

1921 Ringwood Avenue
San Jose, CA 95131-1721
Tel. 408.453.7300
Fax. 408.437.9526



Quarterly Groundwater Monitoring Report Fourth Quarter 1999

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

Prepared for

Mr. Michael Whelan
ARCO Products Company

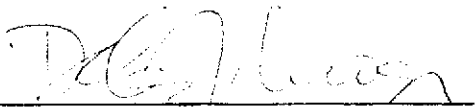
June 5, 2000

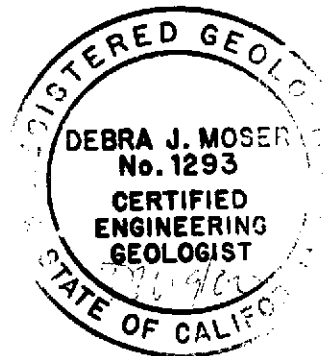
Prepared by

IT Corporation
1921 Ringwood Avenue
San Jose, California 95131-1721

Project 330-006.2P


Shaw Garakani
Project Engineer


Debra J. Moser
Senior Geologist
CEG 1293



Date: June 5, 2000

Quarter: 4Q99

ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 0608 Address: 17601 Hesperian Boulevard at Hacienda Avenue

San Lorenzo, California

ARCO Environmental Engineer: Michael Whelan

Consulting Co./Contact Person: IT Corporation (IT)/formerly Pacific Environmental Group, Inc. (PEG) – Debra J. Moser

Consultant Project No.: 330-006.2P

Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency

Monitoring Events Performed to Date: 43

WORK PERFORMED THIS QUARTER (Fourth – 1999):

1. Submitted third quarter 1999 groundwater monitoring report.
2. Performed fourth quarter 1999 groundwater monitoring event on December 8 and 9, 1999.
3. Prepared fourth quarter 1999 groundwater monitoring report.
4. Continued monthly payments to homeowners for not using domestic irrigation wells.
5. Continued homeowner quarterly monitoring results notification program.

WORK PROPOSED FOR NEXT QUARTER (First – 2000):

1. Submit fourth quarter 1999 groundwater monitoring report.
2. Perform first quarter 2000 groundwater monitoring event.
3. Prepare first quarter 2000 groundwater monitoring report.
4. Continue monthly payments to homeowners for not using domestic irrigation wells.
5. Continue homeowner quarterly monitoring results notification program.

Current Phase of Project:	<u>Monitoring</u>	(Assmnt, Remed., etc.)
Frequency of Groundwater Sampling:	<u>Quarterly</u>	(Quarterly, etc.)
Frequency of Groundwater Monitoring:	<u>Quarterly</u>	(Monthly, etc.)
Is Free Product (FP) Present On-Site:	<u>No</u>	(Yes/No)
FP Recovered this Quarter:	<u>None</u>	(gallons)
Cumulative FP Recovered to Date:	<u>None</u>	(gallons)
Bulk Soil Removed This Quarter:	<u>None</u>	(cubic yards)
Bulk Soil Removed to Date:	<u>200</u>	(cubic yards)
Current Remediation Techniques:	<u>Natural Attenuation</u>	(SVE/Sparge/FP Removal, etc.)
Approximate Depth to Groundwater:	<u>9.84 to 12.57</u>	(Measure Feet)
Groundwater Gradient:	<u>West</u>	(Direction)
	<u>0.009</u>	(Magnitude)
Period TPPH-g/Benzene Removed:	<u>0.0/0.0</u>	(gallons)
Cumulative TPPH-g/Benzene Removed:	<u>0.8/0.04</u>	(gallons)

DISCUSSION:

- Please refer to PEG's *Quarterly Groundwater Monitoring Report – Fourth Quarter 1996* for historical groundwater elevation and analytical data.
- As indicated in PEG's *Quarterly Groundwater Monitoring Report – Fourth Quarter 1998*, effective second quarter 1999, the frequency of groundwater monitoring has been reduced as follows:

Wells MW-7, MW-13, MW-19, and MW-24 are removed from the monitoring program since they are located upgradient or crossgradient from the site, and the extent of the plume has been defined by other nearby monitoring wells. The frequency of groundwater sampling at Wells MW-14, MW-18, MW-21, MW-23, and MW-26 is reduced from quarterly to annually during the first quarter. These wells are either located crossgradient from the site, or the extent of the plume has been defined by other nearby monitoring wells.

ATTACHMENTS:

- Table 1 - Groundwater Sampling Schedule
- Table 2 - Groundwater Elevation and Analytical Data – Groundwater Monitoring Wells
- Table 3 - Groundwater Analytical Data – Domestic Irrigation Wells
- Figure 1 – Site Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 - TPPH-g/Benzene Concentration Map
- Attachment A - Field and Laboratory Procedures
- Attachment B - Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets

cc: Mr. Amir K. Gholami, REHS, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Alameda, CA 94502
Mr. Ron Sykora/Mr. Robert L. Webster, David D. Bohannon Organization, 60 Hillsdale Mall, San Mateo, CA 94403
Mr. Chuck Headlee, Regional Water Quality Control Board - San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612
Dr. Charles Lapin, ARCO Products Company, 444 South Flower Street, ALF 3470, Los Angeles, CA 90071

Table 1
Groundwater Sampling Schedule

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

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Sampling Frequency
MW-5	a	a	a	a	Quarterly
MW-7	Removed from Program				
MW-8	a	a	a	a	Quarterly
MW-9	a	a	a	a	Quarterly
MW-10	a	a	a	a	Quarterly
MW-11	a	a	a	a	Quarterly
E-1A	a	a	a	a	Quarterly
MW-13	Removed from Program				
MW-14	a				Annually
MW-15	a	a	a	a	Quarterly
MW-16	a	a	a	a	Quarterly
MW-17	Destroyed				
MW-18	a				Annually
MW-19	Removed from Program				
MW-20	Destroyed				
MW-21	a				Annually
MW-22	a	a	a	a	Quarterly
MW-23	a				Annually
MW-24	Removed from Program				
MW-25	a	a	a	a	Quarterly
MW-26	a				Annually
Domestic Irrigation Wells					
590H	a	a	a	a	Quarterly
633H	a	a	a	a	Quarterly
634H	a	a	a	a	Quarterly
642H	a	a	a	a	Quarterly
675H	a	a	a	a	Quarterly
17197 VM	a	a	a	a	Quarterly

Table 1 (continued)
Groundwater Sampling Schedule

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

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Sampling Frequency
Domestic Irrigation Wells (cont.)					
17200 VM	-----Destroyed-----				
17203 VM	a	a	a	a	Quarterly
17302 VM	a	a	a	a	Quarterly
17348 VE	a	a	a	a	Quarterly
17349 VM	a	a	a	a	Quarterly
17371 VM	a	a	a	a	Quarterly
17372 VM	a	a	a	a	Quarterly
17393 VM	-----Destroyed-----				
a. Samples analyzed for TPH-g, BTEX compounds, and MtBE according to EPA Methods 8015 (modified) and 8020.					

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells
 Total Purgeable Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, MtBE, and Dissolved Oxygen)

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-5	†† 03/13,14/96	33.99	9.75	24.24	1,600	30	<10	13	<10	NA	NM
	05/28,29/96		11.48	22.51	240	2.4	<0.50	<0.50	<0.50	NA	NM
	08/28/96		12.58	21.41	250	210	8.0	<1.0	<1.0	210	NM
	11/25,26/96		12.07	21.92	<500	<5.0	<5.0	<5.0	<5.0	280	NM
	03/31/97 †		12.42	21.57	<50	<0.50	<0.50	<0.50	<0.50	41	NM
	06/25/97		12.64	21.35	NS	NS	NS	NS	NS	NS	NM
	09/09,10/97		12.75	21.24	<50	<0.50	<0.50	<0.50	<0.50	19	NM
	11/24,25/97		12.60	21.39	<50	0.9	<0.50	<0.50	<0.50	23	1.4
	03/19,20/98		10.43	23.56	61	1.0	0.56	0.55	<0.50	75	1.2
	06/04/98		11.24	22.75	150	<0.30	<0.30	0.32	0.74	20	1.4
	09/21,22/98		12.45	21.54	110	0.59	<0.50	<0.50	<0.50	25	1.8
	12/14,15/98		11.85	22.14	<200	<2.0	<2.0	<2.0	<2.0	600	1.2
	03/15,16/99		11.05	22.94	50.9	<0.50	<0.50	<0.50	<0.50	211	1.0
	06/14,15/99		12.25	21.74	211	<0.50	<0.50	<0.50	<0.50	212	1.2
09/15,16/99	12.70	21.29	139	<0.50	<0.50	<0.50	<0.50	184	2.4		
12/08,09/99	12.56	21.43	87.4	<0.50	<0.50	<0.50	<0.50	197	1.2		
MW-7	03/13,15/96	34.40	9.73	24.67	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28,29/96		11.60	22.80	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28,29/96		12.63	21.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25,26/96		12.10	22.30	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		11.72	22.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		12.98	21.42	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		12.25	22.15	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	11/24,25/97		12.57	21.83	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0
	03/19,20/98		10.35	24.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0
	06/04/98		11.30	23.10	<50	<0.30	<0.30	<0.30	<0.60	<10	0.7
	09/21,22/98		12.48	21.92	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4
	12/14,15/98		11.90	22.50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.2
	03/15,16/99		11.10	23.30	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.0
	06/14,15/99		----- Removed From Gauging and Sampling Program -----								
MW-8	03/13,14/96	32.79	8.90	23.89	670	5.1	<2.0	<2.0	<2.0	NA	NM
	05/28,29/96		10.58	22.21	490	<1.0	<1.0	0.91	0.91	NA	NM
	08/28/96		11.30	21.49	680	29	2.1	3.0	2.4	80	NM
	11/25/96		10.80	21.99	620	1.2	2.6	2.9	2.0	46	NM
	03/31-04/01/97		10.76	22.03	530	<1.0	1.7	2.0	3.8	380	NM
	06/25/97		11.65	21.14	480	6.7	0.69	0.8	0.71	88	NM
	09/09,10/97		11.67	21.12	570	57	<1.0	2.1	1.7	57	2.0

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

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-8 (cont.)	09/09,10/97	a	--	--	--	--	--	--	--	48	--
	11/24,25/97		11.50	21.29	530	3.0	1.7	1.9	1.5	26	2.0
	03/19,20/98		9.40	23.39	440	1.4	<0.50	<0.50	3.7	140	2.2
	06/03/98		10.25	22.54	360	2.2	1.2	1.8	1.0	47	0.3
	09/21,22/98		11.37	21.42	380	<2.5	<2.5	<2.5	<2.5	620	0.0
	12/14,15/98		10.80	21.99	<50	<0.50	<0.50	<0.50	<0.50	1,600	0.0
	03/15,16/99		10.00	22.79	<500	<5.0	<5.0	<5.0	<5.0	625	0.0
	06/14,15/99		11.17	21.62	166	<0.50	<0.50	<0.50	<0.50	141	NM
	09/15,16/99		11.65	21.14	<500	<5.0	<5.0	<5.0	<5.0	2,380	2.4
	12/08,09/99		11.48	21.31	213	<0.50	<0.50	<0.50	<0.50	4,160	2.8
MW-9	03/13,15/96	32.11	7.65	24.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		9.67	22.44	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28,29/96		10.78	21.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		10.24	21.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		9.95	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		10.85	21.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		10.87	21.24	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	11/24,25/97		10.70	21.41	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	03/19,20/98		8.63	23.48	<50	<0.50	<0.50	<0.50	<0.50	58	4.8
	06/04/98		9.35	22.76	<50	<0.30	<0.30	<0.30	<0.60	<10	2.0
	09/21,22/98		10.55	21.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	12/14,15/98		9.98	22.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	03/15,16/99		9.10	23.01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.0
	06/14,15/99		10.32	21.79	<50	<0.50	<0.50	<0.50	<0.50	3.27	2.2
	09/15,16/99		10.83	21.28	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.2
12/08,09/99		10.70	21.41	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6	
MW-10 ††	03/13,14/96	31.67	7.78	23.89	870	35	<5.0	5.2	7.0	NA	NM
	05/29/96		10.00	21.67	800	<1.0	<1.0	<1.0	<1.0	NA	NM
	08/28/96		10.93	20.74	NS	NS	NS	NS	NS	NS	NM
	11/25,26/96		10.45	21.22	1,100	6.0	4.9	3.8	9.5	200	NM
	03/31/97 †		10.15	21.52	160	<0.50	<0.50	<0.50	<0.50	140	NM
	06/25/97		10.99	20.68	800	4.2	1.4	1.5	1.4	170	NM
	09/09,10/97		11.08	20.59	950	<1.2	3.3	2.5	3.7	240	2.0
	09/09,10/97 a		--	--	--	--	--	--	--	210	--
	11/24,25/97		10.85	20.82	920	5.7	6.7	<5.0	<5.0	160	2.4
	11/24,25/97		--	--	--	--	--	--	--	160	--
	03/19/98		8.78	22.89	330	1.7	<0.50	<0.50	<0.50	130	1.0

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

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-10 (cont.)	06/04/98		9.59	22.08	680	<0.30	4.8	2.3	8.6	79	0.0
	09/21,22/98		10.77	20.90	650	<0.50	<0.50	3.5	1.3	99	0.0
	12/14/98		10.18	21.49	828	<1.0	<1.0	3.39	<1.0	152	0.4
	03/15,16/99		9.30	22.37	910	17.6	1.3	5.24	<1.0	268	0.0
	06/14,15/99		10.57	21.10	643	<0.50	0.761	1.13	1.35	232	NM
	09/15,16/99		11.03	20.64	655	<1.25	1.26	<1.25	<1.25	315	5.8
	12/08,09/99		10.88	20.79	898	5.7	1.29	<1.0	<1.0	236	5.6
MW-11	03/13,14/96	32.54	8.60	23.94	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		10.55	21.99	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		11.52	21.02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		11.00	21.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		10.88	21.66	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		11.65	20.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		11.75	20.79	80	<0.50	<0.50	<0.50	0.65	<2.5	2.0
	11/24,25/97		11.50	21.04	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.8
	03/19/98		9.43	23.11	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	06/03/98		10.27	22.27	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8
	09/21,22/98		11.43	21.11	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	12/14/98		10.85	21.69	<50	<0.50	<0.50	<0.50	<0.50	<2.0	1.4
	03/15,16/99		10.05	22.49	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.2
	06/14,15/99		11.25	21.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
	09/15/99		11.68	20.86	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.4
12/08,09/99		11.53	21.01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
E-1A †† (MW-12)	03/13,14/96	33.06	10.35	22.71	2,700	38	<5.0	130	6.2	NA	NM
	05/28,29/96		11.50	21.56	1,400	410	18	55	5.5	NA	NM
	08/28/96		11.70	21.36	NS	NS	NS	NS	NS	NS	NM
	11/25,26/96		11.18	21.88	4,300	13	<5.0	100	20	220	NM
	03/31/97 †		12.65	20.41	1,900	7.9	<2.0	62	3.5	140	NM
	06/25/97		11.82	21.24	4,900	21	<5.0	53	6.8	160	NM
	09/09,10/97		11.85	21.21	3,200	9.0	<5.0	45	<5.0	85	2.0
	09/09,10/97 a		--	--	--	--	--	--	--	70	--
	11/24,25/97		11.75	21.31	2,000	10	<2.5	42	2.8	65	1.0
	03/19,20/98		9.65	23.41	11,000	1,300	<0.50	550	380	220	6.2
	06/04/98 b		10.47	22.59	4,500	3.3	0.92	41	4.0	51	1.5
	09/21,22/98		11.60	21.46	3,300	1.7	<0.50	29	3.6	52	1.8
	12/14,15/98		11.10	21.96	3,100	21	6.7	28	<5.0	140	1.0
03/15,16/99		10.25	22.81	3,900	24.5	<20	41.2	<20	296	1.0	

