

June 22, 1999 Project 20805-214.002

Mr. Paul Supple ARCO Products Company PO Box 6549 Moraga, California 94570

Re: Quarterly Groundwater Monitoring Report, First Quarter 1999, for ARCO Service Station No. 2162, located at 15135 Hesperian Boulevard, San Leandro, California

Dear Mr. Supple:

Pinnacle Environmental Solutions, a division of EMCON (Pinnacle), is submitting the attached report which presents the results of the first quarter 1999 groundwater monitoring program at ARCO Products Company (ARCO) Service Station No. 2162, located at 15135 Hesperian Boulevard, San Leandro, California. The monitoring program complies with the Alameda County Health Care Services Agency (ACHCSA) requirements regarding underground tank investigations.

LIMITATIONS

No monitoring event is thorough enough to describe all geologic and hydrogeologic conditions of interest at a given site. If conditions have not been identified during the monitoring event, results should not be construed as a guarantee of the absence of such conditions at the site, but rather as the product of the scope and limitations of work performed during the monitoring event r

Please call if you have questions.

Sincerely,

Pinnacle

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Project Manager

son. R.G Schior Project Supervisor

PROTECTION 9 JUN 23 PM 2: 38

Attachment: Quarterly Groundwater Monitoring Report, First Quarter 1999

cc: Mr. John Jang, Regional Water Quality Control Board - S.F. Bay Region Mr. Mike Bakaldin, City of San Leandro Fire Department, Hazardous Materials Division Mr. Scott Seery, Alameda County Health Care Services Agency

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ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Facility No	.: 2162	Address:	15135 Heaperian Boulevard, San Leandro, California
	ARCO Environment	tal Engineer:	Paul Supple
	Consulting Co./Con	tact Person:	Pinnacle Environmental Solutions/Glen VanderVeen
			20805-214.002
Pri	mary Agency/Regula	atory ID No.:	ACHCSA

WORK PERFORMED THIS QUARTER (FIRST - 1999):

- 1. Prepared and submitted quarterly groundwater monitoring report for fourth quarter 1998.
- 2. Performed quarterly groundwater monitoring and sampling for first quarter 1999.

WORK PROPOSED FOR NEXT QUARTER (SECOND - 1999):

- i. Prepare and submit quarterly groundwater monitoring report for first quarter 1999.
- 2. Perform quarterly groundwater monitoring and sampling for second quarter 1999.

QUARTERLY MONITORING:

Current Phase of Project:	Monitoring
Frequency of Groundwater Sampling:	Quarterly: MW-1 through MW-4
Frequency of Groundwater Monitoring:	
Is Free Product (FP) Present On-Site:	No
FP Recovered this Quarter:	None
Cumulative FP Recovered to Date:	None
Bulk Soil Removed This Quarter:	None
Bulk Soil Removed to Date:	None
Current Remediation Techniques:	Natural Attenuation
Approximate Depth to Groundwater:	7.1 feet
Groundwater Flow Direction and Gradient	
(Average):	0.008 toward Southwest

DISCUSSION:

Please refer to the Fourth Quarter 1996 Groundwater Monitoring Report for historical groundwater elevation and analytical data.

ATTACHMENTS:

- Table 1 Groundwater Elevation and Analytical Data
- Figure 1 Groundwater Analytical Summary Map
- Figure 2 Groundwater Elevation Contour Map
- Appendix A Sampling and Analysis Procedures
- Appendix B Certified Analytical Reports and Chain-of-Custody Documentation
- Appendix C Field Data Sheets

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Table 1 Groundwater Elevation and Analytical Data Total Purgeable Petroleum Hydrocarbons (TPPH as Gasoline, BTEX Compounds, and MtBE)

ARCO Service Station 2162 15135 Hesperian Boulevard, San Leandro, California

	Date	Welli	Depth to	Groundwater	TPPH as			Ethyl-			Dissolved	Purged/
Well	Gauged/	Elevation	Water	Elevation	Gasoline	Benzene	Toluene	benzene	Xylenes	MIBE	Oxygen	Not Purged
		(feet, MSL)	(feet, TOC)	(feet, MSL)	(քըԵ)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)	(P/NP)
	02/26/96	31.19	7.14	24.05	<50	- <0.5	<0.5	<0.5	<0.5	NA	NA	
		51.19	7.70	23.49	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
	05/23/96		8.75	22,44	210	<0.5	<0.5	<0.5	<0.5	<2.5	NA	
	08/21/96		8.62	22.57	210 91	<0.5	<0.5	<0.5	<0.5	2.6	NA	
	11/20/96		8.70	22.49	50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NP
	04/01/97		8.45	22.74	94	<0.5	<0.5	0.68	0.56	6.4	NA	NP
	06/10/97		9.20	21.99	<50	<0.5	<0.5	<0.5	<0.5	10	1.0	NP
	09/17/97 12/12/97		9.20 8.00	23.19	<200	<2.0	<2.0	<2.0	<2.0	180		NP
	03/25/98		7.00	24.19	<200	<2	<2	3	<2	180	2.0	
	05/14/98		7.46	23.73	<50	. <0.5	<0.5	<0.5	<0.5	<3	1.17	Р
	07/31/98		8.10	23.09	<50	<0.5	<0.5	<0.5	<0.5	<3	2.0	NP
ł	10/12/98		8.60	22.59	<50	<0.5	<0.5	<0.5	<0.5	9	2.5	NP
	02/11/99		7.32	23.87	<50	<0.5	<0.5	<i>5</i> 0>	<0.5	25	1.0	Р
N4337-3	02/26/96	30.38	6.41	23.97	770	<0.5	<0.5	45	28	NA	NA	
IVI VV-2	02/20/90	50.50	6.80	23.58	590	0.50				NA	NA	
	03/23/90		7.80	22.58	170		<0.5		63	<2.5	NA	
	11/20/96		7.73	22.65	88		<0.5	7.9	1.1	<2.5	NA	
	04/01/97		7.83	22.55	66		<0.5	3.6	0.56	33	NA	
	06/10/97		7.52	22.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NP
	09/17/97		8.24	22.14	<50		<0.5	<0.5	<0.5	<3.0	0.6	NP
	12/12/97		7.10	23.28	<50		<0.5	<0.5	<0.5	<3.0) 1.2	NP
	03/25/98		6.27	24.11	<50		<0.5	0.7	0.5	55	5 1.0	
	05/14/98		6.54	23.84	210		<0.5	3.3	<0.5	42	2 1.47	P
1	07/31/98		7.14	23.24	230			3.9	<0.5	(5 1.0	Р
	10/12/98		7.65	22.73	110			5 15	5 <0.5	<	3 1.0	р
1	02/11/99		6.55	23.83	660				7 0.7		3 1.0	Р

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Table 1Groundwater Elevation and Analytical DataTotal Purgeable Petroleum Hydrocarbons(TPPH as Gasoline, BTEX Compounds, and MtBE)

