX
509A33 -24	LIQUID, 633H	09/14/95	TPGBMW Purgeable TPH/BTEX
509A33 -25	LIQUID, 17348VE	09/14/95	TPGBMW Purgeable TPH/BTEX
509A33 -26	LIQUID, 17197Vm	09/14/95	TPGBMW Purgeable TPH/BTEX
509A33 -27	LIQUID, 17200VM	09/14/95	TPGBMW Purgeable TPH/BTEX
509A33 -28	LIQUID, 17203VM	09/14/95	TPGBMW Purgeable TPH/BTEX
509A33 -29	LIQUID, 17302VM	09/14/95	TPGBMW Purgeable TPH/BTEX
509A33 -30	LIQUID, 17349VM	09/15/95	TPGBMW Purgeable TPH/BTEX
509A33 -31	LIQUID, 17372VM	09/14/95	TPGBMW Purgeable TPH/BTEX
509A33 -32	LIQUID, 17393VM	09/15/95	TPGBMW Purgeable TPH/BTEX
509A33 -33	LIQUID, TB-1	09/14/95	TPGBMW Purgeable TPH/BTEX

lease contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on
is project.

ery truly yours,

EQUOIA ANALYTICAL

B Fletcher

rucie Fletcher
roject Manager

Quality Assurance Department

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: MW-5	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-01	Reported: 09/25/95

QC Batch Number: GC092095BTEX03A
nstrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**100**	**550**
Methyl t-Butyl Ether	**5.0**	**660**
Benzene	**1.0**	**11**
Toluene	1.0	N.D.
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		
Weathered Gas		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	75

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

B Fletcher

Brucie Fletcher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: MW-7	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-02	Reported: 09/25/95

QC Batch Number: GC092095BTEX03A
nstrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	86

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: MW-8	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-03	Reported: 09/25/95

QC Batch Number: GC092095BTEX17A
nstrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**100**	**850**
Methyl t-Butyl Ether	**5.0**	**110**
Benzene	**1.0**	**30**
Toluene	1.0	N.D.
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		
Gas & Unidentified HC		**>C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	73

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: MW-9	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-04	Reported: 09/25/95

QC Batch Number: GC092095BTEX03A
nstrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

nalytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: MW-10	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-05	Reported: 09/25/95

QC Batch Number: GC092095BTEX17A
nstrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	200	**1100**
Methyl t-Butyl Ether	10	**630**
Benzene	2.0	N.D.
Toluene	2.0	N.D.
Ethyl Benzene	2.0	N.D.
Xylenes (Total)	2.0	N.D.
Chromatogram Pattern:		
Gas & Unidentified HC		**>C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	76

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: MW-11	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-06	Reported: 09/25/95

QC Batch Number: GC092095BTEX03A
nstrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: MW-13	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-07	Reported: 09/25/95

QC Batch Number: GC092095BTEX03A
nstrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: MW-14	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-08	Reported: 09/25/95

QC Batch Number: GC092095BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: MW-15	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-09	Reported: 09/25/95

)C Batch Number: GC092095BTEX02A
ıstrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	**2.5**	**9.4**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	77

nalytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: MW-16	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/21/95
Attention: Maree Doden	Lab Number: 9509A32-10	Reported: 09/25/95

QC Batch Number: GC092195BTEX20A
nstrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	**2.5**	**17**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: MW-17	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-11	Reported: 09/25/95

QC Batch Number: GC092095BTEX17A
nstrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**63**
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**1.1**
Xylenes (Total)	**0.50**	**0.51**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: MW-18	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-12	Reported: 09/25/95

QC Batch Number: GC092095BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Maree Doden

Client Proj. ID: 330-006.2G/0608,San Lorenzo
Sample Descript: MW-19
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9509A32-13

Sampled: 09/14/95
Received: 09/18/95

Analyzed: 09/20/95
Reported: 09/25/95

QC Batch Number: GC092095BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: MW-21	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-14	Reported: 09/25/95

QC Batch Number: GC092095BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	78

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: MW-22	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-15	Reported: 09/25/95

)C Batch Number: GC092095BTEX17A
ıstrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

ıalytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: MW-23	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-16	Reported: 09/25/95

QC Batch Number: GC092095BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	80

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: MW-24	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-17	Reported: 09/25/95

QC Batch Number: GC092095BTEX17A
nstrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	87

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: MW-25	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-18	Reported: 09/25/95

QC Batch Number: GC092095BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**140**
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**1.9**
Xylenes (Total)	**0.50**	**3.6**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: MW-26	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A32-19	Reported: 09/25/95

QC Batch Number: GC092095BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	77

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

B Fletcher

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Project Manager

Sequoia Analytical

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: E-1A	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A33-20	Reported: 09/25/95

QC Batch Number: GC092095BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**73**
Methyl t-Butyl Ether	**2.5**	**220**
Benzene	**0.50**	**3.3**
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**2.3**
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	80

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: SP-1	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A33-21	Reported: 09/25/95

QC Batch Number: GC092095BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	**2.5**	**150**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: SP-2	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A33-22	Reported: 09/25/95

QC Batch Number: GC092095BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**94**
Methyl t-Butyl Ether	**2.5**	**380**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Gas & Unidentified HC		**<C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: 590H	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/21/95
Attention: Maree Dodeh	Lab Number: 9509A33-23	Reported: 09/25/95

QC Batch Number: GC092195BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	**0.50**	**13**
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: 633H	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A33-24	Reported: 09/25/95

QC Batch Number: GC092095BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	**0.50**	**0.64**
Toluene	**0.50**	**1.2**
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**7.6**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: 17348VE	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/21/95
Attention: Maree Doden	Lab Number: 9509A33-25	Reported: 09/25/95

QC Batch Number: GC092195BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	88

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: 17197Vm	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/21/95
Attention: Maree Doden	Lab Number: 9509A33-26	Reported: 09/25/95

QC Batch Number: GC092195BTEX20A
nstrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	76

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Maree Doden

Client Proj. ID: 330-006.2G/0608,San Lorenzo
Sample Descript: 17200VM
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9509A33-27

Sampled: 09/14/95
Received: 09/18/95

Analyzed: 09/20/95
Reported: 09/25/95

QC Batch Number: GC092095BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**510**
Methyl t-Butyl Ether	**2.5**	**4.8**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**3.1**
Xylenes (Total)	**0.50**	**3.4**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: 17203VM	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/21/95
Attention: Maree Doden	Lab Number: 9509A33-28	Reported: 09/25/95

QC Batch Number: GC092195BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: 17302VM	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A33-29	Reported: 09/25/95

QC Batch Number: GC092095BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: 17349VM	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/21/95
Attention: Maree Doden	Lab Number: 9509A33-30	Reported: 09/25/95

QC Batch Number: GC092195BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**610**
Methyl t-Butyl Ether	**2.5**	**32**
Benzene	**0.50**	**3.9**
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Gas & Unidentified HC		**<C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	125

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Maree Doden

Client Proj. ID: 330-006.2G/0608,San Lorenzo
Sample Descript: 17372VM
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9509A33-31

Sampled: 09/14/95
Received: 09/18/95

Analyzed: 09/20/95
Reported: 09/25/95

QC Batch Number: GC092095BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	81

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/15/95
2025 Gateway Place, Suite 440	Sample Descript: 17393VM	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A33-32	Reported: 09/25/95

QC Batch Number: GC092095BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	82

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 330-006.2G/0608,San Lorenzo	Sampled: 09/14/95
2025 Gateway Place, Suite 440	Sample Descript: TB-1	Received: 09/18/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/95
Attention: Maree Doden	Lab Number: 9509A33-33	Reported: 09/25/95

QC Batch Number: GC092095BTEX02A
nstrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	75

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-006.2G/0608, San Lorenzo
Matrix: LIQUID
Work Order #: 9509A32 01,02, 04, 06-08
Reported: Sep 26, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC092095BTEX03A	GC092095BTEX03A	GC092095BTEX03A	GC092095BTEX03A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950973607	950973607	950973607	950973607
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/20/95	9/20/95	9/20/95	9/20/95
Analyzed Date:	9/20/95	9/20/95	9/20/95	9/20/95
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.5	9.3	9.2	28
MS % Recovery:	95	93	92	93
Dup. Result:	9.8	9.5	9.5	29
MSD % Recov.:	98	95	95	97
RPD:	3.1	2.1	3.2	3.5
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

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Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-006.2G/0608, San Lorenzo
Matrix: LIQUID
Work Order #: 9509A32 09
9509A33 20, 22, 24, 27, 29, 31-33

Reported: Sep 26, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC092095BTEX02A	GC092095BTEX02A	GC092095BTEX02A	GC092095BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950973607	950973607	950973607	950973607
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/20/95	9/20/95	9/20/95	9/20/95
Analyzed Date:	9/20/95	9/20/95	9/20/95	9/20/95
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.7	9.7	9.5	29
MS % Recovery:	97	97	95	97
Dup. Result:	10	9.8	9.7	29
MSD % Recov.:	100	98	97	97
RPD:	3.0	1.0	2.1	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

B Fletcher

Brucie Fletcher
Project Manager

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Pacific Environmental Group	Client Project ID:	330-006.2G/0608, San Lorenzo	
2025 Gateway Place, Suite 440	Matrix:	LIQUID	
San Jose, CA 95110			
Attention: Maree Doden	Work Order #:	9509A32 03, 05, 11-19	Reported: Sep 26, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC092095BTEX17A	GC092095BTEX17A	GC092095BTEX17A	GC092095BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950973607	950973607	950973607	950973607
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/20/95	9/20/95	9/20/95	9/20/95
Analyzed Date:	9/20/95	9/20/95	9/20/95	9/20/95
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	11	33
MS % Recovery:	110	110	110	110
Dup. Result:	11	11	10	31
MSD % Recov.:	110	110	100	103
RPD:	0.0	0.0	9.5	6.3
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				
MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

B Fletcher

Brucie Fletcher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-006.2G/0608, San Lorenzo
Matrix: LIQUID
Work Order #: 9509A32 10
9509A33 23, 25, 26, 2

Reported: Sep 26, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC092195BTEX20A	GC092195BTEX20A	GC092195BTEX20A	GC092195BTEX20A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950977409	950977409	950977409	950977409
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/21/95	9/21/95	9/21/95	9/21/95
Analyzed Date:	9/21/95	9/21/95	9/21/95	9/21/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	11	33
MS % Recovery:	110	110	110	110
Dup. Result:	10	10	10	31
MSD % Recov.:	100	100	100	103
RPD:	9.5	9.5	9.5	6.3
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

B Fletcher

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Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-006.2G/0608, San Lorenzo
Matrix: LIQUID
Work Order #: 9509A33 30

Reported: Sep 26, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC092195BTEX21A	GC092195BTEX21A	GC092195BTEX21A	GC092195BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950977409	950977409	950977409	950977409
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/21/95	9/21/95	9/21/95	9/21/95
Analyzed Date:	9/21/95	9/21/95	9/21/95	9/21/95
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.4	9.3	9.3	27
MS % Recovery:	94	93	93	90
Dup. Result:	9.5	9.5	9.3	27
MSD % Recov.:	95	95	93	90
RPD:	1.1	2.1	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				
MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

B Fletcher

Brucie Fletcher
Project Manager

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SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC. BY (PRINT): LKrause

WORKORDER: 9508432
DATE OF LOG-IN: 9/18/95

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s): Present / (Absent)
   Intact / Broken*
2. Custody Seal Nos.: Put in Remarks Section
3. Chain-of-Custody Records: (Present) / Absent*
4. Traffic Reports or Packing List: Present / (Absent)
5. Airbill: Airbill / Sticker
   Present / (Absent)
6. Airbill No.:
7. Sample Tags: (Present) / Absent*
   Sample Tag Nos.: (Listed) / Not Listed on Chain-of-Custody
8. Sample Condition: (Intact) / Broken* / Leaking*
9. Does information on custody reports, traffic reports and sample tags agree? (Yes) / No*
10. Proper preservatives used: (Yes) / No*
11. Date Rec. at Lab: 9/18/95
12. Temp. Rec. at Lab: 10° C
13. Time Rec. at Lab: 1144

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS. CONDITION(ETC.)
21	a-c	SP-1	3VOA	liq	9/15	
22		SP-2			↓	
23		590H			↓	
24		633H			9/14	
25		17348VE			↓	
26		17197VM			↓	
27		17200VM			↓	
28		17203VM			↓	
29		17202VM			↓	
30		17349VM			9/15	
31		17372VM			9/14	
32	↓	17393VM			9/15	
33	a-b	TB-1	↓	↓	9/14	

9/18

* if Circled, contact Project manager and attach record of resolution

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC. BY (PRINT): Krause
WORKORDER: 9509432
DATE OF LOG-IN: 9/18/95

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s): Present / (Absent)
   Intact / Broken*
2. Custody Seal Nos.: Put in Remarks Section
3. Chain-of-Custody Records: (Present) / Absent*
4. Traffic Reports or Packing List: Present / (Absent)
5. Airbill: Airbill / Sticker
   Present / (Absent)
6. Airbill No.:
7. Sample Tags: (Present) / Absent*
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8. Sample Condition: (Intact) / Broken* / Leaking*
9. Does information on custody reports, traffic reports and sample tags agree? (Yes) / No*
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11. Date Rec. at Lab: 9/18/95
12. Temp. Rec. at Lab: 10°C
13. Time Rec. at Lab: 1144

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION(ETC.)
1	ac	MW5	3 VOA	liq	9/15	
2		7				
3		8				
4		9				
5		10			9/14	
6		11				
7		13			9/15	
8		14			9/14	
9		15				
10		16				
11		17				
12		18				
13		19				
14		21				
15		22				
16		23				
17		24			9/15	
18		25				
19		26				
20	*	E-1A				

