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Quarterly Groundwater Monitoring Report Fourth Quarter 2001

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

Prepared for

Mr. Paul Supple
ARCO Products Company

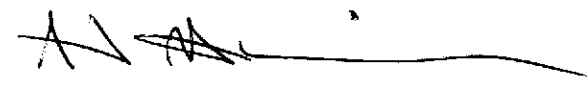
March 1, 2002

MAR 06 2002

Prepared by

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

Project 821803 (330-006)



Shaw Garakani
Project Manager



Andrew Lehane
Senior Engineer
RCE 55798



Date: March 1, 2002
Quarter: 4Q01

ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 0608 Address: 17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California
ARCO Environmental Engineer: Paul Supple
Consulting Co./Contact Person: IT Corporation (IT) – Shaw Garakani
Consultant Project No.: 821803 (330-006)
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency
Monitoring Events Performed to Date: 51

WORK PERFORMED THIS QUARTER (Fourth – 2001):

1. Submitted third quarter 2001 groundwater monitoring report.
2. IT performed fourth quarter 2001 groundwater monitoring event on December 29, 2001.
3. Prepared third quarter 2001 groundwater monitoring and remedial system performance evaluation report.
4. Continued monthly payments to homeowners for not using domestic irrigation wells.
5. Continued homeowner quarterly monitoring results notification program.
6. Continued operation and maintenance of the groundwater extraction and treatment (GWET) system.

WORK PROPOSED FOR NEXT QUARTER (First– 2002):

1. Prepare and submit fourth quarter 2001 groundwater monitoring and remedial system performance evaluation report.
2. IT will perform first quarter 2002 groundwater monitoring event.
3. Continue operation, maintenance and performance monitoring of GWET system.
4. Continue monthly payments to homeowners for not using domestic irrigation wells.
5. Continue homeowner quarterly monitoring results notification program.

Current Phase of Project:	<u>Remediation/Monitoring</u>	(Assmnt, Remed., etc.)
Frequency of Groundwater Sampling:	<u>Quarterly-Annually</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>GWET</u>	(SVE/Sparge/FP Removal, etc.)
Approximate Depth to Groundwater:	<u>7.62 to 10.97</u>	(Measure Feet)
Groundwater Gradient:	<u>NA/NA</u>	(Direction/Magnitude)
Period TPPH-g/Benzene/MtBE Removed:	<u>0.00/ 0.000/ 0.04</u>	(gallons)
Cumulative TPPH-g/Benzene/MtBE Removed:	<u>1.05/ 0.04/ 0.23</u>	(gallons)

DISCUSSION:

- Please refer to Pacific Environmental Group, Inc.'s *Quarterly Groundwater Monitoring Report – Fourth Quarter 1996* for additional historical groundwater elevation and analytical data.
- Based on elevated concentrations of methyl tert-butyl ether (MtBE), the GWET system was reactivated on June 5, 2000. Performance evaluation of the GWET system is presented as Attachment C.
- MtBE concentrations at offsite wells MW-8 and MW-10 have risen this quarter and will be closely monitored during future quarters.

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 – Fourth Quarter 2001
- Figure 3 – TPPH-g/Benzene/MtBE Concentration Map – Fourth Quarter 2001
- Attachment A – Field and Laboratory Procedures
- Attachment B – Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets
- Attachment C – Remedial System Performance Evaluation
- Attachment D – Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets for the Groundwater Extraction and Treatment System

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

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Cumulative TPPH-g/Benzene/MtBE Removed:	<u>1.05/ 0.04/ 0.23</u>	(gallons)

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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	-----Destroyed-----				
633H	-----Destroyed-----				
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

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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

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)	
MW-5	03/13, 14/96	33.99	9.75	24.24	1,600	30	<1.0	13	<1.0	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	<5.0	280	NM
	03/31/97		12.42	21.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	41	NM
	06/25/97		12.64	21.35	NS	NS	NS	NS	NS	NS	NS	NM
	09/09, 10/97		12.75	21.24	<50	<0.50	<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	<0.50	23	1.4
	03/19, 20/98		10.43	23.56	61	1.0	0.56	0.55	<0.50	<0.50	75	1.2
	06/04/98		11.24	22.75	150	<0.30	<0.30	0.32	0.74	20	1.4	
	09/21, 22/98		12.45	21.54	110	0.59	<0.50	<0.50	<0.50	25	1.8	
	12/14, 15/98		11.85	22.14	<200	<2.0	<2.0	<2.0	<2.0	600	1.2	
	03/15, 16/99		11.05	22.94	50.9	<0.50	<0.50	<0.50	<0.50	211	1.0	
	06/14, 15/99		12.25	21.74	211	<0.50	<0.50	<0.50	<0.50	212	1.2	
	09/15, 16/99		12.70	21.29	139	<0.50	<0.50	<0.50	<0.50	184	2.4	
	12/08, 09/99		12.56	21.43	87.4	<0.50	<0.50	<0.50	<0.50	197	1.2	
	03/15/00		10.10	23.89	82.4	<0.50	0.710	<0.50	0.679	906	1.2	
	03/15/00		a	—	—	—	—	—	—	—	1,230	—
	06/13/00		b	12.44	21.55	96.7	<0.50	<0.50	<0.50	<0.50	551	2.0
	9/19, 20/00		12.45	21.54	<50.0	<0.50	<0.50	<0.50	<0.50	51	2.2	
	12/14, 15/00		12.03	21.96	152.0	1.33	0.56	<0.50	<0.50	<2.50	1.0	
	3/8, 9/01		10.81	23.18	<50.0	<0.50	<0.50	<0.50	<0.50	73.8	1.6	
	06/14/01		12.25	21.74	<50.0	<0.50	<0.50	<0.50	<0.50	47.0	1.8	
09/26/01	12.83	21.16	<50.0	<0.50	<0.50	<0.50	<0.50	270.0	2.0			
12/29/01	10.97	23.02	<50.0	<0.50	<0.50	<0.50	0.95	370.0	2.4			
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	<1.0	0.7	
	09/21, 22/98		12.48	21.92	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4	
	12/14, 15/98		11.90	22.50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.2	
	03/15, 16/99		11.10	23.30	<50	<0.50	<0.50	<0.50	<0.50	<	0.0	
	06/14, 15/99		Removed From Gauging and Sampling Program									
	MW-8		03/13, 14/96	32.79	8.90	23.89	670	5.1	<2.0	<2.0	<2.0	NA
05/28, 29/96		10.58	22.21		490	<1.0	<1.0	0.91	0.91	NA	NM	
08/28/96		11.30	21.49		680	29	2.1	3.0	2.4	80	NM	
11/25/96		10.80	21.99		620	1.2	2.6	2.9	2.0	46	NM	
03/31-04/01/97		10.76	22.03		530	<1.0	1.7	2.0	3.8	380	NM	
06/25/97		11.65	21.14		480	6.7	0.69	0.8	0.71	88	NM	
09/09, 10/97		11.67	21.12		570	57	<1.0	2.1	1.7	57	2.0	
09/09, 10/97		a	—		—	—	—	—	—	—	48	—
11/24, 25/97		11.50	21.29		530	3.0	1.7	1.9	1.5	26	2.0	
03/19, 20/98		9.40	23.39		440	1.4	<0.50	<0.50	3.7	140	2.2	
06/03/98		10.25	22.54		360	2.2	1.2	1.8	1.0	47	0.3	
09/21, 22/98		11.37	21.42		380	<2.5	<2.5	<2.5	<2.5	620	0.0	
12/14, 15/98		10.80	21.99		<50	<0.50	<0.50	<0.50	<0.50	1,600	0.0	
03/15, 16/99		10.00	22.79		<500	<5.0	<5.0	<5.0	<5.0	625	0.0	
06/14, 15/99		11.17	21.62		166	<0.50	<0.50	<0.50	<0.50	141	NM	
09/15, 16/99		11.65	21.14		<500	<5.0	<5.0	<5.0	<5.0	2,380	2.4	
12/08, 09/99		11.48	21.31		213	<0.50	<0.50	<0.50	<0.50	4,160	2.8	
03/15/00		9.38	23.41		133	<0.50	3.44	<0.50	0.548	1,350	2.2	
03/15/00	a	—	—	—	—	—	—	—	1,980	—		
06/13/00	b	11.93	20.86	227	<0.50	<0.50	<0.50	<0.50	657	1.0		
9/19, 20/2000	11.46	21.33	191	1.7	3.2	<0.50	1.2	160	1.0			
12/14, 15/00	10.97	21.82	243	<0.50	<0.50	<0.50	<0.50	243	2.0			
3/8, 9/01	9.80	22.99	144	<0.50	<0.50	<0.50	<0.50	188	3.0			
06/14/01	11.22	21.57	150	3.2	0.75	<0.50	1.0	230	3.4			
09/26/01	10.80	21.99	140	<0.50	0.68	<0.50	1.9	170	0.6			
12/29/01	9.85	22.94	<50.0	<0.50	<0.50	<0.50	<0.50	560	4.2			

Table 2
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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	<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	<0.50	3.27	2.2
	09/15,16/99		10.83	21.28	<50	<0.50	<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	<0.50	<5.0	2.6
	03/15/00		8.58	23.53	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	06/13/00		b	10.48	21.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	9/19,20/00		10.53	21.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	12/14,15/00		10.35	21.76	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	3/8,9/01		9.05	23.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/14/01		10.33	21.78	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	09/26/01		10.82	21.29	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	12/29/01		8.82	23.29	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	MW-10		†† 03/13,14/96	31.67	7.78	23.89	870	35	<5.0	5.2	7.0	NA
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	180	2.4	
11/24,25/97		—	—		—	—	—	—	—	—	160	—
03/19/98		8.78	22.89		330	1.7	<0.50	<0.50	<0.50	130	1.0	
06/04/98		9.59	22.08		680	<0.30	4.8	2.3	8.6	79	0.0	
09/21,22/98		10.77	20.90		650	<0.50	<0.50	3.5	1.3	99	0.0	
12/14/98		10.18	21.49		828	<1.0	<1.0	3.39	<1.0	152	0.4	
03/15,16/99		9.30	22.37		910	17.6	1.3	5.24	<1.0	268	0.0	
06/14,15/99		10.57	21.10		643	<0.50	0.761	1.13	1.35	232	NM	
09/15,16/99		11.03	20.64		655	<1.25	1.25	<1.25	<1.25	315	5.8	
12/08,09/99		10.88	20.79		898	5.7	1.29	<1.0	<1.0	236	5.6	
03/15/00		8.68	22.99		458	<1.0	<1.0	<1.0	<1.0	266	2.2	
03/15/00		a	—		—	—	—	—	—	—	342	—
06/13/00		b	10.85		20.82	617	5.82	2.77	3.07	1.92	437	1.0
9/19,20/00		10.70	20.97		527	<0.50	0.86	0.99	1.19	413	2.2	
12/14,15/00		10.35	21.32		456	10.50	1.01	0.60	<0.50	145	4.0	
3/8,9/01		9.12	22.55		509	<0.50	21.90	3.16	3.55	161	3.2	
06/14/01		10.55	21.12		710	9.20	2.60	<0.50	1.50	290	3.0	
09/26/01	10.98	20.89	580	<0.50	1.60	1.50	1.60	250	2.6			
12/29/01	9.06	22.61	410	<0.50	6.70	2.50	2.90	950	3.2			
MW-11	03/13,14/96	32.54	8.60	23.94	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28/96		10.55	21.99	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		11.52	21.02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/96		11.00	21.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31-04/01/97		10.88	21.66	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		11.65	20.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09,10/97		11.75	20.79	80	<0.50	<0.50	<0.50	0.65	<2.5	2.0	
	11/24,25/97		11.50	21.04	<50	<0.50	<0.50	<0.50	<0.50	3.8	2.4	
	03/19/98		9.43	23.11	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	
	06/03/98		10.27	22.27	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8	
	09/21,22/98		11.43	21.11	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0	
	12/14/98		10.85	21.69	<50	<0.50	<0.50	<0.50	<0.50	<2.0	1.4	
	03/15,16/99		10.05	22.49	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.2	

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)	
MW-11 (cont)	06/14,15/99		11.25	21.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4	
	09/15/99		11.68	20.86	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.4	
	12/08,09/99		11.53	21.01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
	03/15/00		9.32	23.22	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.7	
	06/13/00	b	11.05	21.49	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0	
	9/19,20/00		11.37	21.17	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	3/8,9/01		11.00	21.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0	
	3/8,9/01		9.78	22.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	06/14/01		11.23	21.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.4	
	09/26/01		11.70	20.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6	
	12/29/01		9.91	22.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	
	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	
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	21.15	2,200	7.93	<5.0	10.50	<5.0	142	3.2	
12/08,09/99			11.75	21.31	1,490	6.57	1.36	9.21	<1.25	364	NM	
03/15/00			9.52	23.54	4,430	26.1	<10.0	15.3	<10.0	786	1.8	
03/15/00		a	—	—	—	—	—	—	—	—	908	—
06/13/00		b	22.31	10.75	262	9.52	0.584	0.535	<0.5	534	3.4	
9/19,20/00			23.15	9.91	143	1.01	<0.50	<0.50	<0.50	76	2.8	
12/14,15/00		NA	NA	181	<0.50	<0.50	0.789	<0.50	100	1.4		
3/8,9/01		23.80	9.26	370	1.78	<0.50	0.765	<0.50	76	1.6		
06/14/01		21.10	11.96	180	<0.50	<0.50	0.54	<0.50	100	2.6		
09/26/01		19.95	13.11	<50.0	<0.50	<0.50	<0.50	<0.50	210	1.8		
12/29/01		22.40	10.66	<50.0	<0.50	<0.50	<0.50	<0.50	190	2.0		
MW-13	03/13,15/96	35.42	10.90	24.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/28,29/96		12.90	22.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/28/96		13.89	21.53	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	11/25/96		13.41	22.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31-04/01/97		13.11	22.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	06/25/97		13.98	21.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09,10/97		14.09	21.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	11/24,25/97		13.90	21.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
	03/19,20/98		11.80	23.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8	
	06/04/98		12.63	22.79	<50	<0.30	<0.30	<0.30	<0.60	<10	1.3	
	09/21,22/98		13.77	21.65	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	12/14,15/98		13.28	22.14	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	
	03/15,16/99	b	12.48	22.94	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.2	
	06/14,15/99		Removed From Gauging and Sampling Program									
	MW-14	03/13,15/96	30.46	6.63	23.83	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
05/28/96			8.83	21.63	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
08/28/96			9.83	20.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
11/25/96			9.33	21.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
03/31-04/01/97			9.04	21.42	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
06/25/97			9.94	20.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
09/09,10/97			10.08	20.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0	
11/24,25/97			9.78	20.68	<50	<0.50	<0.50	<0.50	<0.50	2.9	2.6	
03/19/98			7.92	22.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
06/03/98			8.52	21.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	
09/21,22/98			9.72	20.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.8	
12/14/98			9.15	21.31	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.8	
03/15,16/99			8.20	22.26	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6	

Table 2
Groundwater Elevation and Analytical Data
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ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-14 (cont.)	06/14, 15/99		9.54	20.92	Well Sampled Annually						
	09/15/99		9.98	20.48	Well Sampled Annually						
	12/08, 09/99		9.84	20.62	Well Sampled Annually						
	03/15/00		7.78	22.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
	06/13/00	b	9.45	21.01	Well Sampled Annually						
	9/19, 20/00		9.68	20.78	Well Sampled Annually						
	12/14, 15/00		9.14	21.32	Well Sampled Annually						
	3/8, 9/01		8.10	22.36	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	06/14/01		9.51	20.95	Well Sampled Annually						
	09/26/01		9.96	20.50	Well Sampled Annually						
	12/29/01		7.62	22.84	Well Sampled Annually						
	MW-15	03/13, 15/96	31.41	8.13	23.28	<50	<0.50	<0.50	<0.50	<0.50	NA
05/28, 29/96			10.30	21.11	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
08/28/96			11.30	20.11	<50	<0.50	<0.50	<0.50	<0.50	5.3	NM
11/25/96			10.83	20.58	<50	<0.50	<0.50	<0.50	<0.50	12	NM
03/31-04/01/97			10.45	20.96	<50	<0.50	<0.50	<0.50	<0.50	7.2	NM
06/25/97			11.39	20.02	<50	<0.50	<0.50	<0.50	<0.50	7.0	NM
09/09, 10/97			11.50	19.91	Well Inaccessible						
11/24, 25/97					Well Inaccessible						
03/19/98			9.15	22.26	<50	<0.50	<0.50	<0.50	<0.50	5.3	2.2
06/04/98			NM		Well Inaccessible						
09/21, 22/98			NM		Well Inaccessible						
12/14/98			10.63	20.78	<50	<0.50	<0.50	<0.50	<0.50	48.2	1.8
03/15, 16/99			NM		Well Inaccessible						
06/14, 15/99			NM		Well Inaccessible						
09/15, 16/99			NM		Well Inaccessible						
12/08, 09/99			11.28	20.13	<50	<0.5	<0.5	<0.5	<0.5	167.0	NM
03/15/00			9.03	22.38	<50	<0.5	<0.5	<0.5	<0.5	82.1	1.5
03/15/00			--	--	--	--	--	--	--	105	--
06/13/00		b	10.96	20.45	<50	<0.5	0.703	<0.5	0.870	69.8	2.0
9/19, 20/00			11.10	20.31	<50	<0.5	<0.5	<0.5	<0.5	156.0	2.2
12/14, 15/00			NM	NA	Well Inaccessible						
3/8, 9/01		9.48	21.93	<50	<0.5	<0.5	<0.5	<0.5	63.8	2.6	
06/14/01		10.95	20.46	<50	<0.5	<0.5	<0.5	<0.5	26.0	3.0	
09/26/01		11.38	20.03	<50	<0.5	<0.5	<0.5	<0.5	17.0	1.2	
12/29/01		9.41	22.00	<50	<0.5	<0.5	<0.5	<0.5	30.0	2.2	
MW-16	03/13/96	31.39	8.62	22.77	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		10.90	20.49	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		11.84	19.55	<50	<0.50	<0.50	<0.50	<0.50	89	NM
	11/25/96		11.32	20.07	<50	<0.50	<0.50	<0.50	<0.50	66	NM
	03/31-04/01/97		11.06	20.33	<50	<0.50	<0.50	<0.50	<0.50	49	NM
	06/25/97		11.92	19.47	<50	<0.50	<0.50	<0.50	<0.50	59	NM
	09/09, 10/97		12.03	19.36	<50	<0.50	<0.50	<0.50	<0.50	63	3.0
	09/09, 10/97	a	--	--	--	--	--	--	--	86	--
	11/24, 25/97		11.76	19.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	03/19/98		9.80	21.59	<50	<0.50	<0.50	<0.50	<0.50	8.4	3.0
	06/03/98		10.55	20.84	<50	<0.50	<0.50	<0.50	<0.50	22	1.6
	09/21, 22/98		11.77	19.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.2
	12/14/98		11.20	20.19	<50	<0.50	<0.50	<0.50	<0.50	25	1.0
	03/15, 16/99		10.30	21.09	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.6
	06/14, 15/99		11.55	19.84	<50	<0.50	<0.50	<0.50	<0.50	3.13	3.4
	09/15/99		11.99	19.40	<50	<0.50	<0.50	<0.50	<0.50	8.70	3.8
	12/08, 09/99		11.80	19.59	<50	<0.50	<0.50	<0.50	<0.50	10.1	2.4
	03/15/00		9.55	21.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	06/13/00	b	11.64	19.75	<50	<0.50	0.517	<0.50	0.603	6.29	1.0
	9/19, 20/00		11.64	19.75	<50	<0.50	<0.50	<0.50	<0.50	5.01	2.0
	12/14, 15/00		11.25	20.14	<50	<0.50	<0.50	<0.50	<0.50	6.14	2.0
3/8, 9/01		10.01	21.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	
06/14/01		11.47	19.92	<50	<0.50	<0.50	<0.50	<0.50	2.5	2.6	
09/26/01		11.93	19.46	<50	<0.50	<0.50	<0.50	<0.50	3.8	1.8	
12/29/01		9.71	21.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
MW-17	Well Destroyed										
MW-18	03/13/96	29.70	7.53	22.17	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		9.88	19.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		10.82	18.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		10.18	19.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM

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Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-18 (cont.)	03/31-04/01/97		10.14	19.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		10.94	18.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09, 10/97		11.00	18.70	<50	<0.50	<0.50	<0.50	<0.50	<2.5	4.0
	11/24, 25/97		10.65	19.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.4
	03/19/98		8.95	20.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	06/03/98		9.57	20.13	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.8
	09/21, 22/98		10.80	18.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	12/14/98		10.18	19.52	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.6
	03/15, 16/99		9.20	20.50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14, 15/99		10.60	19.10	Well Sampled Annually						
	09/15/99		10.96	18.74	Well Sampled Annually						
	12/08, 09/99		10.79	18.91	Well Sampled Annually						
	03/15/00		8.80	20.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/13/00	b	10.60	19.10	Well Sampled Annually						
	9/19, 20/00		10.63	19.07	Well Sampled Annually						
	12/14, 15/00		10.39	19.31	Well Sampled Annually						
	3/8, 9/01		9.03	20.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
	06/14/01		10.40	19.30	Well Sampled Annually						
	09/26/01		10.91	18.79	Well Sampled Annually						
	12/29/01		8.24	21.46	Well Sampled Annually						
MW-19	03/13/96	29.02	7.06	21.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		9.42	19.60	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		10.33	18.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		9.67	19.35	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		9.65	19.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		10.41	18.61	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09, 10/97		10.47	18.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	11/24, 25/97		10.35	18.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6
	03/19/98		8.67	20.35	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/03/98		9.15	19.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2
	09/21, 22/98		10.28	18.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	12/14/98		9.70	19.32	<50	<0.50	<0.50	0.588	0.647	<2.0	2.4
	03/15, 16/99		Well Inaccessible								
	06/14, 15/99		Removed From Gauging and Sampling Program								
MW-20	Well Destroyed										
MW-21	03/13/96	28.72	7.58	21.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28, 29/96		9.85	18.87	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		10.75	17.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		10.00	18.72	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		10.03	18.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		10.83	17.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09, 10/97		10.90	17.82	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	11/24, 25/97		10.50	18.22	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	03/19/98		9.08	19.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.08
	06/03/98		9.57	19.15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.6
	09/21, 22/98		10.75	17.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4
	12/14/98		10.11	18.61	<50	<0.50	<0.50	<0.50	<0.50	<2.0	0.6
	03/15, 16/99		9.10	19.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14, 15/99		10.58	18.14	Well Sampled Annually						
	09/15/99		10.93	17.79	Well Sampled Annually						
	12/08, 09/99		10.70	18.02	Well Sampled Annually						
	03/15/00		8.95	19.77	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.3
	06/13/00	b	10.97	17.75	Well Sampled Annually						
	9/19, 20/00		10.66	18.06	Well Sampled Annually						
12/14, 15/00		10.30	18.42	Well Sampled Annually							
3/8, 9/01		9.00	19.72	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4	
06/14/01		10.40	18.32	Well Sampled Annually							
09/26/01		10.75	17.97	Well Sampled Annually							
12/29/01		7.86	20.86	Well Sampled Annually							
MW-22	03/13/96	29.29	7.83	21.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		10.33	18.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		11.28	18.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		10.61	18.68	<50	<0.50	<0.50	<0.50	<0.50	3.0	NM
	12/30/96		10.61	18.68	NA	NA	NA	NA	NA	3.3	NM
	03/31-04/01/97		10.56	18.73	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		11.51	17.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09, 10/97		11.45	17.84	<50	<0.50	<0.50	<0.50	<0.50	3.4	1.0
	11/24, 25/97		11.08	18.21	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
	03/19/98		9.40	19.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	06/03/98		10.00	19.29	<50	<0.50	<0.50	<0.50	<0.50	0.87	3.2
	09/21, 22/98		11.27	18.02	<50	<0.50	<0.50	<0.50	<0.50	2.1	2.8
	12/14/98		10.65	18.64	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4
	03/15, 16/99		9.67	19.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4
	06/14, 15/99		11.06	18.23	<50	<0.50	<0.50	<0.50	<0.50	5.05	1.0
	09/15/99	a	11.46	17.83	<50	<0.50	<0.50	<0.50	<0.50	49.2	1.2
	12/08, 09/99		11.25	18.04	<50	<0.50	<0.50	<0.50	<0.50	17.9	1.4

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)		
MW-22 (cont.)	03/15/00	b	9.20	20.09	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.1		
	06/13/00		11.06	18.23	<50	<0.50	<0.50	<0.50	<0.50	6.85	1.0		
	9/19,20/00		11.12	18.17	<50	<0.50	<0.50	<0.50	<0.50	3.18	1.8		
	12/14,15/00		10.85	18.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0		
	3/8,9/01		9.43	19.86	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8		
	06/14/01		10.98	18.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2		
	09/26/01		11.41	17.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0		
	12/29/01		8.78	20.51	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
	MW-23		03/13/96	30.99	9.13	21.86	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
05/28/96		11.37	19.62		<50	<0.50	<0.50	<0.50	<0.50	NA	NM		
08/28/96		12.31	18.68		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
11/25/96		11.76	19.23		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
03/31-04/01/97		11.56	19.43		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
06/25/97		12.39	18.60		<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
09/09,10/97		12.53	18.46		<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0		
11/24,25/97		12.13	18.86		<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4		
03/19/98		10.22	20.77		<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4		
06/03/98		11.03	19.96		<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.3		
09/21,22/98		12.31	18.68		<50	<0.50	0.54	1.9	<0.50	<2.5	2.2		
12/14/98		11.67	19.32		<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.0		
03/15,16/99		10.82	20.17		<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6		
06/14,15/99		12.08	18.91		Well Sampled Annually								
09/15/99		12.48	18.51		Well Sampled Annually								
12/08,09/99		12.29	18.70		Well Sampled Annually								
03/15/00		10.04	20.95		<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2		
06/13/00		11.95	19.04		Well Sampled Annually								
9/19,20/00		12.15	18.84		Well Sampled Annually								
12/14,15/00		12.25	18.74		Well Sampled Annually								
3/8,9/01		10.49	20.50		<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6		
06/14/01	11.97	19.02	Well Sampled Annually										
09/26/01	12.40	18.59	Well Sampled Annually										
12/29/01	10.42	20.57	Well Sampled Annually										
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	<1.0	0.8		
	09/21,22/98		13.13	21.25	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4		
	12/14,15/98		12.53	21.85	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.2		
	03/15,16/99		11.58	22.80	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.0		
	06/14,15/99		Removed From Gauging and Sampling Program										
MW-25	03/13,14/96	34.12	9.61	24.51	<50	<0.50	<0.50	<0.50	<0.50	NA	NM		
	05/28,29/96		11.30	22.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM		
	08/28,29/96		12.32	21.80	<50	<0.50	<0.50	<0.50	<0.50	51	NM		
	11/25/96		11.83	22.29	<50	<0.50	<0.50	<0.50	<0.50	110	NM		
	03/31-04/01/97		11.55	22.57	<50	<0.50	<0.50	<0.50	<0.50	39	NM		
	06/25/97		14.57	19.55	<50	<0.50	<0.50	<0.50	<0.50	49	NM		
	09/09,10/97		12.45	21.67	<50	<0.50	<0.50	<0.50	<0.50	78	1.0		
	09/09,10/97		a	-	-	-	-	-	-	79	-		
	11/24,25/97		12.30	21.82	<50	<0.50	<0.50	<0.50	<0.50	130	0.0		
	03/19,20/98		10.18	23.94	<50	<0.50	<0.50	<0.50	<0.50	96	1.8		
	06/04/98		11.00	23.12	<50	<0.30	<0.30	<0.30	<0.60	44	0.8		
	09/21,22/98		12.13	21.99	<50	<0.50	<0.50	<0.50	<0.50	150	0.4		
	12/14,15/98		11.60	22.52	<50	<0.50	<0.50	<0.50	<0.50	44	1.0		
	03/15,16/99		10.78	23.34	<50	<0.50	<0.50	<0.50	<0.50	26.6	2.0		
	06/14,15/99		11.97	22.15	<50	<0.50	<0.50	<0.50	<0.50	98.9	2.2		
	09/15,16/1999		12.34	21.78	<50	<0.50	<0.50	<0.50	<0.50	66.4	NM		
	12/08,09/99		12.25	21.87	<50	<0.50	<0.50	<0.50	<0.50	55.5	0.0		
	03/15/00		10.16	23.96	<50	<0.50	<0.50	<0.50	<0.50	154	1.0		
	03/15/00		a	-	-	-	-	-	-	206	-		
	06/13/00		b	11.72	22.40	<50	<0.50	<0.50	<0.50	<0.50	77.7	1.0	
	9/19,20/00		12.08	22.04	<50	1	<0.50	<0.50	<0.50	192	1.2		
12/14,15/00	11.74	22.38	<50	<0.50	<0.50	<0.50	<0.50	134	4.0				
3/8,9/01	10.53	23.59	<50	<0.50	<0.50	<0.50	<0.50	140	2.6				
06/14/01	11.95	22.17	<50	<0.50	<0.50	<0.50	<0.50	150	2.6				
09/26/01	12.22	21.90	<50	<0.50	<0.50	<0.50	<0.50	84	1.0				
12/29/01	c	33.81	10.32	23.49	73	<0.50	<0.50	1	7	94	2.2		
MW-26	03/13,15/96	33.71	9.38	24.33	<50	<0.50	<0.50	<0.50	<0.50	NA	NM		
	05/28/96		11.57	22.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM		
	08/28,29/96		12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
	11/25/96		12.03	21.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
	03/31-04/01/97		11.84	21.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM		
06/25/97	12.94	20.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM				

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-26 (cont)	09/09,10/97		12.77	20.94	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0
	11/24,25/97		12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6
	03/19,20/98		10.55	23.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/04/98		11.22	22.49	<50	<0.30	<0.30	<0.30	<0.60	<10	2.1
	09/21,22/98		12.45	21.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	12/14,15/98		11.83	21.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	03/15,16/99		10.86	22.85	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14,15/99		12.17	21.54	Well Sampled Annually						
	09/15/99		12.70	21.01	Well Sampled Annually						
	12/08,09/99		12.57	21.14	Well Sampled Annually						
	03/15/00		10.50	23.21	<50	<0.50	<0.50	<0.50	<0.50	6.55	1.4
	06/13/00	b	12.20	21.51	Well Sampled Annually						
	9/19,20/00		12.38	21.33	Well Sampled Annually						
	12/14,15/00		11.88	21.83	Well Sampled Annually						
	3/8,9/01		10.78	22.93	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/14/01		12.17	21.54	Well Sampled Annually						
	09/26/01		12.70	21.01	Well Sampled Annually						
12/29/01		10.41	23.30	Well Sampled Annually							
MtBE = Methyl tert-butyl ether MSL = Mean sea level TOB = Top of box ppb = Parts per billion ppm = Parts per million < = Less than laboratory detection limit † = Well sampled without purging. †† = ORC program initiated September 21, 1995 and discontinued on May 15, 1997.					NA = Not analyzed NM = Not measured NS = Not sampled a. = MtBE result confirmed by EPA Method 8260 b. = Depths to water originally measured from TOC. Depth to water adjusted to reflect a TOB measurement by adding the average difference between TOB and TOC measurements over the last four gauging events. c. = well elevation changed during station reconstruction, well resurveyed 11/5/2001						
Please see certified analytical reports for laboratory notes and definitions.											

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

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

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
590 H	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96 a	NS	NS	NS	NS	NS	NA	NM
	11/26/96	NS	NS	NS	NS	NS	NS	NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97 a	NS	NS	NS	NS	NS	NS	NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	11/24/97 a	NS	NS	NS	NS	NS	NS	NM
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.8
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.2
	12/14/98	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.2
	03/15/99 a	NS	NS	NS	NS	NS	NS	NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/15/99 a	NS	NS	NS	NS	NS	NS	NM
	12/08/99 a	NS	NS	NS	NS	NS	NS	NM
	03/15/00 a	NS	NS	NS	NS	NS	NS	NM
06/13/00 a	NS	NS	NS	NS	NS	NS	NM	
Well Destroyed								
633 H	03/14/96	480	10	11	1.8	140	NA	NM
	05/13/96 b	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	3.70	NM
	12/30/96	--	--	--	--	--	4.9	c NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97 a	NS	NS	NS	NS	NS	NS	NM
	09/10/97	<50	<0.50	<0.50	<0.50	0.66	<2.5	1.0
	11/24/97	110	2.0	2.1	1.0	4.2	<2.5	c NM
	03/19/98	150	1.8	0.62	<0.50	28	77	NM
	03/19/98	--	--	--	--	--	<2.0	c NM
	06/03/98	480	6.2	4.3	2.9	120	28	1.3
	09/21/98	<50	<0.50	<0.50	<0.50	0.66	<2.5	1.2
	12/14/98	<50	<0.50	<0.50	<0.50	2.21	11.7	NM
	03/15/99	<50	0.513	<0.50	<0.50	0.542	31	NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	7.93	NM
09/15/99	<50	<0.50	<0.50	<0.50	<0.50	5.65	0.0	
12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.4	
03/15/00	<50	<0.50	<0.50	<0.50	<0.50	17.5	1.2	
06/13/00	240	5.03	1.01	2.39	63.8	10.5	NM	
Well Destroyed								
634 H	03/13/96 a	NS	NS	NS	NS	NS	NA	NM
	05/27/96 a	NS	NS	NS	NS	NS	NA	NM
	08/29/96 a	NS	NS	NS	NS	NS	NA	NM
	11/26/96	NS	NS	NS	NS	NS	NS	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97 a	NS	NS	NS	NS	NS	NS	NM
	09/09/97 g	NS	NS	NS	NS	NS	NS	NM
	11/24/97 g	NS	NS	NS	NS	NS	NS	NM
03/19/98 e	NS	NS	NS	NS	NS	NS	NM	

Table 3
Groundwater Analytical Data
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ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as			Ethyl- benzene (ppb)	Xylenes (ppb)	MIBE (ppb)	Dissolved Oxygen (ppm)
		Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)				
634 H (cont.)	06/03/98 e	NS	NS	NS	NS	NS	NS	NM
	09/21/98 e	NS	NS	NS	NS	NS	NS	NM
	12/14/98 e	NS	NS	NS	NS	NS	NS	NM
	03/15/99 e	NS	NS	NS	NS	NS	NS	NM
	06/14/99 e	NS	NS	NS	NS	NS	NS	NM
	09/15/99 e	NS	NS	NS	NS	NS	NS	NM
	12/08/99 e	NS	NS	NS	NS	NS	NS	NM
	03/15/00 e	NS	NS	NS	NS	NS	NS	NM
	06/13/00 e	NS	NS	NS	NS	NS	NS	NM
	09/19/00 e	NS	NS	NS	NS	NS	NS	NM
	12/14/00 e	NS	NS	NS	NS	NS	NS	NM
	03/08/01 e	NS	NS	NS	NS	NS	NS	NM
	06/14/01 e	NS	NS	NS	NS	NS	NS	NM
	09/26/01 e	NS	NS	NS	NS	NS	NS	NM
12/29/01 e	NS	NS	NS	NS	NS	NS	NM	
642 H	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97	NS	NS	NS	NS	NS	NS	NM
	09/09/97 a	NS	NS	NS	NS	NS	NS	NM
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/19/98 a	NS	NS	NS	NS	NS	NS	NM
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM
	09/21/98 a	NS	NS	NS	NS	NS	NS	NM
	12/14/98 a	NS	NS	NS	NS	NS	NS	NM
	03/15/99 a	NS	NS	NS	NS	NS	NS	NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.2
	12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
	06/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/19/00 a	NS	NS	NS	NS	NS	NS	NM
	12/14/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
03/08/01 a	NS	NS	NS	NS	NS	NS	NM	
06/14/01 a	NS	NS	NS	NS	NS	NS	NM	
09/26/01 a	NS	NS	NS	NS	NS	NS	NM	
12/29/01 a	NS	NS	NS	NS	NS	NS	NM	
675 H	03/13/96 a	NS	NS	NS	NS	NS	NA	NM
	05/27/96 a	NS	NS	NS	NS	NS	NA	NM
	08/29/96 d	NS	NS	NS	NS	NS	NA	NM
	11/26/96	NS	NS	NS	NS	NS	NS	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM
	03/19/98 f	NS	NS	NS	NS	NS	NS	NM
	06/03/98 f	NS	NS	NS	NS	NS	NS	NM
	09/21/98 a,f	NS	NS	NS	NS	NS	NS	NM
	12/14/98 f	NS	NS	NS	NS	NS	NS	NM
	03/15/99 f	NS	NS	NS	NS	NS	NS	NM
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM
	09/15/99 f	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM
06/13/00 f	NS	NS	NS	NS	NS	NS	NM	
09/19/00 f	NS	NS	NS	NS	NS	NS	NM	

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Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MIBE (ppb)	Dissolved Oxygen (ppm)	
675 H (cont.)	12/14/00 f	NS	NS	NS	NS	NS	NS	NM	
	03/08/01 f	NS	NS	NS	NS	NS	NS	NM	
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM	
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM	
	12/29/01 f	NS	NS	NS	NS	NS	NS	NM	
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	<0.50	3.2
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0	
	12/14/98	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4	
	03/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.6	
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8	
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0	
	12/08/99 a	NS	NS	NS	NS	NS	NS	NM	
	03/15/00 a	NS	NS	NS	NS	NS	NS	NM	
	06/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/19/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM	
03/08/01 f	NS	NS	NS	NS	NS	NS	NM		
06/14/01 f	NS	NS	NS	NS	NS	NS	NM		
09/26/01 f	NS	NS	NS	NS	NS	NS	NM		
12/29/01 f	NS	NS	NS	NS	NS	NS	NM		
17200 VM	03/15/96	730	<1.0	<1.0	1.5	1.7	NA	NM	
	05/27/96	200	<0.50	<0.50	1.4	1.8	NA	NM	
	08/29/96	----- Well Destroyed -----							
17203 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	03/31/97 f	NS	NS	NS	NS	NS	NS	NM	
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM	
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM	
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM	
	03/19/98	----- Well Dry -----							
	06/03/98 f	NS	NS	NS	NS	NS	NS	NM	
	09/21/98 f	NS	NS	NS	NS	NS	NS	NM	
	12/14/98 f	NS	NS	NS	NS	NS	NS	NM	
	03/15/99 f	NS	NS	NS	NS	NS	NS	NM	
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM	
	09/15/99 f	NS	NS	NS	NS	NS	NS	NM	
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM	
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM	
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM	
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM	
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM	
	03/08/01 f	NS	NS	NS	NS	NS	NS	NM	
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM	
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM	
12/29/01 f	NS	NS	NS	NS	NS	NS	NM		
17302 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	

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Well Address	Date Sampled	TPPH as			Ethyl- benzene (ppb)	Xylenes (ppb)	MBE (ppb)	Dissolved Oxygen (ppm)	
		Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)					
17302 VM (cont.)	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	
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM	
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM	
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM	
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM	
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM	
	03/08/01 f	NS	NS	NS	NS	NS	NS	NM	
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM	
09/26/01 f	NS	NS	NS	NS	NS	NS	NM		
17348 VE	03/13/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM	
	05/27/96	Well Dry							
	08/29/96	Well Dry							
	11/26/96	Well Dry							
	03/31/97	Well Dry							
	06/25/97	Well Inaccessible							
	09/09/97 g	NS	NS	NS	NS	NS	NS	NM	
	11/24/97 g	NS	NS	NS	NS	NS	NS	NM	
	03/19/98 a	NS	NS	NS	NS	NS	NS	NM	
	06/03/98 a	NS	NS	NS	NS	NS	NS	NM	
	09/21/98 a	NS	NS	NS	NS	NS	NS	NM	
	12/14/98 a	NS	NS	NS	NS	NS	NS	NM	
	03/15/99 a	NS	NS	NS	NS	NS	NS	NM	
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM	
	09/15/99 f	NS	NS	NS	NS	NS	NS	NM	
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM	
	03/15/00 a	NS	NS	NS	NS	NS	NS	NM	
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM	
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM	
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM	
03/08/01 f	NS	NS	NS	NS	NS	NS	NM		
06/14/01 f	NS	NS	NS	NS	NS	NS	NM		
09/26/01 f	NS	NS	NS	NS	NS	NS	NM		
12/29/01 f	NS	NS	NS	NS	NS	NS	NM		
17349 VM	03/15/96	1,700	<2.0	<2.0	2.5	13	NA	NM	
	05/27/96	320	4.2	1.3	0.95	0.71	NA	NM	
	08/29/96	410	7.5	<0.50	<0.50	1.1	NA	NM	
	11/26/96	300	<1.0	1.7	<1.0	2.1	*	NM	
	03/31/97	430	<1.0	2.7	<1.0	1.0	c	NM	
	06/25/97 **	2,100	30	<5.0	<5.0	6.7	140	NM	
	08/18/97	320	2.0	<0.5	<0.5	<0.5	34	NM	
	08/18/97	--	--	--	--	--	31	c	NM
	09/09/97	380	6.0	1.4	0.98	<0.50	38	3.0	
	09/09/97	--	--	--	--	--	34	c	NM
	11/24/97	240	<1.0	1.1	<1.0	1.4	53	2.4	
	11/24/97	--	--	--	--	--	33	c†	NM
	03/19/98	1,300	14	<0.50	<0.50	1.2	250	1.0	
	03/19/98	--	--	--	--	--	27	c	NM