ARCO Service Station 2162 15135 Hesperian Boulevard, San Leandro, California

	Date	Well	Depth to	Groundwater	TPPH as	· · · · · · · · · · · · · · · · · · ·		Ethyl-			Dissolved	Purged/
Well	Gauged/	Elevation	Water	Elevation	Gasoline	Benzene	Toluene	benzene	Xylenes	MtBE	Oxygen	Not Purged
	÷-	(feet, MSL)	(feet, TOC)	(feet, MSL)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)	(P/NP)
						5.0	<0.5	<0.5	<0.5	NA	NA	1
MW-3	02/26/96	30.30	6.72	23.58	120	12	<0.5	<0.5	<0.5	NA	NA	
	05/23/96		7.18	23.12	140		<0.5	<0.5	<0.5	130	NA	
	08/21/96		8.17	22.13	<50	1.1	<0.5	<0.5	<0.5	150 59	NA	
	11/20/96		8.03	22.27	55	<0.5		<0.5	<0.5	180	NA	NP
	04/01/97		8.09	22.21	<50	<0.5	<0.5		<0.5	1,900	NA	NP
	06/10/97		7.97	22.33	<50	<0.5	<0.5	<0.5	<0.5	1,900	2.2	NP
	09/17/97		854	21.76	<5,000	<50	<50	<50		860*		141
	09/17/97										 1.4	NP
	12/12/97		7.50	22.80	560	<5.0	<5.0	<5.0	5.0	. 370		INF
	03/25/98		6.60	23.70	<500	ব	<5	<5	ব	470		Р
	05/14/98		7.13	23.17	750	ৰ্থ	ব	ব	5	630		
	07/31/98		7.58	22.72	<500	<5	<5	<	ব	590		P
	10/12/98		8.00	22.30	<500	ব	<5	<5	<5	600		P
	02/11/99		6.90	23.40	<500	ර	ব	ර	4	280	1.0	Р
MW-4	02/26/96	30.39	7.59	22.80	110	9.9	<0.5	<0.5		NA		
	05/23/96	-	8.22	22.17	69	8.0	<0.5	<0.5	<0.5	NA	NA	
ł.	08/21/96		9.28	21.11	<50	6.8	<0.5	<0.5		<2.5		
	11/20/96		9.12	21.27	95	10	0.59	<0.5	0.52	3.8		
	04/01/97		8.45	21.94	73	5.7	<0.5	<0.5	<0.5	<2.5	NA	
	06/10/97		9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA NA	NP
1	09/17/97		9.76	20.63	ර 0	3.2	<0.5	<0.5	<0.5	8.0	0.2	NP
	12/12/97		8.45	21.94	<0	2.9	<0.5	<0.5	<0.5	14	4 1.0	NP
	03/25/98		7.52	22.87	58	2.8	<0.5	<0.5	<0.5	<3	3.0	
	05/14/98		8.03	22.36	<50		<0.5	; <0.5	<0.5	<	3 3.24	NP
1	07/31/98		8.67	21.72	<50			5 <0.5	5 <0.5	<	3 2.0	NP
1	10/12/98		9.15	21.24	<50	o <0,5		5 <0.5	5 <0.5	6	4 15	NP
ł.	02/11/99		7.80	22.59	61			5 <0.5	5 <0.5		6 1.0	P

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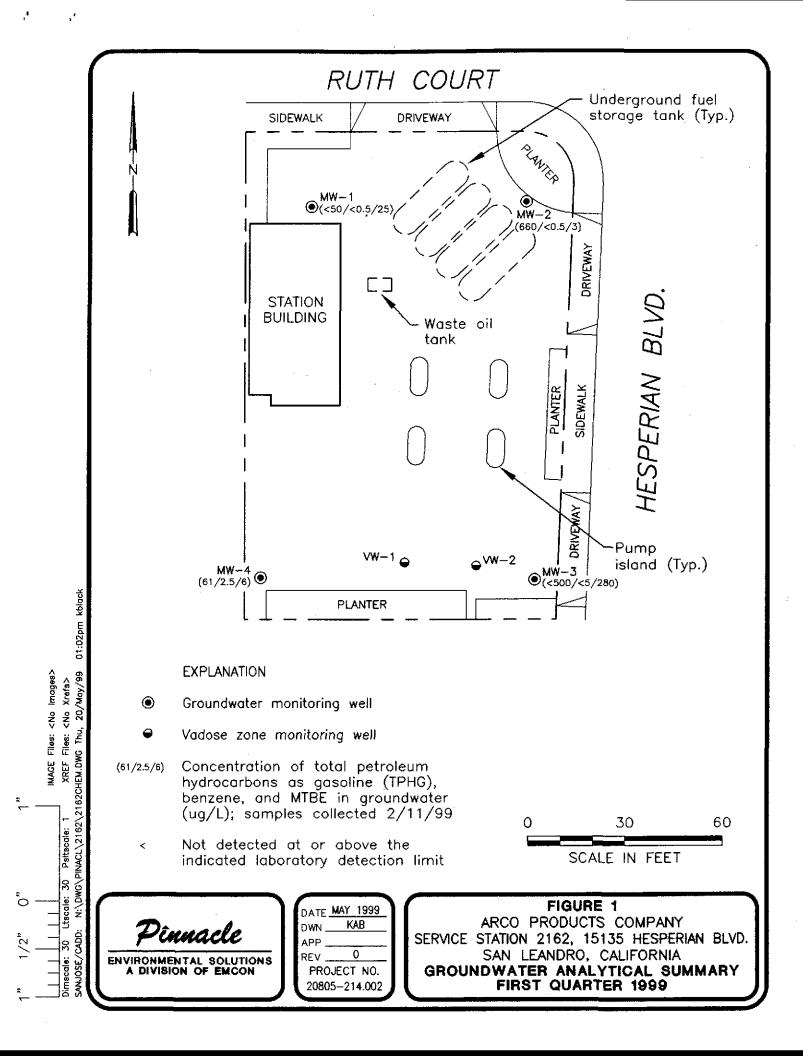
Table 1