* if Circled, contact Project manager and attach record of resolution

Revision 3/21/95

ARCO Products Company 530-006.26 **Task Order No.** 11016.00
Division of AtlanticRichfieldCompany

ARCO Facility no. 0608	City (Facility) SAN LORENZO	Project manager (Consultant) KELLY BROWN	Laboratory name SEQUO...
ARCO engineer MIKE WHELAN	Telephone no. (ARCO)	Telephone no. (Consultant) (408) 441-7500 / Fax no. (Consultant) (408) 441-7539	Contract number
Consultant name PACIFIC ENVIRONMENTAL GROUP		Address (Consultant) 2025 GATEWAY PLACE, #440 SAN JOSE CA 95110	

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH GAS MTBE EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ VOA ☐ Semi VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
MW-5		3		X		X	HCL	9-15-95	1045		X											1
MW-7		↓		↓		↓	↓	9-15-95	1005		↓											2
MW-8								9-15-95	1205													3
MW-9								9-15-95	940													4
MW-10								9-14-95	1505													5
MW-11								9-14-95	1510													6
MW-13								9-15-95	1025													7
MW-14								9-14-95	1445													8
MW-15								9-14-95	1410													9
MW-16								9-14-95	1325													10
MW-17								9-14-95	1545													11
MW-18								9-14-95	1230													12
MW-19								9-14-95	1620													13
MW-21								9-14-95	1200													14
MW-22								9-14-95	1140													15
MW-23		↓		↓		↓	↓	9-14-95	1125		↓											16

Method of shipment: COURIER

Special detection Limit/reporting: 2000

Special QA/QC

Remarks: 1 of 3 pgs

Lab number: 9509A32

Turnaround time:
- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Condition of sample:			Temperature received:		
Relinquished by sampler [signature]	Date 9-15-95	Time 1445	Received by [signature]	9/15/95	1445
Relinquished by [signature]	Date 9/18/95	Time 1050	Received by [signature]	9/18/95	1050
Relinquished by [signature]	Date 9/18/95	Time 11:44	Received by laboratory [signature]	Date 9/18/95	Time 1144

... copy — ARCO Environmental Engineering; Pink copy — Consultant

ARCO Facility no. 6908 | City (Facility) SAN LORENZO | Project manager (Consultant) KELLY BROWN | Laboratory: SEQUOIA

ARCO engineer MIKE WHELAN | Telephone no. (ARCO) | Telephone no. (Consultant) 408 441 7500 | Fax no. (Consultant) 408 441-7539 | Contract number

Consultant name PACIFIC ENVIRONMENTAL GROUP | Address (Consultant) 2025 GATEWAY PLACE #440 SAN JOSE CA 95110

Method of shipment: COURIER

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 8020/EPA 8020	BTEX/TPH G/MW BTEX EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ VOA ☐ Semi VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
MW-24		3		X		X	HCl	9-15-95	910		X											17
MW-25								9-15-95	950													18
MW-26								9-15-95	855													19
E-1A								9-15-95	1130													20
SP-1								9-15-95	1055													21
SP-2								9-15-95	1225													22
590H								9-15-95	1140													23
6334								9-19-95	1430													24
17348VE								9-14-95	1050													25
17197VM								9-14-95	1215													26
17200VM								9-14-95	1605													27
17203VM								9-14-95	1240													28
17202VM								9-14-95	1235													29
17349VM								9-15-95	1315													30
17372VM								9-14-95	1325													31
17393VM		↓		↓		↓	↓	9-15-95	1255		↓											32

Special detection Limit/reporting

Special QA/QC

Remarks: 2 of 3 pages

Lab number: 9509A32

Turnaround time

Priority Rush 1 Business Day ☐

Rush 2 Business Days ☐

Expedited 5 Business Days ☐

Standard 10 Business Days ☒

Condition of sample:

Temperature received:

	Date	Time
Relinquished by sampler: Jan Allen	9-15-95	1445
Relinquished by: M Dodson	9/18/95	1050
Relinquished by: Ralf Bonelli	9/18/95	11:44

	Date	Time
Received by: M Dodson	9/15/95	1445
Received by: Ralf Bonelli	9/18/95	1050
Received by laboratory: J Hsu	9/18/95	1144

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant

APC-3292 (2-91)

Task Order No.

ARCO Facility no. 0608	City (Facility) SAN LORENZO	Project manager (Consultant) KELLY BROWN	Laboratory SEQUOIA
ARCO engineer MIKE WHELAN	Telephone no. (ARCO)	Telephone no. (Consultant) (408) 441-7500	Fax no. (Consultant) (408) 441-7539
Consultant name VERSAR ENVIRONMENTAL GROUP	Address (Consultant) 2025 GATEWAY PLACE #440, SAN JOSE CA 95110		Contract number

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH GAS/BTEX EPA 8020/8020/8015	TPH Modified 8015 Gas / Diesel	Oil and Grease 413.1 / 413.2	TPH EPA 418.1/SM5203E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Semi Metals / VOA / VOA	CAM Metals EPA 6010/7000 TTLC / STLC	Lead Org./DHS / Lead EPA 7420/7421		
TB-1		2		X		X	HCl	9/1/95	NA		X											II

Method of shipment: COURIER

Special detection Limit/reporting

Special QA/QC

SEP 2 1 4

Remarks: 3 of 3 pgs

Lab number: 9509432

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Condition of sample:

Temperature received:

Relinquished by sampler	Date 9-15-95	Time 1445	Received by [signature] 9/15/95 1445
Relinquished by [signature]	Date 9/18/95	Time 1050	Received by [signature] 9/18/95 1050
Relinquished by [signature]	Date 9/18/95	Time 11:45	Received by laboratory [signature] Date 9/18/95 Time 1144

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant

APC-3292 (2-91)

Division of AtlanticRichfieldCompany

Chain of Custody

ARCO Facility no. 0608 | City (Facility) SAN LORENZO | Task Order No. 17076.00

ARCO engineer MIKE WHELAN | Telephone no. (ARCO) | Project manager (Consultant) KELLY BROWN

Consultant name PACIFIC ENVIRONMENTAL GROUP | Address (Consultant) 2025 GATEWAY PLACE, #440, SAN JOSE CA 95110 | Telephone no (Consultant) (408) 441-7500 | Fax no. (Consultant) (408) 441-7539

Laboratory name SEQUOIA | Contract number

Method of shipment: COURIER

Special detection Limit/reporting

Special QA/QC

Remarks: 1 of 3 pgs

Lab number

Turnaround time

Priority Rush 1 Business Day ☐

Rush 2 Business Days ☐

Expedited 5 Business Days ☐

Standard 10 Business Days ☒

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH(gas) EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐
MW-5		3		X		X	HCL	9/5/95	1045		X									
MW-7								9/5/95	1005											
MW-8								9/5/95	1205											
MW-9								9/6/95	940											
MW-10								9/11/95	1505											
MW-11								9/11/95	1510											
MW-13								9/5/95	1025											
MW-14								9/14/95	1445											
MW-15								9/14/95	1410											
MW-16								9/14/95	1325											
MW-17								9/14/95	1545											
MW-18								9/11/95	1230											
MW-19								9/14/95	1620											
MW-21								9/14/95	1200											
MW-22								9/14/95	1140											
MW-23								9/14/95	1125											

Condition of sample:

Temperature received:

	Date	Time
Relinquished by sampler	9/5/95	1445
Relinquished by	9/18/95	1050
Relinquished by		

	Date	Time
Received by	9/5/95	1445
Received by		
Received by laboratory	9/11/95	1050

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant

APC-3292 (2-91)

ARCO Products Company
Division of AtlanticRichfieldCompany

330-006.26 **Task Order No.** 17076.00

Chain of Custody

ARCO Facility no. 0608	City (Facility) SAN LORENZO	Project manager (Consultant) KELLY BROWN	Laboratory name SEQUOIA
ARCO engineer MIKE WHELAN	Telephone no. (ARCO)	Telephone no. (Consultant) (408)441-7500	Fax no. (Consultant) (408)441-7539
Consultant name PACIFIC ENVIRONMENTAL GROUP	Address (Consultant) 2025 GATEWAY PLACE #440 SAN JOSE CA 95110		Contract number

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH (Gas) EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ VOA ☐ Semi VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
MW-24		3		X		X	HCL	9.15.95	910		X											
MW-25								9.15.95	950													
MW-26								9.15.95	855													
E-1A								9.15.95	1130													
SP-1								9.15.95	1055													
SP-2								9.15.95	1225													
5904								9.15.95	1140													
6334								9.14.95	1430													
17348VE								9.14.95	1050													
17197VM								9.14.95	1215													
17200VM								9.14.95	1605													
17203VM								9.14.95	1240													
17302VM								9.14.95	1255													
17349VM								9.15.95	1315													
17372VM								9.14.95	1335													
17393VM								9.15.95	1255													

Method of shipment: COURIER

Special detection Limit/reporting:

Special QA/QC:

Remarks: 2 of 3 pages

Lab number:

Turnaround time:
- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Condition of sample:

Temperature received:

Relinquished by sampler: [signature]	Date 9-15-95	Time 1445	Received by: M Dodson	Date 9/15/95	Time 1445
Relinquished by: M Dodson	Date 9/18/95	Time 1050	Received by: [signature]		
Relinquished by:	Date	Time	Received by laboratory:	Date 9/19/95	Time 1050

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APC-3292 (2-91)

ARCO Products Company
Division of AtlanticRichfieldCompany

5302UX6.26 Task Order No. 110600

Chain of Custody

ARCO Facility no. 0608	City (Facility) SAN LORENZO	Project manager (Consultant) KELLY BROWN	Laboratory name SEQUOIA
ARCO engineer MIKE WHELAN	Telephone no. (ARCO)	Telephone no. (Consultant) (408) 441-7500	Fax no. (Consultant) (408) 441-7539
Consultant name PACIFIC ENVIRONMENTAL GROUP	Address (Consultant) 2025 GATEWAY PLACE #440, SAN JOSE, CA 95110		Contract number

Method of shipment: COURIER

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH(gas) EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
TB-1		2		X		X	HCl	9/11/95	NA		X											

Special detection Limit/reporting

Special QA/QC

Remarks: 3 of 3 pgs

Lab number

Turnaround time

Priority Rush 1 Business Day	☐
Rush 2 Business Days	☐
Expedited 5 Business Days	☐
Standard 10 Business Days	☒

Condition of sample:

Temperature received:

	Date	Time		Date	Time
Relinquished by Sampler	9/15/95	1145	Received by	9/15/95	1145
Relinquished by	9/18/95	1050	Received by	9/18/95	1050
Relinquished by	Date	Time	Received by laboratory	Date	Time

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APC-3292 (2-91)

Wells # 453728

	Initials	Date
F/S	RH	9-19-95
Copy/Dist.	RH	10-3-95

FIELD SERVICES / O & M REQUEST

SITE INFORMATION FORM

FILE COPY

Project #:330-006.2G

☐ 1st time visit

Station #:0608

☐ 1st ☐ 2nd ☒ 3rd ☐ 4th

Date of Request: 9/5/96

Site Address: 17601 Hesperian Bl
San Lorenzo, California

☐ Monthly

Ideal Field Date:

☐ Semi-Monthly

Purge water ~~~310~~ 277.5

County: Alameda

☐ Weekly

Budget Hrs. ~~15~~

Project Manager: Kelly Brown

☐ One time Event

Actual Hrs. 15.5

Requestor: Chuck Graves

☐ Other. _____

Mob de Mob 6.0

Client: Arco

Client P.O.C.: Mike Whelan

Total Wells 32

Prefield contacts: All Homeowners are to be contacted 1-2 weeks in advance of arrival.

Field Tasks: For General Description

Third Quarter groundwater sampling event: DTW/DTL on all wells from TOB/TOC
Sample per attached protocol: Note that MTBE has been added to the analysis for all wells. MEASURE DO, PH, TEMP BEFORE AND AFTER ~~SAMPLING~~ PURGING

SAMPLE SP-1/V-4 AND SP-2/V-5

27 WELLS

Comments, remarks, from Field Staff (include problems encountered

DO1 : DISS O2 BEFORE PURGE

DO2 : DISS O2 AFTER PURGE

NUMBERS IN "FIELD MEASUREMENTS AT TIME OF SAMPLE" ARE ACTUALLY MEASUREMENTS BEFORE PURGE

Completed by: J. Monnier Date: 9-15-95

Checked by: C.D.