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

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)	
E-1A (cont.)	06/14,15/99		11.47	21.59	5,090	<5.0	<5.0	6.01	<5.0	234	1.4	
	09/15,16/99		11.90	21.16	2,200	7.93	<5.0	10.50	<5.0	142	3.2	
	12/08,09/99		11.75	21.31	1,490	6.57	1.36	9.21	<1.25	364	NM	
MW-13	03/13,15/96	35.42	10.90	24.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28,29/96		12.90	22.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		13.89	21.53	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/96		13.41	22.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31-04/01/97		13.11	22.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		13.98	21.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09,10/97		14.09	21.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	11/24,25/97		13.90	21.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	03/19,20/98		11.80	23.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8	
	06/04/98		12.63	22.79	<50	<0.30	<0.30	<0.30	<0.60	<10	1.3	
	09/21,22/98		13.77	21.65	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	12/14,15/98		13.28	22.14	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	
	03/15,16/99 b		12.48	22.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	2.2
	06/14,15/99		----- Removed From Gauging and Sampling Program -----									
MW-14	03/13,15/96	30.46	6.63	23.83	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28/96		8.83	21.63	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		9.83	20.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/96		9.33	21.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31-04/01/97		9.04	21.42	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		9.94	20.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09,10/97		10.08	20.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	11/24,25/97		9.78	20.68	<50	<0.50	<0.50	<0.50	<0.50	2.9	2.6	
	03/19/98		7.92	22.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	06/03/98		8.52	21.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	
	09/21,22/98		9.72	20.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.8	
	12/14/98		9.15	21.31	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.8	
	03/15,16/99		8.20	22.26	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6	
	06/14,15/99		9.54	20.92	----- Well Sampled Annually -----							
09/15/99	9.98	20.48	----- Well Sampled Annually -----									
12/08,09/99	9.84	20.62	----- Well Sampled Annually -----									
MW-15	03/13,15/96	31.41	8.13	23.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28,29/96		10.30	21.11	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		11.30	20.11	<50	<0.50	<0.50	<0.50	<0.50	5.3	NM	

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

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)	
MW-15 (cont.)	11/25/96		10.83	20.58	<50	<0.50	<0.50	<0.50	<0.50	12	NM	
	03/31-04/01/97		10.45	20.96	<50	<0.50	<0.50	<0.50	<0.50	7.2	NM	
	06/25/97		11.39	20.02	<50	<0.50	<0.50	<0.50	<0.50	7.0	NM	
	09/09,10/97		11.50	19.91	Well Inaccessible							
	11/24,25/97		Well Inaccessible									
	03/19/98		9.15	22.26	<50	<0.50	<0.50	<0.50	<0.50	5.3	2.2	
	06/04/98		Well Inaccessible									
	09/21,22/98		Well Inaccessible									
	12/14/98		10.63	20.78	<50	<0.50	<0.50	<0.50	<0.50	48.2	1.8	
	03/15,16/99		Well Inaccessible									
	06/14,15/99		Well Inaccessible									
	09/15, 16/99		Well Inaccessible									
	12/08,09/99			11.28	20.13	<50	<0.5	<0.5	<0.5	<0.5	167.0	NM
	MW-16	03/13/96	31.39	8.62	22.77	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
05/28/96			10.90	20.49	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
08/28/96			11.84	19.55	<50	<0.50	<0.50	<0.50	<0.50	89	NM	
11/25/96			11.32	20.07	<50	<0.50	<0.50	<0.50	<0.50	66	NM	
03/31-04/01/97			11.06	20.33	<50	<0.50	<0.50	<0.50	<0.50	49	NM	
06/25/97			11.92	19.47	<50	<0.50	<0.50	<0.50	<0.50	59	NM	
09/09,10/97			12.03	19.36	<50	<0.50	<0.50	<0.50	<0.50	63	3.0	
09/09,10/97 a			--	--	--	--	--	--	--	86	--	
11/24,25/97			11.76	19.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
03/19/98			9.80	21.59	<50	<0.50	<0.50	<0.50	<0.50	8.4	3.0	
06/03/98			10.55	20.84	<50	<0.50	<0.50	<0.50	<0.50	22	1.6	
09/21,22/98			11.77	19.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.2	
12/14/98			11.20	20.19	<50	<0.50	<0.50	<0.50	<0.50	25	1.0	
03/15,16/99			10.30	21.09	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.6	
06/14,15/99		11.55	19.84	<50	<0.50	<0.50	<0.50	<0.50	3.13	3.4		
09/15/99		11.99	19.40	<50	<0.50	<0.50	<0.50	<0.50	8.70	3.8		
12/08,09/99		11.80	19.59	<50	<0.50	<0.50	<0.50	<0.50	10.1	2.4		
MW-17	Well Destroyed											
MW-18	03/13/96	29.70	7.53	22.17	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28/96		9.88	19.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		10.82	18.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/96		10.18	19.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31-04/01/97		10.14	19.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	

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

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-18 (cont.)	06/25/97		10.94	18.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		11.00	18.70	<50	<0.50	<0.50	<0.50	<0.50	<2.5	4.0
	11/24,25/97		10.65	19.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.4
	03/19/98		8.95	20.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	06/03/98		9.57	20.13	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.8
	09/21,22/98		10.80	18.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	12/14/98		10.18	19.52	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.6
	03/15,16/99		9.20	20.50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14,15/99		10.60	19.10	Well Sampled Annually						
	09/15/99		10.96	18.74	Well Sampled Annually						
	12/08,09/99		10.79	18.91	Well Sampled Annually						
MW-19	03/13/96	29.02	7.06	21.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		9.42	19.60	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		10.33	18.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		9.67	19.35	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		9.65	19.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		10.41	18.61	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		10.47	18.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	11/24,25/97		10.35	18.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6
	03/19/98		8.67	20.35	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/03/98		9.15	19.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2
	09/21,22/98		10.28	18.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	12/14/98		9.70	19.32	<50	<0.50	<0.50	0.588	0.647	<2.0	2.4
	03/15,16/99				Well Inaccessible						
	06/14,15/99				Removed From Gauging and Sampling Program						
MW-20				Well Destroyed							
MW-21	03/13/96	28.72	7.58	21.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28,29/96		9.85	18.87	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		10.75	17.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		10.00	18.72	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		10.03	18.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		10.83	17.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		10.90	17.82	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	11/24,25/97		10.50	18.22	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	03/19/98		9.08	19.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.08
	06/03/98		9.57	19.15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.6

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

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-21 (cont.)	09/21,22/98		10.75	17.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4
	12/14/98		10.11	18.61	<50	<0.50	<0.50	<0.50	<0.50	<2.0	0.6
	03/15,16/99		9.10	19.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14,15/99		10.58	18.14	----- Well Sampled Annually -----						
	09/15/99		10.93	17.79	----- Well Sampled Annually -----						
	12/08,09/99		10.70	18.02	----- Well Sampled Annually -----						
MW-22	03/13/96	29.29	7.83	21.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		10.33	18.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		11.28	18.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		10.61	18.68	<50	<0.50	<0.50	<0.50	<0.50	3.0	NM
	12/30/96		10.61	18.68	NA	NA	NA	NA	NA	3.3	NM
	03/31-04/01/97		10.56	18.73	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		11.51	17.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		11.45	17.84	<50	<0.50	<0.50	<0.50	<0.50	3.4	1.0
	11/24,25/97		11.08	18.21	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
	03/19/98		9.40	19.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	06/03/98		10.00	19.29	<50	<0.50	<0.50	<0.50	<0.50	0.87	3.2
	09/21,22/98		11.27	18.02	<50	<0.50	<0.50	<0.50	<0.50	2.1	2.8
	12/14/98		10.65	18.64	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4
	03/15,16/99		9.67	19.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4
	06/14,15/99		11.06	18.23	<50	<0.50	<0.50	<0.50	<0.50	5.05	1.0
	09/15/99 ^a		11.46	17.83	<50	<0.50	<0.50	<0.50	<0.50	49.2	1.2
12/08,09/99		11.25	18.04	<50	<0.50	<0.50	<0.50	<0.50	17.9	1.4	
MW-23	03/13/96	30.99	9.13	21.86	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		11.37	19.62	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		12.31	18.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		11.76	19.23	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		11.56	19.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		12.39	18.60	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		12.53	18.46	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	11/24,25/97		12.13	18.86	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	03/19/98		10.22	20.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
	06/03/98		11.03	19.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.3
	09/21,22/98		12.31	18.68	<50	<0.50	0.54	1.9	<0.50	<2.5	2.2
	12/14/98		11.67	19.32	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.0
	03/15,16/99		10.82	20.17	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6
	06/14,15/99		12.08	18.91	----- Well Sampled Annually -----						

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

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-23	09/15/99		12.48	18.51							
(cont.)	12/08,09/99		12.29	18.70							
								Well Sampled Annually			
								Well Sampled Annually			
MW-24	03/13,15/96	34.38	10.10	24.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		12.25	22.13	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		13.28	21.10	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		12.71	21.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		12.50	21.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		13.38	21.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		13.46	20.92	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0
	11/24,25/97		13.25	21.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/19,20/98		11.32	23.06	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	06/04/98		12.00	22.38	<50	<0.30	<0.30	<0.30	<0.60	<10	0.8
	09/21,22/98		13.13	21.25	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4
	12/14,15/98		12.53	21.85	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.2
	03/15,16/99		11.58	22.80	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.0
	06/14,15/99							Removed From Gauging and Sampling Program			
MW-25	03/13,14/96	34.12	9.61	24.51	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28,29/96		11.30	22.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28,29/96		12.32	21.80	<50	<0.50	<0.50	<0.50	<0.50	51	NM
	11/25/96		11.83	22.29	<50	<0.50	<0.50	<0.50	<0.50	110	NM
	03/31-04/01/97		11.55	22.57	<50	<0.50	<0.50	<0.50	<0.50	39	NM
	06/25/97		14.57	19.55	<50	<0.50	<0.50	<0.50	<0.50	49	NM
	09/09,10/97		12.45	21.67	<50	<0.50	<0.50	<0.50	<0.50	78	1.0
	09/09,10/97 a		--	--	--	--	--	--	--	79	--
	11/24,25/97		12.30	21.82	<50	<0.50	<0.50	<0.50	<0.50	130	0.0
	03/19,20/98		10.18	23.94	<50	<0.50	<0.50	<0.50	<0.50	96	1.8
	06/04/98		11.00	23.12	<50	<0.30	<0.30	<0.30	<0.60	94	0.8
	09/21,22/98		12.13	21.99	<50	<0.50	<0.50	<0.50	<0.50	150	0.4
	12/14,15/98		11.60	22.52	<50	<0.50	<0.50	<0.50	<0.50	44	1.0
	03/15,16/99		10.78	23.34	<50	<0.50	<0.50	<0.50	<0.50	26.6	2.0
	06/14,15/99		11.97	22.15	<50	<0.50	<0.50	<0.50	<0.50	98.9	2.2
	09/15,16/1999		12.34	21.78	<50	<0.50	<0.50	<0.50	<0.50	66.4	NM
	12/08,09/99		12.25	21.87	<50	<0.50	<0.50	<0.50	<0.50	55.5	0.0
MW-26	03/13,15/96	33.71	9.38	24.33	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		11.57	22.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28,29/96		12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM

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

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)	
MW-26	11/25/96		12.03	21.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
(cont.)	03/31-04/01/97		11.84	21.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		12.94	20.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09,10/97		12.77	20.94	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0	
	11/24,25/97		12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6	
	03/19,20/98		10.55	23.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6	
	06/04/98		11.22	22.49	<50	<0.30	<0.30	<0.30	<0.60	<10	2.1	
	09/21,22/98		12.45	21.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	12/14,15/98		11.83	21.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0	
	03/15,16/99		10.86	22.85	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
	06/14,15/99		12.17	21.54	----- Well Sampled Annually -----							
	09/15/99		12.70	21.01	----- Well Sampled Annually -----							
	12/08,09/99		12.57	21.14	----- Well Sampled Annually -----							
MtBE	= Methyl tert-butyl ether				NA	= Not analyzed						
MSL	= Mean sea level				NM	= Not measured						
TOB	= Top of box				NS	= Not sampled						
ppb	= Parts per billion				a.	MtBE result confirmed by EPA Method 8260.						
ppm	= Parts per million				b.	Depths to water originally measured from TOC. Depth to water adjusted to reflect a TOB measurement by adding the average difference between TOB and TOC measurements over the last four gauging events.						
<	= Less than laboratory detection limit stated to the right.											
†	= Well sampled without purging.											
††	= ORC program at well was initiated on September 21, 1995 and discontinued on May 15, 1997.											