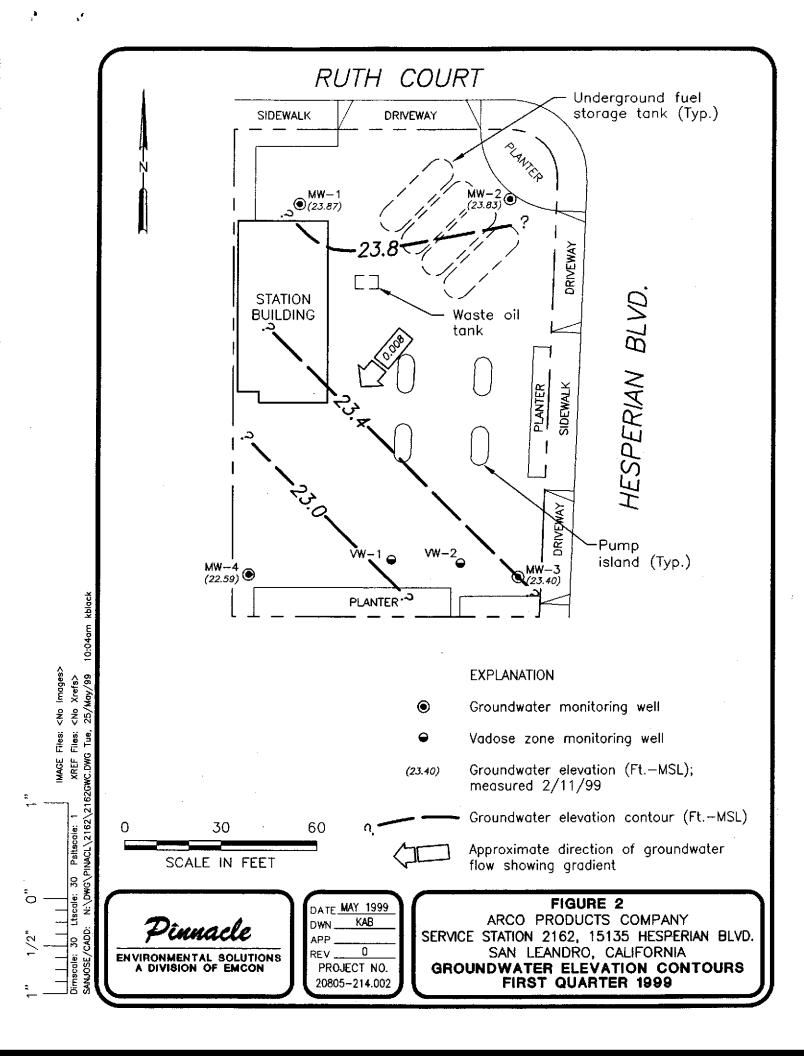
Groundwater Elevation and Analytical Data Total Purgeable Petroleum Hydrocarbons (TPPH as Gasoline, BTEX Compounds, and MtBE)

ARCO Service Station 2162 15135 Hesperian Boulevard, San Leandro, California

	Date	Well	Depth to	Groundwater	TPPH as			Ethyl-	¥1	MADE	Dissolved	Purged/
Well	Gauged/	Elevation	Water	Elevation	Gasoline	Benzene	Toluene	benzene	Xylenes	MtBE	Oxygen	Not Purged
Number	Sampled	(feet, MSL)	(feet, TOC)	(feet, MSL)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)	(P/NP)
1										•		
MtBE	MtBE = Methyl tert-butyl ether											
MSL	= Mean sea	level										
тос	= Top of cas	sing										
ppb	= Parts per l	billion										
ррш	= Parts per :	million								•		
NA	= Not analy	zed										
*	· · ·	nfirmed by EPA	Method 8240.									
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APPENDIX A

SAMPLING AND ANALYSIS PROCEDURES

The sampling and analysis procedures for water quality monitoring programs are contained in this appendix. The procedures provided for consistent and reproducible sampling methods, proper application of analytical methods, and accurate and precise analytical results. Finally, these procedures provided guidelines so that the overall objectives of the monitoring program were achieved.

The following documents have been used as guidelines for developing these procedures:

- Procedures Manual for Groundwater Monitoring at Solid Waste Disposal Facilities, Environmental Protection Agency (EPA)-530/SW-611, August 1977
- Resource Conservation and Recovery Act (RCRA) Groundwater Monitoring Technical Enforcement Guidance Document, Office of Solid Waste and Emergency Response (OSWER) 9950.1, September 1986
- Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, 3rd edition, November 1986
- Methods for Organic Chemical Analysis of Municipal and Industrial Waste Water, EPA-600/4-82-057, July 1982
- Methods for Organic Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1983
- Leaking Underground Fuel Tank (LUFT) Field Manual, California State Water Resources Control Board, revised October 1989

Sample Collection

Sample collection procedures include equipment cleaning, water level and total well depth measurements, and well purging and sampling.

Equipment Cleaning

Before the sampling event was started, equipment that was used to sample groundwater was disassembled and cleaned with detergent water and then rinsed with deionized water. During field sampling, equipment surfaces that were placed in the well or came into contact with groundwater during field sampling were steam cleaned with deionized water before the next well was purged or sampled.

Water Level, Floating Hydrocarbon, and Total Well Depth Measurements

Before purging and sampling occurred, the depth to water, floating hydrocarbon thickness, and total well depth were measured using an oil/water interface measuring system. The oil/water interface measuring system consists of a probe that emits a continuous audible tone when immersed in a nonconductive fluid, such as oil or gasoline, and an intermittent tone when immersed in a conductive fluid, such as water. The floating hydrocarbon thickness and water level were measured by lowering the probe into the well. Liquid levels were recorded relative to the tone emitted at the groundwater surface. The sonic probe was decontaminated by being rinsed with deionized water or steam cleaned after each use. A bottom-filling, clear Teflon[®] bailer was used to verify floating hydrocarbon thickness measurements of less than 0.02 foot. Alternatively, an electric sounder and a bottom-filling Teflon bailer may have been used to record floating hydrocarbon thickness and depth to water.

The electric sounder is a transistorized instrument that uses a reel-mounted, two-conductor, coaxial cable that connects the control panel to the sensor. Cable markings are stamped at 1-foot intervals. The water level was measured by lowering the sensor into the monitoring well. A low-current circuit was completed when the sensor contacted the water, which served as an electrolyte. The current was amplified and fed into an indicator light and audible buzzer, signaling when water had been contacted. A sensitivity control compensated for highly saline or conductive water. The electric sounder was decontaminated by being rinsed with deionized water after each use. The bailer was lowered to a point just below the liquid level, retrieved, and observed for floating hydrocarbon.

Liquid measurements were recorded to the nearest 0.01 foot on the depth to water/floating product survey form. The groundwater elevation at each monitoring well was calculated by subtracting the measured depth to water from the surveyed elevation of the top of the well casing. (Every attempt was made to measure depth to water for all wells on the same day.) Total well depth was then measured by lowering the sensor to the bottom of the well. Total well depth, used to calculate purge volumes and to determine whether the well screen was partially obstructed by silt, was recorded to the nearest 0.1 foot on the depth to water/floating product survey form.

Well Purging

If the depth to groundwater was above the top of screens of the monitoring wells, then the wells were purged. Before sampling occurred, a polyvinyl chloride (PVC) bailer, centrifugal pump, low-flow submersible pump, or Teflon bailer was used to purge standing water in the casing and gravel pack from the monitoring well. Monitoring wells were purged according to the protocol presented in Figure A-1. In most monitoring wells, the amount of water purged before sampling was greater than or equal to three casing volumes. Some monitoring wells were expected to be evacuated to dryness after removing fewer than three casing volumes. These low-yield monitoring wells were allowed to recharge for up to 24 hours. Samples were obtained as soon as the monitoring wells recharged to a level sufficient for sample collection. If insufficient water recharged after 24 hours, the monitoring well was recorded as dry for the sampling event.