WELL SAMPLING REQUEST

SAMPLING PROTOCOL								
Project No.	Station #	Project Name	SEQUENCE	Project Manager	Approval	Date/s	Laboratory:	Client Engineer:
330-006.2G	608	17601 Hesperian San Lorenzo		Kelly Brown			Sequoia	Mike Whelan

Well Number	Ideal Sampling Order	Sample I.D.	Sampling Frequency	Analyses	TOB TOC	Well Depth	Casing Diameter	Well goe Dry?	Comments
MW-5			QLY	GAS/BTEX/MTBE	TOB/TOC	14	4"	YES	
MW-7			QLY	GAS/BTEX/MTBE	TOB/TOC	19	3"	NO	
MW-8			QLY	GAS/BTEX/MTBE	TOB/TOC	22	3"	NO	
MW-9			QLY	GAS/BTEX/MTBE	TOB/TOC	19	3"	YES	
MW-10			QLY	GAS/BTEX/MTBE	TOB/TOC	22	3"	YES	
MW-11			QLY	GAS/BTEX/MTBE	TOB/TOC	19	3"	YES	
MW-13			QLY	GAS/BTEX/MTBE	TOB/TOC	23.5	3"	YES	
MW-14			QLY	GAS/BTEX/MTBE	TOB/TOC	24	3"	YES	
MW-15			QLY	GAS/BTEX/MTBE	TOB/TOC	24	3"	YES	
MW-16			QLY	GAS/BTEX/MTBE	TOB/TOC	23	3"	YES	
MW-17			QLY	GAS/BTEX/MTBE	TOB/TOC	24	3"	YES	
MW-18			QLY	GAS/BTEX/MTBE	TOB/TOC	22	3"	YES	
MW-19			QLY	GAS/BTEX/MTBE	TOB/TOC	22	3"	YES	
MW-20				DESTROYED		0	3"	YES	
MW-21			QLY	GAS/BTEX/MTBE	TOB/TOC	22	3"	YES	
MW-22			QLY	GAS/BTEX/MTBE	TOB/TOC	22	3"	YES	
MW-23			QLY	GAS/BTEX/MTBE	TOB/TOC	22	3"	YES	
E-1A			QLY	GAS/BTEX/MTBE	TOB/TOC	?	?	YES	
MW-24			QLY	GAS/BTEX/MTBE	TOB/TOC	20	2"	YES	
MW-25			QLY	GAS/BTEX/MTBE	TOB/TOC	21	2"	YES	
MW-26			QLY	GAS/BTEX/MTBE	TOB/TOC	20	2"	YES	
TB-1			QLY	GAS/BTEX/MTBE					

WELL SAMPLING REQUEST

SAMPLING PROTOCOL								
Project No.	**Station #**	**Project Name**	**SEQUENCE**	**Project Manager**	**Approval**	**Date/s**	**Laboratory:**	**Client Engineer:**
330-006.2G	608	17601 Hesperian San Lorenzo		Kelly Brown			Sequoia	Mike Whelan

Well Number	Ideal Sampling Order	Sample I.D.	Sampling Frequency	Analyses	TOB TOC	Well Depth	Casing Diameter	Well goe Dry?	Comments
Mr/Mrs Silva		590 Hacienda	QLY	GAS/BTEX/MTBE	TOB/TOC				
Mr. Dahmann		633 Hacienda	QLY	GAS/BTEX/MTBE	TOB/TOC				
Mrs Albright		634 Hacienda	QLY	GAS/BTEX/MTBE	TOB/TOC				Not authorized to enter backyard
Ms. Corregedor		642 Hacienda	QLY	GAS/BTEX/MTBE	TOB/TOC				Not authorized to enter backyard
Mr/Mrs Roberts		675 Hacienda	QLY	GAS/BTEX/MTBE	TOB/TOC				Dedicated pump inoperable
Mr Luehrs		17348 Via Encinas	QLY	GAS/BTEX/MTBE	TOB/TOC				
Mr Scrag		17197 Via Magdalena	QLY	GAS/BTEX/MTBE	TOB/TOC				
Cavalry Church		17200 Via Magdalena	QLY	GAS/BTEX/MTBE	TOB/TOC				
Mrs Toles		17203 Via Magdalena	QLY	GAS/BTEX/MTBE	TOB/TOC				
Mr/Mrs Johanson		172302 Via Magdalena	QLY	GAS/BTEX/MTBE	TOB/TOC				
Mr. Kast		17349 Via Magdalena	QLY	GAS/BTEX/MTBE	TOB/TOC				
Mr. Manry		17371 Via Magdalena	QLY	GAS/BTEX/MTBE	TOB/TOC				Not authorized to enter backyard
Mr. Pimental		17372 Via Magdalena	QLY	GAS/BTEX/MTBE	TOB/TOC				
Mr. Hull		17393 Via Magdalena	QLY	GAS/BTEX/MTBE	TOB/TOC				

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 330-006.2G LOCATION: 17601 HESPERIAN DATE: THURS SUNNY

CLIENT/STATION NO.: ARCO/0608 FIELD TECHNICIAN: J. Marwin DAY OF WEEK: 9/5-95

PROBE TYPE/ID No.
- ☐ Oil/Water IF/
- ☒ H_2O level indicator #3
- ☐ Other:

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	(TOC) Total Depth (feet)	First Depth to Water (feet) TOB/TOC (TOC circled)	Second Depth to Water (feet) TOB/TOC (TOB circled)	SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	Color: Fresh	Color: Weathered	Color: Gas	Color: Oil	Viscosity: Lite	Viscosity: Medium	Viscosity: Heavy	Liquid Removed (gallons) SPH / H_2O
	MW-5	1007	✓	✓	–			13.60	12.29 / 12.29	12.68 / 12.68	–	–								– / –
	MW-7	959	✓	✓	✓	✓	✓	18.46	12.28 / 12.28	12.77 / 12.77	–	–								– / –
	MW-8	1021	✓	✓	✓	✓	✓	21.05	10.86 / 10.86	11.67 / 11.67	–	–								– / –
	MW-9	951	✓	✓	✓	✓	✓	18.28	10.35 / 10.35	10.88	–	–								– / –
	MW-10	927	✓	✓	✓	✓	✓	22.47	10.41 / 10.41	11.05 / 11.05	–	–								– / –
	MW-11	939	✓	✓	✓	✓	✓	18.93	11.29 / 11.29	11.71 / 11.71	–	–								– / –
	MW-13	1004	✓	✓	✓	✓	✓	23.21	13.74 / 13.74	14.04 / 14.04	–	–								– / –
	MW-14	924	✓	✓	✓	✓	✓	23.00	9.73 / 9.73	10.00 / 10.00	–	–								– / –
	MW-15	920	✓	✓	✓	✓	✓	23.15	11.00 / 11.00	11.44 / 11.44	–	–								– / –

Comments:

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 330-006.26 LOCATION: 1760 HESPERIAN BLVD. DATE: 9-14-95

CLIENT/STATION NO.: ARCO/0608 FIELD TECHNICIAN: SAN LORENZO J. Madrid DAY OF WEEK: THURS. OVERCAST

PROBE TYPE/ID No.
- ☐ Oil/Water IF/ _____
- ☒ H_2O level indicator #3
- ☐ Other: _____

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	(TOC) Total Depth (feet)	First Depth to Water (feet) TOB/TOC	Second Depth to Water (feet) TOB/TOC	SEPARATE-PHASE HYDROCARBONS (SPH): SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	COLOR: Fresh	Weathered	Gas	Oil	VISCOSITY: Lite	Medium	Heavy	LIQUID REMOVED (gallons): SPH / H_2O
	MW-16	916	✓	✓	✓	✓	✓	22.30	11.55 / 11.55	11.97 / 11.97	—	—								
	MW-17	904	✓	✓	✓	✓	✓	23.13	12.31 / 12.31	12.83 / 12.83	—	—								
	MW-18	913	✓	✓	✓	✓	✓	21.49	10.67 / 10.67	10.96 / 10.96	—	—								
	MW-19	906	✓	✓	✓	✓	✓	21.50	10.27 / 10.27	10.40 / 10.40	—	—								
	MW-20							DESTROYED												
	MW-21	902	✓	✓	✓	✓		✓	21.54	10.35 / 10.35	10.88 / 10.88	—	—								
	MW-22	859	✓	✓	✓	✓	✓	21.46	11.10 / 11.10	11.40 / 11.40	—	—								
	MW-23	853	✓	✓	✓	✓	✓	21.68	12.14 / 12.14	12.40 / 12.40	—	—								
	EI-A	1029	✓	✓	✓	✓	✓	24.85	10.65 / 10.65	11.83 / 11.83	—	—								

Comments: _____

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 330-006.2G LOCATION: 17601 HESPERIAN BLVD SAN LORENZO DATE: 9-14-95

CLIENT/STATION NO.: ARCO/0608 FIELD TECHNICIAN: [illegible] DAY OF WEEK: THURS SUNNY

PROBE TYPE/ID No.
- ☐ Oil/Water IF/
- ☑ H_2O level indicator #3
- ☐ Other:

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	(TOC) Total Depth (feet)	First Depth to Water (feet) TOB/TOC	Second Depth to Water (feet) TOB/TOC	SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	Color: Fresh	Weathered	Gas	Oil	Viscosity: Lite	Medium	Heavy	Liquid Removed (gallons) SPH/H_2O
	MW-24	946	✓	✓	✓	✓	✓	20.77	13.15 / 13.15	13.47 / 13.47	—	—								— / —
	MW-25	954	✓	—	—	—	—	20.91	11.94 / 11.94	12.42 / 12.42	—	—								— / —
	MW-26	943	✓	✓	✓	✓	✓	19.65	12.30 / 12.30	12.75 / 12.75	—	—								— / —
V-4	[illegible]	1019	✓	—	—	—	—	12.50 / 12.50	11.71 / 11.71	12.22 / 12.22	—	—								— / —
P-1	[illegible]	1017	✓	✓	✓	—	—	20.30	11.80 / 11.80	12.43 / 12.43	—	—								— / —
SP-2	[illegible]	932	✓	—	✓	✓	—	18.94	10.76 / 10.76	10.91 / 10.91	—	—								— / —
V-5	[illegible]	932	✓	✓	✓			10.12	9.80 / 9.80	9.98 / 9.98	—	—								— / —

Comments:

SP-2 [illegible] 0 [illegible] 0 [illegible] V-5

V-4 [illegible] 11.71/12.22 12.50 (60) ← 11.80/12.43 [illegible] O MW-5

EIH Company SP-1 20.30

CURB

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2G LOCATION: 17601 HESPERIAN BLVD WELL ID #: MW-5

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. Monnier

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☐	3	0.38
☑	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 13.60 - DTW 12.29 = 1.31 x Gal/Linear Foot 0.66 = 0.86 x Number of Casings 3 = Calculated Purge 2.60

DATE PURGED: 9-15-95 START: 1032 END (2400 hr): 1042 PURGED BY: MM

DATE SAMPLED: 9/15/95 START: 1043 END (2400 hr): 1047 SAMPLED BY: MM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
1035	1.0	7.18	1035	64.0	CLR	LT	HY
1038	2.0	7.21	1030	65.1	CLR	LT	HY
1041	3.0	7.24	1030	65.6	CLR	LT	HY

Pumped dry Yes / (No)

Cobalt 0-100 Clear Cloudy Yellow Brown | NTU 0-200 Heavy Moderate Light Trace | Strong Moderate Faint None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 12.29 TOB/(TOC) 720 1068 63.8 CLR LT HY

PURGING EQUIPMENT/I.D. #
- ☒ Bailer: 13-12
- ☐ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 16-12
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-5	9-15-95	1045	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO1 : 1

DO2 : 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-7

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: J. Manning

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐ 2		0.17
☑ 3		0.38
☐ 4		0.66
☐ 4.5		0.83
☐ 5		1.02
☐ 6		1.5
☐ 8		2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 18.46 - DTW 12.28 = 6.18 x Gal/Linear Foot 0.38 = 2.35 x Number of Casings 3 = Calculated Purge 7.05

DATE PURGED: 9-15-95 START: 956 END (2400 hr): 1003 PURGED BY: DM

DATE SAMPLED: 9-15-95 START: 1003 END (2400 hr): 1006 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
958	2.5	7.17	1333	65.6	BRN	LT	None
1001	5.0	7.30	1198	67.4	BRN	TOR	None
1003	7.5	7.28	1190	67.6	BRN	TRC	None

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

Pumped dry Yes (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 12.28 TOB (TOC) 7.20 1406 65.0 BRN LT None

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 13-7
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-7	9-15-95	1005	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-8

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: [signature]

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 21.05 - DTW 10.86 = 10.19 x Gal/Linear Foot 0.38 = 3.87 x Number of Casings 3 = Calculated Purge 11.62

DATE PURGED: 9-15-95 START: 1157 END (2400 hr): 1204 PURGED BY: [initials]

DATE SAMPLED: 9-15-95 START: 1204 END (2400 hr): 1206 SAMPLED BY: [initials]

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
1159	4.0	6.99	1021	63.7	CLR	LT	MOD
1201	8.0	6.77	1014	65.2	CLR	LT	MOD
1204	12.0	6.75	1018	65.8	CLR	LT	MOD

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong: Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW	TOB/(TOC)				COLOR	TURBIDITY	ODOR
10.86	(TOC)	7.01	1000	63.1	CLR	LT	MOD

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: B-15
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-8	9-15-95	1205	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO_1 : 1

DO_2 : 1

SIGNATURE: [signature]

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD. SAN LORENZO CA WELL ID #: MW-9

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MINNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other; _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☑ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 18.28 - DTW 10.35 = 7.93 x Gal/Linear Foot 0.38 = 3.01 x Number of Casings 3 = Calculated Purge 9.04

DATE PURGED: 9-15-95 START: 926 END (2400 hr): 937 PURGED BY: MM

DATE SAMPLED: 9/15/95 START: 938 END (2400 hr): 942 SAMPLED BY: MM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
929	3.0	7.08	907	67.2	BRN	MOD	NONE
932	6.0	7.08	890	67.4	BRN	MOD	None
935	9.0	7.06	901	67.4	BRN	LT	NONE

Pumped dry Yes / (No)

Cobalt 0-100 Clear Cloudy Yellow Brown | NTU 0-200 Heavy Moderate Light Trace | Strong Moderate Faint None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 10.35 TOB (TOC) 710 926 67.0 BRN LT None

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: B-2
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-9	9-15-95	940	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: D.O. - 1

DO₂ = 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 1760 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-10