Table 3

Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, MtBE, and Dissolved Oxygen)

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

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

Table 3 (continued)

Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, MtBE, and Dissolved Oxygen)

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

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
642 H	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97	NS	NS	NS	NS	NS	NS	NM
	09/09/97 a	NS	NS	NS	NS	NS	NS	NM
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/19/98 a	NS	NS	NS	NS	NS	NS	NM
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM
	09/21/98 a	NS	NS	NS	NS	NS	NS	NM
	12/14/98 a	NS	NS	NS	NS	NS	NS	NM
	03/15/99 a	NS	NS	NS	NS	NS	NS	NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.2	
12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4	
675 H	03/13/96 a	NS	NS	NS	NS	NS	NA	NM
	05/27/96 a	NS	NS	NS	NS	NS	NA	NM
	08/29/96 d	NS	NS	NS	NS	NS	NA	NM
	11/26/96	NS	NS	NS	NS	NS	NS	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM
	03/19/98 f	NS	NS	NS	NS	NS	NS	NM
	06/03/98 f	NS	NS	NS	NS	NS	NS	NM
	09/21/98 a,f	NS	NS	NS	NS	NS	NS	NM
	12/14/98 f	NS	NS	NS	NS	NS	NS	NM
	03/15/99 f	NS	NS	NS	NS	NS	NS	NM
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM
09/15/99 f	NS	NS	NS	NS	NS	NS	NM	
12/08/99 f	NS	NS	NS	NS	NS	NS	NM	
17197 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	12/14/98	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4
	03/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.6
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
12/08/99 a	NS	NS	NS	NS	NS	NS	NM	
17200 VM	03/15/96	730	<1.0	<1.0	1.5	1.7	NA	NM
	05/27/96	200	<0.50	<0.50	1.4	1.8	NA	NM
	08/29/96	Well Destroyed						

Table 3 (continued)

Domestic Irrigation Wells
 Total Purgeable Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, MtBE, and Dissolved Oxygen)

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

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)	
17203 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31/97 f	NS	NS	NS	NS	NS	NS	NM	
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM	
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM	
	03/19/98	Well Dry							
	06/03/98 f	NS	NS	NS	NS	NS	NS	NS	NM
	09/21/98 f	NS	NS	NS	NS	NS	NS	NS	NM
	12/14/98 f	NS	NS	NS	NS	NS	NS	NS	NM
	03/15/99 f	NS	NS	NS	NS	NS	NS	NS	NM
	06/14/99 f	NS	NS	NS	NS	NS	NS	NS	NM
	09/15/99 f	NS	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NS	NM
	17302 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
05/27/96		<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
08/29/96		<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
11/26/96		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
03/31/97		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
09/09/97 f		NS	NS	NS	NS	NS	NS	NM	
11/24/97 f		NS	NS	NS	NS	NS	NS	NM	
03/19/98 f		NS	NS	NS	NS	NS	NS	NM	
06/03/98 f		NS	NS	NS	NS	NS	NS	NM	
09/21/98 f		NS	NS	NS	NS	NS	NS	NM	
12/14/98 f		NS	NS	NS	NS	NS	NS	NM	
03/15/99 f		NS	NS	NS	NS	NS	NS	NM	
06/14/99 f		NS	NS	NS	NS	NS	NS	NM	
09/15/99 f		NS	NS	NS	NS	NS	NS	NM	
12/08/99 f		NS	NS	NS	NS	NS	NS	NM	
17348 VE		03/13/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/27/96	Well Dry						
	08/29/96	Well Dry							
	11/26/96	Well Dry							
	03/31/97	Well Dry							
	06/25/97	Well Inaccessible							
	09/09/97 g	NS	NS	NS	NS	NS	NS	NS	NM
	11/24/97 g	NS	NS	NS	NS	NS	NS	NS	NM
	03/19/98 a	NS	NS	NS	NS	NS	NS	NS	NM
	06/03/98 a	NS	NS	NS	NS	NS	NS	NS	NM
	09/21/98 a	NS	NS	NS	NS	NS	NS	NS	NM
	12/14/98 a	NS	NS	NS	NS	NS	NS	NS	NM
	03/15/99 a	NS	NS	NS	NS	NS	NS	NS	NM
	06/14/99 f	NS	NS	NS	NS	NS	NS	NS	NM
	09/15/99 f	NS	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NS	NM
	17349 VM	03/15/96	1,700	<2.0	<2.0	2.5	13	NA	NM
05/27/96		320	4.2	1.3	0.95	0.71	NA	NM	
08/29/96		410	7.5	<0.50	<0.50	1.1	NA	NM	

Table 3 (continued)

Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, MIBE, and Dissolved Oxygen)

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)	MIBE (ppb)	Dissolved Oxygen (ppm)
17349 VM	11/26/96	300	<1.0	1.7	<1.0	2.1	55 *	NM
(cont.)	03/31/97	430	<1.0	2.7	<1.0	1.0	57 c	NM
	06/25/97 **	2,100	30	<5.0	<5.0	6.7	140	NM
	08/18/97	320	2.0	<0.5	<0.5	<0.5	34	NM
	08/18/97	--	--	--	--	--	31 c	NM
	09/09/97	380	6.0	1.4	0.98	<0.50	38	3.0
	09/09/97	--	--	--	--	--	34 c	NM
	11/24/97	240	<1.0	1.1	<1.0	1.4	53	2.4
	11/24/97	--	--	--	--	--	33 c	NM
	03/19/98	1,300	14	<0.50	<0.50	1.2	250	1.0
	03/19/98	--	--	--	--	--	27 c	NM
	06/03/98	860	8.7	<0.50	0.7	8.0	38	4.9
	07/29/98	860	20	2.1	<1.2	<1.2	27	NM
	07/29/98	--	--	--	--	--	25 c	NM
	09/21/98	200	<0.50	<0.50	<0.50	14	14	5.2
	12/14/98	254	<0.50	6.92	0.604	1.58	21.7	1.0
	03/15/99	172	1.35	<0.50	<0.50	<0.50	24.2	3.6
	06/14/99	91	<0.50	3.53	<0.50	<0.50	88.3	2.8
	09/15/99 a	133	<0.50	<0.50	<0.50	<0.50	184	2.2
	12/08/99	136	0.681	<0.50	<0.50	<0.50	267 c	2.4
17371 VM	03/13/96 e	NS	NS	NS	NS	NS	NA	NM
	05/27/96 e	NS	NS	NS	NS	NS	NA	NM
	08/29/96 e	NS	NS	NS	NS	NS	NA	NM
	11/26/96 e	NS	NS	NS	NS	NS	NS	NM
	03/31/97 e	NS	NS	NS	NS	NS	NS	NM
	06/25/97 e	NS	NS	NS	NS	NS	NS	NM
	09/09/97 e	NS	NS	NS	NS	NS	NS	NM
	11/24/97 e	NS	NS	NS	NS	NS	NS	NM
	03/19/98 e	NS	NS	NS	NS	NS	NS	NM
	06/03/98 e	NS	NS	NS	NS	NS	NS	NM
	09/21/98 e	NS	NS	NS	NS	NS	NS	NM
	12/14/98 e	NS	NS	NS	NS	NS	NS	NM
	03/15/99 e	NS	NS	NS	NS	NS	NS	NM
	06/14/99 e	NS	NS	NS	NS	NS	NS	NM
	09/15/99 e	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
17372 VM	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	4.0
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	1,200	1.8
	03/19/98	--	--	--	--	--	1,400 c	NM
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	16,000	1.8
	07/29/98	<200	<2.0	<2.0	<2.0	<2.0	940	NM
	07/29/98	--	--	--	--	--	1,100 c	NM
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	200	1.6
	09/21/98	--	--	--	--	--	360 c	NM
	12/14/98	<50	<0.50	0.823	<0.50	<0.50	20.1	3.8

Table 3 (continued)

Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, MtBE, and Dissolved Oxygen)

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

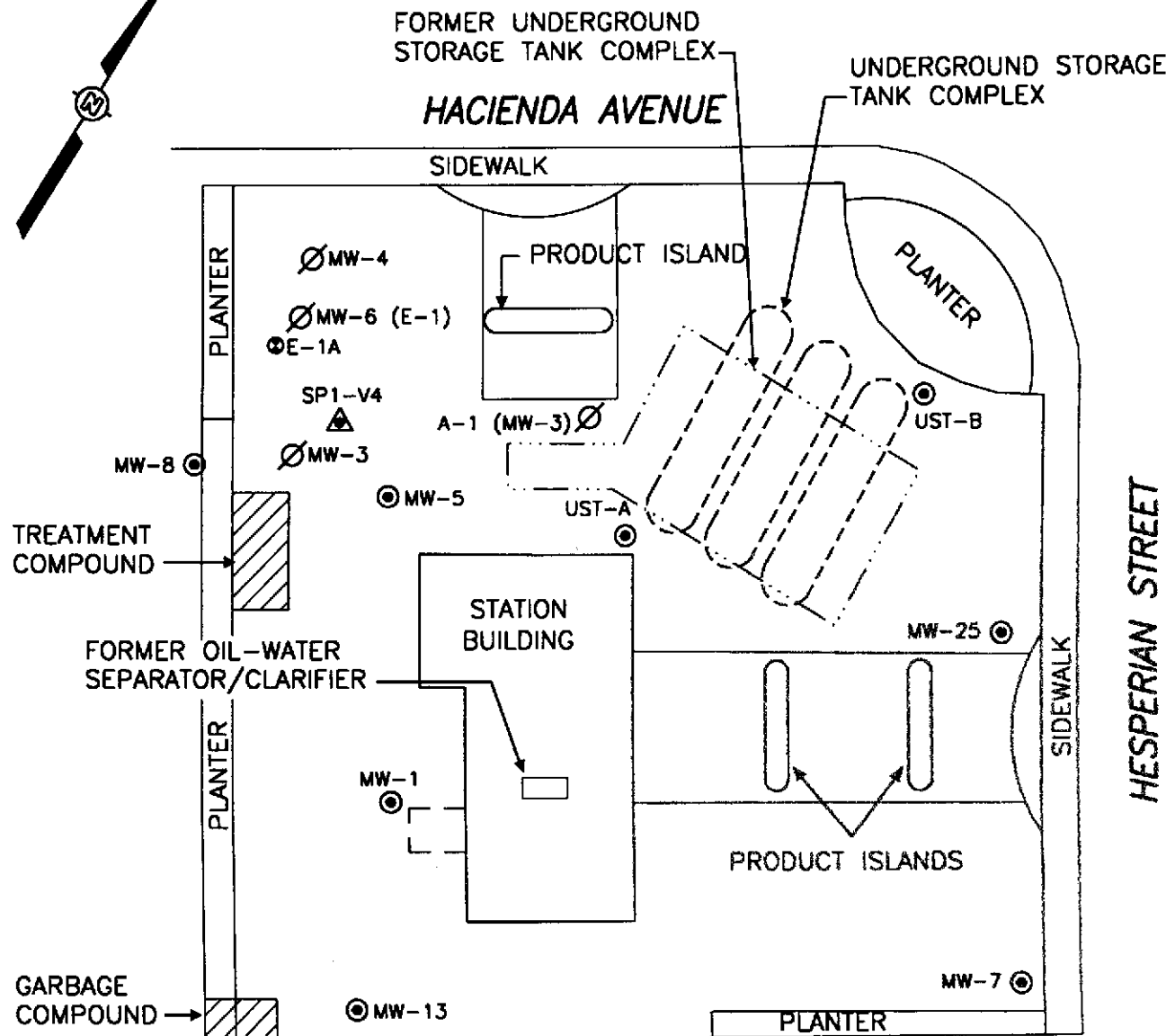
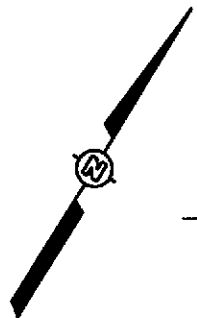
Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
17372 VM (cont.)	03/15/99	<50	<0.50	<0.50	<0.50	<0.50	6.66	4.6
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	3.33	4.0
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.0
	12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NM
17393 VM	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97 a	NS	NS	NS	NS	NS	NS	NM
	06/25/97	----- Well Destroyed -----						
TPPH = Total purgeable petroleum hydrocarbons MIBE = Methyl tert-butyl ether NA = Not analyzed NS = Not sampled ppb = Parts per billion H = Hacienda Avenue VM = Via Magdalena VE = Via Encinas < = Less than laboratory detection limit stated to the right. * = MtBE data maybe anomalous; unable to confirm with EPA Method 8260. ** = Concentration data are suspect due to inadequate purging. Well resampled on August 18, 1997 for confirmation purposes. a. Owner not available to approve sampling access; well not sampled. b. Well resampled to confirm data of March 14, 1996. c. MtBE result confirmed by EPA Method 8260. d. Pumping equipment obstructing sampling access; well not sampled. e. Access denied by owner; well not sampled. f. Pump on well does not work. g. Well blocked and pump non-operational; well cannot be sampled. Note: Homeowners are contacted 1 week prior to sampling event.								

PROJECT NUMBER 330-006.2Q

APPROVED BY

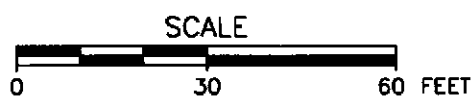
CHECKED BY

DRAWN BY L. Wahlgren 3-9-00



LEGEND

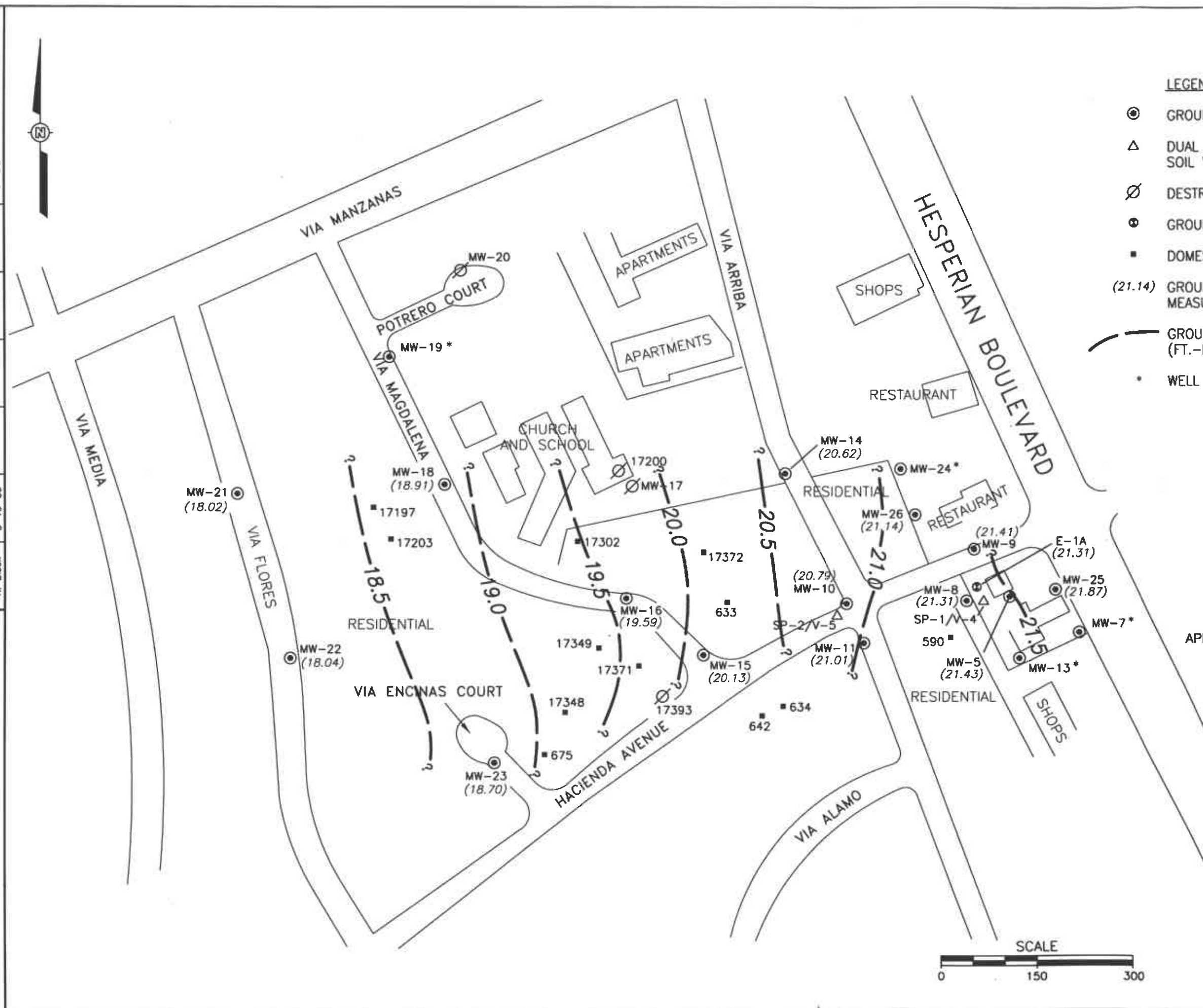
- ⊙ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER EXTRACTION WELL
- ∅ DESTROYED GROUNDWATER MONITORING WELL
- △ DUAL VAPOR EXTRACTION/SPARSE WELL