Groundwater purged from the monitoring wells was transported in a 500-gallon water trailer, 55-gallon drum, or a 325-gallon truck-mounted tank to EMCON's San Jose or Sacramento office location for temporary storage. EMCON arranged for transport and disposal of the purged groundwater through Integrated Waste Stream Management, Inc.

Field measurements of pH, specific conductance, and temperature were recorded in a waterproof field logbook. Figure A-2 shows an example of the water sample field data sheet on which field data are recorded. Field data sheets were reviewed for completeness by the sampling coordinator after the sampling event was completed.

The pH, specific conductance, and temperature meter were calibrated each day before field activities were begun. The calibration was checked once each day to verify meter performance. Field meter calibrations were recorded on the water sample field data sheet.

Well Sampling

A Teflon bailer was the only equipment acceptable for well sampling. When samples for volatile organic analysis were being collected, the flow of groundwater from the bailer was regulated to minimize turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa were used in sampling for volatile organics. These bottles were filled completely to prevent air from remaining in the bottle. A positive meniscus formed when the bottle was completely full. A convex Teflon septum was placed over the positive meniscus to eliminate air. After the bottle was capped, it was inverted and tapped to verify that it contained no air bubbles. The sample containers for other parameters were filled, filtered as required, and capped.

When required, dissolved concentrations of metals were determined using appropriate field filtration techniques. The sample was filtered by emptying the contents of the Teflon bailer into a pressure transfer vessel. A disposable 0.45-micron acrylic copolymer filter was threaded onto the transfer vessel at the discharge point, and the vessel was sealed. Pressure was applied to the vessel with a hand pump and the filtrate directed into the appropriate containers. Each filter was used once and discarded.

Sample Preservation and Handling

The following section specifies sample containers, preservation methods, and sample handling procedures.

Sample Containers and Preservation

Sample containers vary with each type of analytical parameter. Container types and materials were selected to be nonreactive with the particular analytical parameter tested.

Sample Handling

Sample containers were labeled immediately prior to sample collection. Samples were kept cool with cold packs until received by the laboratory. At the time of sampling, each sample was logged on an ARCO chain-of-custody record that accompanied the sample to the laboratory.

Samples that required overnight storage prior to shipping to the laboratory were kept cool (4° C) in a refrigerator. The refrigerator was kept in a warehouse, which was locked when not occupied by an EMCON employee. A sample/refrigerator log was kept to record the date and time that samples were placed into and removed from the refrigerator.

Samples were transferred from EMCON to an ARCO-approved laboratory by courier or taken directly to the laboratory by the environmental sampler. Sample shipments from EMCON to laboratories performing the selected analyses routinely occurred within 24 hours of sample collection.

Sample Documentation

The following procedures were used during sampling and analysis to provide chain-of-custody control during sample handling from collection through storage. Sample documentation included the use of the following:

- Water sample field data sheets to document sampling activities in the field
- Labels to identify individual samples
- Chain-of-custody record sheets for documenting possession and transfer of samples
- Laboratory analysis request sheets for documenting analyses to be performed

A-4

Field Logbook

In the field, the sampler recorded the following information on the water sample field data sheet (see Figure A-2) for each sample collected:

- Project number
- Client's name
- Location
- Name of sampler
- Date and time
- Well accessibility and integrity

- Calculated and actual purge volumes
- Purging equipment used
- Sampling equipment used
- Appearance of each sample (e.g., color, turbidity, sediment)
- Results of field analyses (temperature, pH, specific conductance)
- Pertinent well data (e.g., casing diameter, depth to water, well depth)
- General comments

The water sample field data sheet was signed by the sampler and reviewed by the sampling coordinator.

Labels

Sample labels contained the following information:

• Project number

- Sampler's initials
- Sample number (i.e., well designation)
- Sample depth

• Type of preservation used (if any)

Date and time of collection

Sampling and Analysis Chain-of-Custody Record

The ARCO chain-of-custody record initiated at the time of sampling contained, at a minimum, the sample designation (including the depth at which the sample was collected), sample type, analytical request, date of sampling, and the name of the sampler. The record sheet was signed, timed, and dated by the sampler when transferring the samples. The number of custodians in the chain of possession was minimized. A copy of the ARCO chain-of-custody record was returned to EMCON with the analytical results.

Groundwater Sampling and Analysis Request Form

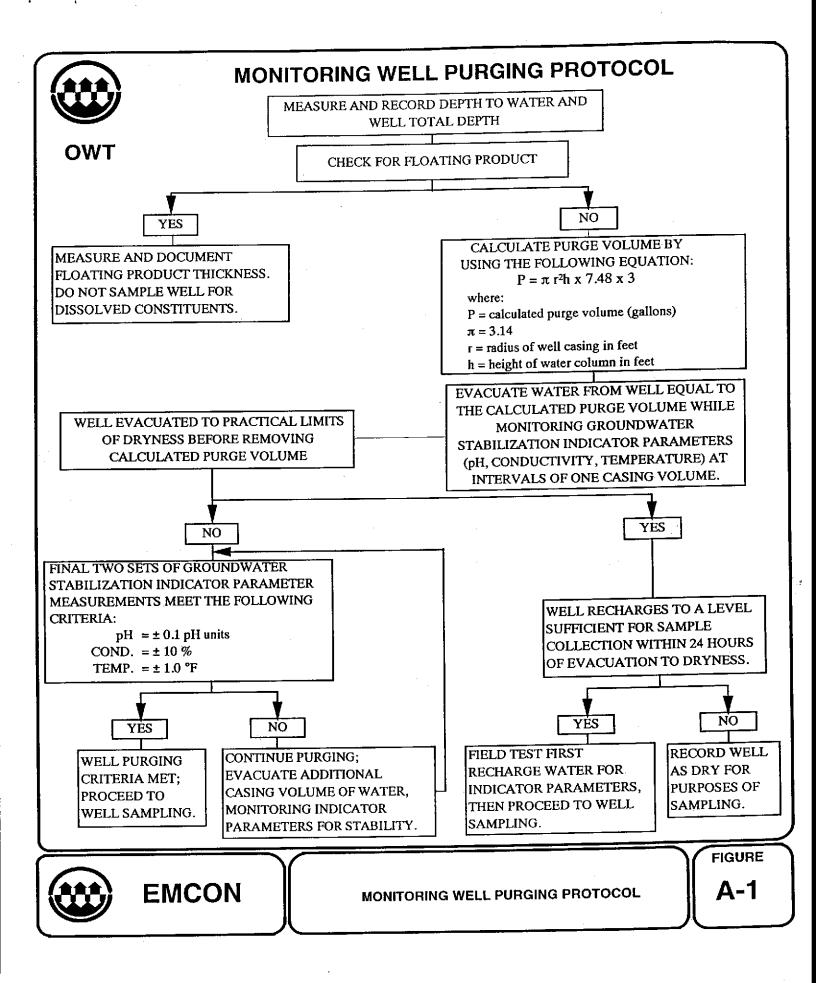
A groundwater sampling and analysis request form (see Figure A-3) was used to communicate to the environmental sampler the requirements of the monitoring event. At a minimum, the groundwater sampling and analysis request form included the following information:

• Date scheduled

• Well number

• Site-specific instructions

- Well specifications (expected total depth, depth of water, and product thickness)
- Specific analytical parameters



	WATE	ER SAMPL	E FIELD	DATA SH	IEET	Rev.
					:	
					·	
OWT					·	
	SAMPLED BY :					
	undwater METER (inches): 2			Leachate		
	ATION (feet/MSL)		<u> </u>	DLUME IN CASING		
	H OF WELL (feet)			CULATED PURG		
DEPTH	OF WATER (feet)		AC	TUAL PURGE VOL	(gal.) :	
DAT	E PURGED :			END PURGE :		
DATE	SAMPLED :		SAI	MPLING TIME :	<u> </u>	
				TEMPERATURE	TURBIDITY	TIME
(2400 HR)	(gal.)	-		(°F)		(2400 HR
OTHER: FIELD QC SAM <u>PUR</u> 2" Bladder Centrifuga	PLES COLLECTEL GING EOUIPMENT r Pump) AT THIS WELL (Bailer (Teflon) Bailer (PVC)	ODOR: i.e. FB-1, XDUP-	1) :	(COBALT 0-100) G EQUIPMENT	(NTU 0-200 (Teflon) (Stainless Steel)
Submersib		_Bailer (Stainless Stee	" <u> </u>		Dedica	
Well Wize		Dedicated		her:		
•		<u> </u>				
ELL INTEGRIT	Y:					:
C. 1000		: pH7/	pH 1	0/		
EI	MCON	w	ATER SAMPL	E FIELD DATA :	SHEET	FIGU A-

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	GF	ROUNDWATE	EMCON - S R SAMPLING .	ACRAMENTO AND ANALYSIS REQUI	EST FORM	
		IECT NAME :				
OWT		ULED DATE :				
SPECIAL INS	TRUCTIONS /		IONS :		Project Authorization: EMCON Project No.:	
					OWT Project No.: Task Code: Originals To: cc:	
						Well Lock Number (s)
	X TO AUTHOR	UZE DATA EN	TRY	Site Contact:	Name	Phone #
Well Number or Source	Casing Diameter (inches)	Casing Length (feet)	Depth to Water (feet)	ANA	YSES REQUESTED	
					:	
Laboratory and	Lab QC Istruction	ons:		·		
		. <u>.</u> .	<u> </u>			
	EMCO	N	SAMPI	LING AND ANALYSIS R	EQUEST FORM	FIGURE A-3

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March 1, 1999

Service Request No.: S9900495

Mr. Glen Vanderveen PINNACLE 144 A Mayhew Wy. Walnut Creek, CA 94596

RE: 20805-214.001/TO#24118.00/RAT8/2162 SAN LEANDRO

Dear Mr. Vanderveen:

The following pages contain analytical results for sample(s) received by the laboratory on February 12, 1999. Results of sample analyses are followed by Appendix A which contains sample custody documentation and quality assurance deliverables requested for this project. The work requested has been assigned the Service Request No. listed above. To help expedite our service, please refer to this number when contacting the laboratory.

Analytical results were produced by procedures consistent with Columbia Analytical Services' (CAS) Quality Assurance Manual (with any deviations noted). Signature of this CAS Analytical Report below confirms that pages 2 through 11, following, have been thoroughly reviewed and approved for release in accord with CAS Standard Operating Procedure ADM-DatRev3.

Please feel welcome to contact me should you have questions or further needs.

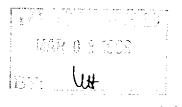
Sincerely,

ernadetti I. Cox

Bernadette T. Cox Project Chemist

Lou kly for

Regional QA Coordinator



3334 Victor Court - Sonto Cloro, CA, 95054-2316 - Telephone (408), 748-9700 - Fox (408), 748-9860

COLUMBIA ANALYTICAL SERVICES, Inc. Acronyms

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	Acronyms
A2LA	American Association for Laboratory Accreditation
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAM	California Assessment Metals
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
COD	Chemical Oxygen Demand
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	lon Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
J	Estimated concentration. The value is less than the MRL, but greater than or equal to
	the MDL. If the value is equal to the MRL, the result is actually <mrl before="" rounding.<="" th=""></mrl>
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
М	Modified
MBAS	Methylene Blue Active Substances
MCL	Maximum Contaminant Level. The highest permissible concentration of a
	substance allowed in drinking water as established by the U. S. EPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl tert-Butyl Ether
NA	Not Applicable
NAN	Not Analyzed
NC	Not Calculated
NCASI	National Council of the paper industry for Air and Stream Improvement
ND	Not Detected at or above the method reporting/detection limit (MRL/MDL)
NIOSH	National Institute for Occupational Safety and Health
NTU	Nephelometric Turbidity Units
ррь	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992
STLC	Solubility Threshold Limit Concentration
SW	Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,
TOLD	3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
tr	Trace level. The concentration of an analyte that is less than the PQL but greater than or equal
тари	to the MDL. If the value is equal to the PQL, the result is actually <pql before="" rounding.<="" th=""></pql>
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s) ACRONLST.DOC 7/14/95
	Page 2

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Analytical Report

Client:	ARCO Products Company	Service Request: \$9900495
Project:	20805-214.001/TO#24118.00/RAT8/2162 SAN LEANDRO	Date Collected: 2/11/99
Sample Matrix:	Water	Date Received: 2/12/99

BTEX, MTBE and TPH as Gasoline

Sample Name:	MW-3(14)	Units: ug/L (ppb)
Lab Code:	S9900495-001	Basis: NA
Test Notes:		

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	10	NA	2/18/99	<500	C1
Benzene	EPA 5030	8020	0.5	10	NA	2/18/99	<5	C1
Toluene	EPA 5030	8020	0.5	10	NA	2/18/99	<5	C1
Ethylbenzene	EPA 5030	8020	0.5	10	NA	2/18/99	<5	C1
Xylenes, Total	EPA 5030	8020	0.5	10	NA	2/18/99	<5	C1
Methyl tert -Butyl Ether	EPA 5030	8020	3	10	NA	2/18/99	280	

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The MRL was elevated due to high analyte concentration requiring sample dilution.