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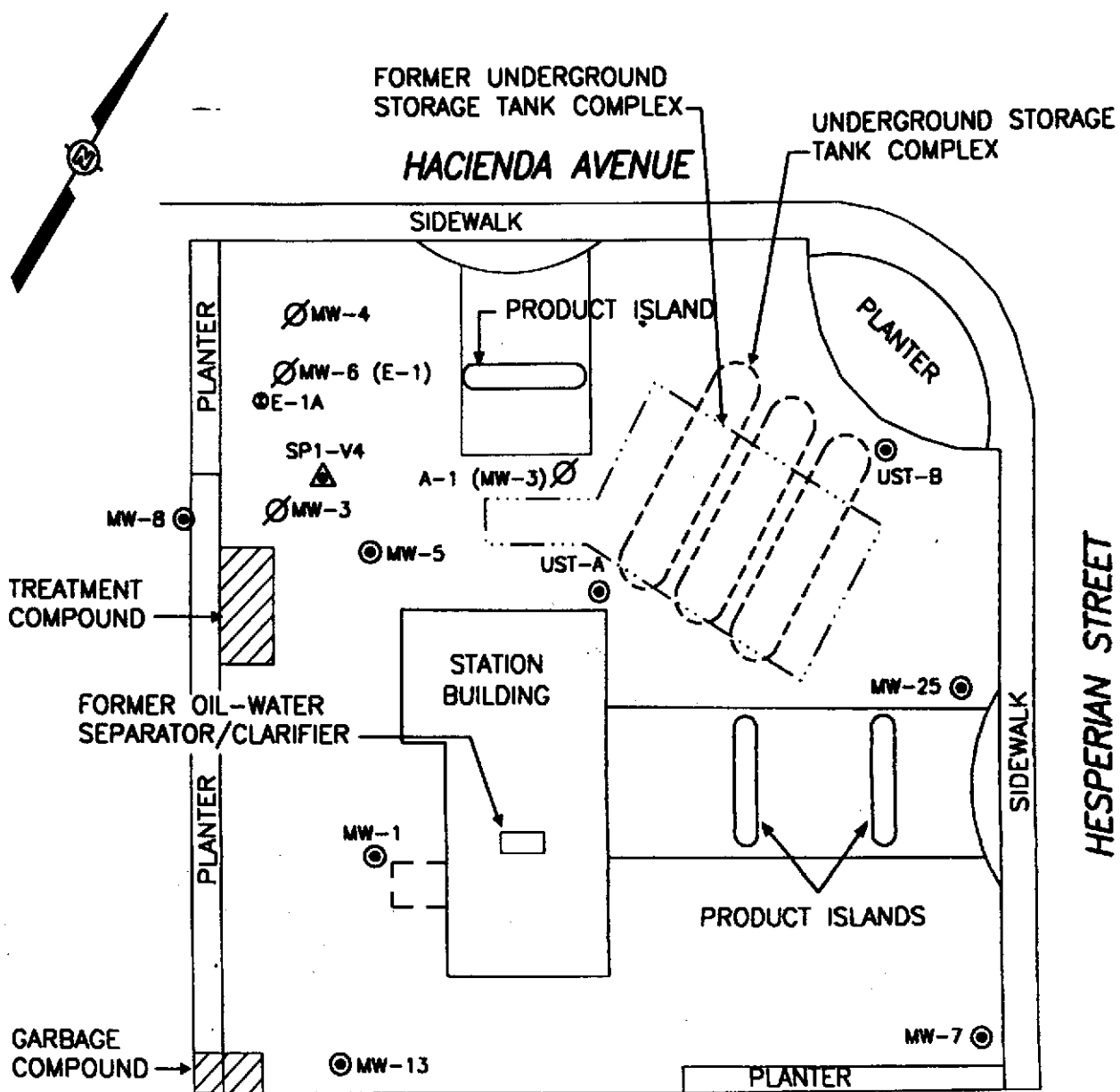
Well Address	Date Sampled	TPPH as		Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
		Gasoline (ppb)	Benzene (ppb)					
17349 VM (cont.)	06/03/98	860	8.7	<0.50	0.7	8.0	38	4.9
	07/29/98	860	20	2.1	<1.2	<1.2	27	NM
	07/29/98	--	--	--	--	--	25	c NM
	09/21/98	200	<0.50	<0.50	<0.50	14	14	5.2
	12/14/98	254	<0.50	6.92	0.604	1.58	21.7	1.0
	03/15/99	172	1.35	<0.50	<0.50	<0.50	24.2	3.6
	06/14/99	91	<0.50	3.53	<0.50	<0.50	88.3	2.8
	09/15/99 a	133	<0.50	<0.50	<0.50	<0.50	184	2.2
	12/08/99	136	0.681	<0.50	<0.50	<0.50	267	c 2.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	82.1	c 2.8
	06/13/00	319	5.28	<0.5	<0.50	<0.50	97.1	NM
	06/13/00	--	--	--	--	--	85.1	c NM
	09/19/00	106	<0.50	2	<0.50	<0.50	204.0	NM
	09/19/00	--	--	--	--	--	84.0	c NM
	12/14/00	65.9	0.61	<0.50	<0.50	<0.50	188.0	1.8
	12/14/00	--	--	--	--	--	197.0	c NM
	03/08/01	<50	<0.50	<0.50	<0.50	<0.50	91.8	1.8
	03/08/01	--	--	--	--	--	98.3	c NM
	06/14/01	<50	<0.50	<0.50	<0.50	<0.50	68.0	2.8
	06/14/01	--	--	--	--	--	99.0	c NM
09/26/01	52	0.53	<0.50	<0.50	<0.50	49.0	1.8	
09/26/01	--	--	--	--	--	54.0	c	
12/29/01	<50.0	<0.50	0.78	<0.50	<0.50	58.0	NM	
12/29/01	--	--	--	--	--	48.0	c NM	
17371 VM	03/13/96 e	NS	NS	NS	NS	NS	NA	NM
	05/27/96 e	NS	NS	NS	NS	NS	NA	NM
	08/29/96 e	NS	NS	NS	NS	NS	NA	NM
	11/26/96 e	NS	NS	NS	NS	NS	NS	NM
	03/31/97 e	NS	NS	NS	NS	NS	NS	NM
	06/25/97 e	NS	NS	NS	NS	NS	NS	NM
	09/09/97 e	NS	NS	NS	NS	NS	NS	NM
	11/24/97 e	NS	NS	NS	NS	NS	NS	NM
	03/19/98 e	NS	NS	NS	NS	NS	NS	NM
	06/03/98 e	NS	NS	NS	NS	NS	NS	NM
	09/21/98 e	NS	NS	NS	NS	NS	NS	NM
	12/14/98 e	NS	NS	NS	NS	NS	NS	NM
	03/15/99 e	NS	NS	NS	NS	NS	NS	NM
	06/14/99 e	NS	NS	NS	NS	NS	NS	NM
	09/15/99 e	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM
03/08/01 f	NS	NS	NS	NS	NS	NS	NM	
06/14/01 f	NS	NS	NS	NS	NS	NS	NM	
09/26/01 f	NS	NS	NS	NS	NS	NS	NM	
12/29/01 f	NS	NS	NS	NS	NS	NS	NM	
17372 VM	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	4.0
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	1,200	1.8
	03/19/98	--	--	--	--	--	1,400	c NM
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	16,000	1.8
	07/29/98	<200	<2.0	<2.0	<2.0	<2.0	940	NM

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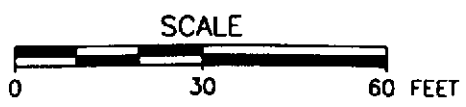
Well Address	Date Sampled	TPPH as			Ethyl-benzene (ppb)	Xylenes (ppb)	MBE (ppb)	Dissolved Oxygen (ppm)
		Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)				
17372 VM	07/29/98	--	--	--	--	--	1,100	c NM
(cont.)	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	200	
	09/21/98	--	--	--	--	--	360	c NM
	12/14/98	<50	<0.50	0.823	<0.50	<0.50	20.1	3.8
	03/15/99	<50	<0.50	<0.50	<0.50	<0.50	6.66	4.6
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	3.33	4.0
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.0
	12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NM
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
	06/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/19/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	12/14/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	03/08/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	06/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
	09/26/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	12/29/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.1
17393 VM	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
VM	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97 a	NS	NS	NS	NS	NS	NS	NM
	06/25/97	Well Destroyed						
<p>TPPH = Total purgeable petroleum hydrocarbons MBE = 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. * = MBE 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. MBE 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.</p> <p>Notes: Homeowners are contacted 1 week prior to sampling event. Please see certified analytical reports for laboratory notes and definitions</p>								

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

PROJECT NUMBER 821803

APPROVED BY

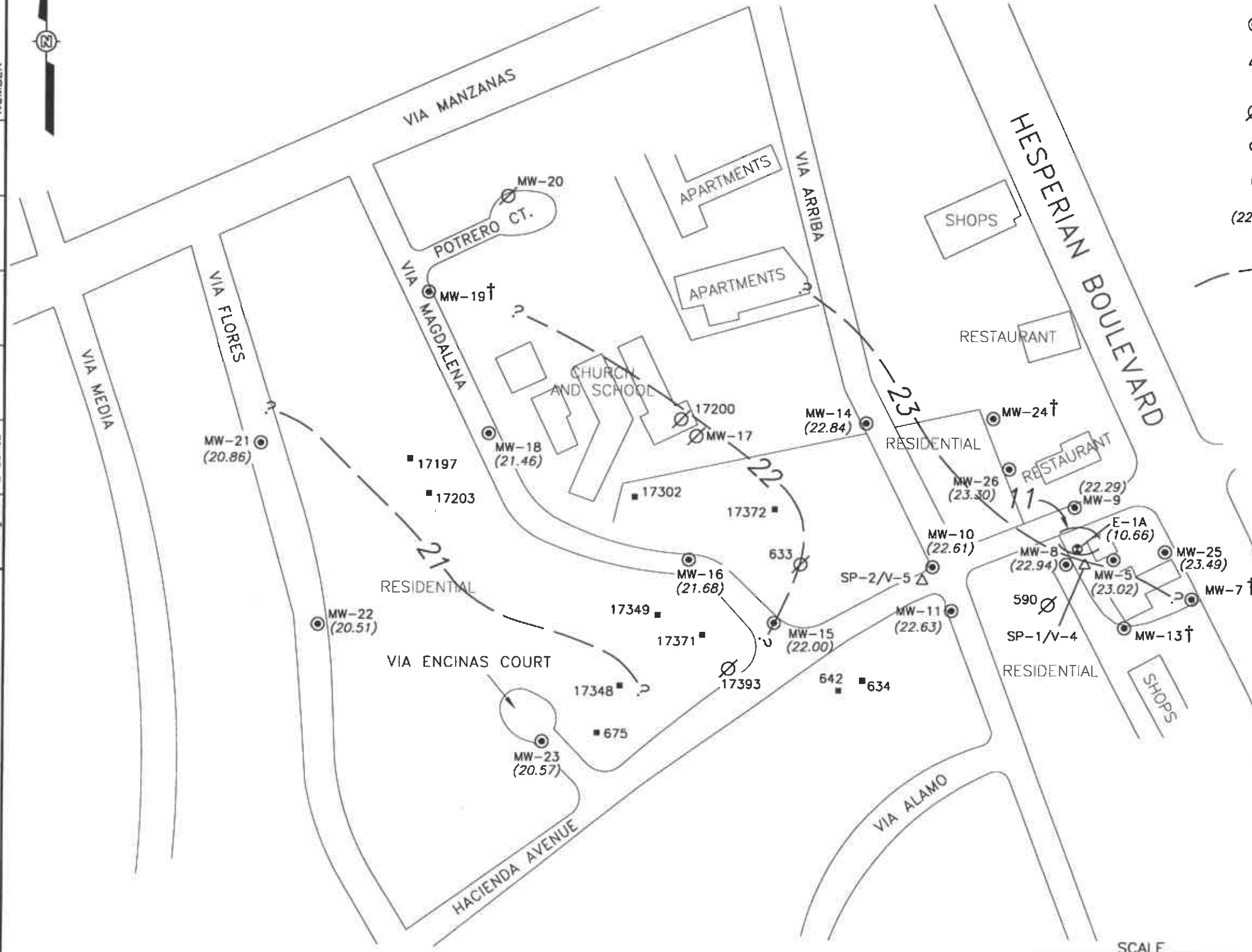
CHECKED BY

DRAWN BY L. Wahlgren 2-28-02

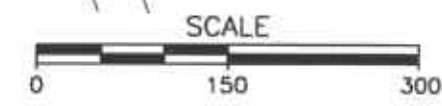


LEGEND

- ⊙ GROUNDWATER MONITORING WELL
- △ DUAL COMPLETION AIR SPARGING/ SOIL VAPOR EXTRACTION WELL
- ∅ DESTROYED WELL
- ⊕ GROUNDWATER EXTRACTION WELL
- DOMESTIC IRRIGATION WELL
- (22.29) GROUNDWATER ELEVATION (FT.-MSL); MEASURED 12-29-01
- GROUNDWATER ELEVATION CONTOUR (FT.-MSL)
- † WELL REMOVED FROM MONITORING PROGRAM



← APPROXIMATE DIRECTION OR GROUNDWATER FLOW
 APPROXIMATE GRADIENT = 0.003



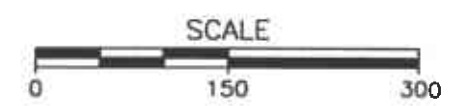
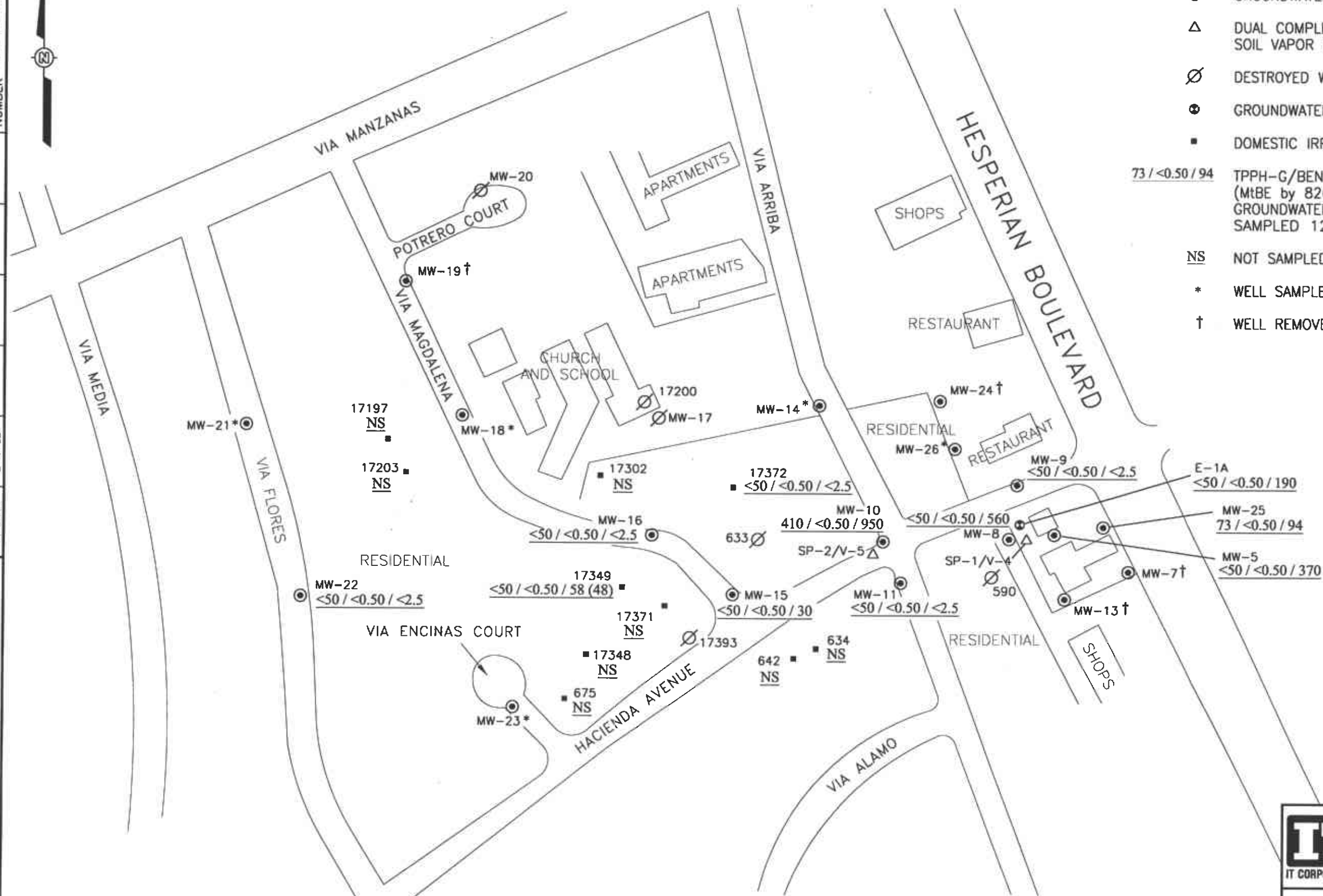
ARCO SERVICE STATION 0608

FIGURE 2
 GROUNDWATER ELEVATION CONTOUR MAP
 FOURTH QUARTER 2001
 17601 HESPERIAN BLVD at HACIENDA AVE
 SAN LORENZO, CALIFORNIA

PROJECT NUMBER 821803
 DRAWN BY K. Block 2-4-02
 CHECKED BY
 APPROVED BY



- LEGEND**
- ⊙ GROUNDWATER MONITORING WELL
 - △ DUAL COMPLETION AIR SPARGING/
SOIL VAPOR EXTRACTION WELL
 - ∅ DESTROYED WELL
 - ⊕ GROUNDWATER EXTRACTION WELL
 - DOMESTIC IRRIGATION WELL
- 73 / <0.50 / 94
 TPPH-G/BENZENE/MtBE by EPA 8020
 (MtBE by 8260) CONCENTRATIONS IN
 GROUNDWATER (PARTS PER BILLION);
 SAMPLED 12-29-01
- NS NOT SAMPLED
- * WELL SAMPLED ANNUALLY IN FIRST QUARTER
- † WELL REMOVED FROM SAMPLING PROGRAM



	ARCO SERVICE STATION 060B
	FIGURE 3 TPPH-g/BENZENE/MtBE CONCENTRATION MAP FOURTH QUARTER 2001 17601 HESPERIAN BLVD at HACIENDA AVE SAN LORENZO, CALIFORNIA

ATTACHMENT A
FIELD AND LABORATORY PROCEDURES

ATTACHMENT A

FIELD AND LABORATORY PROCEDURES

Sampling Procedures

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

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**



**Sequoia
Analytical**

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

31 January, 2002

Shaw Garakani
Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose, CA 95131

RE: Facility 0608, San Lorenzo, Ca
Sequoia Report: MLA0027

Enclosed are the results of analyses for samples received by the laboratory on 12/31/01 12:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley
Project Manager

CA ELAP Certificate #1210



Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo, Ca
Project Number: 17061 Hesperian Blvd
Project Manager: Shaw Garakani

Reported:
01/31/02 15:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	MLA0027-01	Water	12/29/01 13:25	12/31/01 12:25
MW-8	MLA0027-02	Water	12/29/01 11:00	12/31/01 12:25
MW-9	MLA0027-03	Water	12/29/01 10:30	12/31/01 12:25
MW-10	MLA0027-04	Water	12/29/01 11:40	12/31/01 12:25
MW-11	MLA0027-05	Water	12/29/01 10:00	12/31/01 12:25
MW-15	MLA0027-06	Water	12/29/01 09:35	12/31/01 12:25
MW-16	MLA0027-07	Water	12/29/01 09:15	12/31/01 12:25
MW-22	MLA0027-08	Water	12/29/01 08:30	12/31/01 12:25
MW-25	MLA0027-09	Water	12/29/01 13:00	12/31/01 12:25
E1-A	MLA0027-10	Water	12/29/01 13:40	12/31/01 12:25
17372VM	MLA0027-11	Water	12/29/01 11:45	12/31/01 12:25
17349VM	MLA0027-12	Water	12/29/01 12:15	12/31/01 12:25

Sequoia Analytical - Morgan Hill

James Hartley, Project Manager

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



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

Pacific Environmental Group (Arco)
 1921 Ringwood Avenue
 San Jose CA, 95131

Project: Facility 0608, San Lorenzo, Ca
 Project Number: 17061 Hesperian Blvd
 Project Manager: Shaw Garakani

Reported:
 01/31/02 15:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MLA0027-01) Water Sampled: 12/29/01 13:25 Received: 12/31/01 12:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A09004	01/09/02	01/09/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	0.95	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	370	25	"	10	"	"	"	"	A-01,M-03
Surrogate: a,a,a-Trifluorotoluene		93.7 %	70-130		"	"	"	"	
MW-8 (MLA0027-02) Water Sampled: 12/29/01 11:00 Received: 12/31/01 12:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A08005	01/08/02	01/08/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	560	25	"	10	"	"	"	"	A-01a,M-03
Surrogate: a,a,a-Trifluorotoluene		96.6 %	70-130		"	"	"	"	
MW-9 (MLA0027-03) Water Sampled: 12/29/01 10:30 Received: 12/31/01 12:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A08005	01/08/02	01/08/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.9 %	70-130		"	"	"	"	