ARCO SERVICE STATION 0608

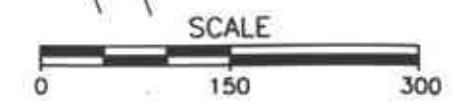
**FIGURE 1
SITE MAP**

17601 HESPERIAN BLVD AT HACIENDA AVE
SAN LORENZO, CALIFORNIA



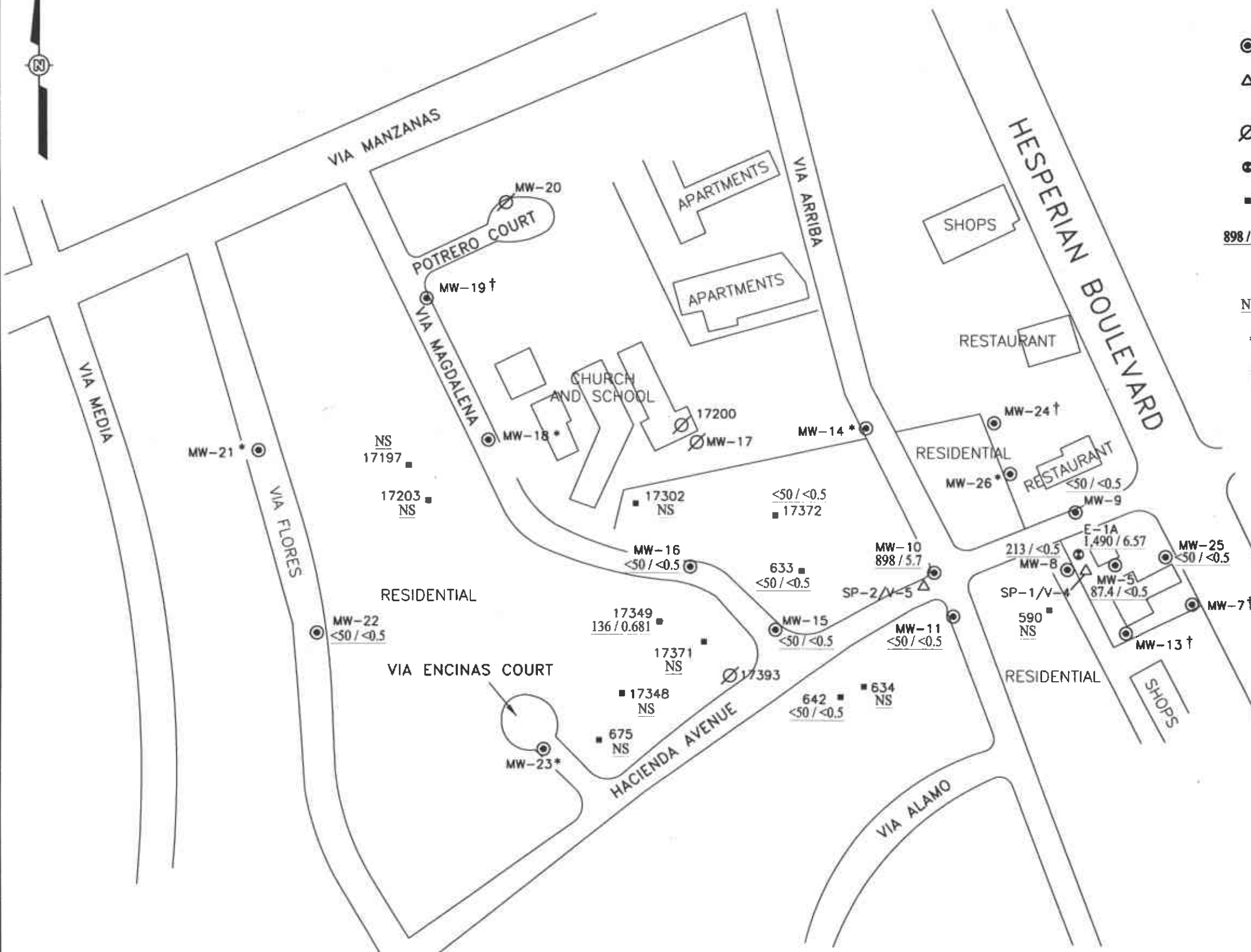
- LEGEND**
- ⊙ GROUNDWATER MONITORING WELL
 - △ DUAL COMPLETION AIR SPARGING/ SOIL VAPOR EXTRACTION WELL
 - ∅ DESTROYED WELL
 - ⊕ GROUNDWATER EXTRACTION WELL
 - DOMESTIC IRRIGATION WELL
 - (21.14) GROUNDWATER ELEVATION (FT.-MSL); MEASURED 12/8/99
 - GROUNDWATER ELEVATION CONTOUR (FT.-MSL)
 - * WELL REMOVED FROM MONITORING PROGRAM

←
APPROXIMATE DIRECTION
OR GROUNDWATER FLOW
APPROXIMATE GRADIENT = 0.009

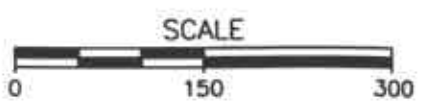


IT IT CORPORATION	ARCO SERVICE STATION 0608
	FIGURE 2 GROUNDWATER ELEVATION CONTOUR MAP FOURTH QUARTER 1999 17601 HESPERIAN BLVD at HACIENDA AVE SAN LORENZO, CALIFORNIA

PROJECT NUMBER 330-006.2Q
 APPROVED BY
 CHECKED BY
 DRAWN BY K. Block 5-19-00



- LEGEND**
- ⊙ GROUNDWATER MONITORING WELL
 - △ DUAL COMPLETION AIR SPARGING/ SOIL VAPOR EXTRACTION WELL
 - ∅ DESTROYED WELL
 - GROUNDWATER EXTRACTION WELL
 - DOMESTIC IRRIGATION WELL
- 898/5.7 TPPH-g/BENZENE CONCENTRATIONS IN GROUNDWATER (PARTS PER BILLION); SAMPLED 12-8-99
- NS NOT SAMPLED
 - * WELL SAMPLED ANNUALLY
 - † WELL REMOVED FROM SAMPLING PROGRAM



	ARCO SERVICE STATION 0608
	<p>FIGURE 3 TPPH-g/BENZENE CONCENTRATION MAP FOURTH QUARTER 1999 17601 HESPERIAN BLVD at HACIENDA AVE SAN LORENZO, CALIFORNIA</p>

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.

Analytical Procedures

Laboratory. The groundwater samples were analyzed for the presence of total purgeable petroleum hydrocarbons; benzene, toluene, ethylbenzene, and xylenes; and methyl tert-butyl ether. The analyses were performed according to EPA Methods 8015 (modified) and 8020, 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 report. The certified analytical report, chain-of-custody documentation, and field data sheets are presented as Attachment B.

Field. Dissolved oxygen is measured in the field utilizing Hydac AccuVac test kit.

ATTACHMENT B

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

ATTACHMENT B

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



Sequoia Analytical

JAN 03 2000

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

December 30, 1999

Shaw Garakani
Pacific Environmental Group/IT
1921 Ringwood Ave.
San Jose, CA 95131

RE:L912093

Dear Shaw Garakani:

Enclosed are the results of analyses for sample(s) received by the laboratory on December 10, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for
Tim Costello
Lab Director

CA ELAP Certificate Number I-2360





Pacific Environmental Group/IT
1921 Ringwood Ave.
San Jose, CA 95131

Project: -
Project Number: 33000620
Project Manager: Shaw Garakani

Sampled: 12/8/99
Received: 12/10/99
Reported: 12/30/99

ANALYTICAL REPORT FOR L912093

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW9	L912093-01	Water	12/8/99
MW10	L912093-02	Water	12/8/99
MW11	L912093-03	Water	12/8/99
MW15	L912093-04	Water	12/8/99
MW16	L912093-05	Water	12/8/99
MW22	L912093-06	Water	12/8/99
63314 633 H	L912093-07	Water	12/8/99
64214 642 H	L912093-08	Water	12/8/99
17349VM	L912093-09	Water	12/8/99
17372VM	L912093-10	Water	12/8/99





Sequoia Analytical

1551 Industrial Road
 San Carlos, CA 94070-4111
 (650) 232-9600
 FAX (650) 232-9612

Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Sample Description: MW9
Laboratory Sample Number: L912093-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9120091	12/20/99	12/20/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		109	%	





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Sample Description: MW10
Laboratory Sample Number: L912093-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9120098	12/21/99	12/22/99		100	898	ug/l	1
Benzene	"	"	"		1.00	5.70	"	
Toluene	"	"	"		1.00	1.29	"	
Ethylbenzene	"	"	"		1.00	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Methyl tert-butyl ether	"	"	"		10.0	236	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		97.1	%	





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Sample Description: MW16
Laboratory Sample Number: L912093-05

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9120085	12/17/99	12/17/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	10.1	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		83.2	%	





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Sample Description: MW22
Laboratory Sample Number: L912093-06

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9120099	12/21/99	12/22/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	17.9	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		96.1	%	





Sequoia Analytical

1551 Industrial Road
 San Carlos, CA 94070-4111
 (650) 232-9600
 FAX (650) 232-9612

Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Sample Description:
 Laboratory Sample Number: 63314 633 H
 L912093-07

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9120085	12/17/99	12/17/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		75.1	%	





Sequoia Analytical

1551 Industrial Road
 San Carlos, CA 94070-4111
 (650) 232-9600
 FAX (650) 232-9612

Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Sample Description:
 Laboratory Sample Number: ~~64214~~ 642 H
 L912093-08

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9120086	12/17/99	12/17/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		91.1	%	





Sequoia Analytical

1551 Industrial Road
 San Carlos, CA 94070-4111
 (650) 232-9600
 FAX (650) 232-9612

Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Sample Description: 17349VM
Laboratory Sample Number: L912093-09

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9120099	12/21/99	12/22/99		50.0	136	ug/l	2
Benzene	"	"	"		0.500	0.681	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	202	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		96.0	%	

MTBE by EPA Method 8260A

Methyl tert-butyl ether	9120144	12/29/99	12/30/99		4.00	267	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	76.0-114		103	%	





Sequoia Analytical

1551 Industrial Road
 San Carlos, CA 94070-4111
 (650) 232-9600
 FAX (650) 232-9612

Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Sample Description: 17372VM
Laboratory Sample Number: L912093-10

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9120091	12/20/99	12/21/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		114	%	





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9120085			Date Prepared: 12/17/99		Extraction Method: EPA 5030B [P/T]					
Blank			9120085-BLK2							
Purgeable Hydrocarbons as Gasoline	12/17/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.52	"	70.0-130	95.2			
CS			9120085-BS3							
Benzene	12/17/99	10.0		8.27	ug/l	70.0-130	82.7			
Toluene	"	10.0		8.17	"	70.0-130	81.7			
Ethylbenzene	"	10.0		8.41	"	70.0-130	84.1			
Xylenes (total)	"	30.0		25.2	"	70.0-130	84.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.65	"	70.0-130	96.5			
CS			9120085-BS4							
Purgeable Hydrocarbons as Gasoline	12/17/99	250		263	ug/l	70.0-130	105			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.33	"	70.0-130	83.3			
Matrix Spike			9120085-MS1 L912093-05							
Benzene	12/17/99	10.0	ND	8.04	ug/l	60.0-140	80.4			
Toluene	"	10.0	ND	7.89	"	60.0-140	78.9			
Ethylbenzene	"	10.0	ND	8.08	"	60.0-140	80.8			
Xylenes (total)	"	30.0	ND	24.2	"	60.0-140	80.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.32	"	70.0-130	73.2			
Matrix Spike Dup			9120085-MSD1 L912093-05							
Benzene	12/17/99	10.0	ND	7.64	ug/l	60.0-140	76.4	25.0	5.10	
Toluene	"	10.0	ND	7.54	"	60.0-140	75.4	25.0	4.54	
Ethylbenzene	"	10.0	ND	7.70	"	60.0-140	77.0	25.0	4.82	
Xylenes (total)	"	30.0	ND	23.2	"	60.0-140	77.3	25.0	4.30	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.28	"	70.0-130	72.8			
Batch: 9120086			Date Prepared: 12/17/99		Extraction Method: EPA 5030B [P/T]					
Blank			9120086-BLK1							
Purgeable Hydrocarbons as Gasoline	12/17/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued) 9120086-BLK1										
Methyl tert-butyl ether	12/17/99			ND	ug/l	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.86	"	70.0-130	88.6			
LCS 9120086-BS1										
Benzene	12/17/99	10.0		8.95	ug/l	70.0-130	89.5			
Toluene	"	10.0		8.63	"	70.0-130	86.3			
Ethylbenzene	"	10.0		8.51	"	70.0-130	85.1			
Xylenes (total)	"	30.0		26.1	"	70.0-130	87.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.14	"	70.0-130	91.4			
LCS 9120086-BS2										
Purgeable Hydrocarbons as Gasoline	12/17/99	250		274	ug/l	70.0-130	110			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		13.3	"	70.0-130	133			3
Matrix Spike 9120086-MS1										
Benzene	12/17/99	10.0		8.24	ug/l	60.0-140				
Toluene	"	10.0		7.74	"	60.0-140				
Ethylbenzene	"	10.0		7.74	"	60.0-140				
Xylenes (total)	"	30.0		26.7	"	60.0-140				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.65	"	70.0-130	96.5			
Matrix Spike Dup 9120086-MSD1										
Benzene	12/17/99	10.0		7.49	ug/l	60.0-140		25.0		
Toluene	"	10.0		7.03	"	60.0-140		25.0		
Ethylbenzene	"	10.0		7.03	"	60.0-140		25.0		
Xylenes (total)	"	30.0		24.5	"	60.0-140		25.0		
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.21	"	70.0-130	92.1			
Batch: 9120091 Date Prepared: 12/20/99 Extraction Method: EPA 5030B [P/T]										
Blank 9120091-BLK1										
Purgeable Hydrocarbons as Gasoline	12/20/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		12.4	"	70.0-130	124			
LCS 9120091-BS1										
Benzene	12/20/99	10.0		9.22	ug/l	70.0-130	92.2			
Toluene	"	10.0		9.05	"	70.0-130	90.5			





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
---------	---------------	-------------	---------------	-----------	-------	-------------------------------	----------	-----------	-------	--------

LCS (continued)

<u>9120091-BS1</u>	
Ethylbenzene	12/20/99 10.0 9.28 ug/l 70.0-130 92.8
Xylenes (total)	" 30.0 26.9 " 70.0-130 89.7
Surrogate: a,a,a-Trifluorotoluene	" 10.0 12.8 " 70.0-130 128

LCS

<u>9120091-BS2</u>	
Purgeable Hydrocarbons as Gasoline	12/20/99 250 277 ug/l 70.0-130 111
Surrogate: a,a,a-Trifluorotoluene	" 10.0 10.7 " 70.0-130 107

Matrix Spike

<u>9120091-MS1</u>		<u>L912093-01</u>	
Purgeable Hydrocarbons as Gasoline	12/20/99 250	ND	285 ug/l 60.0-140 114
Surrogate: a,a,a-Trifluorotoluene	" 10.0	9.43	" 70.0-130 94.3

Matrix Spike Dup

<u>9120091-MSD1</u>		<u>L912093-01</u>	
Purgeable Hydrocarbons as Gasoline	12/20/99 250	ND	288 ug/l 60.0-140 115 25.0 0.873
Surrogate: a,a,a-Trifluorotoluene	" 10.0	10.1	" 70.0-130 101

Batch: 9120098

Date Prepared: 12/21/99	Extraction Method: EPA 5030B [P/T]
--------------------------------	---