Analytical Report

Client:	ARCO Products Company	Service Request: S9900495
Project:	20805-214.001/TO#24118.00/RAT8/2162 SAN LEANDRO	Date Collected: 2/11/99
Sample Matrix:	Water	Date Received: 2/12/99

BTEX, MTBE and TPH as Gasoline

Sample Name:	MW-4(17)	Units: ug/L (ppb)
Lab Code:	S9900495-002	Basis: NA
Test Notes:		

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	1	NA	2/18/99	61	
Benzene	EPA 5030	8020	0.5	1	NA	2/18/99	2.5	
Toluene	EPA 5030	8020	0.5	1	NA	2/18/99	ND	
Ethylbenzene	EPA 5030	8020	0.5	1	NA	2/18/99	ND	
Xylenes, Total	EPA 5030	8020	0.5	1	NA	2/18/99	ND	
Methyl tert -Butyl Ether	EPA 5030	8020	3	1	NA	2/18/99	6	

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Analytical Report

Client:	ARCO Products Company	Service Request: S9900495
Project:	20805-214.001/TO#24118.00/RAT8/2162 SAN LEANDRO	Date Collected: 2/11/99
Sample Matrix:	Water	Date Received: 2/12/99

BTEX, MTBE and TPH as Gasoline

Sample Name:	MW-1(15)		Units: ug/L (ppb)
Lab Code:	S9900495-003		Basis: NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	1	NA	2/18/99	ND	
Benzene	EPA 5030	8020	0.5	1	NA	2/18/99	ND	
Toluene	EPA 5030	. 8020	0.5	1	NA	2/18/99	ND	
Ethylbenzene	EPA 5030	8020	0.5	1	NA	2/18/99	NĎ	
Xylenes, Total	EPA 5030	8020	0.5	· 1	NA	2/18/99	ND	
Methyl tert -Butyl Ether	EPA 5030	8020	3	1	NA	2/18/99	25	

Analytical Report

Client:	ARCO Products Company	Service Request: S99004	495
Project:	20805-214.001/TO#24118.00/RAT8/2162 SAN LEANDRO	Date Collected: 2/11/99	9
Sample Matrix:	Water	Date Received: 2/12/99	9

BTEX, MTBE and TPH as Gasoline

Sample Name:	MW-2(15)	Units: ug/L (ppb)
Lab Code: Test Notes:	\$9900495-004	Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	1	NA	2/18/99	660	
Benzene	EPA 5030	8020	0.5	1	NA	2/18/99	ND	
Toluene	EPA 5030	8020	0.5	1	NA	2/18/99	ND	
Ethylbenzene	EPA 5030	8020	0.5	1	NA	2/18/99	6.7	
Xylenes, Total	EPA 5030	8020	0.5	1	NA	2/18/99	0.7	
Methyl tert -Butyl Ether	EPA 5030	8020	3	1	NA	2/18/99	3	

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Analytical Report

Client:	ARCO Products Company	Service Request: S9900495
Project:	20805-214.001/TO#24118.00/RAT8/2162 SAN LEANDRO	Date Collected: NA
Sample Matrix:	Water	Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:	Method Blank	Units: ug/L (ppb)
Lab Code:	S990218-WB1	Basis: NA
Test Notes:		

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	1	NA	2/18/99	ND	
Benzene	EPA 5030	8020	0.5	1	NA	2/18/99	ND	
Toluene	EPA 5030	8020	0.5	1	NA	2/18/99	ND	
Ethylbenzene	EPA 5030	8020	0.5	1	NA	2/18/99	ND	
Xylenes, Total	EPA 5030	8020	0.5	1	NA	2/18/99	ND	
Methyl tert -Butyl Ether	EPA 5030	8020	3	1	NA	2/18/99	ND	

QA/QC Report

Client:	ARCO Products Company	Service Request:	S9900495
Project:	20805-214.001/TO#24118.00/RAT8/2162 SAN LEANDRO	Date Collected:	NA
Sample Matrix:	Water	Date Received:	NA
		Date Extracted:	NA

Date Analyzed: NA

Surrogate Recovery Summary BTEX, MTBE and TPH as Gasoline

EPA 5030 8020 CA/LUFT Units: PERCENT Basis: NA

		Test	Percent	Recovery
Sample Name	Lab Code	Notes	4-Bromofluorobenzene	a,a,a-Trifluorotoluene
MW-3(14)	S9900495-001		88	87
MW-4(17)	89900495-002		90	. 88
MW-1(15)	S9900495-003		91	88
MW-2(15)	S9900495-004		85	115
BATCH QC	S9900467-003MS		92	87
BATCH QC	S9900467-003DMS		94	82
Method Blank	S990218-WB1		88	88

CAS Acceptance Limits:

69-116

69-116

Prep Method:

Analysis Method: 8020

QA/QC Report

Client:	ARCO Products Company	Service Request: S9900495
Project:	20805-214.001/TO#24118.00/RAT8/2162 SAN LEANDRO	Date Collected: NA
Sample Matrix:	Water	Date Received: NA
		Date Extracted: NA
		Date Analyzed: 2/18/99

Matrix Spike/Duplicate Matrix Spike Summary BTE

Percent Recovery

1

Sample Name:	BATCH QC		Units: ug/L (ppb)
Lab Code:	S9900467-003MS,	S9900467-003DMS	Basis: NA
Test Notes:			

	Prep	Analysis		Spike	e Level	Sample	Spike	Result			CAS Acceptance	Relative Percent
Analyte	Method	Method	MRL	MS	DMS	Result	MS	DMS	MS	DMS	Limits	Difference
Benzene	EPA 5030	8020	0.5	25	25	ND	25	25	100	100	75-135	<1
Toluene	EPA 5030	8020	0.5	25	25	ND	25	25	100	100	73-136	<1
Ethylbenzene	EPA 5030	8020	0.5	25	25	ND	25	25	100	100	69-142	<1

QA/QC Report

Client: Project:	ARCO Products Company 20805-214.001/TO#24118.00/RAT8/2162 SAN LEANDRO	Service Request: Date Analyzed:	
	Initial Calibration Verification (ICV) Summary BTEX, MTBE and TPH as Gasoline		
Sample Name: Lab Code: Test Notes:	ICV ICV1	Units: Basis:	ug/L (ppb) NA

ICV Source:					CAS Percent Recovery		
Analyte	Prep Method	Analysis Method	True Value	Result	Acceptance Limits	Percent Recovery	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	250	240	90-110	96	
Benzene	EPA 5030	8020	25	25	85-115	100	
Toluene	EPA 5030	8020	25	25	85-115	100	
Ethylbenzene	EPA 5030	8020	25	25	85-115	100	
Xylenes, Total	EPA 5030	8020	75	76	85-115	101	
Methyl tert -Butyl Ether	EPA 5030	8020	25	27	85-115	108	