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER	GAL/LINEAR FT.
☐ 2	0.17
☑ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 22.47 - DTW 10.41 = 1206 x Gal/Linear Foot 0.38 = 4.58 x Number of Casings 3 = Calculated Purge 13.75

DATE PURGED: 9/14/95 START: 1452 END (2400 hr): 1455 1503 PURGED BY: JM

DATE SAMPLED: 9/14/95 START: 1503 END (2400 hr): 1507 SAMPLED BY: JM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1455	5.0	7.06	922	68.2	CLR	LT	MOD
1458	10.0	6.86	954	69.1	CLR	LT	MOD
1500	15.0	6.80	950	69.8	CLR	LT	MOD

Pumped dry Yes (No)

Cobalt 0-100 Clear Cloudy Yellow Brown | NTU 0-200 Heavy Moderate Light Trace | Strong Moderate Faint None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 10.41 TOB (TOC) 7.10 968 68.0 CLR LT MOD

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: B-11
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-10	9/14/95	1505	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO1 : 1

DO2 : 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2G LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-11

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 18.93 - DTW 11.29 = 7.64 x Gal/Linear Foot 0.38 = 2.90 x Number of Casings 3 = Calculated Purge 8.71

DATE PURGED: 9-14-95 START: 1510 END (2400 hr): 1518 PURGED BY: DM

DATE SAMPLED: 9-14-95 START: 1518 END (2400 hr): 1522 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1513	3.0	6.87	584	68.0	CLDY	MOD	NONE
1516	6.0	6.84	564	69.1	CLDY	MOD	NONE
1518	9.0	6.84	526	69.4	CLR	MOD	NONE

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong: Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW	TOB/TOC				COLOR	TURBIDITY	ODOR
11.29	TOC	7.06	608	67.6	CLDY	LT	NONE

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 13-15
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-11	9-14-95	1320	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO1 : 1

DO2 : 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2G LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-13

CLIENT/STATION No.: ARCO/ 0608 FIELD TECHNICIAN: J. Mannion

WELL INFORMATION

Depth to Liquid: ______ TOB ______ TOC
Depth to water: ______ TOB ______ TOC
Total depth: ______ TOB ______ TOC
Date: ______ Time (2400): ______

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other:

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☑ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other:

TD 23.21 - DTW 13.74 = 9.47 x Gal/Linear Foot 0.38 = 3.60 x Number of Casings 3 = Calculated Purge 10.80

DATE PURGED: 9-15-95 START: 1017 END (2400 hr): 1024 PURGED BY: JM

DATE SAMPLED: 9-15-95 START: 1024 END (2400 hr): 1026 SAMPLED BY: JM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1019	4.0	7.08	1167	63.3	BRN	MOD	None
1022	8.0	7.15	1185	64.9	BRN	LT	None
1024	12.0	7.14	1211	65.4	BRN	TCE	None

Pumped dry Yes / (No)

COLOR: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
TURBIDITY: NTU 0-200, Heavy, Moderate, Light, Trace
ODOR: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 13.74 TOB/(TOC) 7.10 1190 63 CLR LT None

PURGING EQUIPMENT/I.D. #
- ☐ Bailer:
- ☒ Centrifugal Pump: #3
- ☐ Other:
- ☐ Airlift Pump:
- ☐ Dedicated:

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 130
- ☐ Dedicated:
- ☐ Other:

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-13	9-15-95	1025	3	40ml	VOA	HCL	GAS/BTEX/MTBE

REMARKS:

DO_1 : 1

DO_2 : 1

SIGNATURE: [signature]

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-14

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator #3
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 23.00 - DTW 9.73 = 13.27 x Gal/Linear Foot 0.38 = 5.04 x Number of Casings 3 = Calculated Purge 15.13

DATE PURGED: 9-14-95 START: 1434 END (2400 hr): 1443 PURGED BY: DM

DATE SAMPLED: 9-14-95 START: 1443 END (2400 hr): 1447 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1437	5.0	7.26	964	68.5	CLDY	MOD	NONE
1440	10.0	7.06	930	69.8	CLDY	MOD	NONE
1443	15.0	6.89	921	69.9	CLDY	MOD	NONE

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong: Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 9.73 TOB/(TOC) 6.99 960 68.0 CLDY MOD NONE

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-14	9-14-95	1445	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO1 : 2

DO2 : 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-15

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator #3
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 23.15 - DTW 11.00 = 12.15 x Gal/Linear Foot 0.38 = 4.62 x Number of Casings 3 = Calculated Purge 13.85

DATE PURGED: 9-14-95 START: 1406 END (2400 hr): 1408 PURGED BY: JM

DATE SAMPLED: 9-14-95 START: 1408 END (2400 hr): 1412 SAMPLED BY: JM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1404	5.0	7.26	891	69.9	BRN	MOD	NONE
1406	10.0	7.19	895	69.7	BRN	MOD	NONE
1408	15.0	7.11	894	69.6	CLR	LT	NONE

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW	TOB/(TOC)				COLOR	TURBIDITY	ODOR
11.00	(TOC)	7.30	901	68.6	BRN	LT	NONE

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: #13-4
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-15	9-14-95	1410	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO.1 : 1
DO.2 : 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-16

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 22.30 DTW 11.55 = 10.75 x Gal/Linear Foot 0.38 = 4.09 x Number of Casings 3 = Calculated Purge 12.26

DATE PURGED: 9-14-95 START: 1310 END (2400 hr): 1321 PURGED BY: DM

DATE SAMPLED: 9-14-95 START: 1322 END (2400 hr): 1327 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
1314	4.5	7.29	913	70.7	BRN	MOD	MOD
1317	9.0	7.23	920	70.0	BRN	HVY	MOD
1319	13.5	7.20	886	69.3	BRN	HVY	MOD

Pumped dry Yes / (No)

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW	TOB/TOC				COLOR	TURBIDITY	ODOR
11.55	TOB/(TOC)	7.36	906	70.1	BRN	LT	None

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 13-11
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-16	9-14-95	1325	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO = 2

DO = 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2G LOCATION: 1760 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-17

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONNER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator #3
- ☐ Other; _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☑ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 23.13 - DTW 12.31 = 10.82 x Gal/Linear Foot 0.38 = 4.11 x Number of Casings 3 = Calculated Purge 12.33

DATE PURGED: 9-14-95 START: 1532 END (2400 hr): 1541 PURGED BY: DM

DATE SAMPLED: 9-14-95 START: 1542 END (2400 hr): 1547 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
1534	4.5	7.09	816	60.9	CLR	LT	None
1537	9.0	6.97	790	60.2	CLR	LT	None
1539	13.5	6.92	761	60.7	CLR	LT	None

Pumped dry Yes / ☒ No

Cobalt 0-100 Clear Cloudy Yellow Brown | NTU 0-200 Heavy Moderate Light Trace | Strong Moderate Faint None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW	TOB/TOC						
12.31	TOB/TOC	7.11	827	60.0	CLR	LT	None

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: B-14
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-17	9-14-95	1545	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO1 : 1

DO2 : 1

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-1B

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. Mowry

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☑ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 21.49 - DTW 10.67 = 10.82 x Gal/Linear Foot 0.38 = 4.11 x Number of Casings 3 = Calculated Purge 12.33

DATE PURGED: 9-14-95 START: 1215 END (2400 hr): 1226 PURGED BY: JM

DATE SAMPLED: 9-14-95 START: 1227 END (2400 hr): 1231 SAMPLED BY: JM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2.5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
1220	4.5	7.38	1007	69.7	CLDY	MOD	NONE
1223	9.0	7.24	1010	70.5	CLDY	MOD	NONE
1225	13.5	7.17	997	70.1	CLDY	LT	NONE

Pumped dry Yes (No)

Cobalt 0-100 Clear Cloudy Yellow Brown | NTU 0-200 Heavy Moderate Light Trace | Strong Moderate Faint None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW:	TOB/TOC						
10.67	(TOC)	7.41	1018	69.0	CLDY	MOD	NONE

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Centrifugal Pump: #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 13-7
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-1B	9-14-95	1230	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO. = 1

DO₂ > 1

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-19

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONNAZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☑ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 21.50 - DTW 10.27 = 11.23 x Gal/Linear Foot 0.38 = 4.27 x Number of Casings 3 = Calculated Purge 12.80

DATE PURGED: 9-14-95 START: 16:07 END (2400 hr): 1618 PURGED BY: DM

DATE SAMPLED: 9-14-95 START: 1618 END (2400 hr): 1621 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1610	4.5	6.94	943	71.7	CLDY	LT	NONE
1614	9.0	7.01	952	70.3	CLDY	LT	NONE
1618	13.5	6.92	936	68.7	CLDY	LT	NONE

Pumped dry Yes / (No)

Cobalt 0-100 Clear Cloudy Yellow Brown | NTU 0-200 Heavy Moderate Light Trace | Strong Moderate Faint None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW	TOB/TOC				COLOR	TURBIDITY	ODOR
11.23	TOB/(TOC)	7.06	937	71.0	CLR	LT	NONE

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Centrifugal Pump: #3
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: DISP
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-19	9-14-95	1620	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO 1 - 1

DO 2 : 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-20

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. Morrow

WELL INFORMATION

Depth to Liquid:_____ TOB_____ TOC
Depth to water:_____ TOB_____ TOC
Total depth:_____ TOB_____ TOC
Date:_____ Time (2400):_____

Probe Type and I.D. #
- ☐ Oil/Water interface_____
- ☐ Electronic indicator_____
- ☐ Other;_____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other;_____

TD_____ - DTW _____ = _____ x Gal/Linear Foot 0.38 = _____ x Number of Casings 3 = Calculated Purge_____

DATE PURGED:_____ START:_____ END (2400 hr):_____ PURGED BY:_____

DATE SAMPLED:_____ START:_____ END (2400 hr):_____ SAMPLED BY:_____

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR

DESTROYED

Pumped dry Yes / No

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW:_____ TOB/TOC

PURGING EQUIPMENT/I.D. #
- ☐ Bailer:_____
- ☐ Airlift Pump:_____
- ☐ Centrifugal Pump:_____
- ☐ Dedicated;_____
- ☐ Other:_____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer:_____
- ☐ Dedicated:_____
- ☐ Other:_____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-20			3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS:_____

SIGNATURE: J. Morrow

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-21

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONROE

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐ 2	———	0.17
☑ 3	———	0.38
☐ 4	———	0.66
☐ 4.5	———	0.83
☐ 5	———	1.02
☐ 6	———	1.5
☐ 8	———	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 21.54 - DTW 10.35 = 11.19 x Gal/Linear Foot 0.38 = 4.25 x Number of Casings 3 = Calculated Purge 12.76

DATE PURGED: 9-14-95 START: 1146 END (2400 hr): 1156 PURGED BY: MM

DATE SAMPLED: 9-14-95 START: 1157 END (2400 hr): 1202 SAMPLED BY: MM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1149	4.5	7.34	945	65.7	CLR	LT	None
1157	9.0	7.24	964	67.0	CLR	LT	None
1154	13.5	7.32	955	66.9	CLR	LT	None

Pumped dry Yes (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW	TOB/TOC			COLOR	TURBIDITY	ODOR
10.35	7.30	940	64.7	CLR	LT	none

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: B-4
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-21	9-14-95	1200	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO, > 1
DO, > 1

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 1760 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-22

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER	GAL/LINEAR FT.
☐ 2	0.17
☑ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 21.46 - DTW 11.10 = 10.36 x Gal/Linear Foot 0.38 = 3.94 x Number of Casings 3 = Calculated Purge 11.81

DATE PURGED: 9-14-95 START: 1130 END (2400 hr): 1137 PURGED BY: DM

DATE SAMPLED: 9-14-95 START: 1138 END (2400 hr): 1141 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1132	4.0	7.28	962	64.9	CLDY	MOD	None
1134	8.0	7.34	963	64.8	CLDY	MOD	NONE
1136	12.0	7.40	960	65.0	CLDY	MOD	NONE

Pumped dry Yes / (No)

Cobalt 0-100 Clear Cloudy Yellow Brown | NTU 0-200 Heavy Moderate Light Trace | Strong Moderate Faint None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 11.10 TOB/(TOC) 7.31 960 64.2 CLDY MOD NONE

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 13-6
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-22	9-14-95	1140	3	40ml	VOA	HCL	GAS/BTEX/MTBE

REMARKS: D.O.1 = 2

D.O.2 = 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-23

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. McNiven

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 21.68 - DTW 12.14 = 9.54 x Gal/Linear Foot 0.38 = 3.63 x Number of Casings 3 = Calculated Purge 10.88

DATE PURGED: 9-14-95 START: 1111 END (2400 hr): 1123 PURGED BY: JM

DATE SAMPLED: 9-14-95 START: 1123 END (2400 hr): 1126 SAMPLED BY: JM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
1116	4.0	6.84	976	65.5	CLR	LT	None
1119	8.0	6.82	982	66.2	CLR	LT	None
1122	12.0	6.88	980	66.2	CLR	LT	None

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 12.14 TOB (TOC) 6.93 954 64.8 CLR LT None

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: B-1
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-23	9-14-95	1125	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: D.O.1 : 1
D.O.2 : 2

SIGNATURE: J. McNiven

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-24

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator #3
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☒	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 20.77 - DTW 13.15 = 7.62 x Gal/Linear Foot 0.17 = 1.30 x Number of Casings 3 = Calculated Purge 3.89

DATE PURGED: 9/5-95 START: 901 END (2400 hr): 909 PURGED BY: DM

DATE SAMPLED: 9/5-95 START: 909 END (2400 hr): 911 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
903	1.5	7.15	988	67.8	BRN	MOD	NONE
905	3.0	7.08	942	68.4	BRN	MOD	NONE
908	4.5	6.98	926	68.0	BRN	MOD	NONE