Blank

<u>9120098-BLK1</u>	
Purgeable Hydrocarbons as Gasoline	12/21/99 ND ug/l 50.0
Benzene	" ND " 0.500
Toluene	" ND " 0.500
Ethylbenzene	" ND " 0.500
Xylenes (total)	" ND " 0.500
Methyl tert-butyl ether	" ND " 5.00
Surrogate: a,a,a-Trifluorotoluene	" 10.0 9.35 " 70.0-130 93.5

LCS

<u>9120098-BS1</u>	
Benzene	12/21/99 10.0 8.80 ug/l 70.0-130 88.0
Toluene	" 10.0 8.81 " 70.0-130 88.1
Ethylbenzene	" 10.0 8.91 " 70.0-130 89.1
Xylenes (total)	" 30.0 26.8 " 70.0-130 89.3
Surrogate: a,a,a-Trifluorotoluene	" 10.0 10.0 " 70.0-130 100

LCS

<u>9120098-BS2</u>	
Purgeable Hydrocarbons as Gasoline	12/21/99 250 267 ug/l 70.0-130 107
Surrogate: a,a,a-Trifluorotoluene	" 10.0 7.74 " 70.0-130 77.4

Matrix Spike

<u>9120098-MS1</u>		<u>L912092-05</u>	
Benzene	12/21/99 10.0	ND	9.22 ug/l 60.0-140 92.2
Toluene	" 10.0	ND	9.04 " 60.0-140 90.4
Ethylbenzene	" 10.0	ND	9.37 " 60.0-140 93.7





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
---------	---------------	-------------	---------------	-----------	-------	-------------------------------	----------	-----------	-------	--------

Matrix Spike (continued)

	<u>9120098-MS1</u>	<u>L912092-05</u>								
Xylenes (total)	12/21/99	30.0	ND	27.7	ug/l	60.0-140	92.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.98	"	70.0-130	79.8			

Matrix Spike Dup

	<u>9120098-MSD1</u>	<u>L912092-05</u>								
Benzene	12/21/99	10.0	ND	9.49	ug/l	60.0-140	94.9	25.0	2.89	
Toluene	"	10.0	ND	9.21	"	60.0-140	92.1	25.0	1.86	
Ethylbenzene	"	10.0	ND	9.42	"	60.0-140	94.2	25.0	0.532	
Xylenes (total)	"	30.0	ND	28.1	"	60.0-140	93.7	25.0	1.51	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.01	"	70.0-130	80.1			

Batch: 9120099

Date Prepared: 12/21/99

Extraction Method: EPA 5030B (P/T)

Blank	<u>9120099-BLK1</u>									
Purgeable Hydrocarbons as Gasoline	12/21/99			ND	ug/l		50.0			
Benzene	"			ND	"		0.500			
Toluene	"			ND	"		0.500			
Ethylbenzene	"			ND	"		0.500			
Xylenes (total)	"			ND	"		0.500			
Methyl tert-butyl ether	"			ND	"		5.00			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.3	"	70.0-130	103			

LCS

9120099-BS1

Benzene	12/21/99	10.0		10.8	ug/l	70.0-130	108			
Toluene	"	10.0		10.7	"	70.0-130	107			
Ethylbenzene	"	10.0		11.0	"	70.0-130	110			
Xylenes (total)	"	30.0		32.3	"	70.0-130	108			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.7	"	70.0-130	107			

LCS

9120099-BS2

Purgeable Hydrocarbons as Gasoline	12/21/99	250		273	ug/l	70.0-130	109			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		12.8	"	70.0-130	128			

Matrix Spike

9120099-MS1 L912093-06

Benzene	12/21/99	10.0	ND	10.0	ug/l	60.0-140	100			
Toluene	"	10.0	ND	9.91	"	60.0-140	99.1			
Ethylbenzene	"	10.0	ND	10.1	"	60.0-140	101			
Xylenes (total)	"	30.0	ND	29.7	"	60.0-140	99.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.1	"	70.0-130	111			

Matrix Spike Dup

9120099-MSD1 L912093-06

Benzene	12/21/99	10.0	ND	9.93	ug/l	60.0-140	99.3	25.0	0.702	
Toluene	"	10.0	ND	9.90	"	60.0-140	99.0	25.0	0.101	





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup (continued)										
	9120099-MSD1	L912093-06								
Ethylbenzene	12/21/99	10.0	ND	10.1	ug/l	60.0-140	101	25.0	0	
Xylenes (total)	"	30.0	ND	30.0	"	60.0-140	100	25.0	1.01	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		9.82	"	70.0-130	98.2			





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

**MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9120144			Date Prepared: 12/29/99			Extraction Method: EPA 5030B [P/T]				
Blank			9120144-BLK1							
Methyl tert-butyl ether	12/29/99			ND	ug/l	2.00				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		50.1	"	76.0-114	100			
LCS			9120144-BS1							
Methyl tert-butyl ether	12/29/99	50.0		45.0	ug/l	70.0-130	90.0			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		51.2	"	76.0-114	102			
Matrix Spike			9120144-MS1		L912224-04					
Methyl tert-butyl ether	12/30/99	50.0	ND	52.0	ug/l	60.0-140	104			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.6	"	76.0-114	105			
Matrix Spike Dup			9120144-MSD1		L912224-04					
Methyl tert-butyl ether	12/30/99	50.0	ND	50.5	ug/l	60.0-140	101	25.0	2.93	
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.1	"	76.0-114	104			





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: - Project Number: 33000620 Project Manager: Shaw Garakani	Sampled: 12/8/99 Received: 12/10/99 Reported: 12/30/99
--	--	--

Notes and Definitions

Note

Chromatogram Pattern: Weathered Gasoline C6-C12

Chromatogram Pattern: Unidentified Hydrocarbons C6-C12

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

Recov. Recovery

RPD Relative Percent Difference



ARCO Facility no. **0608** City (Facility) **1760 Hesperian Blvd San Jose CA 95131** Project manager **JMAAJ GARAYANI**
 ARCO engineer **MIK EWEILAN** Telephone no. (ARCO) **(408) 953-7300** Fax no. (Consultant) **(408) 953-0150**
 Consultant name **PAGE ENVIRONMENTAL GROUP ET** Address (Consultant) **1901 PINGUICCOAN SAN JOSE CA 95131**

Laboratory name **SEQUOIA**
Contract number

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802/EPA 8020	MTBE EPA 1631/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 801/8010	EPA 824/8240	EPA 825/8270	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CAM Metals EPA 801/7000 ITLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS Lead EPA 7420/7421 <input type="checkbox"/>	
			Soil	Water	Other	Ice	Acid														
NW9		3	W			4 Acc	12/8/99	10:45		X											
NW10								13:00													
NW11								6:25													
NW15								10:10													
NW16								11:50													
NW22								11:35													
*033H								10:05													
*042H								11:05													
*17349W								10:55													
*17382W								10:30													

SC

Method of shipment

Special detection Limit/reporting

Special QA/QC

Remarks
* RUN EPA 8000 ON THIS HOMEOWNER W/ MTBE GREATER THAN 35 PPB

Lab number

Turnaround time
 Priority Rush 1 Business Day
 Rush 2 Business Days
 Expedited 5 Business Days
 Standard 10 Business Days

Condition of sample: *[Signature]* Temperature received:
 Relinquished by sampler *[Signature]* Date **12/8/99** Time **10:10** Received by *[Signature]* **12-9-99 9:54**
 Relinquished by *[Signature]* Date **12/9** Time **1815** Received by laboratory *[Signature]* Date **12/10/99** Time **1030**

CLIENT NAME:
REC. BY (PRINT)

PEG
Noelle

WORKORDER:
DATE OF LOG-IN:

L912093
12/10/99

CIRCLE THE APPROPRIATE RESPONSE		LAB	DASH	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*	SAMPLE #	#					
2. Custody Seal #:	Put in Remarks Section			MW9	3x HCL VOA	L	12/8/99	
3. Chain-of-Custody	Present / Absent*			10				
4. Traffic Reports or Packing List:	Present / Absent			11				
5. Airbill:	Airbill / Sticker Present / Absent			15				
6. Airbill #:				16				
7. Sample Tags:	Present / Absent			D 22				
Sample Tags #s:	Listed / Not Listed on Chain-of-Custody			633H				
8. Sample Condition:	Intact / Broken* / Leaking*			642H				
9. Does information on custody reports, traffic reports and sample tags agree?	Yes / No*			17349 VM				Headspace in ① VOA
10. Proper Preservatives used:	Yes / No*			17372 VM				
11. Date Rec. at Lab:								
12. Time Rec. at Lab:								
Temp Rec. at Lab:								

If needed, contact Project Manager and attach record of resolution.



Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

December 28, 1999

Shaw Garakani
Pacific Environmental Group/IT
1921 Ringwood Ave.
San Jose, CA 95131

RE: Arco(1)/L912116

Dear Shaw Garakani:

Enclosed are the results of analyses for sample(s) received by the laboratory on December 13, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

TCR
Tim Costello
Lab Director

CA ELAP Certificate Number I-2360



Pacific Environmental Group/IT
1921 Ringwood Ave.
San Jose, CA 95131

Project: Arco(1)
Project Number: Arco #0608
Project Manager: Shaw Garakani

Sampled: 12/9/99
Received: 12/13/99
Reported: 12/28/99

ANALYTICAL REPORT FOR L912116

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW5	L912116-01	Water	12/9/99
MW8	L912116-02	Water	12/9/99
MW25	L912116-03	Water	12/9/99
E1A	L912116-04	Water	12/9/99



Sequoia Analytical

1551 Industrial Road
 San Carlos, CA 94070-4111
 (650) 232-9600
 FAX (650) 232-9612

Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: Arco(1) Project Number: Arco #0608 Project Manager: Shaw Garakani	Sampled: 12/9/99 Received: 12/13/99 Reported: 12/28/99
--	--	--

Sample Description: MW5
Laboratory Sample Number: L912116-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9120118	12/23/99	12/23/99		50.0	87.4	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	197	"	
Surrogate: <i>a,a</i> -Trifluorotoluene	"	"	"	70.0-130		110	%	





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: Arco(1) Project Number: Arco #0608 Project Manager: Shaw Garakani	Sampled: 12/9/99 Received: 12/13/99 Reported: 12/28/99
--	--	--

Sample Description: MW8
Laboratory Sample Number: L912116-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9120106	12/22/99	12/22/99		50.0	213	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		500	4160	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		106	%	





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: Arco(1) Project Number: Arco #0608 Project Manager: Shaw Garakani	Sampled: 12/9/99 Received: 12/13/99 Reported: 12/28/99
--	--	--

Sample Description: MW25
Laboratory Sample Number: L912116-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9120106	12/22/99	12/22/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	55.5	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		99.5	%	





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: Arco(1) Project Number: Arco #0608 Project Manager: Shaw Garakani	Sampled: 12/9/99 Received: 12/13/99 Reported: 12/28/99
--	--	--

Sample Description: EIA
Laboratory Sample Number: L912116-04

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9120116	12/23/99	12/23/99		125	1490	ug/l	2
Benzene	"	"	"		1.25	6.57	"	
Toluene	"	"	"		1.25	1.36	"	
Ethylbenzene	"	"	"		1.25	9.21	"	
Xylenes (total)	"	"	"		1.25	ND	"	
Methyl tert-butyl ether	"	"	"		12.5	364	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		136	%	3





Pacific Environmental Group/IT
1921 Ringwood Ave.
San Jose, CA 95131

Project: Arco(1)
Project Number: Arco #0608
Project Manager: Shaw Garakani

Sampled: 12/9/99
Received: 12/13/99
Reported: 12/28/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
---------	---------------	-------------	---------------	-----------	-------	-------------------------------	----------	-----------	-------	--------

Batch: 9120106

Date Prepared: 12/22/99

Extraction Method: EPA 5030B [P/T]

Blank

9120106-BLK1

Purgeable Hydrocarbons as Gasoline	12/22/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.1	"	70.0-130	111			

LCS

9120106-BS1

Benzene	12/22/99	10.0		7.38	ug/l	70.0-130	73.8			
Toluene	"	10.0		7.47	"	70.0-130	74.7			
Ethylbenzene	"	10.0		7.51	"	70.0-130	75.1			
Xylenes (total)	"	30.0		22.3	"	70.0-130	74.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.1	"	70.0-130	111			

LCS

9120106-BS2

Purgeable Hydrocarbons as Gasoline	12/22/99	250		275	ug/l	70.0-130	110			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.89	"	70.0-130	98.9			

Matrix Spike

9120106-MS1

L912116-03

Purgeable Hydrocarbons as Gasoline	12/22/99	250	ND	287	ug/l	60.0-140	115			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.78	"	70.0-130	97.8			

Matrix Spike Dup

9120106-MSD1

L912116-03

Purgeable Hydrocarbons as Gasoline	12/22/99	250	ND	276	ug/l	60.0-140	110	25.0	4.44	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.78	"	70.0-130	97.8			

Batch: 9120116

Date Prepared: 12/23/99

Extraction Method: EPA 5030B [P/T]

Blank

9120116-BLK1

Purgeable Hydrocarbons as Gasoline	12/23/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.6	"	70.0-130	106			

LCS

9120116-BS1

Benzene	12/23/99	10.0		7.87	ug/l	70.0-130	78.7			
Toluene	"	10.0		7.66	"	70.0-130	76.6			





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: Arco(1) Project Number: Arco #0608 Project Manager: Shaw Garakani	Sampled: 12/9/99 Received: 12/13/99 Reported: 12/28/99
--	--	--

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
---------	---------------	-------------	---------------	-----------	-------	-------------------------------	----------	-----------	-------	--------

LCS (continued)	9120116-BS1									
Ethylbenzene	12/23/99	10.0		8.03	ug/l	70.0-130	80.3			
Xylenes (total)	"	30.0		23.9	"	70.0-130	79.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.22	"	70.0-130	92.2			

LCS	9120116-BS2									
Purgeable Hydrocarbons as Gasoline	12/23/99	250		274	ug/l	70.0-130	110			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.4	"	70.0-130	104			

Matrix Spike	9120116-MS1	L912106-13								
Benzene	12/23/99	10.0	ND	8.61	ug/l	60.0-140	86.1			
Toluene	"	10.0	ND	8.67	"	60.0-140	86.7			
Ethylbenzene	"	10.0	ND	8.90	"	60.0-140	89.0			
Xylenes (total)	"	30.0	ND	26.2	"	60.0-140	87.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.9	"	70.0-130	109			

Matrix Spike Dup	9120116-MSD1	L912106-13								
Benzene	12/23/99	10.0	ND	9.25	ug/l	60.0-140	92.5	25.0	7.17	
Toluene	"	10.0	ND	9.00	"	60.0-140	90.0	25.0	3.74	
Ethylbenzene	"	10.0	ND	9.29	"	60.0-140	92.9	25.0	4.29	
Xylenes (total)	"	30.0	ND	27.5	"	60.0-140	91.7	25.0	4.92	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.4	"	70.0-130	114			

Batch: 9120118	Date Prepared: 12/23/99	Extraction Method: EPA 5030B [P/T]
Blank	9120118-BLK1	
Purgeable Hydrocarbons as Gasoline	12/23/99	ND ug/l 50.0
Benzene	"	ND " 0.500
Toluene	"	ND " 0.500
Ethylbenzene	"	ND " 0.500
Xylenes (total)	"	ND " 0.500
Methyl tert-butyl ether	"	ND " 5.00
Surrogate: a,a,a-Trifluorotoluene	" 10.0	10.4 " 70.0-130 104