ICV/032196

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ARCO) Pro	oduo n of Atla	cts C antic/Rich	Com	pany ompany	1594	1004	45.	Task Order N	No. 2	411	8,	00)		<u> </u>					(Cha	ain	of Custody
AHCO Fai	cility no	-21	62		City (Facility)5a	nle	and	ro	Proj (Cor	ect ma nsultar	unager ut)	G	lei	$\frac{1}{V}$	'an	de	201	lęţ	20	437			Laboratory Name
ARCO en	-	Pa	Ū15	(/DL	<u>) e</u>	<u> </u>	Telej (AR	phone no. CO)		Tele (Cor	phone nsultar	no ht)	i(R)	45	3-7-	$\frac{2}{2}$	Fax r (Con	no. sultani	040	K).	<u>437</u>	-9	26	Contract Number
Consultan	it name	EL	100	N				Ad (Co	dress onsultant) //	<u> 4-/</u>	1M	avk	eu	W	214	Wa	<u>Inv</u>	<u>†G</u>	<u>ee</u>	<u>k, (</u>	A	940	96	
		ģ		Matrix		Prese	rvation				the URE	5 D		ßE	'			NoAD	V 6010/7000] 20/7421[]				Method of shipment Sampler
Sample I.D	Lab no.	Container no	Soil	Water	Other	lce	Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH Inc	TPH Modified 80 Gas [] Diesel [Oil and Grease 413.1 ① 413.2 ①	TPH EPA 418.1/SM 5	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP S MetalsO VOAD	CAM Metals EP	Lead Org/DHSID Lead EPA 7420/7421D				Sampler Will <u>deliver</u> Special Detection
4/11/-21	(u)	2	0	X		X	IHCI		1010		X													Limit/reporting
111-41	1-2)	17	0	X		X	HCL		1030		X													Lovest
111/-1	(5)	2	0	X		X	HCL		1050		X													Possible
111-2	(5)	2	(\mathbf{P})	\times		X	1+CL		1110	ļ	$ \times$							ļ						Special QA/QC
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																								Remarks RAT S
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																								HIMACATIK
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																								Priority Rush 1 Business Day □
<u> </u>					╂──		+	1		 .		-												Rush 2 Business Days
Condition	n of san	nple: er	AND R	5 CAC	LECTE Z/IZ (5 Fe.0 5 0945	M EMC PER 2	UN-31 /11 REQU	BEFRIG.	Tem	perate	ea tece	oived:	\sim)	Du	۔ د	3)	10	19		11/1		Expedited 5 Business Days
Relinguis	shed by		ər				Date 2/11	195	Time	Rec	bevec	ν X	×	\supset	Cth	Ņ	Į,	2/12	190	7	Ø	945	`	Standard
Relinguis	sheerby						Date	<u> </u>	Time		eived t	-	<u> </u>	2	i									10 Business Days
Relingui	shed by	r					Date		Time	Rec	eived I	by labo	oratory				Date			Time)			

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						DEP ⁻	тн то wat	FIELD REI ER / FLOATI		CT SURVEY		
AF	PROJE		21775- 2162	293.00	•			15135 Hesper Manuel Gall		n Leandro	•	2/11/99 Thursday
DTW Order	WELL ID	Well Box Seal	Well Lid Secure	Gasket Present	Lock Number	Type Of Well Cap	FIRST DEPTH TO WATER (feet)	SECOND DEPTH TO WATER (feet)	DEPTH TO FLOATING PRODUCT (feet)	FLOATING PRODUCT THICKNESS (feet)	WELL TOTAL DEPTH (feet)	COMMENTS
1	MW-3	ок	15/16"	YES	ARCO	LWC	4.90	6.90	ND	NR	14.9	Water in Nox
2	MW-4	ок	15/16"	YES	ARCO	LWC	7,80	7,80		<u> </u>	17.5	<u> </u>
3	MW-1	ок	15/16"	YES	ARCO	LWC	7.32	7.32			15.9	
4	MW-2	ок	15/16"	YES	ARCO	LWC		4.55			15.9	
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		•	•		SI	JRVE		ARE TOP C	OF WELL C	ASINGS		

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WATER SA	MPLE FIEL	D DATA SH	EET	Rev 1/97
PROJECT NO 21-7-7.5 PURGED BY	Water	LOCATION	<u>ARCOHZ</u> <u>San Lea</u> Other	ndron (H
CASING ELEVATION (feet/MSL) DEPTH OF WELL (feet) DEPTH OF WATER (feet)	NR CA		(gal.)(gal.)(5.40
(_ · · · · · · · · · · · · · · · · · · ·	E.C. (µmhos/cm@25	END PURGE : SAMPLING TIME : TEMPERATURE (*F)	COLÓR (visual)	
$ \begin{array}{c cccccccccccccccccccccccccccccccccc$	9 762	<u>61.9</u> <u>62.0</u> <u>62.0</u>		
OTHER: DOE /		<u>none</u> XDUP-1):	<u></u>	1/R (NTU 0-200
Weli Wizard ¹ M Dedicated				(Stainless Stee ersible Pump
Other	les fak	ein		ARCO
он. Е.С., Temp. Meter Calibration:Date <u>2/11/</u> Е.С. 1000 <u>1/000</u> рн 7	99 Time 1700 P	Mete H 10/0.0	er Serial No > OpH 4	87m 1400
Temperature *F				

К 14 <u>н</u> С ^{с с} , ,

\sim	WATE	R SAMP	LE FIELD	DATA SH	IEEI	Rev 1
	PROJECT NO PURGED BY SAMPLED BY	Migan	<u> </u>		San Jea	ndro,
TYPE Grou CASING DIAM	indwater <u>X</u> ETER (inches) 2	Surface Wate	۲ 4_ <u>ـــــــــــــــــــــــــــــــ</u>	Leachate 4 5	Other 6Other	·
DEPT	ATION (feet/MSL) H OF WELL (feet) OF WATER (feet)	154	(AL	DLUME IN CASING CULATED PURGE TUAL PURGE VOL	(go., ,	
DATE	: PURGED : _2 SAMPLED :	11-99		END PURGE :	1102	
TIME (2400 HR) 1059 1102	VOLUME (gal) (p. 0 1.2. 0	pH (units) 7,30 7,29	E.C. (umhos/cm@25*c) (65%	TEMPERATURE (*F) <u>58.55</u> <u>59.6</u> <u>59.9</u>	(visual) <u>Cloudy</u>	Lish
	Do=		-	 DUP-1) :	<u></u>	(NTU 0
			LL (I.e. Fo-1, A			
2" Bladde	ible Pump		-	2" Bladder Pur Bornb Sampler Dipper Well Wizard [™] Other:	Dedic	(Stainless : ersible Pum
	r <u>ok</u>		1.1.			ARC
REMARKS:	<u>a.11</u> .	Simple S	<u></u>	n		
	eter Calibration:Date	2/11/99	Time		er Serial No.	
pH, E.C., Temp. M E.C. 1000	1000	<u></u> рн 7 /	7 <u>00</u> рн	10 <u> </u>	рн 4	(-2