Pacific Environmental Group (Arco)
 1921 Ringwood Avenue
 San Jose CA, 95131

 Project: Facility 0608, San Lorenzo, Ca
 Project Number: 17061 Hesperian Blvd
 Project Manager: Shaw Garakani

Reported:
 01/31/02 15:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (MLA0027-04) Water Sampled: 12/29/01 11:40 Received: 12/31/01 12:25									
Gasoline Range Organics (C6-C10)	410	50	ug/l	1	2A09004	01/09/02	01/09/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	6.7	0.50	"	"	"	"	"	"	
Ethylbenzene	2.5	0.50	"	"	"	"	"	"	
Xylenes (total)	2.9	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	950	25	"	10	"	"	"	"	A-01,M-03
Surrogate: a,a,a-Trifluorotoluene		102 %		70-130	"	"	"	"	
MW-11 (MLA0027-05) Water Sampled: 12/29/01 10:00 Received: 12/31/01 12:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A08005	01/08/02	01/08/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.1 %		70-130	"	"	"	"	
MW-15 (MLA0027-06) Water Sampled: 12/29/01 09:35 Received: 12/31/01 12:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A08005	01/08/02	01/08/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	30	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.2 %		70-130	"	"	"	"	



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

Pacific Environmental Group (Arco)
 1921 Ringwood Avenue
 San Jose CA, 95131

Project: Facility 0608, San Lorenzo, Ca
 Project Number: 17061 Hesperian Blvd
 Project Manager: Shaw Garakani

Reported:
 01/31/02 15:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-16 (MLA0027-07) Water Sampled: 12/29/01 09:15 Received: 12/31/01 12:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A08005	01/08/02	01/08/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.6 %	70-130		"	"	"	"	
MW-22 (MLA0027-08) Water Sampled: 12/29/01 08:30 Received: 12/31/01 12:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A08005	01/08/02	01/08/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.5 %	70-130		"	"	"	"	
MW-25 (MLA0027-09) Water Sampled: 12/29/01 13:00 Received: 12/31/01 12:25									
Gasoline Range Organics (C6-C10)	73	50	ug/l	1	2A08005	01/08/02	01/08/02	8015Bm/8021B	P-03
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	1.4	0.50	"	"	"	"	"	"	
Xylenes (total)	7.1	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	94	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.4 %	70-130		"	"	"	"	



885 Jarvis Drive
 Morgan Hill, CA 95037
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 www.sequoialabs.com

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 1921 Ringwood Avenue
 San Jose CA, 95131

Project: Facility 0608, San Lorenzo, Ca
 Project Number: 17061 Hesperian Blvd
 Project Manager: Shaw Garakani

Reported:
 01/31/02 15:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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E1-A (MLA0027-10) Water Sampled: 12/29/01 13:40 Received: 12/31/01 12:25

Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A08005	01/08/02	01/08/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	190	2.5	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 96.7 % 70-130 " " " "

17372VM (MLA0027-11) Water Sampled: 12/29/01 11:45 Received: 12/31/01 12:25

Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A08004	01/08/02	01/08/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 87.6 % 70-130 " " " "

17349VM (MLA0027-12) Water Sampled: 12/29/01 12:15 Received: 12/31/01 12:25

Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A08004	01/08/02	01/08/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	0.78	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	58	2.5	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 92.3 % 70-130 " " " "

Pacific Environmental Group (Arco)
 1921 Ringwood Avenue
 San Jose CA, 95131

 Project: Facility 0608, San Lorenzo, Ca
 Project Number: 17061 Hesperian Blvd
 Project Manager: Shaw Garakani

 Reported:
 01/31/02 15:05

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
17349VM (MLA0027-12) Water Sampled: 12/29/01 12:15 Received: 12/31/01 12:25									
Methyl tert-butyl ether	48	1.0	ug/l	2	2A09025	01/09/02	01/09/02	EPA 8260B	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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



Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo, Ca
Project Number: 17061 Hesperian Blvd
Project Manager: Shaw Garakani

Reported:
01/31/02 15:05

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
17349VM (MLA0027-12) Water Sampled: 12/29/01 12:15 Received: 12/31/01 12:25									
n-Propylbenzene	ND	1.0	ug/l	2	2A09025	01/09/02	01/09/02	EPA 8260B	
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Total Xylenes	ND	1.0	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		117 %	50-150	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	50-150	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		113 %	50-150	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	50-150	"	"	"	"	"	"

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2A08004 - EPA 5030B [P/T]
Blank (2A08004-BLK1)

Prepared & Analyzed: 01/08/02

Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.09		"	10.0		90.9	70-130			

LCS (2A08004-BS1)

Prepared & Analyzed: 01/08/02

Benzene	9.53	0.50	ug/l	10.0		95.3	70-130			
Toluene	8.82	0.50	"	10.0		88.2	70-130			
Ethylbenzene	9.90	0.50	"	10.0		99.0	70-130			
Xylenes (total)	28.4	0.50	"	30.0		94.7	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	8.97		"	10.0		89.7	70-130			

LCS (2A08004-BS2)

Prepared & Analyzed: 01/08/02

Gasoline Range Organics (C6-C10)	233	50	ug/l	250		93.2	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	13.0		"	10.0		130	70-130			

Matrix Spike (2A08004-MS1)

Source: MLA0022-03

Prepared & Analyzed: 01/08/02

Gasoline Range Organics (C6-C10)	485	50	ug/l	550	ND	84.5	60-140			
Benzene	7.00	0.50	"	6.60	ND	106	60-140			
Toluene	36.0	0.50	"	39.7	ND	90.5	60-140			
Ethylbenzene	9.56	0.50	"	9.20	ND	104	60-140			
Xylenes (total)	45.7	0.50	"	46.1	ND	99.1	60-140			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	12.5		"	10.0		125	70-130			

Matrix Spike Dup (2A08004-MSD1)

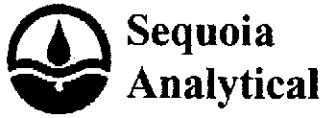
Source: MLA0022-03

Prepared & Analyzed: 01/08/02

Gasoline Range Organics (C6-C10)	487	50	ug/l	550	ND	84.9	60-140	0.412	25	
Benzene	7.02	0.50	"	6.60	ND	106	60-140	0.285	25	
Toluene	36.4	0.50	"	39.7	ND	91.5	60-140	1.10	25	
Ethylbenzene	9.56	0.50	"	9.20	ND	104	60-140	0.00	25	
Xylenes (total)	46.1	0.50	"	46.1	ND	100	60-140	0.871	25	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	12.6		"	10.0		126	70-130			

Sequoia Analytical - Morgan Hill

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2A08005 - EPA 5030B [P/T]

Blank (2A08005-BLK1)

Prepared & Analyzed: 01/08/02

Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.01		"	10.0		90.1	70-130			

LCS (2A08005-BS1)

Prepared & Analyzed: 01/08/02

Benzene	9.76	0.50	ug/l	10.0		97.6	70-130			
Toluene	9.43	0.50	"	10.0		94.3	70-130			
Ethylbenzene	10.1	0.50	"	10.0		101	70-130			
Xylenes (total)	32.7	0.50	"	30.0		109	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.45		"	10.0		94.5	70-130			

LCS (2A08005-BS2)

Prepared & Analyzed: 01/08/02

Gasoline Range Organics (C6-C10)	255	50	ug/l	250		102	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.15		"	10.0		91.5	70-130			

Matrix Spike (2A08005-MS1)

Source: MLA0027-05

Prepared & Analyzed: 01/08/02

Gasoline Range Organics (C6-C10)	569	50	ug/l	550	ND	103	60-140			
Benzene	8.68	0.50	"	6.60	ND	132	60-140			
Toluene	38.3	0.50	"	39.7	ND	96.5	60-140			
Ethylbenzene	9.08	0.50	"	9.20	ND	98.7	60-140			
Xylenes (total)	45.1	0.50	"	46.1	ND	97.8	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.0		"	10.0		100	70-130			

Matrix Spike Dup (2A08005-MSD1)

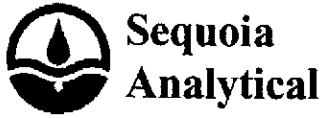
Source: MLA0027-05

Prepared & Analyzed: 01/08/02

Gasoline Range Organics (C6-C10)	536	50	ug/l	550	ND	97.5	60-140	5.97	25	
Benzene	6.04	0.50	"	6.60	ND	91.5	60-140	35.9	25	QR-02
Toluene	30.3	0.50	"	39.7	ND	76.3	60-140	23.3	25	
Ethylbenzene	6.22	0.50	"	9.20	ND	67.6	60-140	37.4	25	QR-02
Xylenes (total)	41.6	0.50	"	46.1	ND	90.2	60-140	8.07	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.1		"	10.0		111	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2A09004 - EPA 5030B [P/T]

Blank (2A09004-BLK1)

Prepared & Analyzed: 01/09/02

Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.51		"	10.0		85.1	70-130			

LCS (2A09004-BS1)

Prepared & Analyzed: 01/09/02

Benzene	9.09	0.50	ug/l	10.0		90.9	70-130			
Toluene	8.53	0.50	"	10.0		85.3	70-130			
Ethylbenzene	9.58	0.50	"	10.0		95.8	70-130			
Xylenes (total)	27.8	0.50	"	30.0		92.7	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.90		"	10.0		89.0	70-130			

LCS (2A09004-BS2)

Prepared & Analyzed: 01/09/02

Gasoline Range Organics (C6-C10)	220	50	ug/l	250		88.0	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.02		"	10.0		60.2	70-130			S-04

LCS (2A09004-BS3)

Prepared & Analyzed: 01/09/02

Gasoline Range Organics (C6-C10)	470	50	ug/l	550		85.5	70-130			
Benzene	8.31	0.50	"	6.60		126	70-130			
Toluene	35.1	0.50	"	39.7		88.4	70-130			
Ethylbenzene	9.50	0.50	"	9.20		103	70-130			
Xylenes (total)	45.4	0.50	"	46.1		98.5	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.2		"	10.0		112	70-130			

LCS Dup (2A09004-BSD3)

Prepared & Analyzed: 01/09/02

Gasoline Range Organics (C6-C10)	460	50	ug/l	550		83.6	70-130	2.15	25	
Benzene	8.22	0.50	"	6.60		125	70-130	1.09	25	
Toluene	36.5	0.50	"	39.7		91.9	70-130	3.91	25	
Ethylbenzene	9.49	0.50	"	9.20		103	70-130	0.105	25	
Xylenes (total)	45.9	0.50	"	46.1		99.6	70-130	1.10	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.4		"	10.0		114	70-130			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2A09025 - EPA 5030B MeOH
Blank (2A09025-BLK1)

Prepared & Analyzed: 01/09/02

Methyl tert-butyl ether	ND	0.50	ug/l						
Benzene	ND	0.50	"						
Bromobenzene	ND	0.50	"						
Bromochloromethane	ND	0.50	"						
Bromodichloromethane	ND	0.50	"						
Bromoform	ND	0.50	"						
Bromomethane	ND	0.50	"						
n-Butylbenzene	ND	0.50	"						
sec-Butylbenzene	ND	0.50	"						
tert-Butylbenzene	ND	0.50	"						
Carbon tetrachloride	ND	0.50	"						
Chlorobenzene	ND	0.50	"						
Chloroethane	ND	0.50	"						
Chloroform	ND	0.50	"						
Chloromethane	ND	0.50	"						
2-Chlorotoluene	ND	0.50	"						
4-Chlorotoluene	ND	0.50	"						
Dibromochloromethane	ND	0.50	"						
1,2-Dibromoethane	ND	0.50	"						
Dibromomethane	ND	0.50	"						
1,2-Dibromo-3-chloropropane	ND	1.0	"						
1,2-Dichlorobenzene	ND	0.50	"						
1,3-Dichlorobenzene	ND	0.50	"						
1,4-Dichlorobenzene	ND	0.50	"						
Dichlorodifluoromethane	ND	0.50	"						
1,1-Dichloroethane	ND	0.50	"						
1,2-Dichloroethane	ND	0.50	"						
1,1-Dichloroethene	ND	0.50	"						
cis-1,2-Dichloroethene	ND	0.50	"						
trans-1,2-Dichloroethene	ND	0.50	"						
1,2-Dichloropropane	ND	0.50	"						
1,3-Dichloropropane	ND	0.50	"						
2,2-Dichloropropane	ND	2.0	"						
1,1-Dichloropropene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
Hexachlorobutadiene	ND	2.0	"						

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

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2A09025 - EPA 5030B MeOH

Blank (2A09025-BLK1)

Prepared & Analyzed: 01/09/02

Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Total Xylenes	ND	0.50	"							
Surrogate: Dibromofluoromethane	11.7		"	10.0		117	50-150			
Surrogate: 1,2-Dichloroethane-d4	10.7		"	10.0		107	50-150			
Surrogate: Toluene-d8	11.3		"	10.0		113	50-150			
Surrogate: 4-Bromofluorobenzene	10.1		"	10.0		101	50-150			

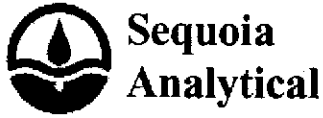
LCS (2A09025-BS1)

Prepared & Analyzed: 01/09/02

Benzene	10.8	0.50	ug/l	10.0		108	70-130			
Chlorobenzene	10.4	0.50	"	10.0		104	70-130			
1,1-Dichloroethene	11.7	0.50	"	10.0		117	70-130			
Toluene	11.5	0.50	"	10.0		115	70-130			
Trichloroethene	11.3	0.50	"	10.0		113	70-130			
Surrogate: Dibromofluoromethane	11.8		"	10.0		118	50-150			
Surrogate: 1,2-Dichloroethane-d4	10.4		"	10.0		104	50-150			
Surrogate: Toluene-d8	11.3		"	10.0		113	50-150			
Surrogate: 4-Bromofluorobenzene	10.0		"	10.0		100	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2A09025 - EPA 5030B MeOH

LCS Dup (2A09025-BSD1)

Prepared & Analyzed: 01/09/02

Benzene	10.9	0.50	ug/l	10.0	109	70-130	0.922	25		
Chlorobenzene	10.9	0.50	"	10.0	109	70-130	4.69	25		
1,1-Dichloroethene	11.8	0.50	"	10.0	118	70-130	0.851	25		
Toluene	11.5	0.50	"	10.0	115	70-130	0.00	25		
Trichloroethene	11.6	0.50	"	10.0	116	70-130	2.62	25		
<i>Surrogate: Dibromofluoromethane</i>	<i>11.9</i>		<i>"</i>	<i>10.0</i>	<i>119</i>	<i>50-150</i>				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>	<i>107</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>11.4</i>		<i>"</i>	<i>10.0</i>	<i>114</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>	<i>103</i>	<i>50-150</i>				



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Notes and Definitions

- A-01 MTBE was analyzed on 1/8/02.
- A-01a MTBE was analyzed on 1/9/02.
- M-03 This result is from a second dilution of the sample. An initial result was reported from a previous dilution of the sample necessary to report other analytes in a different range.
- P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C10
- QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- S-04 The surrogate recovery for this sample is outside control limits due to interference from the sample matrix.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



**SEQUOIA ANALYTICAL
CHAIN OF CUSTODY**

ARCO Products Co.

- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: *IT Group* Project: *02/003 17601 Aspenwood Blvd*
 Mailing Address: *1901 Ringwood Av.* Billing Address (if different): *San Mateo CA.*
 City: *San Jose* State: *CA* Zip Code: *95131* *Mike Whelan ARCO ENGINEER*
 Telephone: *(408) 4537300* Fax #: *(408) 4374500* P.O. #: *TASK ORDER 2415000*
 Report To: *Steve Chapman* E-Mail: *Don Waterman* QC Data: Level II (Standard) Level III Level IV
 Sampler: *PEARL ERDZ* Date / Time Results Required: Sequoia's Work Order # *MLA0027*

Turnaround 10 - 15 Working Days
 Time: (Standard TAT)
 7 Working Days
 5 Working Days

72 Hours
 48 Hours
 24 Hours
 2-8 Hours

MANDATORY:
 SDWA (Drinking Water)
 CWA (Waste Water)
 RCRA (Hazardous Waste)
 Other

ANALYSES REQUESTED (Please provide method)

*TEST FOR
METHANE
IN
8015*

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Comments/Temp. (If required)
<i>1. Mw 5</i>	<i>1009011325 W</i>		<i>3</i>	<i>4pm 1kg</i>	<i>01</i>	
<i>2. Mw 8</i>	<i>10:00</i>				<i>02</i>	
<i>3. Mw 9</i>	<i>10:30</i>				<i>03</i>	
<i>4. Mw 10</i>	<i>11:40</i>				<i>04</i>	
<i>5. Mw 11</i>	<i>12:00</i>				<i>05</i>	
<i>6. Mw 15</i>	<i>9:35</i>				<i>06</i>	
<i>7. Mw 16</i>	<i>10:15</i>				<i>07</i>	
<i>8. Mw 02</i>	<i>8:30</i>				<i>08</i>	
<i>9. Mw 05</i>	<i>13:00</i>				<i>09</i>	
<i>10. E1-A</i>	<i>10:10</i>				<i>10</i>	



SEQUOIA ANALYTICAL

Relinquished By: *[Signature]* Received By: *[Signature]* Date / Time: *12/31/01 11:27*
 Relinquished By: *[Signature]* Received By: *[Signature]* Date / Time: *12/3/01 12:25*
 Relinquished By: _____ Received By: _____ Date / Time: _____
 Relinquished By: _____ Received By: _____ Date / Time: _____

Pink - Client

Yellow - Sequoia

White - Sequoia

WELL SAMPLING REQUEST

SAMPLING PROTOCOL										
Project No.	Station #	Project Name	SEQUENCE	Project Manager	Approval	Date/s	Laboratory:		Client Engineer:	
821803	608		4Q00				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
<u>MW-5</u>	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.
<u>MW-8</u>	17		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	NO	slip caps, lid bolts ect. Please
<u>MW-9</u>	14		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	19		3"	YES	note any repairs performed or that
<u>MW-10</u>	18		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	need to be performed.
<u>MW-11</u>	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	
<u>MW-15</u>	7		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	24		3"	YES	
<u>MW-16</u>	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	
<u>MW-22</u>	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	
<u>MW-25</u>	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	
<u>E-1A</u>	19		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	26		?	YES	

WELL SAMPLING REQUEST

SAMPLING PROTOCOL								
Project No.	Station #	Project Name	SEQUENCE	Project Manager	Approval	Date/s	Laboratory:	Client Engineer:
809628	608	17601 Hesperian San Lorenzo	4Q00	Shaw Garakani			Sequoia	22340 Mike Whelan

Well Number	Ideal Sampling Order	Sample I.D.	Sampling Frequency	Analyses	TOB TOC	Well Depth	Casing Diameter	Top of Screen	Well goes Dry?	Comments
		500 Hacienda	QLY	GAS/BTEX/MIBE	TOB/TOC					well destroyed 9/15
		833 Hacienda	QLY	GAS/BTEX/MIBE	TOB/TOC					well destroyed 9/15
Mrs Albright		634 Hacienda	QLY	GAS/BTEX/MIBE	TOB/TOC					
Ms. Corregedor		642 Hacienda	QLY	GAS/BTEX/MIBE	TOB/TOC					
Mr/Mrs Roberts		675 Hacienda	QLY	GAS/BTEX/MIBE	TOB/TOC					Casey Pump is Down
Mr Luehrs		17348 Via Encinas	QLY	GAS/BTEX/MIBE	TOB/TOC					No one home
Mr. Gordin (?)		17197 Via Magdalena	QLY	GAS/BTEX/MIBE	TOB/TOC					will call to fix pump
Cavalry Church		17200 Via Magdalena	QLY	GAS/BTEX/MIBE	TOB/TOC					well paved over
Mrs. Gomez (?)		17203 Via Magdalena	QLY	GAS/BTEX/MIBE	TOB/TOC					will call to fix pump
Mr/Mrs Johanson		17302 Via Magdalena	QLY	GAS/BTEX/MIBE	TOB/TOC					
Mr. Kast		17349 Via Magdalena	QLY	GAS/BTEX/MIBE	TOB/TOC					
Mr. Manry		17371 Via Magdalena	QLY	GAS/BTEX/MIBE	TOB/TOC					
Mr. Pimental		17372 Via Magdalena	QLY	GAS/BTEX/MIBE	TOB/TOC					
Mr. Whaley		17369 Via Magdalena	QLY	GAS/BTEX/MIBE	TOB/TOC					well abandoned 7/97

SEE Map Attach for House for Sale
 674 Hacienda 510 9810581
 659 Via Alamo 510 5051097



FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No. 821803 LOCATION: 1700 Hopewell Blue DATE: 10/9/01
 CLIENT/STATION NO.: ARCO 608 FIELD TECHNICIAN: RE DAY OF WEEK: SAT