LCS	9120118-BS1									
Benzene	12/23/99	10.0		9.83	ug/l	70.0-130	98.3			
Toluene	"	10.0		9.73	"	70.0-130	97.3			
Ethylbenzene	"	10.0		9.71	"	70.0-130	97.1			
Xylenes (total)	"	30.0		29.1	"	70.0-130	97.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.4	"	70.0-130	104			

LCS	9120118-BS2									
Purgeable Hydrocarbons as Gasoline	12/23/99	250		263	ug/l	70.0-130	105			





Pacific Environmental Group/IT
1921 Ringwood Ave.
San Jose, CA 95131

Project: Arco(1)
Project Number: Arco #0608
Project Manager: Shaw Garakani

Sampled: 12/9/99
Received: 12/13/99
Reported: 12/28/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)										
9120118-BS2										
Surrogate: <i>a,a,a</i> -Trifluorotoluene	12/23/99	10.0		12.1	ug/l	70.0-130	121			
Matrix Spike										
9120118-MS1 L912106-14										
Benzene	12/24/99	10.0	ND	10.6	ug/l	60.0-140	106			
Toluene	"	10.0	ND	10.4	"	60.0-140	104			
Ethylbenzene	"	10.0	ND	10.7	"	60.0-140	107			
Xylenes (total)	"	30.0	ND	31.8	"	60.0-140	106			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		9.95	"	70.0-130	99.5			
Matrix Spike Dup										
9120118-MSD1 L912106-14										
Benzene	12/24/99	10.0	ND	9.86	ug/l	60.0-140	98.6	25.0	7.23	
Toluene	"	10.0	ND	9.68	"	60.0-140	96.8	25.0	7.17	
Ethylbenzene	"	10.0	ND	9.87	"	60.0-140	98.7	25.0	8.07	
Xylenes (total)	"	30.0	ND	29.1	"	60.0-140	97.0	25.0	8.87	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		9.80	"	70.0-130	98.0			





Pacific Environmental Group/IT 1921 Ringwood Ave. San Jose, CA 95131	Project: Arco(1) Project Number: Arco #0608 Project Manager: Shaw Garakani	Sampled: 12/9/99 Received: 12/13/99 Reported: 12/28/99
--	--	--

Notes and Definitions

#	Note
1	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
2	Chromatogram Pattern: Weathered Gasoline C6-C12
3	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference



SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
 REC. BY (PRINT) K. Cas

WORKORDER: L912116
 DATE OF LOG-IN: 12/14/99

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <input checked="" type="radio"/> Absent Intact / Broken*			Mh 5	3X009 HLL	L	12/14/99	
2. Custody Seal #:	Put in Remarks Section			↓ 8	↓	↓	↓	
3. Chain-of-Custody	<input checked="" type="radio"/> Present / Absent*			↓ 25	↓	↓	↓	
4. Traffic Reports or Packing List:	Present / <input checked="" type="radio"/> Absent			EIA	↓	↓	↓	
5. Airbill:	Airbill / Sticker Present / Absent							
6. Airbill #:								
7. Sample Tags:	<input checked="" type="radio"/> Present / Absent							
Sample Tags #s:	<input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody							
8. Sample Condition:	<input checked="" type="radio"/> Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample tags agree?	<input checked="" type="radio"/> Yes / No*							
10. Proper Preservatives used:	<input checked="" type="radio"/> Yes / No*							
11. Date Rec. at Lab:	<u>12/13/99</u>							
12. Time Rec. at Lab:	<u>1400</u>							
13. Temp Rec. at Lab:	<u>5.0</u>							

If circled, contact Project Manager and attach record of resolution.

33007200 Task Order No.

245000

L912116

ARCO Facility no. 0608 City (Facility) 17601 Hesperian Blvd SW Project manager Steve Cradick
 ARCO engineer Mike Weiland Telephone no. (ARCO) (408) 4521300 Telephone no. (Consultant) (408) 4530150 Fax no. (Consultant) (408) 4530150

Laboratory name Sequoia
Contract number

Consultant name Pacific Environmental Group Address (Consultant) 1901 Riva Road San Jose CA 95131

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	RTX EPA 802	MTE EPA 802	TPH Modified 8015 Gas Diesel	Oil and Grease 413.1 413.2	TPH EPA 418.1/SM503E	EPA 601/6010	EPA 624/6240	EPA 625/6270	TCMP Metals VOA	Semi VOA	CAM Metals EPA 6010/7000	TLC STLC	Lead Org. OHS	Lead EPA	7420/7421	
			Soil	Water	Other	Ice	Acid																		
MW5 -	3			W			4	ALL	12-9-99	10:40	X														
MW8 -	↓			↓			↓	↓	↓	10:00															
MW55 -	↓			↓			↓	↓	↓	9:40															
EIA -	↓			↓			↓	↓	↓	10:25															

4

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

Condition of sample: [Signature]

Relinquished by sampler [Signature] Date 12-9-99 Time 11:00

Relinquished by [Signature] Date 12/10/99 Time

Relinquished by TJT (MH) Date 12-10-99 Time 15:45

Temperature received:

Received by [Signature]

Received by TJT (MH)

Received by laboratory [Signature] Date 12/13/99 Time 1400

FIELD SERVICES / O & M REQUEST

SITE INFORMATION FORM

Project #: 330-006.2P 1st time visit

Station #: 0608 1st 2nd 3rd 4th Date of Request: 4Q99

Site Address: 17601 Hesperian Blvd. Monthly Ideal Field Date: 12/8,9
San Lorenzo, California Semi-Monthly Purge water _____

County: Alameda Weekly Budget Hrs. _____

Project Manager: Shaw Garakani One time Event Actual Hrs. _____

Requestor: Kurt Lueneburger Other _____ Mob de Mob _____

Client: Arco Client P.O.C.: M. Whelan. Total Wells _____

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

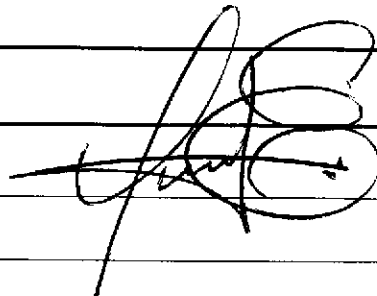
Field Tasks: For General Description

Quarterly Monitoring Event. Measure TOB/TOC, and DO. Purge all wells, irrigation wells for at least 15 minutes before sampling. Also record time when purging starts and when purging is stopped. **Instruct Sequoia to run EPA 8260 on homeowner wells with MtBE greater than 35 ppb.** Attempt to sample all homeowner wells and if wells are non-operational, note the problem as best as you can and what it would take to repair pump/well. Sample homeowner wells on **December 8, 1999.** Note: the sample frequency for some of the wells has been reduced. See attached sample protocol. WA#24152 00

Comments, remarks, from Field Staff (include problems encountered)

TASK COMPLETED SEE ATTACHED PROTOCOL

AWO PURGE BROUGHT TO HWY

Completed by: 

Checked by: _____

Date: 12-8-99

WELL SAMPLING REQUEST

SAMPLING PROTOCOL									
Project No.	Station #	Project Name	SEQUENCE	Project Manager	Approval	Date/s	Laboratory:		Client Engineer:
330-006.2P	608	17601 Hesperian, San Lorenzo	4Q99	Shaw Garakani		9-Dec	Sequoia	24152 00	Mike Wheilan

Well Number	Sampling Order	Sample I.D.	Gauge/Sample Frequency	Analyses	TOB TOC	Well Depth	Top of Screen	Casing Diameter	Well goes Dry?	Comments
MW-5	16		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	14		4"	YES	Please repair or replace
MW-7	15		--	Removed from Program	--	19		3"	NO	missing or broken locks, j-plugs,
MW-8	17		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	NO	slip caps, lid bolts ect. Please
MW-9	14		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	19		3"	YES	note any repairs performed or that
MW-10	18		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	need to be performed.
MW-11	10		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	19		3"	YES	
MW-13	9		--	Removed from Program	--	23.5		3"	YES	
MW-14	8		QLY/ANNUAL 1Q	MtBE/GAS/BTEX	TOB/TOC	24		3"	YES	
MW-15	7		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	24		3"	YES	
MW-16	6		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	23		3"	YES	
MW-18	5		QLY/ANNUAL 1Q	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-19	4		--	Removed from Program	--	22		3"	YES	
MW-21	3		QLY/ANNUAL 1Q	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-22	2		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-23	1		QLY/ANNUAL 1Q	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-24	11		--	Removed from Program	--	20		2"	YES	
MW-25	12		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	21		2"	YES	
MW-26	13		QLY/ANNUAL 1Q	MtBE/GAS/BTEX	TOB/TOC	20		2"	YES	
E-1A	19		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	26		7"	YES	

Summary of Domestic Wells Sampling Contacts
 ARCO Service Station #0608
 17601 Hesperian, San Lorenzo

CALL AT LEAST ONE WEEK IN ADVANCE OF EVENT EACH QUARTER
 Document with copy of this log in project file
 DOCUMENT EVENT WITH A SAMPLING FORM FROM ALL HOMES WHETHER SAMPLED OR
 NOT!!!!!!!!!!!!!!

Quarter calling for	Address	Contact Name Phone #	Date Contacted	Pump Assessment	Notes
AUG 27 98	590 Hacienda	Mr. & Mrs. Silva (510) 276-1534		operational	Need homeowner there to sample. Well in backyard.
SEP 18 98					Knock first. Sample early-mid morn. Well in backyard.
1Q99					3/3 No Answer. 3/9 No Answer. 3/12 No Answer.
2Q99					Knock first. Sample in the morning.
3Q99					9/9- No answer, Message left that we would try to contact them about sampling on Wednesday 9/8,10,13- No answer
4Q99					11/29, 11/30, 12/2, 12/3, 12/4, 12/5 - No answer <i>NO ANSWER</i>

AUG 27 98	633 Hacienda	Mr. Dahmann (510) 276-3860		operational	Well redeveloped with new pump as of 10/7/94. No access unless someone is home.
SEP 18 98					Well redeveloped with new pump as 10/7/94. Okay to sample anytime.
1Q99					3/3 No answer. 3/9 No Answer. 3/12 No Answer. He has no message machine.
2Q99					Okay to sample anytime.
3Q99					9/8,9,10,13- No answer
4Q99					Okay to sample anytime. (shut gate when done)

AUG 27 98	642 Hacienda	Ms. Corregedor (510) 481-1063	Don't Call Not authorized	operational	Won't allow access.
SEP 18 98					Message 09/14-16/98. Unable to be contacted.
1Q99					Contacted 3/3. Okay to sample anytime.
2Q99					Okay to sample anytime
3Q99					Okay to sample anytime
4Q99					Okay to sample anytime

AUG 27 98	675 Hacienda	Mr. & Mrs. Roberts (510) 276-7389		non-operational	Okay to enter 1st shed on the right (must use entry gate @ right side of house) to obtain sample, if not home. PLEASE LOCK GATE ON YOUR WAY OUT!!!
SEP 18 98					Message 09/14-16/98. Unable to be contacted.
1Q99					3/10 Message. Okay to sample anytime.
2Q99					Okay to sample anytime
3Q99					Okay to sample anytime
4Q99					Okay to sample anytime

Pump not working

AUG 27 98	17348 Via Encinas	Mr. Luehrs (510)278-9059		non operational	Ok to enter backyard and grab bailer sample if resident not home; KNOCK FIRST.
SEP 18 98					Attempt to sample in the morning on Sep. 21 st . Knock first so that the dog can be leashed
1Q99					3/10 message. Okay to sample before 11:30 on March 15.
2Q99					Sample between 8 and 11 am in the morning. Knock first so that dog can be leashed.
3Q99					Sample between 8 and 11 am in the morning. Knock first so that dog can be leashed.
4Q99					11/29, 11/30, 12/2, 12/3, 12/4 - No answer

*PUMP NO ANSWER
PUMP NOT OPERATIVE*

AUG 27 98	17197 Via Magdalena	Mr. Schrag (510) 278-1904		operational	Grab sample off hose bib on front porch. Call him before heading to site to turn on hose bib to purge.
SEP 18 98					Ok to sample anytime.
1Q99					3/3. Okay to sample anytime.
2Q99					Okay to sample anytime
3Q99					Okay to sample anytime
4Q99					Recently died. DO NOT SAMPLE

AUG 27 98	17200 Via Magdalena	Cavalry Church (510) 278-2555	not need call	non-operational	Well destroyed. Has been built over with a classroom.
-----------	---------------------	----------------------------------	---------------	-----------------	---

AUG 27 98	17203 Via Magdalena	Mrs. Toles (510)276-6797		operational	AFTER 10AM ONLY!!! OK to enter back yard and sample if not home; KNOCK FIRST! Pump not working.
SEP 18 98					Okay to enter anytime. Pump not working 2Q98 possibly due to an obstruction. If pump does not work 3Q98, then let homeowner know so that she can get somebody to fix it.
1Q99					3/3. Okay to sample anytime.
2Q99					Sample after 10am
3Q99					Sample anytime
4Q99					Sample anytime

pump not working

AUG 27 98	17302 Via Magdalena	Mr. & Mrs. Johanson (510) 278-5987		non-operational	Foot valve broken--no pressure & not holding it's prime. Call before next sampling to see if fixed.
SEP 18 98					Pump still non-operational. Foot valve is not the problem. Has not been fixed due to lack of funds.
1Q99					3/3. Owner said that the well is non-operational and needs a new pump. Has not had the money to replace it. Not authorized to enter property or sample.
2Q99					Well still broken. Do not sample.
3Q99					Well still broken. Do not sample.
4Q99					Well still broken. Do not sample.

AUG 27 98	17349 Via Magdalena	Mr. Kast (510)278-1263		operational	OK to enter back yard and sample if not home; well shed in back yard; KNOCK FIRST!
SEP 18 98					Ok to enter backyard and sample anytime
1Q99					3/3. Okay to sample anytime.
2Q99					Okay to sample anytime.
3Q99					Okay to sample anytime.
4Q99					Okay to sample anytime.

AUG 27 98	17371 Via Magdalena	Mr. Manry (510) 317-9724	Don't Call Not authorized	operational	Won't allow access.
SEP 18 98					won't allow access (past attempts). No answer, 9/14-16/98.
1Q99					3/3 No Answer. 3/9 No Answer. 3/12 No Answer. Won't allow access in past attempts.
2Q99					Unable to contact. Won't allow access in past attempts.
3Q99					Don't sample. Well not working
4Q99					Don't sample. Well not working

AUG 27 98	17372 Via Magdalena	Mr. Pimental (510) 278-6304		operational	Authorization to enter & start anytime. Sampled from hose bib in back yard; resident is usually using the hose when you get there. CALL FIRST!
SEP 18 98					Okay to sample anytime. Sampled from hose bib in backyard.
1Q99					3/3. Okay to sample anytime.
2Q99					Okay to sample anytime.
3Q99					Okay to sample anytime.
4Q99					Refuses access. DO NOT Sample

WELL SAMPLING REQUEST

SAMPLING PROTOCOL								
Project No.	Station #	Project Name	SEQUENCE	Project Manager	Approval	Date/s	Laboratory:	Client Engineer:
330-006.2P	608	17601 Hesperian San Lorenzo	4Q99	Shaw Garakani		8-Dec	Sequoia 24152 00	Mike Wheilan

Well Number	Ideal Sampling Order	Sample I.D.	Sampling Frequency	Analyses	TOB TOC	Well Depth	Casing Diameter	Top of Screen	Well goes Dry?	Comments
Mr/Mrs Silva		590 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					SEE ATTACHED CONTACT FORM.
Mr. Dahmann		633 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					SAMPLE HOMEOWNER WELLS ON
Mrs Albright		634 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					WEDNESDAY, DECEMBER 8
Ms. Corregedor		642 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr/Mrs Roberts		675 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					**Instruct Sequoia to run 8260 MtBE
Mr Luehrs		17348 Via Encinas	QLY	GAS/BTEX/MtBE	TOB/TOC					confirmation on homeowner wells
Mr. Schrag		17197 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					with hits > 35 ppb.
Cavalry Church		17200 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					Well Paved Over
Mrs Toles		17203 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr/Mrs Johanson		17302 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					
Mr. Pimental		17372 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr. Whaley		17393 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					Well Abandoned 7/97.