Pumped dry Yes (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW	TOB/TOC				COLOR	TURBIDITY	ODOR
13.15	TOC	7.18	996	67.0	BRN	LT	NONE

PURGING EQUIPMENT/I.D. #
- ☒ Bailer: B-3
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: B-3
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-24	9/5-95	910	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO 1 = 2
DO 2 = 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-25

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. MONNES

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☒	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 20.91 - DTW 11.94 = 8.97 x Gal/Linear Foot 0.17 = 1.52 x Number of Casings 3 = Calculated Purge 4.58

DATE PURGED: 9-5-95 START: 941 END (2400 hr): 948 PURGED BY: DM

DATE SAMPLED: 9-5-95 START: 948 END (2400 hr): 952 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
943	1.5	7.18	604	64.5	BRN	MOD	none
946	3.0	7.16	600	64.9	BRN	MOD	none
948	4.5	7.11	600	64.9	BRN	MOD	none

Pumped dry Yes / (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 11.94 TOB/(TOC) 9.20 609 64.0 BRN LT none

PURGING EQUIPMENT/I.D. #
- ☒ Bailer: 13-4
- ☐ Centrifugal Pump: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 13-4
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-25	9-5-95	950	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: D.O.: 1

D.O.: 1

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.26 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-26

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: J. Mowhan

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER / **GAL/LINEAR FT.**

☒	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 19.65 - DTW 12.30 = 7.35 x Gal/Linear Foot 0.38 = 1.25 x Number of Casings 3 = Calculated Purge 3.75

DATE PURGED: 9-15-95 START: 842 END (2400 hr): 851 PURGED BY: DH

DATE SAMPLED: 9-15-95 START: 852 END (2400 hr): 856 SAMPLED BY: DH

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2.5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
844	1.5	7.16	681	64.7	BRN	MOD	NONE
847	3.0	7.16	670	65.4	BRN	HVY	NONE
850	4.5	7.14	661	64.9	BRN	HVY	NONE

Pumped dry Yes / (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 12.30 TOB (TOC) 7.21 680 64.0 BRN LT NONE

PURGING EQUIPMENT/I.D. #
- ☒ Bailer: 13-1
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 13-1
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-26	9-15-95	855	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: DO. 1

DO. 1

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330 006.26 LOCATION: 17601 HESPERIAN BLVD WELL ID #: EI-A

CLIENT/STATION No.: ARCO/ 0608 FIELD TECHNICIAN: J. Montano

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☑	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☐ Groundwater
- ☐ Duplicate
- ☑ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 24.85 - DTW 11.65 = 14.20 x Gal/Linear Foot 1.5 = 21.30 x Number of Casings 3 = Calculated Purge 63.9

DATE PURGED: 9-15-95 START: 1106 END (2400 hr): 1127 PURGED BY: DM

DATE SAMPLED: 9-15-95 START: 1128 END (2400 hr): 1132 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1114	22	7.24	1174	61.8	GRAY	MOD	HC
1119	44	6.95	1179	65.0	CLR	LT	MOD
1125	66	6.91	1174	66.4	CLDY	LT	MOD

Pumped dry Yes / (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW	TOB/TOC				COLOR	TURBIDITY	ODOR
11.65	(TOC)	7.36	1208	60.7	CLR	LT	MOD

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☑ Dedicated: PUMP

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 13-13
- ☑ Dedicated: ~~SAMPLE PORT~~
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
EI-A	9-15-95	1130	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS:

DO, 1.0

O_2 1.5

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: SP-1/V-4

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. Mannion

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☒ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 20.30 - DTW 11.80 = 8.50 x Gal/Linear Foot .17 = 1.45 x Number of Casings 3 = Calculated Purge 4.34

DATE PURGED: 9-15-95 START: 1045 END (2400 hr): 1053 PURGED BY: JM
DATE SAMPLED: 9-15-95 START: 1053 END (2400 hr): 1057 SAMPLED BY: JM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
1047	1.5	6.98	1013	65.8	CLR	LT	Faint
1050	3.0	6.95	1026	65.9	CLR	LT	Faint
1053	4.5	6.97	1020	65.8	CLR	LT	Faint

Pumped dry Yes / No

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW:	TOB/TOC						
11.80	TOB/TOC	6.94	1040	65.0	CLR	LT	None

PURGING EQUIPMENT/I.D. #
- ☒ Bailer: 13-6
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 13-6
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
SP-1/V-4	9-15-95	1057	3	40ml	VOA	HCl	TPH-g/BTEX/MTBE

REMARKS: DO1 - 1
DO2 - 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: SP-2/VES-5

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. Manning

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 18.94 - DTW 10.76 = 8.18 x Foot Gal/Linear 0.17 = 1.39 x Number of Casings 3 = Calculated Purge 4.17

DATE PURGED: 9-15-95 START: 1213 END (2400 hr): 1221 PURGED BY: DM

DATE SAMPLED: 9-15-95 START: 1222 END (2400 hr): 1227 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
1215	1.5	7.16	1096	68.6	CLR	LT	NONE
1217	3.0	6.91	1117	69.8	CLR	LT	NONE
1220	4.5	6.90	1130	69.1	CLR	LT	NONE

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW:	TOB/TOC						
10.76	TOB/(TOC)	7.18	1110	68.2	CLR	LT	NONE

PURGING EQUIPMENT/I.D. #
- ☒ Bailer: 13-14
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 13-14
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
SP-2/VES-5	9-15-95	1225	3	40ml	VOA	HCL	TPH-g / BTEX

REMARKS: DO.1 = 2
DO.2 = 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: S90H

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. Morris

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 9.15.95 START: 1134 END (2400 hr): 1139 PURGED BY: DM

DATE SAMPLED: 9.15.95 START: 1139 END (2400 hr): 1141 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
	≈ 15 GALLONS PURGED						
			BEFORE	SAMPLE			

Pumped dry Yes / No

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

	DTW:	TOB/TOC				COLOR	TURBIDITY	ODOR
	NA	TOB/TOC	7.10 / 7.19	1060 / 1069	68 / 67.9	CLR	LT	HUY

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☒ Dedicated: Pump

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Dedicated: Pump
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
S90H	9.15.95	1140	3	40mL	VOA	HCL	TPH-g / BTEX / MTBE

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO, CA WELL ID #: 633H

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 9-14-95 START: 1420 END (2400 hr): 1426 PURGED BY: DM

DATE SAMPLED: 9-14-95 START: 1426 END (2400 hr): 1432 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
		PURGED OF ≈ 15 GALLONS BEFORE SAMPLE					

Pumped dry Yes / (No)

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW:	TOB/TOC					COLOR	TURBIDITY	ODOR
NA	7.41/7.31	8.61 /	8.90	68.0/	68.3	CLR	LT	NONE

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☑ Dedicated: pump

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Dedicated: pump
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
633H	9/14/95	1430	3	40ml	VOA	HCL	TPH-g/BTEX/MTBE

REMARKS: DO1 : 1
DO2 : 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: 634H

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. Moran

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: _____ START: _____ END (2400 hr): _____ PURGED BY: _____

DATE SAMPLED: _____ START: _____ END (2400 hr): _____ SAMPLED BY: _____

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
			NOT ALLOWED TO SAMPLE				

COLOR: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
TURBIDITY: NTU 0-200, Heavy, Moderate, Light, Trace
ODOR: Strong, Moderate, Faint, None

Pumped dry Yes / No

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
634H			3	40ml	VOA	HCL	TPHg/BTEX/MTBE

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO, CA WELL ID #: 642H

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. Mowrer

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: _____ START: _____ END (2400 hr): _____ PURGED BY: _____

DATE SAMPLED: _____ START: _____ END (2400 hr): _____ SAMPLED BY: _____

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR

NOT ALLOWED TO SAMPLE

Pumped dry Yes / No

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
642H							TPHg/BTEX/MTBE

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO, CA WELL ID #: 675H

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. Marinas

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: _____ START: _____ END (2400 hr): _____ PURGED BY: _____

DATE SAMPLED: _____ START: _____ END (2400 hr): _____ SAMPLED BY: _____

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
			PUMP INOPERABLE				
			CANNOT SAMPLE				

Pumped dry Yes / No

COLOR: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
TURBIDITY: NTU 0-200, Heavy, Moderate, Light, Trace
ODOR: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
675H			3	40ml	VOA	HCL	TPHg/BTEX/MTBE

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO, CA WELL ID #: 17348VE

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator #3
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 16.25 - DTW 14.80 = _____ x Foot _____ = _____ x Casings _____ = Purge _____ (Gal/Linear; Number of; Calculated)

DATE PURGED: — START: — END (2400 hr): — PURGED BY: —

DATE SAMPLED: 9-14-95 START: 1047 END (2400 hr): 1052 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
	GRAB SAMPLE						
	NO PURGE						

Pumped dry Yes / (No)

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE: 64.5

DTW: 14.80 ~~TOB/TOC~~ AT GRADE 16.25 DTB | 7.00 | 1001/908 | 65.5 | CLR | LT | FAINT

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: DISP. BAILER
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17348VE	9-14-95	1050	3	40ml	VOA	HCL	TPH-g/BTEX/MTBE

REMARKS: D.O.: 1 mg/L
DO_2: 1 mg/L

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO, CA WELL ID #: 17197VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 9-14-95 START: 1208 END (2400 hr): 1212 PURGED BY: DM

DATE SAMPLED: 9-14-95 START: 1212 END (2400 hr): 1217 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
			15 GALLONS				
	PURGED		BEFORE				
			SAMPLE				

Pumped dry Yes / No

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: NA TOB/TOC 7.48/7.60 850/858 64.7/65.0 CLR LT none

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☒ Dedicated: pump
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Dedicated: pump
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17197VM	9/14/95	1215	3	40ml	VOA	HCl	TPH/BTEX/MTBE

REMARKS: D.O.$_1$ = 8

D.O.$_2$ = 10

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: 17203VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. MONNIER

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 9-14-95 START: 1233 END (2400 hr): 1237 PURGED BY: DM

DATE SAMPLED: 9/14/95 START: 1237 END (2400 hr): 1242 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
		PURGED = 15 GALLONS					
		BEFORE SAMPLE					

Pumped dry Yes / No

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

	TOB/TOC					COLOR	TURBIDITY	ODOR
DTW: NA	7.36	7.37	920	929	680 / 685	CLR	LT	NONE

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☒ Dedicated: pump
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Dedicated: pump
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17203VM	9-14-95	1240	3	40ml	VOA	HCl	TPH/BTEX/MTBE

REMARKS: DO1 : 2
DO2 : 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: 17302VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. MANNIGA

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 9-14-95 START: 1246 END (2400 hr): 1253 PURGED BY: GM

DATE SAMPLED: 9-14-95 START: 1253 END (2400 hr): 1257 SAMPLED BY: GM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2.5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
			15 Gallons				
			PURGED				
			BEFORE SAMPLE				

Pumped dry Yes (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW:	TOB/TOC							
NA	756/749	920/935	690/692	CLR	LT	NONE		

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☑ Dedicated: Pump
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Dedicated: Pump
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17302VM	9-14-95	1255	3	40ml	VOA	HCL	TPH/BTEX/MTBE

REMARKS: DO₁ = 1

DO₂ = 1

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO, CA WELL ID #: 17349VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. Matthews

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 9-15-95 START: 1306 END (2400 hr): 1311 PURGED BY: DH

DATE SAMPLED: 9-15-95 START: 1312 END (2400 hr): 1317 SAMPLED BY: DH

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
	PURGED APPROX 15 GALLONS BEFORE SAMPLE						

Pumped dry Yes / (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: NA TOB/TOC 7.04/7.14 1106 1090 64.4/64.6 CLR/CLR LT/LT FAINT/FNT

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☒ Dedicated: pump

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Dedicated: pump
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17349VM	9-15-95	1315	3	40ml	VOA	HCL	TPH-g/BTEX/MTBE

REMARKS: DO. : 1
DO2 : 1

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: 17371VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. Manning

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: _____ START: _____ END (2400 hr): _____ PURGED BY: _____

DATE SAMPLED: _____ START: _____ END (2400 hr): _____ SAMPLED BY: _____

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR

NOT ABLE TO AUTHORIZED TO SAMPLE

Pumped dry Yes / No

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17371VM			3	40ml	VOA	HCL	TPH g/BEX/MTBE

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: 17372VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. Marini

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 9/14/95 START: 1330 END (2400 hr): 1333 PURGED BY: DM

DATE SAMPLED: 9/14/95 START: 1333 END (2400 hr): 1337 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 2.5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
	APPROX 15 GALLONS purged before sampl						

Pumped dry Yes / (No)

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: NA TOB/TOC 7.36/7.34 9.46/9.37 65.6/66.4 COLOR: CLR TURBIDITY: LT ODOR: NONE

PURGING EQUIPMENT/I.D.#
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: pump
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Dedicated: Pump
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17372VM	9/14/95	1335	3	40ml	VOA	HCL	TPH-g/BTEX/MTBE

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIA BLVD SAN LORENZO CA WELL ID #: 17393VM

CLIENT/STATION No.: BRCO1 0608 FIELD TECHNICIAN: J. Marrin

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 21.50 - DTW 17.50 = 4.00 x Gal/Linear Foot 0.66 = 2.64 x Number of Casings 3 = Calculated Purge 7.92