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-	WAT	ER SAMPLE	FIELD	DATA SH	IEET	Rev 1/97
OWT	PURGED BY		<u> </u>		<u>AR(Ott Z</u> <u>San Jea</u> Other	ndron (A
TYPE Grou CASING DIAM	undwater <u>A</u> ETER (inches)	2 3	4X	4.5	6 Other	
DEPT	ATION (feet/MSL H OF WELL (feet OF WATER (feet	$\frac{14.9}{14.9}$	VOL CALC ACTU	UME IN CASING ULATED PURGE IAL PURGE VOL	(gal.) (gal.) (gal.)	5,22 5,48 4.0
DATE	PURGED : SAMPLED :	-11-99	SAM	END PURGE :	1005	
TIME (2400 HR) 1000 1007	VOLUME (gal) 5.5	pH (units) (µmt <u>(4.69</u> (4.698)	E.C. 7 nos/cm@25°c) 823 802	EMPERATURE	COLOR (visual) <u>Cloudy</u>	TURBIDIT' (visual)
				none	(COBALT 0-100)	(NTU 0-200
		TED AT THIS WELL (I.e. FB-1, XOC			
2" Bladd	al Pump	NT Bailer (Teflon) Bailer (PVC) Bailer (Stainless Steel Dedicated			np Bailer Bailer Subme	(Stamless Stee ersible Pump
VELL INTEGRIT			ta ker	1		ARCO
· · · · ·						
			<u>^</u>	\sim		87.00
E.C. 1000 1000	°1/000	не <u>2/11/99</u> рн7 <u>7221-26</u> Ацир	рн 10	52 Mete 1003 1100 VED BY 114	<u>>) pH4_3 y</u>	91 900

4 44 4 89 8

<u> </u>	WAT	ER SAMPL	E FIELD	DATA SH	EET	Rev 1/95
OWT	PURGED BY SAMPLED BY		<u>505</u>		San lea	ndro, (
TYPE Grou CASING DIAM	Indwater X ETER (inches)	Surface Water_ 2 3	4 <u></u>	eachate 4.5	6 Other	
DEPTI	H OF WELL (feet)	NR 17.5 7.80		UME IN CASING ULATED PURGE JAL PURGE VOL		
DATE	PURGED : _2- SAMPLED :	-11 - 99	SAM	END PURGE :	1023	
		/	 	TEMPERATURE	COLOR	TURBIDIT
(2400 HR)	(gal) (c. 5	(units) (µ	mhos/cm@25*c)	(°F)	Cloudy	mos
1020 1023	13.0	7.09	862 851	<u>63.7</u> <u>(44.1</u>	<u> </u>	//
OTHER:		TED AT THIS WELL	_			(NTU 0-20
	GING EQUIPMEN		·		<u>3 EQUIPMENT</u>	(Teflon)
	er Pump	Bailer (Teflon) Bailer (PVC)	<u> </u>	Bomb Sampler	Bailer	Stainless Ste
Centrifug Submers Well Wiz	ible Pump	Bailer (Stamless Ste		Dipper Well Wizard™	Subme	irsible Pump ited
Other:				her:		
			ta ker	1	LOCK:	ARIO
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		<u></u>				
				·		
oH, E.C., Temp. M E.C. 1000	leter Calibration Dat		Тіте: ООрн 1() <i>110 С</i>	er Senal No <u>2</u> 20 pH 4	

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Historical Monitoring Well Data EMCON Associates - Field Services 1999 ARCO 2162 1921 Ringwood Avenue 21775-293.004 San Jose, California Gallons First 71.00 Second 51.50 Well Did Purge Third 32.50 Volume Contained Well ID Quarter Date well Fourth 30.50 Product (gallons) dry 17.00 NO NO MW-1 02/11/99 First NO 05/14/98 17.00 NO Second Third 07/31/98 0.00 GRAB NO NO GRAB Fourth 10/12/98 0.00 NO NO MW-2 First 02/11/99 18.50 NO NO Second 05/14/98 19.00 NO Third 07/31/98 17.50 NO NO Fourth 10/12/98 16.50 NO NO MW-3 NO First 02/11/99 16.00 NO NO Second 05/14/98 15.50 07/31/98 NO NO Third 15.00 10/12/98 14.00 NO NO Fourth NO NO MW-4 19.50 First 02/11/99 05/14/98 0.00 GRAB NO Second GRAB NO 0.00 Third 07/31/98 NO Fourth 10/12/98 0.00 GRAB First Second Third Fourth Steam water (gal) First Second Third Fourth

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ARCO	D Pr Division	odu n of Atla	cts (hfield C	ompany	,			Task Order N	lo.	411	9.	00	$\overline{\boldsymbol{\lambda}}$							(Chai	n of Custody
ARCO Fa	-	- 4. I.	62		City (Facility	129	"ILE	GR	CIC	Proje (Con	ect ma sultar	nager ht)	\mathcal{C}	lei	oV	Or	de	Ý	Ve	ϵ_{h}			Laboratory Name
ARCO engineer / CC/C/C/C/C (ARCO)								Telephone no (409)453-77 (C Fax no. (Consultant) (400)437-9570													Contract Number		
Consultar	it name	1-1	ЮĊ	<u>A</u> f					Address Consultant) //	4.1	\overline{M}	aut	eu	W	01	Hic	alne	tC	iee	$=K_{i}$	A	CHIC	10
		ġ	Matrix			Prese	rvation				άh	/						emi D VOAD	A 6010/7000	J 20/7421⊡			Mathed of chinmont
Sample I.D.	Lab no.	Container no.	Soil	Water	Other	lce	Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH / / /	TPH Modified 8015 Gas 🗇 Diesel 🗇	Oil and Grease 413.1 0 413.2	TPH EPA 418.1/SM 5	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Si MetalsO VOAO	CAM Metals EP/ TTLCC3 STLC	Lead Org/OHSO			SGMITCT WILL delivev Special Detection
 F/[[]-3]	ļ		1	X		\overline{X}	IKI		1010		X												Limit/reporting
111/ -> 111/_Z.	1917 U.N	2		$\overline{\mathbf{X}}$		$\hat{\mathbf{x}}$	HCL		1030		X							\square	 				Lowest
1/11/-1	V 7.	7	<u> </u>	$\overline{\mathbf{x}}$		\mathbf{x}	HCL		1050		X							<u> </u>	╁┈╼	+			Possille
AU-2	17-1 17-1			$\mathbf{\hat{\mathbf{x}}}$		$\overline{\times}$	HCL		1110		X						<u>†</u>						Special QA/QC
7.00-2																							Ac
																							Remarks
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			<u> </u>								 			ļ					<u> </u>				Lab Number
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													1			<u> </u>			1				2 Business Days / 🗆
Condition of sample:										Temperature received:												Expedited 5 Business Days	
Sten Michell 1/11/99										Received by											Standard		
	_						Date													10 Business Days			
Relinguished by Date Time									Received by laboratory Date										Time)			

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