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 330-0062 LOCATION: 17601 HESPERIAN DATE: 12.8.99
 CLIENT/STATION NO.: ARCO/0608 FIELD TECHNICIAN: Pedro E. Rodriguez DAY OF WEEK: WED.

PROBE TYPE/ID No.
 Oil/Water IF/ _____
 H₂O level indicator _____
 Other: _____

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	Total Depth (feet)	First Depth to Water (feet) TOB/TOC	Second Depth to Water (feet) TOB/TOE	SEPARATE-PHASE HYDROCARBONS (SPH)								
											SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	Fresh	Weathered	Gas	Oil	VISCOSITY Light Medium Heavy	LIQUID REMOVED (gallons) SPH H ₂ O	
																			COLOR
	MW5		-	-	-	-	-		12.15 10.15	12.58 10.56									
	MW6																		
	MW8		-	-	-	-	-		1065 1065	1148 1118									
	MW9		-	-	-	-	-		1000 1000	1070 1070									
	MW10		-	-	-	-	-		1005 1005	1088 1088									
	MW11		-	-	-	-	-		1113 1113	1153 1153									
	MW12																		
	MW14		-	-	-	-	-		955 955	981 981									
	MW15		-	-	-	-	-		1083 1083	1108 1108									

Comments: _____

FIELD REPORT

PTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 330-00620 LOCATION: 17601 HESPERIAN BLVD. DATE: 12/8/99
 CLIENT/STATION NO.: ARCO/0608 FIELD TECHNICIAN: EDDIE RIZZO DAY OF WEEK: WED

PROBE TYPE/ID No.

- Oil/Water IF/ _____
 H₂O level indicator _____
 Other: _____

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	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)	Fresh	Weathered	Gas	Oil	VISCOSITY			LIQUID REMOVED (gallons)			
																	Light	Medium	Heavy	SPH	H ₂ O		
	MW-16		-	-	-	-	-		11.37 11.37	11.80 11.80													
	MW-17																						
	MW-18		-	-	-	-	-		10.50 10.50	10.77 10.77													
	MW-19																						
	MW-20																						
	MW-21		-	-	-	-	-		10.00 10.00	10.70 10.70													
	MW-22		-	-	-	-	-		10.95 10.95	11.00 11.00													
	MW-23		-	-	-	-	-		12.00 12.00	12.07 12.07													
	E1-A		-	-	-	-	-		10.15 10.15	11.75 11.75													

Comments: _____

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No. : 330-006.2

LOCATION: 17601 HESPERIAN BLVD

DATE: 10/8/99

CLIENT/STATION NO. : ARO/0602

FIELD TECHNICIAN: J. CORCORAN

DAY OF WEEK: WED

PROBE TYPE/ID No.

- Oil/Water IF/ _____
- H₂O level indicator _____
- Other: _____

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	Total Depth (feet)	First Depth to Water (feet) TOB/TOC	Second Depth to Water (feet) TOB/TOC	SEPARATE-PHASE HYDROCARBONS (SPH)						LIQUID REMOVED (gallons)				
											SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	Fresh	Weathered	Gas	Oil		VISCOSITY			SPH / H ₂ O
	MW-24																				
	MW-25		/	/	/	/	/		11.75 11.75	10.05 12.05											
	MW-26		/	/	/	/	/		10.10 10.15	10.59 10.57											

Comments: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006. 2P LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-5

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEDRO E Ruiz

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.
<input type="checkbox"/> 2	0.17
<input checked="" type="checkbox"/> 3	0.38
<input type="checkbox"/> 4	0.66
<input type="checkbox"/> 4.5	0.83
<input type="checkbox"/> 5	1.02
<input type="checkbox"/> 6	1.5
<input type="checkbox"/> 8	2.6

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

TD 1400 DTW 1215 = 185 Gal/Linear Foot 0.38 = .70 x Number of 3 Casings = Purge 2.10

DATE PURGED: 12 9 99 START: 10:28 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 9 99 START: 10:40 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (unjts)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>10:31</u>	<u>50</u>	<u>7.13</u>	<u>1080</u>	<u>62.4</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Faint</u>
<u>10:34</u>	<u>1</u>	<u>7.08</u>	<u>1110</u>	<u>63.4</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Faint</u>
<u>10:37</u>	<u>1.5</u>	<u>7.17</u>	<u>1170</u>	<u>63.5</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Faint</u>

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: _____
 Centrifugal Pump: _____
 Other: _____

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-5</u>	<u>12-9-99</u>	<u>10:40</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>GPB/BTEA</u>

REMARKS: slow Purge Two Bails

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2P LOCATION: 17601 HESPERIAN BLVD WELL ID #: MW-8
SAN LORENZO CA.

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PE德罗 E Ruiz

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
 2 _____
 3 _____
 4 _____
 4.5 _____
 5 _____
 6 _____
 8 _____

GAL/
LINEAR FT.

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

TD 2000 DTW 1065 = 11.35 Gal/Linear Foot 0.38 = 431 x Number of 3 Casings = Calculated Purge 1293

DATE PURGED: 12 9 99 START: 9:40 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 9 99 START: 10:00 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
9:49	4.05	7.41	1140	61.1	Cloudy	Mod	None
9:52	8.5	7.09	1170	63.8	Clear	Mod	None
9:55	12.15	6.93	1180	65.9	Clear	Light	None

Pumped dry Yes No
 FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: _____ TOB/TOC _____

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

SAMPLING EQUIPMENT/I.D. #
 Bailer: 15-16
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-8</u>	<u>12-9-99</u>	<u>1000</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>BASE/STE.</u>

REMARKS: SP 20

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2P LOCATION: 17601 HESPERIAN BLVD WELL ID #: MW-9
SAN LORENZO CA.

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEPPE E Ruiz

WELL INFORMATION			CASING	GAL/	SAMPLE TYPE
Depth to Liquid: _____	TOB _____	TOC _____	DIAMETER	LINEAR FT.	
Depth to water: _____	TOB _____	TOC _____	<input type="checkbox"/> 2 _____	0.17	<input checked="" type="checkbox"/> Groundwater
Total depth: _____	TOB _____	TOC _____	<input checked="" type="checkbox"/> 3 _____	0.38	<input type="checkbox"/> Duplicate
Date: _____	Time (2400): _____		<input type="checkbox"/> 4 _____	0.66	<input type="checkbox"/> Extraction well
Probe Type	<input type="checkbox"/> Oil/Water interface _____		<input type="checkbox"/> 4.5 _____	0.83	<input type="checkbox"/> Trip blank
and	<input type="checkbox"/> Electronic indicator _____		<input type="checkbox"/> 5 _____	1.02	<input type="checkbox"/> Field blank
I.D. #	<input type="checkbox"/> Other; _____		<input type="checkbox"/> 6 _____	1.5	<input type="checkbox"/> Equipment blank
			<input type="checkbox"/> 8 _____	2.6	<input type="checkbox"/> Other; _____

TD 19.00 DTW 10.00 = 9.00 Gal/Linear x Foot 0.38 = 339 Number of Casings 3 Calculated = Purge 1003

DATE PURGED: 12 8 99 START: 12:30 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 8 99 START: 12:45 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>12:33</u>	<u>3.25</u>	<u>7.58</u>	<u>1360</u>	<u>63.9</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>12:36</u>	<u>0.5</u>	<u>7.30</u>	<u>1390</u>	<u>65.4</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>12:39</u>	<u>9.75</u>	<u>7.17</u>	<u>1400</u>	<u>66.8</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>

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: 15-10
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-9</u>	<u>12 8 99</u>	<u>12:45</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>GF5/ETEN</u>

REMARKS: DO-20

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2P LOCATION: 17601 HESPERIAN BLVD WELL ID #: MW-10
SAN LORENZO CA.

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEDRO E. RUIZ

<u>WELL INFORMATION</u>			<u>CASING</u>		<u>GAL/</u>	<u>SAMPLE TYPE</u>
Depth to Liquid: _____	TOB _____	TOC _____	<u>DIAMETER</u>	<u>LINEAR FT.</u>		
Depth to water: _____	TOB _____	TOC _____	<input type="checkbox"/> 2 _____	0.17	<input checked="" type="checkbox"/> Groundwater	
Total depth: _____	TOB _____	TOC _____	<input checked="" type="checkbox"/> 3 _____	0.38	<input type="checkbox"/> Duplicate	
Date: _____	Time (2400): _____		<input type="checkbox"/> 4 _____	0.66	<input type="checkbox"/> Extraction well	
			<input type="checkbox"/> 4.5 _____	0.83	<input type="checkbox"/> Trip blank	
Probe Type	<input type="checkbox"/> Oil/Water interface _____		<input type="checkbox"/> 5 _____	1.02	<input type="checkbox"/> Field blank	
and	<input type="checkbox"/> Electronic indicator _____		<input type="checkbox"/> 6 _____	1.5	<input type="checkbox"/> Equipment blank	
I.D. #	<input type="checkbox"/> Other; _____		<input type="checkbox"/> 8 _____	2.6	<input type="checkbox"/> Other; _____	

TD 2200 - DTW 1005 = 11.75 x Foot 0.38 = 4.46 x Number of 3 Casings = Calculated Purge 1339

DATE PURGED: 12 8 99 START: 12:48 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 8 99 START: 13:00 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>12:51</u>	<u>16</u>	<u>7.57</u>	<u>1240</u>	<u>64.2</u>	<u>CLEAR</u>	<u>Mod</u>	<u>Mod</u>
<u>12:54</u>	<u>9</u>	<u>7.18</u>	<u>1230</u>	<u>65.2</u>	<u>CLEAR</u>	<u>Mod</u>	<u>Mod</u>
<u>12:57</u>	<u>135</u>	<u>7.09</u>	<u>1240</u>	<u>65.8</u>	<u>CLEAR</u>	<u>Mod</u>	<u>Mod</u>

Pumped dry Yes / No

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

<u>PURGING EQUIPMENT/I.D. #</u>		<u>SAMPLING EQUIPMENT/I.D. #</u>	
<input type="checkbox"/> Bailor: _____	<input type="checkbox"/> Airlift Pump: _____	<input checked="" type="checkbox"/> Bailor: <u>15-12</u>	
<input checked="" type="checkbox"/> Centrifugal Pump: _____	<input type="checkbox"/> Dedicated: _____	<input type="checkbox"/> Dedicated: _____	
<input type="checkbox"/> Other: _____		<input type="checkbox"/> Other: _____	

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-10</u>	<u>12 8 99</u>	<u>13:00</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>GF5/BTE</u>

REMARKS: DO: 5.0

[Handwritten signature]

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

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

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEDRO E RUIZ

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 1900 DTW 11.13 = 787 x Gal/Linear Foot 0.38 = 299 x Number of Casings 3 = Calculated Purge 897

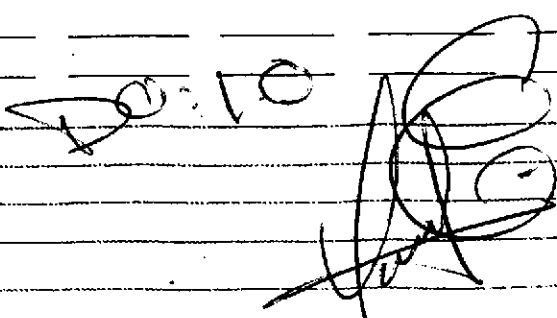
DATE PURGED: 12 8 99 START: 10:13 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 8 99 START: 12:05 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>12:18</u>	<u>3</u>	<u>7.62</u>	<u>1290</u>	<u>62.7</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>12:19</u>	<u>8</u>	<u>7.50</u>	<u>1290</u>	<u>63.8</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>12:22</u>	<u>9</u>	<u>7.02</u>	<u>1310</u>	<u>64.2</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>

Pumped dry Yes / No
 FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: _____ TOB/TOC _____
 Cobalt 0-100: _____ NTU 0-200: _____ Strong Moderate Faint None
 Clear Cloudy Yellow Brown: _____ Heavy Moderate Light Trace: _____

PURGING EQUIPMENT/I.D. #
 Bailer: _____
 Centrifugal Pump: _____
 Other: _____
 Airlift Pump: _____
 Dedicated: _____
 SAMPLING EQUIPMENT/I.D. #
 Bailer: 15-11
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-11</u>	<u>12 8 99</u>	<u>12:05</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>GAS/BTEX</u>

REMARKS: 10:10


FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006. 2P LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-15

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEDRO E RUIZ

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 2100 DTW 1085 = 13.17 x Gal/Linear Foot 0.38 = 500 x Number of Casings 3 = Calculated Purge 1500

DATE PURGED: 12 8 99 START: 11:53 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 8 99 START: 12:10 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>11:58</u>	<u>5</u>	<u>7.51</u>	<u>1000</u>	<u>618</u>	<u>Cloudy</u>	<u>1 foot</u>	<u>None</u>
<u>11:59</u>	<u>10</u>	<u>7.36</u>	<u>1080</u>	<u>627</u>	<u>Cloudy</u>	<u>1 foot</u>	<u>None</u>
<u>12:02</u>	<u>15</u>	<u>7.18</u>	<u>1080</u>	<u>639</u>	<u>Clear</u>	<u>1 foot</u>	<u>None</u>

Pumped dry Yes / No Pump. 000ml.

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: _____
 Centrifugal Pump: _____
 Other: _____
 Airlift Pump: _____
 Dedicated: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: 15-8
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-15</u>	<u>12 8 99</u>	<u>12:10</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCl</u>	<u>GAS/TEST.</u>

REMARKS: DO NOT touch body

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006-2P LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-10

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEDRO E Ruiz

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 2300 DTW 1137 = 1163 Gal/Linear Foot 0.38 = 4.41 Number of 3 Casings Calculated = Purge 13005

DATE PURGED: 12 8 99 START: 11:37 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 8 99 START: 11:50 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:40	15	7.54	1280	62.1	Cloudy	upst	none
11:43	9	7.05	1270	63.9	Cloudy	mod	none
11:50	135	6.70	1230	64.7	Cloudy	light	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 _____

PURGING EQUIPMENT/I.D. #

Bailer: _____
 Centrifugal Pump: _____
 Other: _____
 Airlift Pump: _____
 Dedicated: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: 15-9
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-10</u>	<u>12 8 99</u>	<u>11:50</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>CRS / BTEX</u>

REMARKS:

[Handwritten signature and scribbles]

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006. 2P LOCATION: 17601 HESPERIAN BLVD WELL ID #: MW-02
SAN LORENZO CA.

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEPE E Ruiz

WELL INFORMATION

CASING

GAL/

LINEAR FT.