DATE PURGED: 9-15-95 START: 1241 END (2400 hr): 1252 PURGED BY: DM

DATE SAMPLED: 9-15-95 START: 1252 END (2400 hr): 1257 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2.5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
1246	3.0	6.98	968	67.4	CLR	LT	NONE
1249	6.0	6.90	960	67.6	CLR	CT	NONE
1257	9.0	6.91	960	67.6	CLR	CT	NONE

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 17.50 TOB/(TOC) 7.11 1020 67.0 CLR LT NONE

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Centrifugal Pump: #3
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 13-6
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17393VM	9-15-95	1255	3	40ml	VOA	HCL	TPH/BTEX/MTBE

REMARKS:

DO1 = 1

DO2 = 2

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.25 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO, CA WELL ID #: 17200VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: J. Thomas

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other: _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other: _____

TD 26.00 DTW 12.57 = 13.43 x Gal/Linear Foot 0.66 = 8.86 x Number of Casings 3 = Calculated Purge 26.59

DATE PURGED: 9-14-95 START: ~~1547~~ 1547 END (2400 hr): 1600 PURGED BY: DM

DATE SAMPLED: 9-14-95 START: 1602 END (2400 hr): 1607 SAMPLED BY: DM

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1551	9.0	7.20	932	70.3	BRN	MOD	FAINT
1555	18.0	7.00	930	71.0	CLR	LT	FAINT
1559	27.0	7.00	927	69.1	CLR	LT	FAINT

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW:	TOB/TOC						
12.57	(TOC)	7.21	951	70.0	CLR	LT	FAINT

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: #3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 13-6
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17200VM	9-14-95	1605	3	40ml	VOA	HCl	TPH/BTEX/MTBE

REMARKS: DO1 = 1

DO2 = 1

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-00626 LOCATION: 17601 HESPERIAN BLVD. WELL ID #: /

CLIENT/STATION No.: ARCO/ 0608 FIELD TECHNICIAN: J. Munroe

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☐ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☑ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: _____ START: _____ END (2400 hr): _____ PURGED BY: _____

DATE SAMPLED: _____ START: _____ END (2400 hr): _____ SAMPLED BY: _____

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR

COLOR: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
TURBIDITY: NTU 0-200, Heavy, Moderate, Light, Trace
ODOR: Strong, Moderate, Faint, None

Pumped dry Yes / No

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
TB-1	9-14-95	NA	2	40ml	VOA	HCl	GAS/BTEX

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

ARCO Products Company
Division of AtlanticRichfieldCompany

330006.26 Task Order No. 11016.00

Chain of Custody

ARCO Facility no. 0608	City (Facility) SAN LORENZO	Project manager (Consultant) KELLY BROWN	Laboratory name SEQUOIA
ARCO engineer MIKE WHELAN	Telephone no. (ARCO)	Telephone no. (Consultant) (408) 441-7500 / Fax no. (Consultant) (408) 441-7539	Contract number
Consultant name PACIFIC ENVIRONMENTAL GROUP		Address (Consultant) 2025 GATEWAY PLACE, #440 SAN JOSE CA 95110	Method of shipment COURIER

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH GAS MTBE EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ VOA ☐ Semi VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org/DHS ☐ Lead EPA 7420/7421 ☐		
MW-5		3		X		X	HCL	9-15-95	1045		X											
MW-7								9-15-95	1005													
MW-8								9-15-95	1205													
MW-9								9-15-95	940													
MW-10								9-14-95	1505													
MW-11								9-14-95	1510													
MW-13								9-15-95	1025													
MW-14								9-14-95	1445													
MW-15								9-14-95	1410													
MW-16								9-14-95	1325													
MW-17								9-14-95	1545													
MW-18								9-14-95	1230													
MW-19								9-14-95	1620													
MW-21								9-14-95	1200													
MW-22								9-14-95	1140													
MW-23		↓		↓		↓	↓	9-14-95	1125		↓											

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Condition of sample:

Temperature received:

Relinquished by sampler [signature]	Date 9-15-95	Time 1445	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory / Date / Time

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APC-3292 (2-91)

ARCO Products Company
Division of AtlanticRichfieldCompany

330-006.26 Task Order No. 1101600

Chain of Custody

ARCO Facility no. 0603	City (Facility) SAN LORENZO	Project manager (Consultant) KELLY BROWN	Laboratory name SEQUOIA
ARCO engineer MIKE WHELAN	Telephone no. (ARCO)	Telephone no. (Consultant) 4084417500	Fax no. (Consultant) 4084417539
Consultant name PACIFIC ENVIRONMENTAL GROUP	Address (Consultant) 2025 GATEWAY PLACE #440 SAN JOSE CA 95110		Contract number

Method of shipment: COURIER

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH Gas EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
MW-24		3		X		X	HCl	9-15-95	910		X											
MW-25								9-15-95	950													
MW-26								9-15-95	855													
E-1A								9-15-95	1130													
SP-1								9-15-95	1055													
SP-2								9-15-95	1225													
590H								9-15-95	1140													
633H								9-14-95	1430													
17198VE								9-14-95	1050													
17197VM								9-14-95	1215													
17200VM								9-14-95	1605													
17203VM								9-14-95	1240													
17202VM								9-14-95	1255													
17349VM								9-15-95	1315													
17372VM								9-14-95	1325													
17393VM		↓		↓		↓	↓	9-15-95	1255		↓											

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Condition of sample:		Temperature received:	
Relinquished by sampler: Jan Klein	Date 9-15-95 Time 1445	Received by	
Relinquished by	Date Time	Received by	
Relinquished by	Date Time	Received by laboratory	Date Time

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APC-3292 (2-91)

ARCO Products Company Division of AtlanticRichfieldCompany — **Chain of Custody**

Task Order No. 530006.26 / 101600

ARCO Facility no. 0608	City (Facility) SAN LORENZO	Project manager (Consultant) KELLY BROWN	Laboratory name SEQUOIA
ARCO engineer MIKE WHELAN	Telephone no. (ARCO)	Telephone no. (Consultant) (408) 441-7500	Fax no. (Consultant) (408) 441-7539
Consultant name PACIFIC ENVIRONMENTAL GROUP	Address (Consultant) 2025 GATEWAY PLACE #440, SAN JOSE CA 95110		Contract number

Method of shipment: COURIER

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
TB-1		2		X		X	HCL	9/1/95	NA		X											

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Condition of sample:

Temperature received:

	Date	Time	
Relinquished by Sampler	9-15-95	1445	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory / Date / Time

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant

APC-3292 (2-91)

ATTACHMENT C

TREATMENT SYSTEM
CERTIFIED ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY DOCUMENTATION

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

RECEIVED
JUN 29 1994
PACIFIC ENVIRONMENTAL GROUP, INC.

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Project: 330-006.26/608, San Lorenzo

Enclosed are the results from 2 water samples received at Sequoia Analytical on June 15,1994. The requested analyses are listed below:

4F89701	Water, INFL	6/14/94	EPA 5030/8015 Mod./8020
4F89702	Water, EFFL	6/14/94	Chemical Oxygen Demand pH Total Suspended Solids EPA 5030/8015 Mod./8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Eileen A. Manning
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Project ID:	330-006.26/608, San Lorenzo	Sampled: Jun 14, 1994
2025 Gateway Place, Suite 440	Sample Matrix:	Water	Received: Jun 15, 1994
San Jose, CA 95110	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jun 28, 1994
Attention: Maree Doden	First Sample #:	4F89701	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 4F89701 INFL	Sample I.D. 4F89702 EFFL
Purgeable Hydrocarbons	50	230	N.D.
Benzene	0.50	12	N.D.
Toluene	0.50	N.D.	N.D.
Ethyl Benzene	0.50	16	N.D.
Total Xylenes	0.50	1.5	N.D.
Chromatogram Pattern:		Gas	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	6/16/94	6/16/94
Instrument Identification:	GCHP-3	GCHP-3
Surrogate Recove (QC Limits = 70-130%)	107	92

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Eileen A. Manning
Project Manager

Sequoia Analytical

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Pacific Environmental Group	Client Project ID:	330-006.26/608, San Lorenzo	Sampled:	Jun 14, 1994
2025 Gateway Place, Suite 440	Sample Descript:	Water, EFFL	Received:	Jun 15, 1994
San Jose, CA 95110			Analyzed:	see below
Attention: Maree Doden	Lab Number:	4F89702	Reported:	Jun 28, 1994

LABORATORY ANALYSIS

Analyte	Date Analyzed	Detection Limit	Sample Result
Chemical Oxygen Demand, mg/L	6/17/94	20	N.D.
pH, pH units	6/15/94	N.A.	6.8
Total Suspended Solids, mg/L	6/16/94	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Eileen A. Manning
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-006.26/608, San Lorenzo
Matrix: Liquid
QC Sample Group: 4F89701-02

Reported: Jun 28, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD Batch#:	4F79202	4F79202	4F79202	4F79202
Date Prepared:	N.A.	N.A.	N.A.	N.A.
Date Analyzed:	6/15/94	6/15/94	6/15/94	6/15/94
Instrument I.D.#:	GCHP-3	GCHP-3	GCHP-3	GCHP-3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Matrix Spike % Recovery:	100	100	110	107
Matrix Spike Duplicate % Recovery:	110	110	110	113
Relative % Difference:	9.5	9.5	0.0	5.5

LCS Batch#:				
Date Prepared:				
Date Analyzed:				
Instrument I.D.#:				
LCS % Recovery:				
% Recovery Control Limits:	71-133	72-128	72-130	71-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Eileen A. Manning
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-006.26/608, San Lorenzo
Matrix: Liquid

QC Sample Group: 4F89702

Reported: Jun 28, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Chemical Oxygen Demand
Method:	EPA 410.4
Analyst:	C. Hirotsu

MS/MSD Batch#:	4F89702
Date Prepared:	6/17/94
Date Analyzed:	6/17/94
Instrument I.D.#:	N.A.
Conc. Spiked:	100 mg/L
Matrix Spike % Recovery:	101
Matrix Spike Duplicate % Recovery:	95
Relative % Difference:	6.1

LCS Batch#:	
Date Prepared:	
Date Analyzed:	
Instrument I.D.#:	
LCS % Recovery:	
% Recovery Control Limits:	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Eileen A. Manning
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-006.26/608, San Lorenzo
Matrix: Liquid
QC Sample Group: 4F89702

Reported: Jun 28, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	pH	Total Suspended Solids
Method:	EPA 9040	EPA 160.2
Analyst:	Y. Arteaga	Y. Arteaga
Date Analyzed:	6/15/94	6/16/94
Sample #:	4F83301	4F89401
Sample Concentration:	6.7	50
Sample Duplicate Concentration:	6.7	50
% RPD:	0.0	0.0
Control Limits:	0-30	0-30

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Eileen A. Manning
Project Manager

ARCO Products Company Division of AtlanticRichfieldCompany 330-00626 **Task Order No.** 608-94-5 **Chain of Custody**

ARCO Facility no. 608	City (Facility) San Lorenzo	Project manager (Consultant) Shaw Garakani		Laboratory name	Sequoia
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7500	Fax no. (Consultant) 408 441 7539	Contract number	
Consultant name PACIFIC ENV GROUP	Address (Consultant) 2025 Gateway Pl. Ste 440, SJ. CA 95110			Method of shipment	9406897

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	PH	TCLP Metals ☐ VOA ☐ Semi VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐	COD	TSS
INFL		3		X		X	HCL	6-14-94	1030		X											
EFFL		3		↓		↓	↓	↓	↓		X											
EFFL		3		↓		↓	H2SO4	↓	↓												X	
EFFL		1		↓		↓	NP	↓	↓													
EFFL		1		↓		↓	↓	↓	↓								X					X

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Condition of sample:

Temperature received:

	Date	Time		Date	Time
Relinquished by sampler Joe Van Vorde	6-14-94	1320	Received by N. Doden	6/14/94	
Relinquished by N. Doden	6/15/94		Received by [signature]	6-15-94	10:05
Relinquished by [signature]	6-15-94	11:05	Received by laboratory [signature]	6/15/94	1105

Turnaround time

Priority Rush 1 Business Day ☐

Rush 2 Business Days ☐

Expedited 5 Business Days ☐

Standard 10 Business Days ☒

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC.. BY (PRINT): DWL

MASTER LOG NO. / PAGE: 9406897
DATE OF LOG-IN: 6-15-94

CIRCLE THE APPROPRIATE RESPONSE	
1. Custody Seal(s):	Present / (Absent) Intact / Broken*
2. Custody Seal Nos.:	
3. Chain-of-Custody Records:	(Present) / Absent*
4. Traffic Reports or Packing List:	Present / (Absent)
5. Airbill:	Airbill / Sticker Present / (Absent)
6. Airbill No.:	
7. Sample Tags:	(Present) / Absent*
Sample Tag Nos.:	(Listed) / Not Listed on Chain-of-Custody
8. Sample Condition:	(Intact)/Broken*/Leaking*
9. Does information on custody reports, traffic reports and sample tags agree?	(Yes) / No*
10. Proper Preservatives Used:	(Yes) / No*
11. Date Rec. at Lab:	6/15/94
12. Time Rec. at Lab:	1105

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC)
1	A-C	INF1	3 VOA	W	6/14	
2	A-H	EFF1	3 VOA			
↓	↓	↓	3 VOA - COD			
			2-500ml P- Plain			

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

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

RECEIVED
JUL 21 1995
PACIFIC ENVIRONMENTAL GROUP, INC.