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)
												COLOR			SPH	H ₂ O				
	Mw.16		-	-	-	-			9.25 9.25	9.71 9.71										
	Mw.18		-	-	-	-			7.95 7.95	8.24 8.24										
	Mw.19																			
	Mw.21		-	-	-	-			7.33 7.33	7.86 7.86										
	Mw.22		-	-	-	-			8.50 8.50	8.78 8.78										
	Mw.23		-	-	-	-			10.12 10.12	10.42 10.42										
	Mw.24																			
	Mw.25		-	-	-	-	18.47		9.90 9.90	10.32 10.32										
	Mw.26		-	-	-	-			9.97 9.97	10.41 10.41										

Comments: Mw. 21 COVER w/ ASPHALT SECTOR UNCOVER/LOCATE w/ METAL DETECTOR TO GAIN ACCESS
 MOST OF WELLS WERE COVER w/ ASPHALT SECTOR

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 82/803 LOCATION 17601 HESPERIAN BLVD WELL ID # MW-5
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEPPE E. ROIZ

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 14.00 DTW 10.40 = 3.60 Gal/Linear Foot * 88 = 2.37 x Number of Casings 3 Calculated = Purge 7.12

DATE PURGED: 12/29/01 START: 13:10 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12/29/01 START: 13:05 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>13:13</u>	<u>2</u>	<u>7.01</u>	<u>791</u>	<u>64.7</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>13:17</u>	<u>4</u>	<u>7.03</u>	<u>788</u>	<u>65.5</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>13:20</u>	<u>6</u>	<u>7.05</u>	<u>789</u>	<u>65.7</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. #

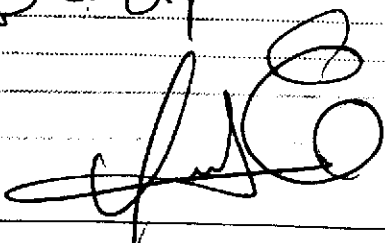
Bailer: _____ Airlift Pump: _____
 Centrifugal Pump: _____ Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: D-13003
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>122901</u>		<u>13:05</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HELL</u>	<u>Gas-BTEX-MTBE</u>
<u>MW5</u>							

REMARKS:

Day


SIGNATURE: _____



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 82/803 LOCATION 17601 HESPERIAN Blvd WELL ID # Yw-8
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEPPE E. ROIZ

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 0182 DTW 9.02 = 128 Gal/Linear Foot 38 x 3 Number of Casings 3 Calculated = Purge 14.59

DATE PURGED: 12/29/01 START: 10:48 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12/29/01 START: 11:00 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>10:51</u>	<u>1.95</u>	<u>7.00</u>	<u>9330</u>	<u>64.3</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>10:54</u>	<u>1.5</u>	<u>7.23</u>	<u>9290</u>	<u>64.7</u>	<u>Cloudy</u>	<u>Light</u>	<u>None</u>
<u>10:57</u>	<u>13.25</u>	<u>7.24</u>	<u>9320</u>	<u>64.6</u>	<u>Cloudy</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. #

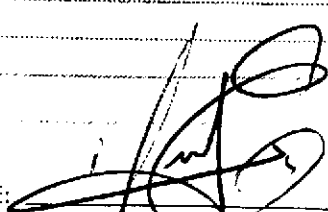
Bailer: _____
 Centrifugal Pump: _____
 Other: _____
 Airlift Pump: _____
 Dedicated: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: _____
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>122901</u>	<u>12/29/01</u>	<u>11:00</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HEC</u>	<u>Gas-BTEX-MTBE</u>
<u>Yw8</u>							

REMARKS: DO. 4.2

SIGNATURE: 

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 17601 HESPERIAN Blvd WELL ID # NW-9
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEdra E. Roiz

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 18.4 DTW 8.25 = 10.15 Gal/Linear Foot 38 = 380 x Number of Casings 3 Calculated = Purge 1158

DATE PURGED: 12/29/01 START: 10:19 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12/29/01 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
<u>10:22</u>	<u>3.75</u>	<u>7.22</u>	<u>888</u>	<u>630</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>10:25</u>	<u>7.5</u>	<u>7.16</u>	<u>881</u>	<u>638</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>10:28</u>	<u>11.25</u>	<u>7.20</u>	<u>889</u>	<u>644</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: D. 22003
 Dedicated: _____
 Other: _____

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>122901</u>	<u>12/29/01</u>	<u>10:30</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HCL</u>	<u>Gas-BTEX-MTBE</u>
<u>NW9</u>							

REMARKS: _____

10.20

SIGNATURE: _____

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 82/803 LOCATION 17601 Hesperian Blvd WELL ID # Mw-10
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEDRO E. ROIZ

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 2289 DTW 8:40 = 14:49 Gal/Linear x Foot = 38550 x Casings 3 Calculated = Purge 1651

DATE PURGED: 12/29/01 START: 11:27 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12/29/01 START: 11:40 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>11:30</u>	<u>5.5</u>	<u>7.11</u>	<u>1190</u>	<u>63.3</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</u>
<u>11:34</u>	<u>11</u>	<u>7.23</u>	<u>1190</u>	<u>64.1</u>	<u>Cloudy</u>	<u>Light</u>	<u>Mod</u>
<u>11:37</u>	<u>16.5</u>	_____	<u>1180</u>	<u>64.4</u>	<u>Cloudy</u>	<u>Light</u>	<u>Mod</u>

Pumped dry Yes / No

Cobak 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: _____

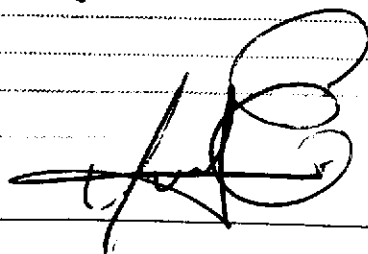
SAMPLING EQUIPMENT/I.D. #

Bailer: _____
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>12/29/01</u>	_____	<u>11:40</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HCL</u>	<u>Gas-BTEX-MTBE</u>
<u>Mw10</u>	_____	_____	_____	_____	_____	_____	_____

REMARKS: Do: 3.2

SIGNATURE: _____



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 82/803 LOCATION 17601 HESPERIAN Blvd ID # NW-11
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEPPE E. ROIZ

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 14.01 - DTW 9.48 = 9.53 Gal/Linear Foot 38 3.60 x Casings 3 Calculated = Purge 1086

DATE PURGED: 122901 START: 9:48 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 122901 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
<u>9:51</u>	<u>3.5</u>	<u>7.23</u>	<u>1240</u>	<u>61.9</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>9:55</u>	<u>7</u>	<u>7.24</u>	<u>1260</u>	<u>62.8</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>9:58</u>	<u>10.5</u>	<u>7.25</u>	<u>1270</u>	<u>63.4</u>	<u>Cloudy</u>	<u>Mod</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. #

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

SAMPLING EQUIPMENT/I.D. #

Bailer: _____
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>122901</u>	<u>NW-11</u>	<u>10:00</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HCL</u>	<u>Gas-BTEX-MTBE</u>

REMARKS:

Do: 2.2

SIGNATURE: _____



WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 17601 HESPERIAN Blvd WELL ID # MW-15
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEPPE E. ROIZ

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 GAL/
 DIAMETER 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 2368 DTW 8.95 = 14.73 Gal/Linear Foot 38 = 559 x Casings 3 Calculated = Purge 1079

DATE PURGED: 12/29/01 START: 9:24 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12/29/01 START: 9:35 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>9:27</u>	<u>5.5</u>	<u>7.11</u>	<u>1000</u>	<u>61.9</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>9:30</u>	<u>11</u>	<u>7.15</u>	<u>1000</u>	<u>62.4</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>9:33</u>	<u>16.5</u>	<u>7.20</u>	<u>1000</u>	<u>63.3</u>	<u>Cloudy</u>	<u>Mod</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. #

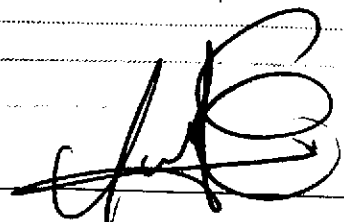
Bailer: _____
 Centrifugal Pump: _____
 Other: _____
 Airlift Pump: _____
 Dedicated: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: P. 2905.
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>12/29/01</u>	<u>MW15</u>	<u>9:35</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HCL</u>	<u>Gas-BTEX-MTBE</u>

REMARKS: DO: 0.2

SIGNATURE: 



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 82/803 LOCATION 17601 HESPERIAN Blvd WELL ID # NW-10
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEPPE E. ROIZ

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 235' DTW 9:05 = 1426 Gal/Linear Foot 38 5.41 x Number of Casings 3 Calculated = Purge 1625

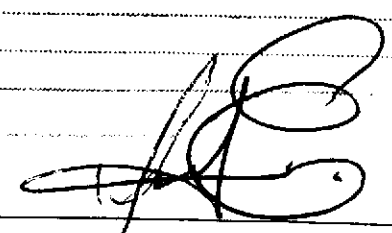
DATE PURGED: 122901 START: 9:02 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 122901 START: 9:15 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2.5°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>9:05</u>	<u>5.5</u>	<u>7.60</u>	<u>1190</u>	<u>60.8</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>9:08</u>	<u>11</u>	<u>6.39</u>	<u>1140</u>	<u>62.2</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>9:12</u>	<u>16.5</u>	<u>6.42</u>	<u>1140</u>	<u>63.6</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: _____
 Centrifugal Pump: _____
 Other: _____
 Airlift Pump: _____
 Dedicated: _____
 SAMPLING EQUIPMENT/I.D. #
 Bailer: D's 200
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>122901</u>	<u>NW-10</u>	<u>9:15</u>	<u>3</u>	<u>40ml</u>	<u>Van</u>	<u>HCL</u>	<u>Gas-BTEX-MTBE</u>

REMARKS: _____

 SIGNATURE: 



WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 17601 Hesperian Blvd WELL ID # NW-02
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEPPO E. ROIZ

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	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

GAL/

SAMPLE TYPE

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

TD 21-72 DTW 8:50 = 1302 Gal/Linear Foot 38 = 502 Number of Casings 3 Calculated = Purge 1507

DATE PURGED: 122901 START: 8:20 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 122901 START: 8:30 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>8:23</u>	<u>5</u>	<u>7.20</u>	<u>1110</u>	<u>58.3</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>8:26</u>	<u>10</u>	<u>7.28</u>	<u>1120</u>	<u>59.8</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>8:29</u>	<u>15</u>	<u>7.32</u>	<u>1130</u>	<u>59.9</u>	<u>Cloudy</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. #

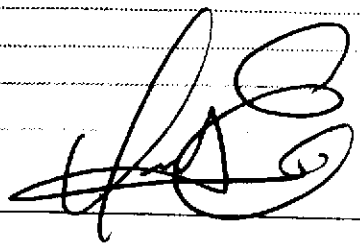
Bailer: _____ Airlift Pump: _____
 Centrifugal Pump: _____ Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: _____
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>NW 02</u>	<u>122901</u>	<u>8:30</u>	<u>3</u>	<u>40ml</u>	<u>Van</u>	<u>ALL</u>	<u>Gas-BTEX-MTBE</u>

REMARKS: _____

SIGNATURE: 



WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 17601 Hesperian Blvd WELL ID # MW-05
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEPPE E. ROIZ

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 18.47 DTW 9.90 = 857 Gal/Linear Foot x 3 Casings = 2571 Calculated Purge 4.30

DATE PURGED: 122901 START: 12:47 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 122901 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>12:50</u>	<u>1.6</u>	<u>7.04</u>	<u>1050</u>	<u>63.7</u>	<u>Cloudy</u>	<u>Yool</u>	<u>None</u>
<u>12:53</u>	<u>3</u>	<u>7.03</u>	<u>1200</u>	<u>64.6</u>	<u>Cloudy</u>	<u>Yool</u>	<u>None</u>
<u>12:57</u>	<u>4.6</u>	<u>7.01</u>	<u>1270</u>	<u>64.9</u>	<u>Cloudy</u>	<u>Yool</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. #

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

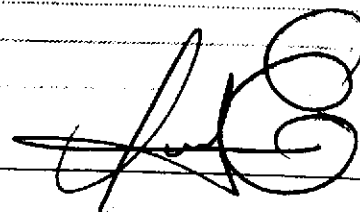
SAMPLING EQUIPMENT/I.D. #

Bailer: DISPOS
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>122901</u>	<u>122901</u>	<u>13:00</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HCL</u>	<u>GAS-BTEX-MTBE</u>
<u>MW05</u>							

REMARKS: DO: 0.2

SIGNATURE: _____



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 17601 HESPERIAN Blvd WELL ID # E1-A
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEPPE E. ROIZ

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

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

TD _____ - DTW _____ = _____ x Gal/Linear Foot 38 x Number of Casings 3 = Calculated Purge _____

DATE PURGED: 12/01 START: _____ END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12/29/01 START: 13:40 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: 22.40 OB/TOC: 3724 1300 66.4 Cloudy Yellow Flavors

PURGING EQUIPMENT/I.D. #

Bailer: _____
 Centrifugal Pump: _____
 Other: _____

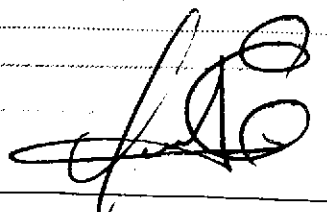
Airlift Pump: _____
 Dedicated: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: _____
 Dedicated: _____
 Other: Crete

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>122901</u>		<u>13:40</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HELL</u>	<u>Gas-BTEX-MTBE</u>
<u>E1A</u>							

REMARKS: Do: do sample before filters

SIGNATURE: 



WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 17601 Hesperian Blvd WELL ID # 1737M
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEPPE E. ROIZ

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 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 38 Number of x Casings 3 = Purge Calculated

DATE PURGED: 12/01 START: _____ END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 12/29/01 START: 11:45 END (2400 hr): _____ SAMPLED BY: PE

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

Pumped dry Yes / No _____

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: _____ TOB/TOC 700 1050 575 Clear light None

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

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>122901</u>		<u>11:45</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HCL</u>	<u>Gas-BTEX-MTBE</u>
<u>1737UM</u>							

REMARKS: DO 2.1

SIGNATURE: [Signature]



WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 17601 HESPERIAN Blvd WELL ID # 17349W
 CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: PEPPE 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 _____ 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 38 Gal/Linear x Number of 3 Casings = Calculated Purge _____

DATE PURGED: 12 01 START: _____ END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 120901 START: 12:15 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 724 1040 0000 Clear/Mod Faint

PURGING EQUIPMENT/I.D. #

Bailer: _____
 Centrifugal Pump: _____
 Other: _____

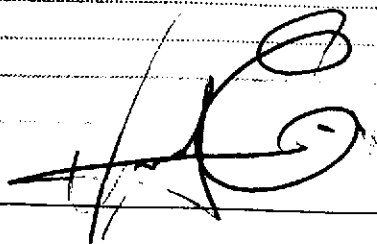
Airlift Pump: _____
 Dedicated: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: _____
 Dedicated: _____
 Other: Grabs

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>120901</u>	_____	<u>12:15</u>	<u>3</u>	<u>10ml</u>	<u>UOA</u>	<u>HCL</u>	<u>GAS-BTEX-MTBE</u>
<u>17349W</u>	_____	_____	_____	_____	_____	_____	_____

REMARKS: _____

SIGNATURE: 



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

Arco Products Co

1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: <u>IT Group</u>	Project: <u>801803 Arco 608</u>
Mailing Address: <u>1901 RINGWOOD AV</u>	Billing Address (if different): <u>17001 HESPERIAN BLVD</u>
City: <u>SAN JOSE</u> State: <u>CA</u> Zip Code: <u>95131</u>	<u>SAN JOSE CA. ARCO ENGINEER MIKE WHELAN</u>
Telephone: <u>(408) 5373000</u> Fax #: <u>(408) 4379500</u>	P.O. #: <u>TASK ORDER 2415200</u>
Report To: <u>Don Waterman</u> E-Mail: <u>Shaw Garaxani</u>	QC Data: <input type="checkbox"/> Level II (Standard) <input type="checkbox"/> Level III <input type="checkbox"/> Level IV
Sampler: <u>PEDRO E. ROIZ</u> Date / Time Results Required:	Sequoia's Work Order #

Turnaround 10 - 15 Working Days
 Time: (Standard TAT)
 7 Working Days
 5 Working Days

72 Hours
 48 Hours
 24 Hours
 2-8 Hours

MANDATORY:
 SDWA (Drinking Water)
 CWA (Waste Water)
 RCRA (Hazardous Waste)
 Other

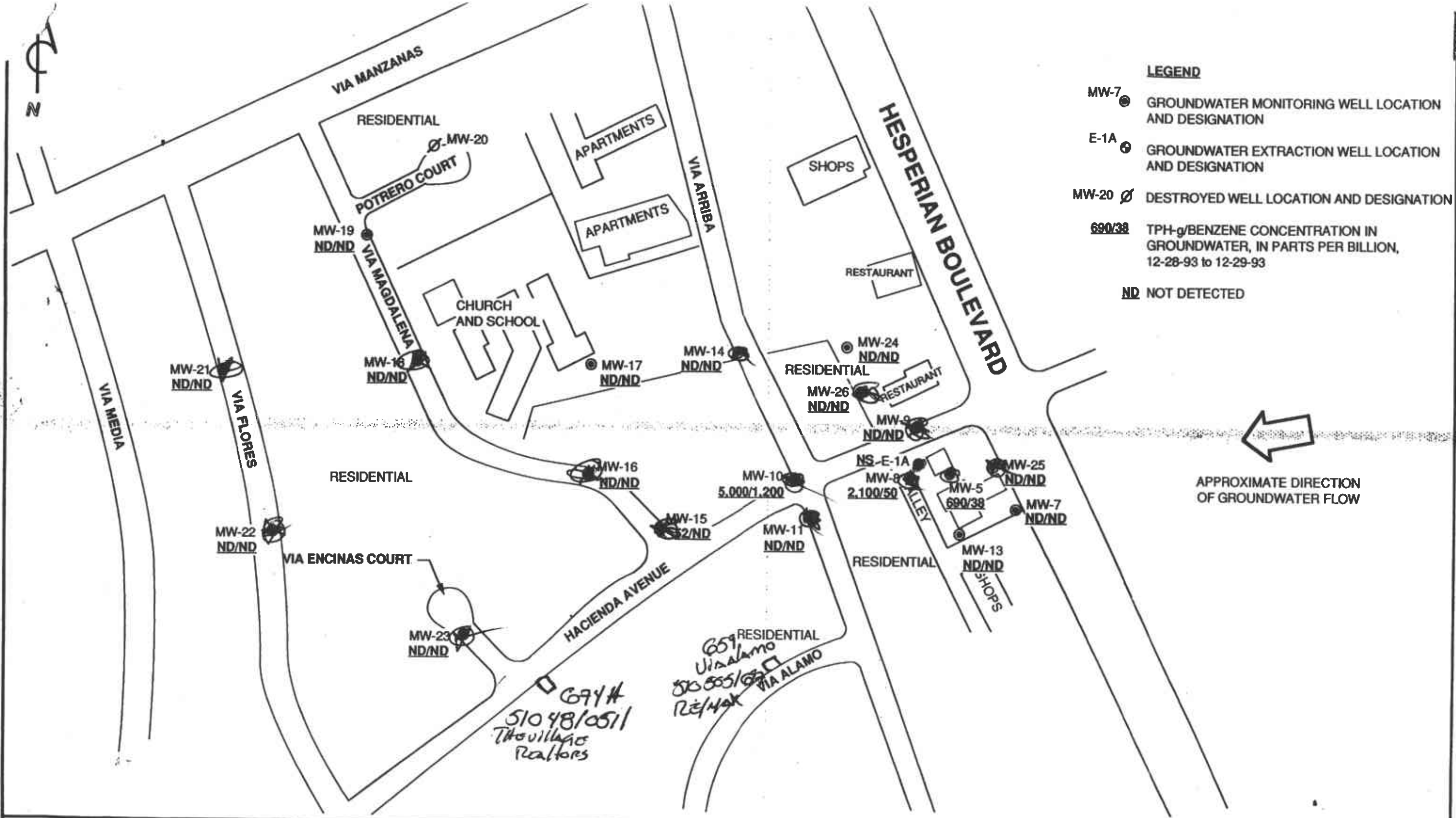
ANALYSES REQUESTED (Please provide method)
 [Diagonal lines indicating no analyses requested]

Comments/Temp. (If required)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Comments/Temp. (If required)
*17372 UM	12/19/15	U	3	40ml HCL		*Low EPA 8060 ON
*17349 UM	12/15					THIS WELLS W/MTBE GREATER THAN 35 ppb
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

Relinquished By: <u>[Signature]</u> IT Group 12/29/17:45	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:

Pink - Client
 Yellow - Sequoia
 White - Sequoia



PACIFIC ENVIRONMENTAL GROUP, INC.