SAMPLE TYPE

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

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

Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other; _____

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

TO 0200 DTW 10.96 = 1105 Gal/Linear x Foot 0.38 = 4.19 Number of 3 Casings = Calculated Purge 12.59

DATE PURGED: 12 8 99 START: 11:00 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 8 99 START: 11:35 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>11:03</u>	<u>4.05</u>	<u>7.01</u>	<u>1030</u>	<u>608</u>	<u>Cloudy</u>	<u>light</u>	<u>None</u>
<u>11:06</u>	<u>8.5</u>	<u>7.12</u>	<u>1030</u>	<u>600</u>	<u>Cloudy</u>	<u>light</u>	<u>None</u>
<u>11:29</u>	<u>12.75</u>	<u>6.93</u>	<u>1030</u>	<u>606</u>	<u>Clear</u>	<u>light</u>	<u>None</u>

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. #

SAMPLING EQUIPMENT/I.D. #

Bailer: _____ Airlift Pump: _____
 Centrifugal Pump: _____ Dedicated: _____
 Other: _____

Bailer: 15-2
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW02</u>	<u>12 8 99</u>	<u>11:35</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>CAS/TEST.</u>

REMARKS:

20.1.4

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006. 2P LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-05

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEDRO E RUIZ

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 2100 DTW 11.75 = 9.25 Gal/Linear Foot 0.17 = 157 x Casings 3 = Purge 471

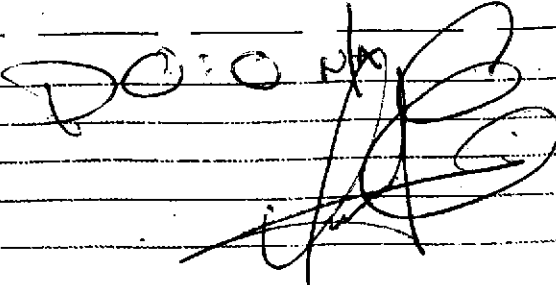
DATE PURGED: 12 9 99 START: 9:09 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 9 99 START: 9:40 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>9:32</u>	<u>15</u>	<u>7.46</u>	<u>1180</u>	<u>62.6</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>9:35</u>	<u>3</u>	<u>7.06</u>	<u>1190</u>	<u>63.2</u>	<u>Cloudy</u>	<u>Light</u>	<u>None</u>
<u>9:38</u>	<u>15</u>	<u>7.04</u>	<u>1190</u>	<u>63.8</u>	<u>Cloudy</u>	<u>Light</u>	<u>None</u>

Pumped dry Yes No
 FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: _____ TOB/TOC _____
 Cabait 0-100: Clear, Cloudy, Yellow, Brown
 NTU 0-200: Heavy, Moderate, Light, Trace
 Strong, Moderate, Faint, None

PURGING EQUIPMENT/I.D. #
 Bailer: _____
 Centrifugal Pump: _____
 Other: _____
 Airlift Pump: _____
 Dedicated: _____
SAMPLING EQUIPMENT/I.D. #
 Bailer: 15-13
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-05</u>	<u>12-9-99</u>	<u>9:40</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>GRS/TEST</u>

REMARKS: DO: 0


FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2P LOCATION: 17601 HESPERIAN BLVD WELL ID #: ~~ARC~~ EIA
SAN LORENZO CA.

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEDRO E RUIZ

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

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: _____

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

TD 2600 DTW 10:15 = 1585 Gal/Linear Foot 0.45 = 2377 Number of Casings 3 Calculated = Purge 7130

DATE PURGED: 12 9 99 START: 10:03 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 9 99 START: 10:05 END (2400 hr): _____ SAMPLED BY: PE

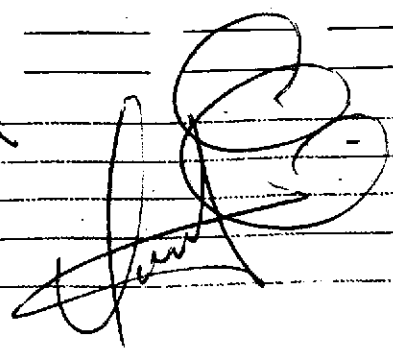
TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:09	2375	7.03	1190	66.7	Cloudy	Mod	Faint
10:15	27.5	7.00	1200	67.5	Cloudy	Mod	Faint
10:20	7125	6.71	1230	67.2	Clear	Light	Faint

Pumped dry Yes No
 FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
 Bailor: _____
 Centrifugal Pump: _____
 Other: _____

SAMPLING EQUIPMENT/I.D. #
 Bailor: 15-18
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>ARC</u> <u>EIA</u>	<u>12-9-99</u>	<u>10:05</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>GRS/ETE:1</u>

REMARKS: DO NA


FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2P LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: ARCO 033H

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEDRO E RUIZ

<u>WELL INFORMATION</u>			<u>CASING DIAMETER</u>		<u>GAL/ LINEAR FT.</u>	<u>SAMPLE TYPE</u>
Depth to Liquid:	TOB	TOC	<input type="checkbox"/> 2		0.17	<input checked="" type="checkbox"/> Groundwater
Depth to water:	TOB	TOC	<input checked="" type="checkbox"/> 3		0.38	<input type="checkbox"/> Duplicate
Total depth:	TOB	TOC	<input type="checkbox"/> 4		0.66	<input type="checkbox"/> Extraction well
Date:	Time (2400):		<input type="checkbox"/> 4.5		0.83	<input type="checkbox"/> Trip blank
Probe Type and I.D. #	<input type="checkbox"/> Oil/Water interface		<input type="checkbox"/> 5		1.02	<input type="checkbox"/> Field blank
	<input type="checkbox"/> Electronic indicator		<input type="checkbox"/> 6		1.5	<input type="checkbox"/> Equipment blank
	<input type="checkbox"/> Other;		<input type="checkbox"/> 8		2.6	<input type="checkbox"/> Other;

TD _____ - DTW _____ = _____ x Foot 0.38 = _____ x Casings 3 = Purge _____

DATE PURGED: 12 8 99 START: _____ END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 12 8 99 START: 10:05 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (μ mhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
/							
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 7:30 10:50 57.9 CLEAR TRACE NONE

<u>PURGING EQUIPMENT/I.D. #</u>	<u>SAMPLING EQUIPMENT/I.D. #</u>
<input type="checkbox"/> Bailer: _____	<input checked="" type="checkbox"/> Bailer: <u>15"</u>
<input checked="" type="checkbox"/> Centrifugal Pump: _____	<input type="checkbox"/> Dedicated: _____
<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: <u>GRAB</u>

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>ARCO 033H</u>	<u>12 8 99</u>	<u>10:05</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>ORGANIC</u>

REMARKS: DO-14 start 10:11 10:03 PURGE 50 GAL

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2P LOCATION: 17601 HESPERIAN BLVD, WELL ID #: ~~ARC0608~~ 0608
SAN LORENZO CA.

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEDRO E RUIZ

<u>WELL INFORMATION</u>			<u>CASING</u>	<u>GAL/</u>	
Depth to Liquid: _____	TOB _____	TOC _____	<u>DIAMETER</u>	<u>LINEAR FT.</u>	<u>SAMPLE TYPE</u>
Depth to water: _____	TOB _____	TOC _____	<input type="checkbox"/> 2 _____	0.17	<input checked="" type="checkbox"/> Groundwater
Total depth: _____	TOB _____	TOC _____	<input checked="" type="checkbox"/> 3 _____	0.38	<input type="checkbox"/> Duplicate
Date: _____	Time (2400): _____		<input type="checkbox"/> 4 _____	0.66	<input type="checkbox"/> Extraction well
Probe Type	<input type="checkbox"/> Oil/Water interface _____		<input type="checkbox"/> 4.5 _____	0.83	<input type="checkbox"/> Trip blank
and	<input type="checkbox"/> Electronic indicator _____		<input type="checkbox"/> 5 _____	1.02	<input type="checkbox"/> Field blank
I.D. #	<input type="checkbox"/> Other; _____		<input type="checkbox"/> 6 _____	1.5	<input type="checkbox"/> Equipment blank
			<input type="checkbox"/> 8 _____	2.6	<input type="checkbox"/> Other; _____

TD _____ - DTW _____ = _____ x Gal/Linear 0.38 = _____ x Number of 3 Casings = Calculated Purge _____

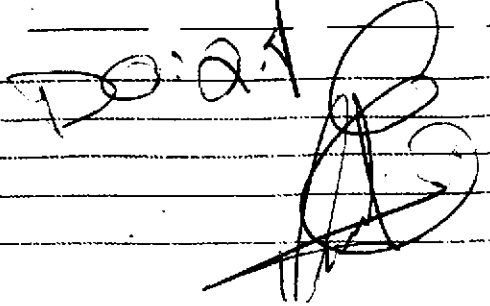
DATE PURGED: 12 99 START: _____ END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 128 99 START: 1105 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
/							
Pumped dry Yes / No							

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: _____ TOB/TOC 751 1270 010 CLEAR light none

<u>PURGING EQUIPMENT/I.D. #</u>	<u>SAMPLING EQUIPMENT/I.D. #</u>
<input type="checkbox"/> Bailer: _____	<input checked="" type="checkbox"/> Bailer: <u>15"</u>
<input checked="" type="checkbox"/> Centrifugal Pump: _____	<input type="checkbox"/> Dedicated: _____
<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: <u>Grabo</u>

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>ARC0608 0608</u>	<u>12899</u>	<u>1105</u>	<u>3</u>	<u>40ml</u>	<u>VDA</u>	<u>HCL</u>	<u>GF5/BTE</u>

REMARKS: DO: 2.1


FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2P LOCATION: 17601 HESPERIAN BLVD WELL ID #: ~~17601~~ 17349VM
SAN LORENZO CA.

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEDRO E Ruiz

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 Foot 0.38 = _____ x Casings 3 = Purge _____

DATE PURGED: 12 99 START: _____ END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12 8 99 START: 10:55 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
/							
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 730 1190 _____ 398 Clear light about

PURGING EQUIPMENT/I.D. #
 Bailer: _____
 Centrifugal Pump: _____
 Other: _____
 Airlift Pump: _____
 Dedicated: _____
 SAMPLING EQUIPMENT/I.D. #
 Bailer: 15'
 Dedicated: _____
 Other: GRAB

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>17601</u> <u>17349VM</u>	<u>12-8-99</u>	<u>10:55</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>GRAB/BTE</u>

REMARKS: DO: 2.4 start 10:40 = 10:50
PURGE 50 GAL.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2P LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-17370 VM

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: PEдро E Ruiz VM

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 _____ = _____ Gal/Linear x Foot 0.38 = _____ Number of 3 Casings = Purge _____ Calculated

DATE PURGED: 12 99 START: _____ END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 128 99 START: 10:30 END (2400 hr): _____ SAMPLED BY: PE

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

Pumped dry Yes / No _____
 FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: _____ TOB/TOC 747 992 519 clear light none

PURGING EQUIPMENT/I.D. #
 Bailer: _____
 Centrifugal Pump: _____
 Other: _____
 Airlift Pump: _____
 Dedicated: _____
 SAMPLING EQUIPMENT/I.D. #
 Bailer: 15"
 Dedicated: _____
 Other: Grato

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-17370 VM</u>	<u>12-8-99</u>	<u>10:30</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>Gas/ETA</u>
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

REMARKS: _____
HOME OWNER PREPARED BEFORE SAMPLE



EMCON

IT Group

BILL OF LADING

Date 12-9-99 page 1 of 1

ARCO Facility No. <u>0600</u>	ARCO Facility Location (City) <u>1700 / HESPERIAN BLVD SAN JOSE CA</u>	ARCO Engineer <u>MIKE WHEELAN</u>
Consultant Name <u>Pacific Environmental - IT Group</u>	Consultant Address <u>1921 PINNACLEDAN SAN JOSE CA 95131</u>	
Project Manager (Consultant) <u>SHAW BARAKAT</u>	Telephone (Consultant) <u>(408) 453 7300</u>	Fax No. (Consultant) <u>(408) 437 9526</u>
Description of material <u>NON - HAZARDOUS WATER</u>		Date material contained
		Amount of material (gallons) <u>100 GAL.</u>

Material contained by (Signature) 	Date <u>12-9-99</u>	Time	Printed name <u>PEDRO E RUIZ</u>	Truck / Trailer # <u>T-1 #15</u>
Transferred to tank by (Signature) 	Date	Time	Printed name	# of Drums
Removed from tank by (Signature)	Date	Time	Transport company	Transported to



EMCON

LT GROUP

BILL OF LADING

Date 12.8.99 page 1 of 1

ARCO Facility No. <u>0608</u>	ARCO Facility Location (City) <u>1700 Lakeside Blvd San Bruno</u>	ARCO Engineer <u>MIKE WHELAN</u>
Consultant Name <u>Pacific Environmental LT.</u>	Consultant Address <u>1901 RINGWOOD AV. SAN JOSE CA 95131</u>	
Project Manager (Consultant) <u>SHAW CHARAWI</u>	Telephone (Consultant) <u>(408) 453-7300</u>	Fax No. (Consultant) <u>(408) 437-9000</u>
Description of material <u>NON HAZARDOUS WATER</u>		Date material contained <u>12.08.99</u>
		Amount of material (gallons) <u>250 GAL.</u>

Material contained by (Signature) 	Date <u>12.8.99</u>	Time	Printed name <u>PEDRO C. RUIZ</u>	Truck / Trailer # <u>#15/TD</u>
Transferred to tank by (Signature)	Date	Time	Printed name	# of Drums
Removed from tank by (Signature)	Date	Time	Transport company	Transported to

ARCO Products Company
Division of AtlanticRichfieldCompany

33000670 Task Order No. 24150000

Chain of Custody

ARCO Facility no. 0608 City (Facility) 17001/3 PERIN Blvd SAN JOSE CA 95131 Project manager SHAAD GARAHAZI
 ARCO engineer MIK ECKHART Telephone no. (ARCO) 408/953-7300 Telephone no. (Consultant) 408/953-7300 Fax no. (Consultant) 408/953-0150
 Consultant name FACE ENVIRONMENTAL GROUP ET Address (Consultant) 1901 PINAQUOAN SAN JOSE CA 95131

Laboratory name SECOIA
 Contract number

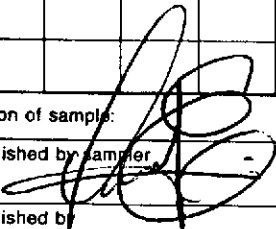
Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802/EPA 8029	MTBE EPA 1602/6029/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	Semi Metals VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CATION Metals EPA 601/7000 TLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS Lead EPA 7420/7421 <input type="checkbox"/>	
			Soil	Water	Other	Ice	Acid														
NW9		3		W			4 Acc	12/8/99	10:45		X										
NW10									13:00												
NW11									12:25												
NW15									12:10												
NW16									11:50												
NW22									11:35												
*G33H									10:05												
*G42H									11:05												
*17349WY									10:55												
*17372WY									10:30												

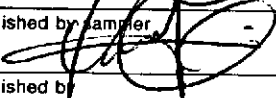
Method of shipment

Special detection Limit/reporting

Special QA/QC

Remarks
 * RUN EPA
 8000
 ON THIS HOMEOWNER WE
 W/ MTBE
 GRATER THAN
 35 ppb

Condition of sample: 

Relinquished by  Date 12/8/99 Time 15:10 Temperature received: _____
 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