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Project: 330-006.5B/608, San Lorenzo

Enclosed are the results from samples received at Sequoia Analytical on July 7, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
950733501	LIQUID, Infl	7/6/95	TPHGB Purgeable TPH/BTEX
950733502	LIQUID, Effl	7/6/95	TPHGB Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Brucie Fletcher
Project Manager

Quality Assurance Department

Sequoia Analytical

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Pacific Environmental Group	Client Proj. ID: 330-006.5B/608,San Lorenzo	Sampled: 07/06/95
2025 Gateway Place, Suite 440	Sample Descript: Infl	Received: 07/07/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/10/95
Attention: Maree Doden	Lab Number: 9507335-01	Reported: 07/19/95

QC Batch Number: GC071095BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**270**
Benzene	**0.50**	**2.4**
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**7.6**
Xylenes (Total)	**0.50**	**1.0**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Brucie Fletcher

Brucie Fletcher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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acific Environmental Group
025 Gateway Place, Suite 440
an Jose, CA 95110

ttention: Maree Doden

Client Proj. ID: 330-006.5B/608,San Lorenzo
Sample Descript: Effl
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9507335-02

Sampled: 07/06/95
Received: 07/07/95

Analyzed: 07/10/95
Reported: 07/19/95

Batch Number: GC071095BTEX21A
trument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

nalyte	Detection Limit ug/L	Sample Results ug/L
PPH as Gas	50	N.D.
enzene	0.50	N.D.
oluene	0.50	N.D.
thyl Benzene	0.50	N.D.
ylenes (Total)	0.50	N.D.
hromatogram Pattern:		

urrogates	Control Limits %		% Recovery
rifluorotoluene	70	130	82

alytes reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210

Bruce Fletcher

ucie Fletcher
oject Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Pacific Environmental Group	Client Project ID:	330-006.5B/608, San Lorenzo	
2025 Gateway Place, Suite 440	Matrix:	LIQUID	
San Jose, CA 95110			
Attention: Maree Doden	Work Order #:	9507335 01, 02	Reported: Jul 20, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC071095BTEX21A	GC071095BTEX21A	GC071095BTEX21A	GC071095BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950713906	950713906	950713906	950713906
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/10/95	7/10/95	7/10/95	7/10/95
Analyzed Date:	7/10/95	7/10/95	7/10/95	7/10/95
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	11	11	32
MS % Recovery:	100	110	110	107
Dup. Result:	9.3	9.5	9.4	29
MSD % Recov.:	93	95	94	97
RPD:	7.3	15	16	9.8
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Brucie Fletcher
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

ARCO Products Company Division of AtlanticRichfieldCompany

330-006.5B **Task Order No.** 170210

Chain of Custody

ARCO Facility no. 108	City (Facility) San Lorenzo	Project manager (Consultant) Shaw Gaalaas	Laboratory name Sequoia
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7500	Fax no. (Consultant) 408 441 7539
Consultant name Pacific Env Group	Address (Consultant) 2025 Gateway Pl #440 San Jose		Contract number 07-073

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
INF	HC	3		X		X	HCl	7-6-95			X											
EFFL	21	3		X		X	HCl	X			X											

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number 9507335

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☑

Condition of sample:

Temperature received: 0730

	Date	Time		Date	Time
Relinquished by sampler	7-7-95	7:00	Received by M Doden	7/7/95	
Relinquished by	7/7/95	10:15	Received by		
Relinquished by	7-7	11:45	Received by laboratory	7/7/95	1145

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant

APC-3292 (2-91)

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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RECEIVED
AUG 2 1995
PACIFIC ENVIRONMENTAL GROUP, INC.

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Project: 330-006.5B/608, San Lorenzo

Enclosed are the results from samples received at Sequoia Analytical on July 19, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
9507A8101	LIQUID, EFFL	7/17/95	EPA 410.4 pH EPA 160.2

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Brucie Fletcher
Project Manager

Quality Assurance Department

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Client Proj. ID: 330-006.5B/608 San Lorenzo
Lab Proj. ID: 9507A81

Sampled: 07/17/95
Received: 07/19/95
Analyzed: see below

Attention: Maree Doden

Reported: 07/30/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9507A81-01				
Sample Desc : **LIQUID,EFFL**				
Chemical Oxygen Demand	mg/L	07/21/95	20	N.D.
pH	**pH Units**	**07/20/95**	**N/A**	**7.0**
Total Suspended Solids	**mg/L**	**07/21/95**	**1.0**	**2.5**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Brucie Fletcher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-006.5B/608, San Lorenzo
Matrix: LIQUID
Work Order #: 9507A81 01
Reported: Aug 1, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Chemical Oxygen Demand
QC Batch#:	IN072195410400A
Analy. Method:	EPA 410.4
Prep. Method:	N.A.
Analyst:	D. Lawrence
MS/MSD #:	9507A2801
Sample Conc.:	150
Prepared Date:	7/21/95
Analyzed Date:	7/21/95
Instrument I.D.#:	MANUAL
Conc. Spiked:	100 mg/L
Result:	230
MS % Recovery:	80
Dup. Result:	230
MSD % Recov.:	80
RPD:	0.0
RPD Limit:	0-30

LCS #:	
Prepared Date:	
Analyzed Date:	
Instrument I.D.#:	
Conc. Spiked:	
LCS Result:	
LCS % Recov.:	

MS/MSD LCS Control Limits	70-130

SEQUOIA ANALYTICAL

Brucie Fletcher

Brucie Fletcher
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Project ID:	330-006.5B/608, San Lorenzo	
2025 Gateway Place, Suite 440	Matrix:	LIQUID	
San Jose, CA 95110			
Attention: Maree Doden	Work Order #:	9507A81 01	Reported: Aug 1, 1995

QUALITY CONTROL DATA REPORT

Analyte:	pH	Total Suspended Solids
QC Batch:	IN072095150100A	IN072195160200A
Analy. Method:	EPA 150.1	EPA 160.2
Prep Method:	N.A.	N.A.
Analyst:	S. Lee	S. Lee
Duplicate Sample #:	9507A5801	9507B9001
Prepared Date:	7/20/95	7/21/95
Analyzed Date:	7/20/95	7/21/95
Instrument I.D.#:	MANUAL	MANUAL
Sample Concentration:	8.0	42
Dup. Sample Concentration:	8.0	57
RPD:	0.0	30
RPD Limit:	0-30	0-30

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Brucie Fletcher

Brucie Fletcher
Project Manager

** RPD = Relative % Difference

ARCO Products Company Division of AtlanticRichfieldCompany 330-006.5B **Task Order No.** 0332700

Chain of Custody

ARCO Facility no. 608 | City (Facility) San Lorenzo | Project manager (Consultant) Shaw Garakani | Laboratory name Sequoia

ARCO engineer Mike Whelan | Telephone no. (ARCO) | Telephone no. (Consultant) (408) 441-7500 | Fax no. (Consultant) (408) 441-7539 | Contract number 07-073

Consultant name Pacific Env Group | Address (Consultant) 2025 Gateway Pl #440 San Jose

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	~~EPA 625/8270~~ TSS	TCLP Metals ☐ VOA ☐ Semi VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐	COD	pH
EFFL		1		X		X		7-17-95	01 A													X
EFFL		↓		↓		↓		↓	↓ B												X	
EFFL		↓		↓		↓		↓	↓ C								X					

Method of shipment:

Special detection Limit/reporting:

Special QA/QC:

Remarks:

Lab number: 9507AB1

Turnaround time:
- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Condition of sample: | Temperature received:

Relinquished by sampler	Date	Time	Received by
[signature]	7-19-95	700	[signature] 7/19/95
Relinquished by [signature]	7/19/95	1100	Received by [signature]
Relinquished by [signature]	7/19	12:10	Received by laboratory [signature] Date 7/19/95 Time 1200

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APC 3292 (2-91)

Work Order # 953324

FIELD SERVICES / ROUTINE O&M REQUEST

Identification | **Request Frequency:Monthly**

Project #	330-006.5B
Station #	0608
Site Address:	17601 Hesperian Blvd @ Hacienda Avenue
County:	Alameda
Project Manager:	Shaw Garakani
Requestor:	Steve Johnston
Client:	ARCO
Client P.O.C.:	Mike Whelan
Revision Date:	June 1, 1995
Laboratory:	Sequoia Analytical

	Initials	Date
F/S	RY	6/8/95
Copy/Dist.	RY	↓

Site Remedial Technologies:

Groundwater Extration (GWE) [X]

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

Data Sheet Section(s) / Part(s)	To be Completed	Budgeted Hrs	Actual Hrs	Mob-de Mob	Completed
GWE(A, B, C, D, F)	monthly†		2	2	yes
GWE(E,G)	quarterly				yes

† = sampling to be performed

Definition of frequencies:

weekly = N/A
monthly = N/A
quarterly = once every quarter in months 3, 6, 9 ,12 on week 1
semi-annually = N/A

Field Technician Response:

Completed by: JV Date: 6-5-95
Arrival time: 10:20 Departure time: 11:50
Sample this visit?: yes Engineer contacted? yes SJ

Date: 6-5-95

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
330-006.5B
May 24, 1995

System Description:

Groundwater Pumps

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

Carbon Vessels: Three ASC-1,200
Filter: _____

PART A: SYSTEM DATA

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

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	0848670	0848810
FILTER INLET PRESSURE (psig)	10	(ideal range: 8 to 12 psig) 10
CARBON #1 INLET PRESSURE (psig)	8	(ideal range: 5 to 9 psig) 8
CARBON #2 INLET PRESSURE (psig)	5	(ideal range: 1 to 4 psig) 5
DISCHARGE PRESSURE (psig)	2	(ideal range: 0 to 2 psig) 2

PART B: COMMENTS_____

PART C: WELL DATA

WELL	DTW/DTL (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A	20.70 / 20.70	0848670	2gpm	

PART D: SAMPLING & READINGS I

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds	Yes
EFFLUENT	TPH-gasoline, BTEX compounds	Yes

PART E: SAMPLING & READINGS II

	TEMPERATURE (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
EFFLUENT	67.5	1008	7.59	1

PART F: SYSTEM MAINTENANCE I

ELECTRIC METER READING (kw hrs)	16156	HOUR METER READING (hrs)	27720
NUMBER OF SPARE FILTERS ON SITE?	13	CHANGE FILTERS? (if necessary)	Yes
TEST ALARM SWITCHES	Yes		

of AtlanticRichfieldCompany

Task Order No. [illegible]

ARCO Facility no. 6608	City (Facility) San Lorenzo	Project manager (Consultant) Shaw Gaialani	Laboratory name Sequoia
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7500	Fax no. (Consultant) 408 441 7539
Consultant name Pacific Env Group	Address (Consultant) 2025 Gateway pl #440 San Jose		Contract number

Method of shipment

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Turnaround time

Priority Rush 1 Business Day ☐

Rush 2 Business Days ☐

Expedited 5 Business Days ☐

Standard 10 Business Days X

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
Infl		3		X		X	HCL	6-5-95			X											
Effl		3		X		X	X	X			X											

Condition of sample:

Temperature received:

Relinquished by sampler	Date 6-6-95	Time 700	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory / Date / Time

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APC-3292 (2-91)

Work Order # 953454

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Project #	330-006.5B
Station #	0608
Site Address:	17601 Hesperian Blvd @ Hacienda Avenue
County:	Alameda
Project Manager:	Shaw Garakani
Requestor:	Steve Johnston
Client:	ARCO
Client P.O.C.:	Mike Whelan
Revision Date:	June 1, 1995
Laboratory:	Sequoia Analytical

Request Frequency:Monthly

	Initials	Date
F/S	RH	7/10/95
Copy/Dist.	RH	↓

Site Remedial Technologies:

Groundwater Extration (GWE) [X]

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

Data Sheet Section(s) / Part(s)	To be Completed	Budgeted Hrs	Actual Hrs	Mob-de Mob	Completed
GWE(A, B, C, D, F)	monthly†		2.5	1	Yes
GWE(E,G)	quarterly				

† = sampling to be performed

Definition of frequencies:

weekly = N/A
monthly = once every month on week 1
quarterly = once every quarter in months 3, 6, 9 ,12 on week 1
semi-annually = N/A

Field Technician Response:

Completed by: JV Date: 7-6-95
Arrival time: 8:50 Departure time: 11:30
Sample this visit?: Yes Engineer contacted? Yes

Date: 7-6-95

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
330-006.5B
May 24, 1995

System Description:

Groundwater Pumps

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

Carbon Vessels: Three ASC-1,200
Filter: _____

PART A: SYSTEM DATA

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

ELECTRIC METER READING (kw hrs)	16610	HOUR METER READING (hrs)	28464

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	0921170	0921260
FILTER INLET PRESSURE (psig)	10	(ideal range: 8 to 12 psig) 8
CARBON #1 INLET PRESSURE (psig)	8	(ideal range: 5 to 9 psig) 6
CARBON #2 INLET PRESSURE (psig)	5	(ideal range: 1 to 4 psig) 5
DISCHARGE PRESSURE (psig)	0	(ideal range: 0 to 2 psig) 0

PART B: COMMENTS

PART C: WELL DATA

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

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A	18.11	0921170	2	

WELL	DTW (TOB)	WELL	DTW (TOB)	WELL	DTW (TOB)
MW-5	12.09	MW-8	12 20	MW-9	10.09

PART D: SAMPLING

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds	yes
EFFLUENT	TPH-gasoline, BTEX compounds	yes

PART E: READINGS

	TEMPERATURE (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
EFFLUENT				

PART F: SYSTEM MAINTENANCE I

NUMBER OF SPARE FILTERS ON SITE?	14	CHANGE FILTERS? (if necessary)	yes
SWEEP ENCLOSURE	yes		

PART G: SYSTEM MAINTENANCE II

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			

572

ARCO Facility no. 608	City (Facility) San Lorenzo	Project manager (Consultant) Shaw Garakani	Laboratory name Sequoia
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7500	Fax no. (Consultant) 408 441 7539
Consultant name Pacific Env Group	Address (Consultant) 2025 Gateway Pl #440 San Jose		Contract number

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH: Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
INF		3		X		X	HCl	7-6-95			X											
EFF		3		X		X	HCl	X			X											

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Turnaround time

Priority Rush 1 Business Day

Rush 2 Business Days

Expedited 5 Business Days

Standard 10 Business Days

Condition of sample:

Temperature received:

Relinquished by sampler	Date 7-7-95	Time 7:00
Relinquished by	Date	Time
Relinquished by	Date	Time

Received by		
Received by		
Received by laboratory	Date	Time

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APC-3292 (2-91)

FIELD SERVICES / O&M REQUEST JV Work Order # 4500

SITE INFORMATION FORM

Identification

Project # 330-065B

Station # 608

Site Address:

County:

Project Manager: SHAWN

Requestor: "

Client: ARCO.