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

TPH-g/BENZENE CONCENTRATION MAP

FIGURE: 2
 PROJECT: 330-006.05

ATTACHMENT C

REMEDIAL SYSTEM PERFORMANCE EVALUATION

ATTACHMENT C

REMEDIAL SYSTEM PERFORMANCE EVALUATION

REMEDIAL SYSTEM PERFORMANCE EVALUATION

Remedial action consisting of groundwater extraction and treatment (GWET) was initiated at the site on September 26, 1991 and was deactivated on August 21, 1995 with approval from the Alameda County Health Care Services Agency (ACHCSA). The GWET system was reactivated June 5, 2000 to address elevated concentrations of methyl tert-butyl ether (MtBE). Remedial objectives from the GWET system at this site include: (1) migration control of the impacted groundwater plume and (2) MtBE mass reduction. To evaluate GWET system performance, IT monitored well water levels, instantaneous and average extraction flow rates. IT also sampled the influent between carbon vessels and the effluent of the treatment system for total purgeable petroleum hydrocarbons as gasoline (TPPH-g); benzene, toluene, ethylbenzene, xylene (BTEX compounds); and Methyl tert Butyl Ether (MtBE) on a monthly basis. Treatment system effluent is also analyzed for chemical oxygen demand, total suspended solids, and pH as requested by the Oro Loma Sanitary District. A brief description and a performance evaluation of the GWE system from September 5 to December 11, 2001 are presented below.

Description

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

Migration Control

Progress toward meeting the migration control objective is evaluated by a comparison of the

groundwater elevation map (Figure 2 of the Quarterly Groundwater Monitoring Report) and the TPHH-g, benzene, and MtBE concentrations map (Figure 3 of the Quarterly Groundwater Monitoring Report) from the current quarterly groundwater monitoring event with those from previous monitoring events. Upon completing the above comparisons, IT concludes that MtBE concentrations at offsite Wells MW-8, and MW-10 have risen this quarter. Therefore, IT will closely monitor MtBE concentrations at the above wells during the future quarters, and recommend additional measures if necessary to achieve migration control objectives.

Mass Reduction

Progress toward meeting the mass reduction objective is determined by evaluating GWET system mass removal data and the concentration trends in nearby groundwater monitoring wells. GWE system operational data are collected monthly. The system flow and influent sample analysis data are used to estimate mass removal values. Performance data for the GWET system are presented in Table C-1. GWET system certified analytical reports, chain-of-custody documentation, and field data sheets are presented as Attachment D of this report. Progress toward site remediation is presented in the following table.

<u>Technology</u> <u>Analyte</u>	<u>Mass Removed</u>			
	9/05/01 to 12/11/01 (lbs)	(gal)	Cumulative (lbs)	(gal)
<u>Groundwater Extraction</u>				
TPPH-g	0.02	0.00	6.39	1.05
Benzene	0.000	0.00	0.31	0.04
MtBE*	0.26	0.04	1.69	0.23
lbs = Pounds				
gal = Gallons				
TPPH-g = Total purgeable petroleum hydrocarbons calculated as gasoline				
* = MtBE was not calculated prior to 06/15/00				

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

Groundwater Extraction System Operational Data

The GWET system was approximately 98 percent operational during the reporting period. Down time was due to regular system maintenance, automatic system shut down resulting from excess sediment built up in the filter. During the reporting period, the GWE system discharged treated groundwater at an average flow rate of approximately 1.5 gallons per minute (gpm) for a period discharge of 209,480 gallons. Treatment system analytical data are presented in Table C-2.

During the reporting period, IT continued the biologic growth control procedure, by adding

hydrogen peroxide to the extraction well on a monthly basis, and back-washing the GAC vessels on as needed basis.

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

Groundwater Extraction System Performance Data

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

Influent Sample Date	Hour Meter Reading	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	TPPH as Gasoline			Benzene			MIBE			Primary MIBE Carbon Loading (%)	
						Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)		
07/06/95	28,464	0	921,260	72,450	1.6	270	0.08	4.71	2.4	0.001	0.29	N/A	N/A	N/A	N/A	g
08/21/95 d	29,568	0	993,320	72,060	1.1	230	0.15	4.86	1.8	0.001	0.29	N/A	N/A	N/A	N/A	g
06/05/00 e	29,592	N/A	976,600	N/A	N/A	700	N/A	4.88	7.2	N/A	0.29	361	N/A	0.00	N/A	g
06/05/00	29,593	0	979,800	3,200	2.1	700	0.02	4.88	7.2	0.000	0.29	361	0.01	0.01	N/A	g
07/08/00	30,352	4	1,131,560	151,760	3.3	133	0.53	5.40	5.1	0.008	0.30	272	0.40	0.41	N/A	g
08/07/00	30,955	16	1,228,240	96,680	2.7	144	0.11	5.51	2.8	0.003	0.30	126	0.16	0.57	N/A	g
09/08/00	31,528	25	1,306,300	78,060	2.3	261	0.13	5.65	2.7	0.002	0.30	120	0.08	0.65	N/A	g
10/10/00	32,230	9	1,393,820	87,520	2.1	114	0.14	5.78	ND	0.001	0.31	ND	0.04	0.69	N/A	g
11/07/00	32,880	3	1,472,930	79,110	2.0	128	0.08	5.86	ND	0.000	0.31	98.6	0.03	0.73	N/A	g
12/05/00	33,516	5	1,548,840	75,910	2.0	167	0.09	5.96	0.775	0.000	0.31	104	0.06	0.79	N/A	g
01/04/01	33,924	43	1,595,340	46,500	1.9	ND	0.03	5.99	ND	0.000	0.31	86.8	0.04	0.83	N/A	g
02/06/01	34,556	20	1,672,330	76,990	2.0	203	0.07	6.05	0.572	0.000	0.31	80.5	0.05	0.88	N/A	g
03/08/01	34,776	70	1,698,860	26,530	2.0	219	0.05	6.10	ND	0.000	0.31	81.0	0.02	0.90	N/A	g
03/24/01	35,088	19	1,741,170	42,310	2.3	NS †	0.07	6.17	NS †	0.002	0.31	NS †	0.03	0.93	N/A	g
04/18/01	35,335	59	1,770,860	29,690	2.0	74.5	0.04	6.21	ND	0.000	0.31	97.5	0.02	0.95	N/A	g
05/04/01	35,716	1	1,812,690	41,830	1.8	63.3	0.02	6.23	ND	0.000	0.31	93.2	0.03	0.98	N/A	g
06/09/01	36,345	27	1,879,710	67,020	1.8	64	0.04	6.27	ND	0.000	0.31	71	0.05	1.03	N/A	g
07/05/01 h	36,469	80	1,897,180	17,470	2.3	100	0.01	6.28	ND	0.000	0.31	430	0.04	1.07	N/A	g
08/14/01 h	36,822	63	1,928,510	31,330	1.5	290	0.05	6.33	2.2	0.000	0.31	870	0.17	1.24	N/A	g
09/05/01	37,219	25	1,977,050	48,540	2.0	ND(100)	0.06	6.39	ND(1.0)	0.000	0.31	340	0.24	1.48	N/A	g
10/05/01	37,932	1	2,040,950	63,900	1.5	ND	0.00	6.39	ND	0.000	0.31	150	0.13	1.61	N/A	g
11/13/01	38,820	5	2,119,670	78,720	1.5	ND	0.00	6.39	ND	0.000	0.31	92	0.08	1.69	N/A	g
12/11/01	39,496	0	2,186,530	66,860	1.6	65	0.02	6.41	ND	0.000	0.31	83	0.05	1.74	N/A	g
REPORTING PERIOD:		8/5/01 - 12/11/01														
TOTAL GALLONS EXTRACTED:		5,817,976														
PERIOD GALLONS EXTRACTED:		209,480														
TOTAL POUNDS REMOVED:													0.39	0.31	1.69	
TOTAL GALLONS REMOVED:													1.05	0.04	0.23	
AVERAGE PERIOD FLOW RATE (gpm):		1.5														
PERIOD PERCENT OPERATIONAL:		96%														
PERIOD POUNDS REMOVED:													0.02	0.000	0.26	
PERIOD GALLONS REMOVED:													0.00	0.000	0.04	
TPPH	= Total purgeable petroleum hydrocarbons															
gpm	= Gallons per minute															
µg/L	= Micrograms per liter															
N/A	= Not available or not applicable															
ND	= Not detected above detection limit															
NS	= Not sampled															
†	= Assume same concentration as prior sampling event															
Densities: Gasoline = 6.1 lbs/gallon; Benzene = 7.34 lbs/gallon.																
MIBE not quantified prior to 6/5/00																
Equations: Net Dissolved TPH-g Removed (pounds) =		TPH-g concentration (µg/L) x net volume (gallon) x density of gasoline (pound/gallon)														
		(Net dissolved TPH-g removed is calculated by averaging influent concentrations)														

Groundwater Extraction System Performance Data

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

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	TPPH as Gasoline			Benzene			MIBE			Primary MIBE Carbon Loading (%)
						Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	
09/25/91	0	N/A	0	0	0.0	ND	N/A	0.00	N/A	0.000	0.00	N/A	N/A	N/A	0.0
09/26/91	N/A	N/A	1,144	1,144	N/A	38	0.00	0.00	4.8	0.000	0.00	N/A	N/A	N/A	0.0
10/22/91	26	96	12,844	11,700	7.6	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
11/22/91	77	93	52,332	39,668	13.0	ND	N/A	0.00	0.52	0.000	0.00	N/A	N/A	N/A	0.0
12/19/91	322	62	122,540	70,008	4.8	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
01/16/92	994	0	283,289	160,749	4.0	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
02/19/92	1,809	0	485,200	201,911	4.1	370	0.31	0.31	14	0.012	0.01	N/A	N/A	N/A	0.4
03/17/92	2,462	0	662,847	177,647	4.5	160	0.39	0.70	18	0.024	0.04	N/A	N/A	N/A	0.9
04/15/92	3,150	1	851,100	188,253	4.6	200	0.28	0.99	11	0.023	0.06	N/A	N/A	N/A	1.2
05/14/92	3,849	0	1,030,086	178,986	4.3	45	0.18	1.17	1.4	0.009	0.07	N/A	N/A	N/A	1.5
06/19/92	4,712	0	1,229,960	199,874	3.9	ND	N/A	1.17	ND	0.001	0.07	N/A	N/A	N/A	1.5
07/14/92	5,001	52	1,291,201	61,241	3.5	97	0.02	1.19	25.0	0.006	0.08	N/A	N/A	N/A	1.5
08/18/92	N/A	N/A	1,410,018	118,817	N/A	ND	N/A	1.19	ND	0.012	0.09	N/A	N/A	N/A	1.5
09/15/92	5,298	N/A	1,535,640	125,622	3.1	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
10/16/92	7,012	4	1,651,623	115,983	2.7	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
11/18/92	7,809	0	1,788,076	116,453	2.4	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
12/17/92	8,502	0	1,864,300	96,224	2.3	96	0.04	1.23	7.7	0.003	0.09	N/A	N/A	N/A	1.5
01/18/93	8,798	61	1,915,165	50,865	2.9	100	0.04	1.27	13	0.004	0.10	N/A	N/A	N/A	1.6
02/22/93	9,607	0	2,096,930	181,765	3.7	480	0.44	1.71	36	0.037	0.13	N/A	N/A	N/A	2.1
03/15/93	10,113	0	2,205,833	108,903	3.6	310	0.36	2.07	29	0.030	0.16	N/A	N/A	N/A	2.6
04/09/93	10,517	33	2,298,770	92,937	3.8	140	0.17	2.25	11	0.015	0.18	N/A	N/A	N/A	2.8
05/13/93	11,211	15	2,449,160	150,390	3.6	530	0.42	2.67	27	0.024	0.20	N/A	N/A	N/A	3.3
06/04/93	11,734	1	2,543,500	94,340	3.0	170	0.28	2.94	5.2	0.013	0.21	N/A	N/A	N/A	3.7
07/20/93	12,573	24	2,689,697	146,197	2.9	290	0.23	3.17	12	0.010	0.22	N/A	N/A	N/A	4.0
08/16/93	13,219	0	2,791,366	101,669	2.6	150	0.15	3.32	4.9	0.007	0.23	N/A	N/A	N/A	4.1
09/13/93	13,888	0	2,884,736	93,370	2.3	80	0.09	3.41	2.2	0.003	0.23	N/A	N/A	N/A	4.3
10/08/93	14,485	1	2,951,737	67,001	1.9	ND	0.02	3.43	ND	0.001	0.24	N/A	N/A	N/A	4.3
11/19/93	15,494	0	3,036,032	84,295	1.4	ND	0.00	3.43	ND	0.000	0.24	N/A	N/A	N/A	4.3
12/21/93	16,260	0	3,113,565	77,533	1.7	73	0.02	3.45	3.5	0.001	0.24	N/A	N/A	N/A	4.3
01/18/94	16,939	0	3,190,900	77,335	1.9	80	0.04	3.49	3.1	0.002	0.24	N/A	N/A	N/A	4.4
02/17/94	17,658	0	3,273,720	82,820	1.9	ND	0.02	3.51	2.5	0.002	0.24	N/A	N/A	N/A	4.4
03/15/94	18,235	7	3,344,249	70,529	2.0	ND	0.00	3.51	ND	0.001	0.24	N/A	N/A	N/A	4.4
04/21/94	18,849	31	3,418,537	74,288	2.0	110	0.03	3.55	7.8	0.002	0.24	N/A	N/A	N/A	4.4
05/13/94	19,351	5	3,478,910	60,373	2.0	230	0.09	3.63	6.3	0.004	0.25	N/A	N/A	N/A	4.5
06/14/94	19,680	57	3,518,608 a	39,698	2.0	230	0.08	3.71	12	0.003	0.25	N/A	N/A	N/A	4.6
07/14/94	20,145	35	3,574,408 b	55,800	2.0	270	0.12	3.83	6.9	0.004	0.26	N/A	N/A	N/A	4.8
08/17/94	20,920	5	51,260 c	91,580 c	2.0	ND	0.10	3.93	1.8	0.003	0.26	N/A	N/A	N/A	4.9
09/12/94	21,549	0	120,910	69,650	1.8	ND	0.00	3.93	ND	0.001	0.26	N/A	N/A	N/A	4.9
10/18/94	22,408	1	211,880	90,970	1.8	ND	0.00	3.93	ND	0.000	0.26	N/A	N/A	N/A	4.9
11/15/94	23,080	0	280,840	68,960	1.7	ND	0.00	3.93	0.66	0.000	0.26	N/A	N/A	N/A	4.9
12/05/94	23,489	15	325,630	44,990	1.8	470	0.09	3.99	32	0.006	0.27	N/A	N/A	N/A	5.0
01/04/95	24,205	1	408,740	82,910	1.9	ND	0.16	4.15	1.1	0.011	0.28	N/A	N/A	N/A	5.2
02/06/95	24,926	9	499,690	90,950	2.1	100	0.04	4.19	2.4	0.001	0.28	N/A	N/A	N/A	5.2
03/02/95	25,465	6	569,180	69,490	2.1	ND	0.03	4.22	ND	0.001	0.28	N/A	N/A	N/A	5.3
04/04/95	26,253	1	672,510	103,330	2.2	290	0.12	4.34	6.6	0.003	0.28	N/A	N/A	N/A	5.4
05/02/95	26,924	0	760,350	87,840	2.2	240	0.19	4.54	7.1	0.005	0.29	N/A	N/A	N/A	5.7
06/05/95	27,721	2	848,810	88,460	1.9	ND	0.09	4.62	ND	0.003	0.29	N/A	N/A	N/A	5.8 f

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

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

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

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

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

Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)
INFL (influent to primary carbon) (cont.)									
09/08/00	261	2.74	0.826	0.626	<0.500	120	NS	NS	NA
10/10/00	114	<0.500	1.68	0.843	<0.500	<2.50	NS	NS	NA
11/07/00	128	<0.500	<0.500	<0.500	<0.500	98.6	NS	NS	NA
12/05/00	167	0.775	<0.500	<0.500	<0.500	104	NS	NS	NA
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	86.8	NS	NS	NA
02/06/01	203	0.572	<0.500	0.513	<0.500	80.5	NS	NS	NA
03/08/01	219	<0.500	6.16	1.21	0.682	81.0	NS	NS	NA
04/18/01	74.5	<0.500	<0.500	<0.500	<0.500	97.5	NS	NS	NA
05/04/01	63.3	<0.500	<0.500	<0.500	<0.500	93.2	NS	NS	NA
06/09/01	64	<0.50	<0.50	<0.50	<0.50	71	NS	NS	NA
07/05/01	100	<0.50	2.5	<0.50	<0.50	430	NS	NS	NA
08/14/01	290	2.2	3.5	<1.0	<1.0	870	NS	NS	NA
09/05/01	<100	<1.0	<1.0	<1.0	<1.0	340	NS	NS	NA
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	150	NS	NS	NA
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	92	NS	NS	NA
12/11/01	65	<0.50	0.58	<0.50	<0.50	83.0	NS	NS	NA
MID-1 (between primary and secondary carbons)									
09/26/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
10/22/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
12/19/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
01/16/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
02/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
03/17/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
04/15/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
05/14/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
06/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
07/14/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
08/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/15/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/16/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/17/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/18/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
02/22/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/15/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
04/09/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/13/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/04/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/14/94	ND	ND	ND	ND	ND	NS	NS	NS	NA
08/17/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/12/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/18/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/04/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
02/06/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/02/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
07/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
08/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NS	NS	NA
09/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
10/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
11/07/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
12/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA

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

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

Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)
MID-1 (cont.)									
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
02/06/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
03/08/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
04/18/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
05/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	3.3	NS	NS	NA
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	5.7	NS	NS	NA
MID-2 (between secondary and tertiary carbons)									
06/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
07/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/10/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/07/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/05/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
02/06/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
03/08/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
04/18/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
05/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
EFFL (effluent to sewer)									
09/26/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
10/22/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
11/22/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
12/19/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
01/16/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
02/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
03/17/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
04/15/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
05/14/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
06/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
07/14/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
08/18/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/15/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/16/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/18/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/17/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
01/18/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
02/22/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
03/15/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
04/09/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
05/13/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
06/04/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA

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

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

Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)
EFFL (effluent to sewer) (cont.)									
07/20/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
08/16/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/13/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/08/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/19/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/21/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
01/18/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
02/17/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
03/15/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
04/21/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
05/13/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
06/14/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
07/14/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
08/17/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/12/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/18/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/05/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/05/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
01/04/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
02/06/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
03/02/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
04/04/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
05/02/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
06/05/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
07/06/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
08/21/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
06/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	7.19
06/12/00	<50.0	NS	NS	NS	NS	NS	NS	NS	NA
07/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	32.1	<10.0	7.08
08/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	23.4	<10.0	6.67
09/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	29.2	<10.0	6.82
10/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.25
11/07/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.24
12/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	44.0	<10.0	7.48
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.00
02/06/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	10.7	7.03
03/08/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.04
04/18/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	28.5	<10.0	7.06
05/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.31
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	34	<10	7.05
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.10
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	14	7.09
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	70	<10	7.07
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	55	<10	6.89
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	150	<10	6.98
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	34	<10	7.01

TPPH = Total purgeable petroleum hydrocarbons
 MtBE = Methyl tert Butyl Ether
 COD = Chemical oxygen demand
 TSS = Total suspended solids
 µg/L = Micrograms per liter
 mg/L = Milligrams per liter
 < = Denotes minimum laboratory detection limit.
 NA = Not applicable or not available
 NS = Not sampled
 ND = Not detected