Project Type

- [ ] 1st Time Visit
- [ ] Quarterly
  - [ ] 1st [ ] 2nd [ ] 3rd [ ] 4th
- [ ] Monthly
- [ ] Semi-Monthly
- [ ] Weekly
- [x] One time event
- [ ] Other:

	Initials	Date
F/S	KI	7/19/95
Copy/Dist	KI	↓

Client P.O.C.: KILEC.

Date of Request: 7/10/95

Ideal field date(s): MUST BE JULY 95

Check Appropriate Category

Budget Hrs. 1

Actual Hrs. 1

Mob de Mob 1

FILE COPY

Field Tasks: For General Description

circle one:
Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available)

1. Conduct a site visit to obtain GW samples for the following analysis

PH, TSS, COD

** THIS TASK MUST BE COMPLETED DURING July 95

** (Try to Coordinate with other regular visits in the area please)

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

TASK Completed

- [ ] Samples taken [ ] Samples not required [ ] Soil Vapor [ ] Groundwater
- [ ] Weekly [ ] Semi-Monthly [ ] Monthly [ ] Quarterly [ ] Semi-Annual

PACIFIC ENVIRONMENTAL GROUP, INC.

Completed by: JV Date: 7-17-95

Checked by:

White Copy - Originator Yellow Copy - O & M Tech Pink Copy - File

ARCO Products Company
Division of AtlanticRichfieldCompany

330 006 5B **Task Order No.** 0332700

Chain of Custody

ARCO Facility no. 608	City (Facility)	Project manager (Consultant) Shaw Gunkami	Laboratory name Seguoia
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7500	Fax no. (Consultant) 408 441 7539
Consultant name Pacific Env Group		Address (Consultant) 2025 Gateway Pl #440 San Jose	Contract number

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA ~~equiv~~ TSS	TCLP Metals ☐ VOA ☐ Semi VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐	COD	PH
EFFL		1		X		X		7-17-95														X
EFFL		↓		↓		↓		↓													X	
EFFL		↓		↓		↓		↓									X					

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☑

Condition of sample:

Temperature received:

Relinquished by sampler	Date 7-19-95 Time 700	Received by
Relinquished by	Date Time	Received by
Relinquished by	Date Time	Received by laboratory / Date / Time

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant

Work Order # 953615

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Project #	330-006.5B
Station #	0608
Site Address:	17601 Hesperian Blvd @ Hacienda Avenue
County:	Alameda
Project Manager:	Shaw Garakani
Requestor:	Steve Johnston
Client:	ARCO
Client P.O.C.:	Mike Whelan
Revision Date:	June 1, 1995
Laboratory:	Sequoia Analytical

Request Frequency:Monthly

	Initials	Date
F/S	RJ	8/23/95
Conv/Dist	RJ	↓

Site Remedial Technologies:

Groundwater Extration (GWE) [X]

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

Data Sheet Section(s) / Part(s)	To be Completed	Budgeted Hrs	Actual Hrs	Mob-de Mob	Completed
GWE(A, B, C, D, F)	monthly†		3		Yes
GWE(E,G)	quarterly				

† = sampling to be performed

Definition of frequencies:

weekly = N/A
monthly = once every month on week 1
quarterly = once every quarter in months 3, 6, 9 ,12 on week 1
semi-annually = N/A

Field Technician Response:

Completed by: JV
Date: 8-21-95
Arrival time: 900
Departure time: 12:00
Sample this visit?: Yes
Engineer contacted? Yes

Date: 8-21-95

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
330-006.5B
July 11, 1995

System Description:

Groundwater Pumps

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

Carbon Vessels: Three ASC-1,200
Filter: _____

PART (A) SYSTEM DATA

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

ELECTRIC METER READING (kw hrs)	17259	HOUR METER READING (hrs)	29568

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	0993320	System was shut down 0993320
FILTER INLET PRESSURE (psig)	12	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	9	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	5	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	0	(ideal range: 0 to 2 psig)

PART (B) COMMENTS Pump was pulled As per W/O # 4620

PART C: WELL DATA

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

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A	1860	Sane	2.0	

WELL	DTW (TOB)	WELL	DTW (TOB)	WELL	DTW (TOB)
MW-5	12.49	MW-8	11.60	MW-9	10.80

PART D: SAMPLING

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds	Yes
EFFLUENT	TPH-gasoline, BTEX compounds	Yes

PART E: SAMPLING & READINGS

	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
EFFLUENT				

SAMPLE	ANALYSIS	COMPLETED
EFFLUENT	COD, SS	

PART F: SYSTEM MAINTENANCE I

NUMBER OF SPARE FILTERS ON SITE?	13	CHANGE FILTERS? (if necessary)	Yes
SWEEP ENCLOSURE	Ok		

PART G: SYSTEM MAINTENANCE II

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			

ARCO Products Company
Division of AtlanticRichfieldCompany

350-006.24 Task Order No. 170200

ARCO Facility no. 608	City (Facility) Hayward	Project manager (Consultant) Shaw Garatani	Laboratory name Sequoia
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7500	Fax no. (Consultant) 408 441 7539
Consultant name Pacific Env Group	Address (Consultant) 2025 Gate Way pl # 440 San Jose		Contract number

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
INFL		3		X		X	HCL	8-21-95			X											
EFFL		3		X		X	HCL	X			X											

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Method of shipment

Condition of sample:

Temperature received:

Relinquished by sampler	Date 8-22-95 Time 7:00	Received by
Relinquished by	Date Time	Received by
Relinquished by	Date Time	Received by laboratory / Date / Time

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APC-3292 (2-91)

FIELD SERVICES / O&M REQUEST JN Work Order # 4620

SITE INFORMATION FORM

Identification

Project # 330-006.5B

Station # 0608

Site Address: 17601 Hesperian Blvd San Lorenzo, CA

County: Alameda

Project Manager: SG

Requestor: SJ

Client: ARCO

Project Type

- ☐ 1st Time Visit
- ☐ Quarterly — ~~1st~~ ~~2nd~~ ~~3rd~~ ~~4th~~
- ☐ Monthly — Initials / Date
- ☐ Semi-Monthly RH 8/23/95
- ☐ Weekly
- Copy/Dist. R-1
- ☒ One time event
- ☐ Other: _____

Client P.O.C.: MW

Date of Request 8/17/95

Ideal field date(s): 8/21/95

Check Appropriate Category

Budget Hrs. 2 (pump service only)

Actual Hrs. 1

Mob de Mob _____

Field Tasks: For General Description

circle one:
Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available)

- PERFORM MONTHLY O:M
- PULL PUMP
- HAVE INSPECTED/TUNED-UP/CLEANED BY BARTON PUMPS
- STORE PUMP IN WAREHOUSE, CLEARLY MARKED AS "ARCO STATION 0608, DO NOT USE"

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

TASK Completed

☐ Samples taken ☐ Samples not required ☐ Soil Vapor ☐ Groundwater

☐ Weekly ☐ Semi-Monthly ☐ Monthly ☐ Quarterly ☐ Semi-Annual

PACIFIC ENVIRONMENTAL GROUP, INC.

Completed by: JV Date: 8-21-95

Checked by: _____

White Copy - Originator Yellow Copy - O & M Tech Pink Copy - File

FIELD SERVICES / O&M REQUEST JV Work Order # 4622

SITE INFORMATION FORM

Identification

Project # 330-006.5B

Station # 0608

Site Address: 17601 HESPERIAN BLVD SAN LORENZO, CA

County: ALAMEDA

Project Manager: SG

Requestor: SJ

Client: ARCO

Project Type

- ☐ 1st Time Visit
- ☐ Quarterly
  - ☐ 1st ☐ 2nd ☐ 3rd ☐ 4th
- ☐ Monthly — Initials — Date
- ☐ Semi-Monthly F/S — RH — 9-25-95
- ☐ Weekly
- ☒ Copy/Dist — RH — ↓
- ☐ One time event
- ☐ Other: _____

Client P.O.C.: MW

Date of Request 8/18/95

Ideal field date(s): 9/5/95

COORDINATE WITH QUARTERLY SAMPLING

Check Appropriate Category

Budget Hrs. 3

Actual Hrs. 3

Mob de Mob 2

Field Tasks: For General Description

circle one:
Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available)

- MODIFY QUARTERLY SAMPLING (NOT MONTHLY O&M)
- MEASURE D.O., pH, TEMP BEFORE AND AFTER PURGING
- AND WELLS SP-1/V-1 · SP-2/V-2 TO V4/4 PROGRAM
- INSTALL ORC'S IN WELLS E1-A, MW-5, & MW-10

READ ATTACHED INSTALLATION PROCEDURE PRIOR TO SITE VISIT. THE ORC'S HARDEN TO CEMENT-LIKE HARDNESS. IT IS CRITICAL THAT PROPER INSTALLATION BE DONE IF NOT IT IS NEARLY IMPOSSIBLE TO REMOVE FROM WELLS FOR SAMPLING

INSTALL ORC'S SO THAT [illegible] ABOVE WATER LEVEL.

E-1A = 4-2" ORC'S

MW-5 = 4-2" ORC'S

MW-10 = 1-2" ORC

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

TASK Completed
UNABLE TO INSTALL ORC'S IN MW5 THE Well is only 14ft deep NO ORC'S Were Installed IN MW5 AS PER SJ.

☐ Samples taken ☐ Samples not required ☐ Soil Vapor ☐ Groundwater

☐ Weekly ☐ Semi-Monthly ☐ Monthly ☐ Quarterly ☐ Semi-Annual

PACIFIC ENVIRONMENTAL GROUP, INC.

Completed by: SJ Date: 9-21-95

Checked by: _____

White Copy - Originator Yellow Copy - O & M Tech Pink Copy - File

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

RECEIVED
SEP 06 1995
PACIFIC ENVIRONMENTAL GROUP, INC.

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Project: 330-006.5B/608,Hayward

Enclosed are the results from samples received at Sequoia Analytical on August 22, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9508G12 -01	LIQUID, INFL	08/21/95	TPHGBW Purgeable TPH/BTEX
9508G12 -02	LIQUID, EFFL	08/21/95	TPHGBW Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on his project.

Very truly yours,

SEQUOIA ANALYTICAL

B Fletcher

Project Manager

Quality Assurance Department

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Maree Doden

Client Proj. ID: 330-006.5B/608,Hayward
Sample Descript: INFL
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9508G12-01

Sampled: 08/21/95
Received: 08/22/95

Analyzed: 08/23/95
Reported: 08/30/95

QC Batch Number: GC082395BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**230**
Benzene	**0.50**	**1.8**
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**1.6**
Xylenes (Total)	**0.50**	**0.92**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

Analytes reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210

B Fletcher

Lucie Fletcher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Maree Doden

Client Proj. ID: 330-006.5B/608,Hayward
Sample Descript: EFFL
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9508G12-02

Sampled: 08/21/95
Received: 08/22/95

Analyzed: 08/23/95
Reported: 08/30/95

QC Batch Number: GC082395BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

B Fletcher

Brucie Fletcher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-006.5B/608, Hayward
Matrix: Liquid
Work Order #: 9508G12 -01, 02

Reported: Aug 31, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC082395BTEX02A	GC082395BTEX02A	GC082395BTEX02A	GC082395BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	G9508A74-21C	G9508A74-21C	G9508A74-21C	G9508A74-21C
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/23/95	8/23/95	8/23/95	8/23/95
Analyzed Date:	8/23/95	8/23/95	8/23/95	8/23/95
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
Result:	11	11	11	34
MS % Recovery:	110	110	110	113
Dup. Result:	11	10	10	30
MSD % Recov.:	110	100	100	100
RPD:	0.0	9.5	9.5	13
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				
MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

B Fletcher

Brucie Fletcher
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

ARCO Products Company ◆ Division of AtlanticRichfieldCompany

330.006.5A Task Order No. 1702100

Chain of Custody

ARCO Facility no. 608	City (Facility) Hayward	Project manager (Consultant) Shau Garakani	Laboratory name Sequoia
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408/441-7500	Fax no. (Consultant) 408/441-7539
Consultant name Pacific Env Group	Address (Consultant) 2025 Gate Way pl #440 San Jose		Contract number 07-073

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
INFL	1A	3		X		X	HCl	8-21-95			X											
EFFL	2A	3		X		X	HCl	X			X											

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number 9508G12

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days X

Condition of sample:

Temperature received:

	Date	Time		Date	Time
Relinquished by sampler	8-22-95	7:00	Received by Denise Alarcon		
Relinquished by Denise Alarcon	8/22/95	9:30	Received by Ralph Bonello		
Relinquished by Ralph Bonello	8/22/95	11:53	Received by laboratory	8/22/95	1153

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant

ARC 3292 (2-91)