Figure C-1
 Groundwater Extraction System Mass Removal Trend
 TPPH-g and Benzene

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

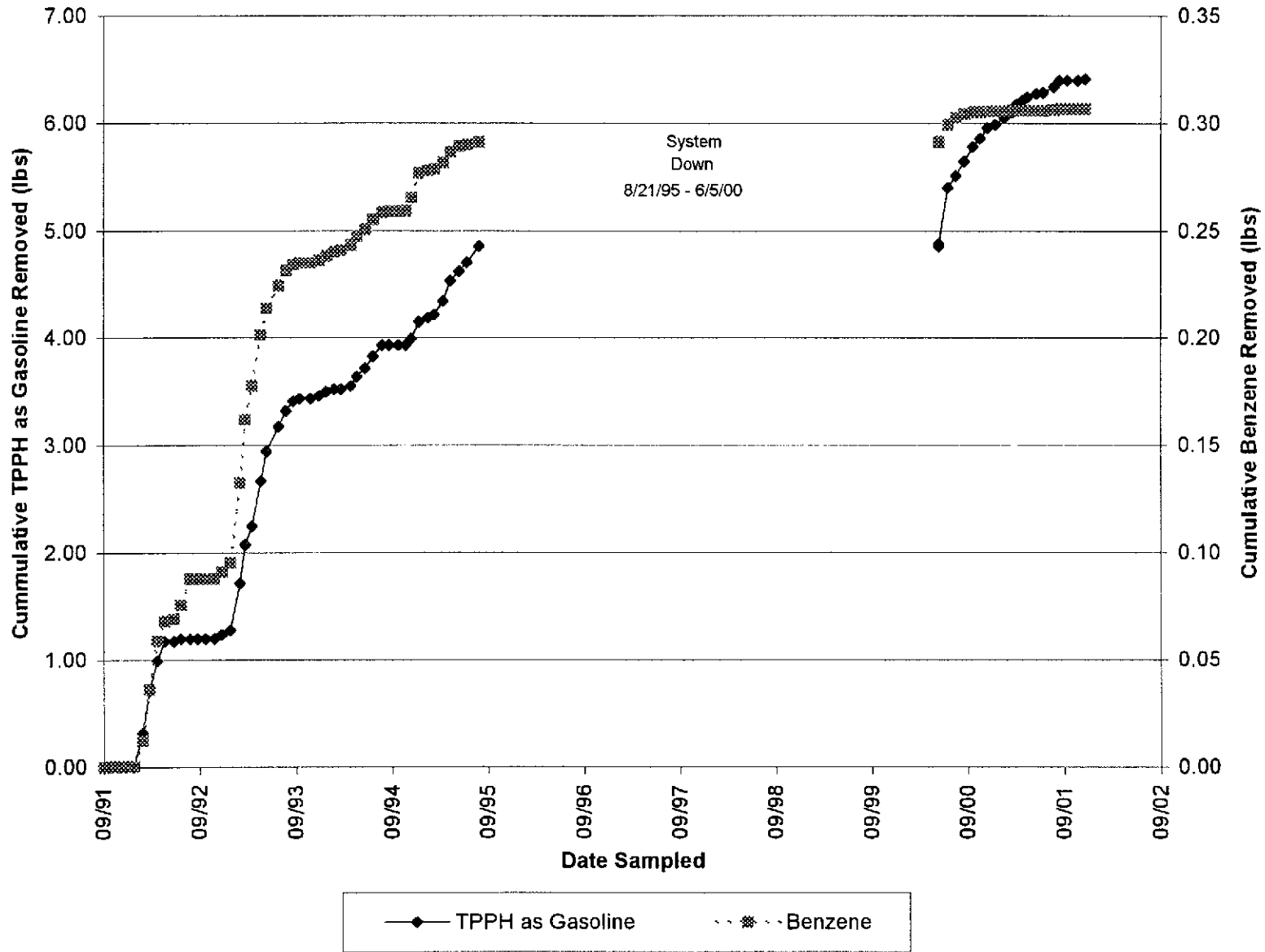


Figure C-3
Groundwater Extraction System Mass Removal Trend
MtBE

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

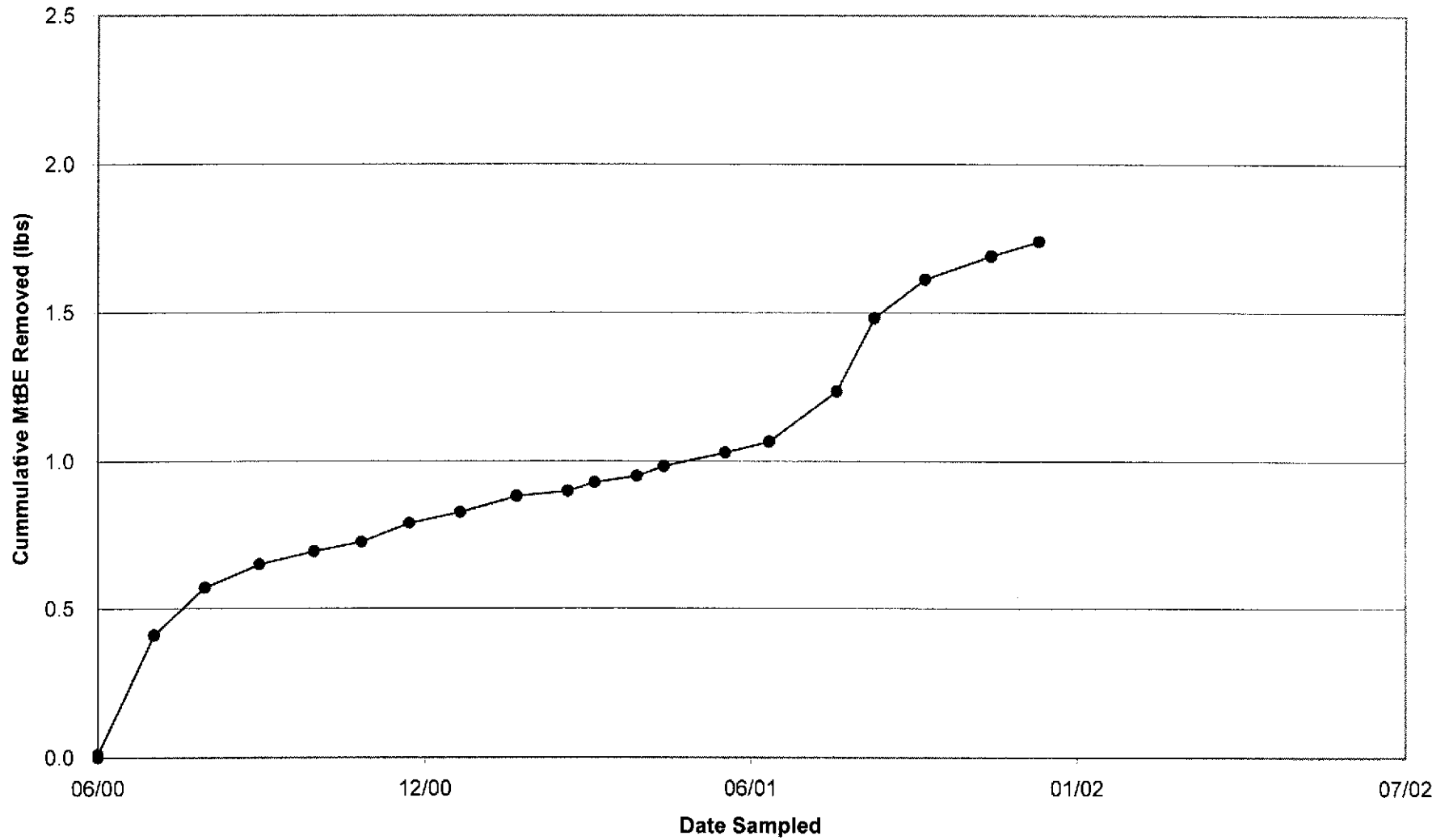
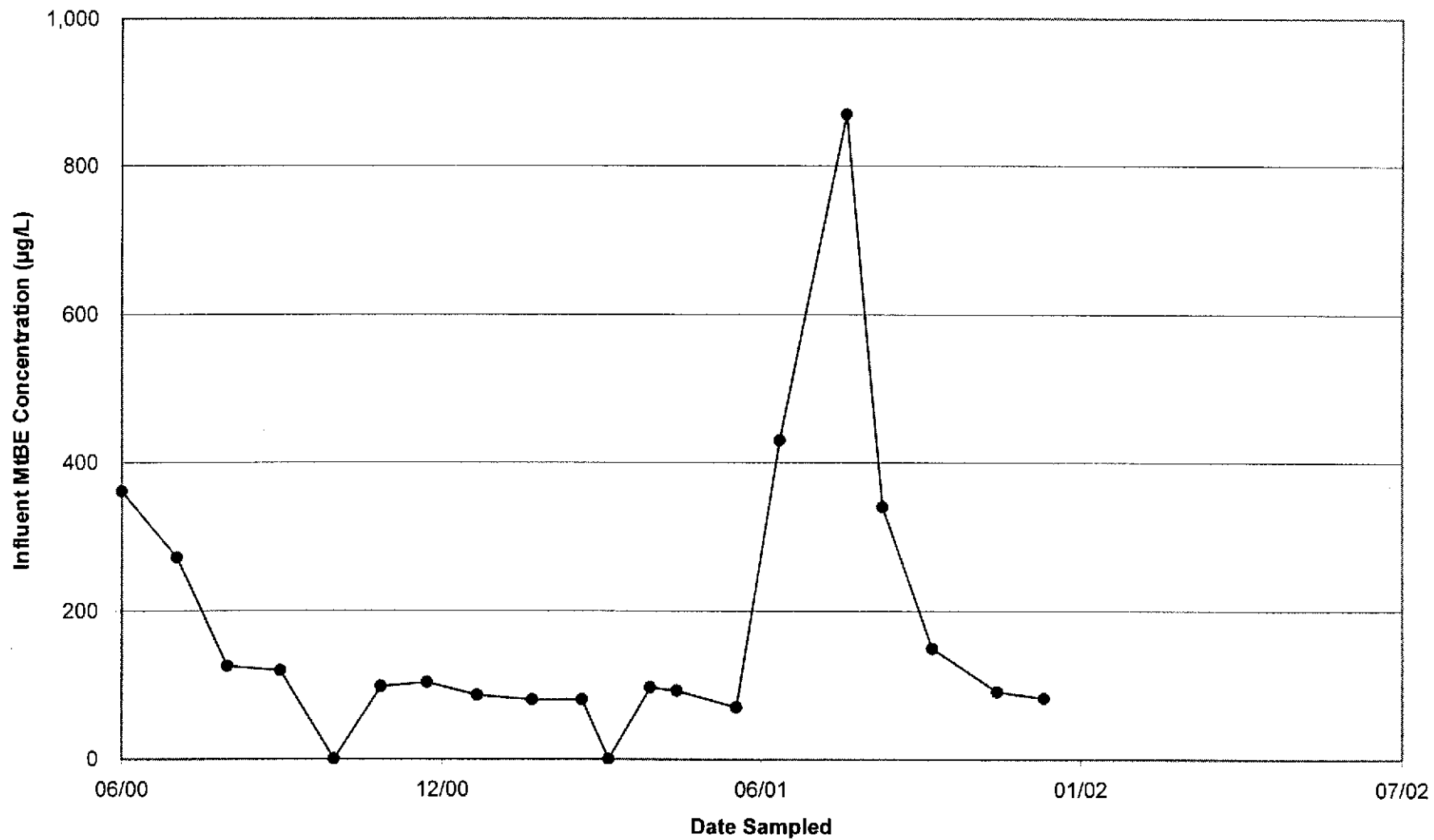


Figure C-4
Groundwater Extraction System Concentration Trend
MtBE

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



ATTACHMENT D

**CERTIFIED ANALYTICAL REPORTS,
CHAIN-OF-CUSTODY DOCUMENTATION,
AND FIELD DATA SHEETS FOR
GROUNDWATER EXTRACTION AND TREATMENT SYSTEM**

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Request Frequency: Semi-Monthly

Project # 821803 (00008000)
 Station # 0608
 Site Address: 17601 Hesperian Blvd
@ Hacienda Avenue
 County: Alameda
 Project Manager: Shaw Garakani
 Requestor: Don Watenpaugh
 Technician: Pedro Ruiz
 Client: ARCO
 Client P.O.C.: Paul Supple
 Revision Date: June 14, 2001
 Laboratory: Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction
(GWE)



Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

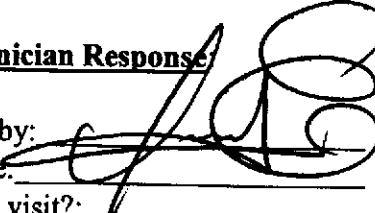
GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:

weekly = N/A
 monthly = once a month on week 1
 quarterly = on months 3, 6, 9, 12
 semi-monthly = twice a month on week 1 and 3

Field Technician Response

Completed by: 
 Arrival time: _____
 Sample this visit?: _____

Date: 12-29-01
 Departure time: _____
 Engineer contacted? _____

Date: 6/29/01

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'
------	----------	----	-------	-------

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Running (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>24319</u>	HOUR METER READING (hrs)	<u>399187</u>
---------------------------------	--------------	--------------------------	---------------

TOTALIZER (gallons)	<u>203/230</u>	<u>2030020</u>
FILTER INLET PRESSURE (psig)	<u>8</u>	(ideal range: 8 to 12 psig) <u>10</u>
CARBON #1 INLET PRESSURE (psig)	<u>3</u>	(ideal range: 5 to 9 psig) <u>3</u>
CARBON #2 INLET PRESSURE (psig)	<u>3</u>	(ideal range: 1 to 4 psig) <u>3</u>
DISCHARGE PRESSURE (psig)		(ideal range: 0 to 2 psig) <u>3</u>

PART B: COMMENTS

Coordinate visit w/ Btly
Sampling. Pump Pumps water from
Wells into system

Work Order # _____

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Request Frequency: Semi-Monthly

Project # 821803 (00008000)
 Station # 0608
 Site Address: 17601 Hesperian Blvd
 @ Hacienda Avenue
 County: Alameda
 Project Manager: Shaw Garakani
 Requestor: Don Watenpaugh
 Technician: Pedro Ruiz
 Client: ARCO
 Client P.O.C.: Paul Supple
 Revision Date: June 14, 2001
 Laboratory: Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction
(GWE)



Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:

weekly = N/A
 monthly = once a month on week 1
 quarterly = on months 3, 6, 9, 12
 semi-monthly = twice a month on week 1 and 3

Field Technician Response:

Completed by: _____
 Arrival time: _____
 Sample this visit? _____

Date: 12-11-01
 Departure time: _____
 Engineer contacted? _____

Date: _____

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'
------	----------	----	-------	-------

Carbon Vessels: Three ASC-1,200

Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Down (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>34072</u>	HOUR METER READING (hrs)	<u>394961</u>
------------------------------------	--------------	-----------------------------	---------------

TOTALIZER (gallons)	<u>2186390</u>	<u>2186530</u>
FILTER INLET PRESSURE (psig)		(ideal range: 8 to 12 psig) <u>5</u>
CARBON #1 INLET PRESSURE (psig)		(ideal range: 5 to 9 psig) <u>3</u>
CARBON #2 INLET PRESSURE (psig)		(ideal range: 1 to 4 psig) <u>3</u>
DISCHARGE PRESSURE (psig)		(ideal range: 0 to 2 psig) <u>0</u>

PART B: COMMENTS System was Down upon arrival
High pressure at filter, change filter out
system shut down on 11-01 11:09

Back flush carbon vessel #4
clean out flow meter & totalizer

PART C: WELL DATA (Monthly)

* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS

WELL	DATE	TIME	DTW (ft)	ADDITIONAL COMMENTS
E-1A				
UST-A	01/00	Draw	Draw	
UST-B	11:40	Dry	N/A	
SP1	11:40	Dry	N/A	
V4	11:43		N/A	
	11:40		N/A	

PART D: SAMPLING (Monthly)

SAMPLE	ANALYTES	TIME	STATUS
INFLUENT	TPH-gasoline, BTEX compounds, MtBE		
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	17:00	PS
MID-1	TPH-gasoline, BTEX compounds, MtBE	17:35	PS
MID-2	TPH-gasoline, BTEX compounds, MtBE	17:25	PS
		17:30	PS

PART E: READINGS (Monthly)

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	56.5	1050	7.01	0.0

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	PUMP AMP DRAW	SWEEP ENCLOSURE	CHANGE FILTERS? (if necessary)	H2O2 injection well EA-1 (if necessary)
20	5.6 amp	4	4	NA

PART G: SYSTEM MAINTENANCE II (Quarterly)

TEST ALARM SWITCHES	CLEAN TOTALIZERS	BACKFLUSH CARBONS
4	yes	yes



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- 800 Carvis Lane • San Jose, CA 95128 • (408) 453-7300 • FAX (408) 453-7300
- 1455 McDowell Blvd North, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: IT Group Project: 821803 ARCO Pools Superfund

Mailing Address: 1921 RINGWOOD AV Billing Address (if different): 17601 HESPERIAN BLVD

City: SAN JOSE State: CA Zip Code: 95131 SAN LORENZO CA

Telephone: (408) 453-7300 Fax #: (408) 437-9529 P.O. #:

Report To: Don Waterman E-Mail: QC Data: Level II (Standard) Level III Level IV

Sampler: EDRO ERITZ Date / Time Results Required: Sequoia's Work Order #

Turnaround Time: 10 - 15 Working Days (Standard TAT)

7 Working Days 5 Working Days

72 Hours 48 Hours 24 Hours 2-8 Hours

MANDATORY:

SDWA (Drinking Water)

CWA (Waste Water)

RCRA (Hazardous Waste)

Other

ANALYSES REQUESTED (Please provide method):

TOC TOX COMPOUNDS MIIBE COD TS55

Comments/Temp. (If required)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	TOC	TOX	COMPOUNDS	MIIBE	COD	TS55	Comments/Temp. (If required)
1. INTL	12/10/2000	W	3	40ml UOA		X	X	X				
2. MID.1	17:05					X	X	X				
3. MID.2	17:30					X	X	X				
4. ETTL	17:35			40ml IL		X	X	X	X	X	X	
5.												
6.												
7.												
8.												
9.												
10.												

Relinquished By: [Signature] Date / Time: 12/10/2000

Received By: _____ Date / Time: _____

Relinquished By: _____ Received By: _____ Date / Time: _____

Relinquished By: _____ Received By: _____ Date / Time: _____

Relinquished By: _____ Received By: _____ Date / Time: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Request Frequency: Semi-Monthly

Project # 821803 (00008000)
 Station # 0608
 Site Address: 17601 Hesperian Blvd
@ Hacienda Avenue
 County: Alameda
 Project Manager: Shaw Garakani
 Requestor: Don Watenpaugh
 Technician: Pedro Ruiz
 Client: ARCO
 Client P.O.C.: Paul Supple
 Revision Date: June 14, 2001
 Laboratory: Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction (GWE)

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

GWE (A, B)	<u>Semi-Monthly</u>				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:

weekly = N/A
 monthly = once a month on week 1
 quarterly = on months 3, 6, 9, 12
 semi-monthly = twice a month on week 1 and 3

Field Technician Response:

Completed by: [Signature]
 Arrival time: _____
 Sample this visit: _____

Date: 11/22/01
 Departure time: _____
 Engineer contacted? _____

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

Date: 11/02/01

System Description:

Groundwater Pumps

Well	Type	Size	Control	Depth
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-1,200
 Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Running (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>24010</u>	HOUR METER READING (hrs)	<u>3903715</u>
---------------------------------	--------------	--------------------------	----------------

MEASUREMENT	ZONE	READING
TOTALIZER (gallons)		<u>2140700</u>
FILTER INLET PRESSURE (psig)		<u>8</u> (ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)		<u>4</u> (ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)		<u>4</u> (ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)		<u>0</u> (ideal range: 0 to 2 psig)

PART B: COMMENTS

System Running
SWEEP ENCLOSURE

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Request Frequency: Semi-Monthly

Project # 821803 (00008000)
 Station # 0608
 Site Address: 17601 Hesperian Blvd
 @ Hacienda Avenue
 County: Alameda
 Project Manager: Shaw Garakani
 Requestor: Don Watenpaugh
 Technician: Pedro Ruiz
 Client: ARCO
 Client P.O.C.: Paul Supple
 Revision Date: June 14, 2001
 Laboratory: Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction (GWE)

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:

weekly = N/A
 monthly = once a month on week 1
 quarterly = on months 3, 6, 9, 12
 semi-monthly = twice a month on week 1 and 3

Field Technician Response

Completed by: [Signature]
 Arrival time: _____
 Sample this visit?: _____

Date: 11-13-01
 Departure time: _____
 Engineer contacted? _____

Date: 11/30/01

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'
------	----------	----	-------	-------

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Running (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>33558</u>	HOUR METER READING (hrs)	<u>388198</u>
---------------------------------	--------------	--------------------------	---------------

TOTALIZER (gallons)	<u>2119540</u>	<u>2119070</u>
FILTER INLET PRESSURE (psig)	<u>10</u>	<u>0</u> (ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>4</u>	<u>4</u> (ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>4</u>	<u>4</u> (ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	<u>0</u>	<u>0</u> (ideal range: 0 to 2 psig)

PART B: COMMENTS CHANGE FILTERS OUT /
SWEEP COMPOUND. ALL SAMPLES TAKEN.
WELLS UST A, B DRY

PART C: WELL DATA (Monthly)

* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS 11-1301

WELL	DTW (ft)	DTW (ft)	DTW (ft)	DTW (ft)
E-1A	2200	NA		NONE
UST-A	11.45	N/A	N/A	Day
UST-B	1203	N/A	N/A	Day
SP1-V4	1240	N/A	N/A	

SHALLOW 1240
DEEP 1230

PART D: SAMPLING (Monthly)

INFLUENT	TPH-gasoline, BTEX compounds, MtBE	8:30	75
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	8:45	75
MID-1	TPH-gasoline, BTEX compounds, MtBE	8:35	75
MID-2	TPH-gasoline, BTEX compounds, MtBE	8:40	75

PART E: READINGS (Monthly)

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	62.3	1080	6.98	1.4

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	27	CHANGE FILTERS? (if necessary)	YES
PUMP AMP DRAW	5.8 amp	H202 injection well EA-1 (if necessary)	No
SWEEP ENCLOSURE	4		

PART G: SYSTEM MAINTENANCE II (Quarterly)

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- 885 Jarvis Drive Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Company Name: TT Group			Project Name: 821803 ARCO # 0608		
Mailing Address: 1921 Ringwood Av.			Billing Address (if different):		
City: San Jose	State: CA	Zip Code: 95131	17001 Hesperian Blvd. San Lorenzo CA		
Telephone: 408/4537300		FAX #: 408/4399520		P.O. Paul Supple	
Report To: Don Waterman	Sampler: Reed E. Reitz	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A			

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours

Time: 7 Working Days 2 Working Days 5 Working Days 24 Hours

Drinking Water Waste Water Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	<div style="text-align: center; border: 1px solid black; padding: 5px;"> Top Gas Water Compounds MTBE COD TSS </div>				Comments
1. WFL	11/13/83		3	40ml		X	X	X		
2. M10-1	8:35		↓	↓		↓	↓	↓		
3. M10-2	8:40		↓	↓		↓	↓	↓		
4. ETFL	8:45		5	40ml TL		↓	↓	↓	XX	
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By:	Date: 11/13/83	Time: 15:00	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Pink - Client
Yellow - Sequoia
White - Sequoia

Work Order # _____

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Request Frequency: Semi-Monthly

Project # 821803 (00008000)
 Station # 0608
 Site Address: 17601 Hesperian Blvd
 @ Hacienda Avenue
 County: Alameda
 Project Manager: Shaw Garakani
 Requestor: Don Watenpaugh
 Technician: Pedro Ruiz
 Client: ARCO
 Client P.O.C.: Paul Supple
 Revision Date: June 14, 2001
 Laboratory: Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction
(GWE)



Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:

weekly = N/A
 monthly = once a month on week 1
 quarterly = on months 3, 6, 9, 12
 semi-monthly = twice a month on week 1 and 3

Field Technician Response

Completed by: [Signature]
 Arrival time: _____
 Sample this visit?: _____

Date: 11-13-01
 Departure time: _____
 Engineer contacted? _____

Date: 11-13-01

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'
------	----------	----	-------	-------

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Running (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>33558</u>	HOUR METER READING (hrs)	<u>388198</u>
------------------------------------	--------------	-----------------------------	---------------

TOTALIZER (gallons)	<u>2119540</u>	<u>2119070</u>
FILTER INLET PRESSURE (psig)	<u>10</u>	(ideal range: 8 to 12 psig) <u>0</u>
CARBON #1 INLET PRESSURE (psig)	<u>4</u>	(ideal range: 5 to 9 psig) <u>4</u>
CARBON #2 INLET PRESSURE (psig)	<u>4</u>	(ideal range: 1 to 4 psig) <u>4</u>
DISCHARGE PRESSURE (psig)	<u>0</u>	(ideal range: 0 to 2 psig) <u>0</u>

PART B: COMMENTS

CHANGE FILTERS OUT /
SWEEP COMPOUND. ALL SAMPLES TAKEN.
WELLS C&T A, B DRY

PART C: WELL DATA (Monthly)

* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS 11-1301

WELL				
E-1A	2200	NA		NONE
UST-A	1145	N/A	N/A	Dry
UST-B	1203	N/A	N/A	Dry
SP1-V4		N/A	N/A	

SHALLOW 1240
DEEP 1230

PART D: SAMPLING (Monthly)

INFLUENT	TPH-gasoline, BTEX compounds, MtBE	8:30	75
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	8:45	75
MID-1	TPH-gasoline, BTEX compounds, MtBE	8:35	75
MID-2	TPH-gasoline, BTEX compounds, MtBE	8:40	75

PART E: READINGS (Monthly)

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	62.3	1080	6.98	1.4

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	27	CHANGE FILTERS? (if necessary)	YES
PUMP AMP DRAW	5.8 amp	H2O2 injection well EA-1 (if necessary)	No
SWEEP ENCLOSURE	4		

PART G: SYSTEM MAINTENANCE II (Quarterly)

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- 885 Jarvis Drive Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Company Name: <u>TT Group</u>			Project Name: <u>821803 ARCO # 0608</u>		
Mailing Address: <u>1921 Rinkwood Av.</u>			Billing Address (if different):		
City: <u>San Jose</u>	State: <u>CA</u>	Zip Code: <u>95131</u>	<u>17001 HESPERIAN Blvd. San Lorenzo CA</u>		
Telephone: <u>408/4537300</u>		FAX #: <u>408/4379520</u>	P.O. <u>Paul Supple</u>		
Report To: <u>Don Waterpaul</u>		Sampler: <u>Reed E. Ruiz</u>	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours

Time: 7 Working Days 2 Working Days 5 Working Days 24 Hours

Drinking Water Waste Water Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	<div style="text-align: center;"> <u>Top Gas</u> <u>Hex Compounds</u> <u>MTBE</u> <u>COD</u> <u>155</u> </div>				Comments
1. <u>INFL</u>	<u>11-13-98 8:30</u>		<u>3</u>	<u>40ml</u>		<u>X</u>	<u>X</u>	<u>X</u>		
2. <u>M10-1</u>	<u>8:35</u>		<u>↓</u>	<u>↓</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>		
3. <u>M10-2</u>	<u>8:40</u>		<u>↓</u>	<u>↓</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>		
4. <u>ETFL</u>	<u>8:45</u>		<u>5</u>	<u>40ml TL</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>XX</u>	
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By:	Date: <u>11-13-01</u>	Time: <u>15:00</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Pink - Client
Yellow - Sequoia
White - Sequoia

Work Order # _____

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Request Frequency: Semi-Monthly

Project # 821803 (00008000)
 Station # 0608
 Site Address: 17601 Hesperian Blvd
 @ Hacienda Avenue
 County: Alameda
 Project Manager: Shaw Garakani
 Requestor: Don Watenpaugh
 Technician: Pedro Ruiz
 Client: ARCO
 Client P.O.C.: Paul Supple
 Revision Date: June 14, 2001
 Laboratory: Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction (GWE)

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:

weekly = N/A
 monthly = once a month on week 1
 quarterly = on months 3, 6, 9, 12
 semi-monthly = twice a month on week 1 and 3

Field Technician Response:

Completed by: [Signature]
 Arrival time: _____
 Sample this visit? _____

Date: 10/18/01
 Departure time: _____
 Engineer contacted? _____

Date: _____

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'
------	----------	----	-------	-------

Carbon Vessels: Three ASC-1,200

Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Down (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)		HOUR METER READING (hrs)	<u>382005</u>
------------------------------------	--	-----------------------------	---------------

TOTALIZER (gallons)		<u>2004210</u>
FILTER INLET PRESSURE (psig)		(ideal range: 8 to 12 psig) <u>3</u>
CARBON #1 INLET PRESSURE (psig)		(ideal range: 5 to 9 psig) <u>3</u>
CARBON #2 INLET PRESSURE (psig)		(ideal range: 1 to 4 psig) <u>4</u>
DISCHARGE PRESSURE (psig)		(ideal range: 0 to 2 psig) <u>0</u>

PART B: COMMENTS

Change filter out
Install a RELIEF VALVE & PRESSURE
GAGE at the filter
Install ARROW FLOW TAPES ON INFL,
MIO-1, MIO-2, EFFL, install BRASS
ON sample ports,
sweep compound.

Work Order # _____

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Request Frequency: Semi-Monthly

Project # 821803 (00008000)
 Station # 0608
 Site Address: 17601 Hesperian Blvd
 @ Hacienda Avenue
 County: Alameda
 Project Manager: Shaw Garakani
 Requestor: Don Watenpaugh
 Technician: Pedro Ruiz
 Client: ARCO
 Client P.O.C.: Paul Supple
 Revision Date: June 14, 2001
 Laboratory: Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction (GWE)

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

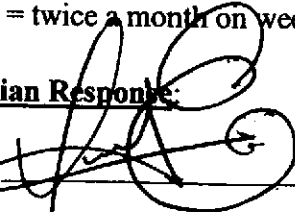
GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:

weekly = N/A
 monthly = once a month on week 1
 quarterly = on months 3, 6, 9, 12
 semi-monthly = twice a month on week 1 and 3

Field Technician Response:

Completed by: 
 Arrival time: _____
 Sample this visit?: _____

Date: 10.5.01
 Departure time: _____
 Engineer contacted? _____

Date: 10.501

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'
------	----------	----	-------	-------

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Running (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>23838</u>	HOUR METER READING (hrs)	<u>379320</u>
---------------------------------	--------------	--------------------------	---------------

TOTALIZER (gallons)	<u>2040840</u>	<u>2040950</u>
FILTER INLET PRESSURE (psig)	<u>12</u>	<u>12</u> (ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>3</u>	<u>3</u> (ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>3</u>	<u>3</u> (ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	<u>0</u>	<u>0</u> (ideal range: 0 to 2 psig)

PART B: COMMENTS 92601 Totalizer 2019200
HR 376901

Repair well MW25 Extend casing up
pour concrete inside box - install
3" cap

PART C: WELL DATA (Monthly)

* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS

10501

WELL				
E-1A	21.00		Draw Down	
UST-A		N/A		N/A
UST-B	Dry	N/A		N/A
SPI-V4 DEEP SHALLOW	Dry 1255 1250	N/A		N/A

PART D: SAMPLING (Monthly)

SAMPLING	
INFLUENT	TPH-gasoline, BTEX compounds, MtBE 9:30 PE
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS 9:45 PE
MID-1	TPH-gasoline, BTEX compounds, MtBE 9:35 PE
MID-2	TPH-gasoline, BTEX compounds, MtBE 9:40 PE

PART E: READINGS (Monthly)

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	64.4	1000	6.89	1.2

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	29	CHANGE FILTERS? (if necessary)	NA
PUMP AMP DRAW	Startup 6.2 = 5.5	H2O2 injection well EA-1 (if necessary)	NA
SWEEP ENCLOSURE	YES		

PART G: SYSTEM MAINTENANCE II (Quarterly)

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			

ARCO Products Company
Division of AtlanticRichfield Company

821803 Task Order No.

Chain of Custody

ARCO Facility no. 0608 City (Facility) 1706 Hesperian Blvd Project manager (Consultant) Don Waterpaugh Laboratory name SEQUOIA
 ARCO engineer Paul Supple Telephone no. (ARCO) 213 621 7070 Telephone no. (Consultant) 408 453 7300 Fax no. (Consultant) 408 437 9529 Contract number
 Consultant name IT Group Address (Consultant) 1921 ZINWOOD AVE SUITE CA 95131

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802/EPA 8020	MTBE EPA 1622/8020/8015	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"/> VOC <input type="checkbox"/> VOA <input type="checkbox"/>	Semi Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CMI Metals EPA 801/7000 TTLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead/Cd/Cr/Hg Lead EPA 7450/7421 <input type="checkbox"/>	COD TSS	
			Soil	Water	Other	Ice	Acid																
<u>WFL</u>		<u>3</u>		<u>W</u>		<u>Y</u>	<u>10/5/01</u>	<u>9:30</u>		<input checked="" type="checkbox"/>													
<u>Mid</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>9:35</u>															
<u>Mid</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>9:40</u>															
<u>EFF</u>		<u>5</u>		<u>↓</u>		<u>↓</u>		<u>9:45</u>														<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Method of shipment

Special detection LmV/reporting

Special QWOC

Remarks

Condition of sample: IT Group Temperature received:

Relinquished by sampler IT Group Date 10/5/01 Time 12:00 Received by

Relinquished by Date Time Received by

Relinquished by Date Time Received by laboratory Date Time

Priority Rush 1 Business Day

Rush 2 Business Days

Expedited 5 Business Days

Standard 10 Business Days



**Sequoia
Analytical**

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

2 January, 2002

Don Watenpaugh
Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose, CA 95131

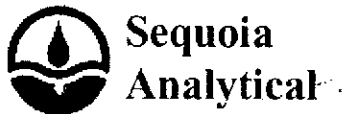
RE: -
Sequoia Report: MKL0256

Enclosed are the results of analyses for samples received by the laboratory on 12/12/01 19:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley
Project Manager

CA ELAP Certificate #1210



**Sequoia
Analytical**

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

Project: -
Project Number: 821803
Project Manager: Don Watenpaugh

Reported:
01/02/02 15:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INF	MKL0256-01	Water	12/11/01 17:20	12/12/01 19:20
Mid-1	MKL0256-02	Water	12/11/01 17:25	12/12/01 19:20
Mid-2	MKL0256-03	Water	12/11/01 17:30	12/12/01 19:20
EFFL	MKL0256-04	Water	12/11/01 17:35	12/12/01 19:20

Sequoia Analytical - Morgan Hill

James Hartley, Project Manager

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

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

 Project: -
 Project Number: 821803
 Project Manager: Don Watenpaugh

Reported:
 01/02/02 15:18

Total Purgeable Hydrocarbons (C6-C10) by 8015B modified, BTEX and MTBE by 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INF (MKL0256-01) Water Sampled: 12/11/01 17:20 Received: 12/12/01 19:20									
Gasoline Range Organics (C6-C10)	65	50	ug/l	1	1L20004	12/20/01	12/20/01	8015Bm/8021B	P-03
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	0.58	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	83	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.6 %	70-130		"	"	"	"	
Mid-1 (MKL0256-02) Water Sampled: 12/11/01 17:25 Received: 12/12/01 19:20									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	1L19005	12/19/01	12/19/01	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	5.7	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.4 %	70-130		"	"	"	"	
Mid-2 (MKL0256-03) Water Sampled: 12/11/01 17:30 Received: 12/12/01 19:20									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	1L19005	12/19/01	12/19/01	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	70-130		"	"	"	"	



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

Project: -
Project Number: 821803
Project Manager: Don Watenpaugh

Reported:
01/02/02 15:18

**Total Purgeable Hydrocarbons (C6-C10) by 8015B modified, BTEX and MTBE by 8021B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MKL0256-04) Water Sampled: 12/11/01 17:35 Received: 12/12/01 19:20									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	1L19005	12/19/01	12/19/01	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		92.5 %	70-130		"	"	"	"	



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

Project: -
Project Number: 821803
Project Manager: Don Watenpaugh

Reported:
01/02/02 15:18

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MKL0256-04) Water Sampled: 12/11/01 17:35 Received: 12/12/01 19:20									
Chemical Oxygen Demand	34	20	mg/l	1	2A02015	01/02/02	01/02/02	EPA 410.4	
Total Suspended Solids	ND	10	"	"	1L18031	12/15/01	12/18/01	EPA 160.2	

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

 Project: -
 Project Number: 821803
 Project Manager: Don Watenpaugh

Reported:
 01/02/02 15:18

**Total Purgeable Hydrocarbons (C6-C10) by 8015B modified, BTEX and MTBE by 8021B - Quality Control
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1L19005 - EPA 5030B [P/T]
Blank (1L19005-BLK1)

Prepared & Analyzed: 12/19/01

Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.63		"	10.0		96.3	70-130			

LCS (1L19005-BS1)

Prepared & Analyzed: 12/19/01

Benzene	7.49	0.50	ug/l	10.0		74.9	70-130			
Toluene	8.50	0.50	"	10.0		85.0	70-130			
Ethylbenzene	9.76	0.50	"	10.0		97.6	70-130			
Xylenes (total)	30.3	0.50	"	30.0		101	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.67		"	10.0		96.7	70-130			

LCS (1L19005-BS2)

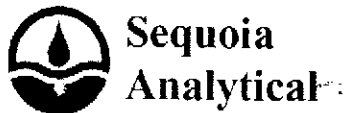
Prepared & Analyzed: 12/19/01

Gasoline Range Organics (C6-C10)	310	50	ug/l	250		124	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.48		"	10.0		94.8	70-130			

Batch 1L20004 - EPA 5030B [P/T]
Blank (1L20004-BLK1)

Prepared & Analyzed: 12/20/01

Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.60		"	10.0		96.0	70-130			



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 www.sequoialabs.com

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

Project: -
 Project Number: 821803
 Project Manager: Don Watenpaugh

Reported:
 01/02/02 15:18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1L20004 - EPA 5030B [P/T]

LCS (1L20004-BS1)

Prepared & Analyzed: 12/20/01

Benzene	7.88	0.50	ug/l	10.0		78.8	70-130			
Toluene	8.87	0.50	"	10.0		88.7	70-130			
Ethylbenzene	11.4	0.50	"	10.0		114	70-130			
Xylenes (total)	35.0	0.50	"	30.0		117	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.59		"	10.0		95.9	70-130			

LCS (1L20004-BS2)

Prepared & Analyzed: 12/20/01

Gasoline Range Organics (C6-C10)	277	50	ug/l	250		111	70-130			
Surrogate: a,a,a-Trifluorotoluene	6.52		"	10.0		65.2	70-130			S-04



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

Project: -
Project Number: 821803
Project Manager: Don Watenpaugh

Reported:
01/02/02 15:18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1L18031 - General Preparation										
Blank (1L18031-BLK1) Prepared: 12/15/01 Analyzed: 12/18/01										
Total Suspended Solids	ND	10	mg/l							
Blank (1L18031-BLK2) Prepared: 12/15/01 Analyzed: 12/18/01										
Total Suspended Solids	ND	10	mg/l							
Duplicate (1L18031-DUP1) Source: MKL0300-01 Prepared: 12/15/01 Analyzed: 12/18/01										
Total Suspended Solids	49.6	10	mg/l		51			2.78	20	
Batch 2A02015 - General Preparation										
Blank (2A02015-BLK1) Prepared & Analyzed: 01/02/02										
Chemical Oxygen Demand	ND	20	mg/l							
LCS (2A02015-BS1) Prepared & Analyzed: 01/02/02										
Chemical Oxygen Demand	106	20	mg/l	100		106	80-120			
Matrix Spike (2A02015-MS1) Source: MKL0256-04 Prepared & Analyzed: 01/02/02										
Chemical Oxygen Demand	169	20	mg/l	100	34	135	75-125			QM-07
Matrix Spike Dup (2A02015-MSD1) Source: MKL0256-04 Prepared & Analyzed: 01/02/02										
Chemical Oxygen Demand	184	20	mg/l	100	34	150	75-125	8.50	20	QM-07



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

Project: -
Project Number: 821803
Project Manager: Don Watenpaugh

Reported:
01/02/02 15:18

Notes and Definitions

- P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C10
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- S-04 The surrogate recovery for this sample is outside control limits due to interference from the sample matrix.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: <u>Hackett Pipeline Inc.</u>		Project:	
Mailing Address: <u>P.O. Box 700266</u>		Billing Address (if different):	
City: <u>San Jose</u>	State: <u>CA</u>	Zip Code: <u>95176</u>	SAMPLING
Telephone: <u>650-965-1792</u>	Fax #: <u>650-965-0884</u>	P.O. #:	
Report To: <u>Hollin</u>	E-Mail:	QC Data:	<input type="checkbox"/> Level II (Standard) <input type="checkbox"/> Level III <input type="checkbox"/> Level IV
Sampler:	Date / Time Results Required:	Sequoia's Work Order # <u>MLL0256</u>	

Pink - Client

Turnaround <input checked="" type="checkbox"/> 10 - 15 Working Days Time: (Standard TAT)	<input type="checkbox"/> 72 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> 2-8 Hours	MANDATORY: <input checked="" type="checkbox"/> SDWA (Drinking Water) <input type="checkbox"/> CWA (Waste Water) <input type="checkbox"/> RCRA (Hazardous Waste) <input type="checkbox"/> Other	ANALYSES REQUESTED (Please provide method) <div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">TIC PIA</div>
			Comments/Temp. (if required)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #													
1. #3	11/14/01 12:59		1		01													
2. #4	11/14/01 106		1		02													
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

Yellow - Sequoia

White - Sequoia

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>	Date / Time: <u>11/14/01 1600</u>
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:



Sequoia Analytical

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

28 November, 2001

Don Waterpaugh
Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose, CA 95131

RE: Facility 0608, San Lorenzo
Sequoia Report: MKK0332

Enclosed are the results of analyses for samples received by the laboratory on 11/14/01 10:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley
Project Manager

CA ELAP Certificate #1210



Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
11/28/01 13:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Infl	MKK0332-01	Water	11/13/01 08:30	11/14/01 10:25
Mid-1	MKK0332-02	Water	11/13/01 08:35	11/14/01 10:25
Mid-2	MKK0332-03	Water	11/13/01 08:40	11/14/01 10:25
Eff	MKK0332-04	Water	11/13/01 08:45	11/14/01 10:25

Sequoia Analytical - Morgan Hill

James Hartley, Project Manager

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



Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
11/28/01 13:17

Total Purgeable Hydrocarbons (C6-C10) by 8015B modified, BTEX and MTBE by 8021B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Infl (MKK0332-01) Water Sampled: 11/13/01 08:30 Received: 11/14/01 10:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	1K19001	11/19/01	11/19/01	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	92	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.7 %	70-130		"	"	"	"	
Mid-1 (MKK0332-02) Water Sampled: 11/13/01 08:35 Received: 11/14/01 10:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	1K19001	11/19/01	11/19/01	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
ethyl tert-butyl ether	3.3	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.5 %	70-130		"	"	"	"	
Mid-2 (MKK0332-03) Water Sampled: 11/13/01 08:40 Received: 11/14/01 10:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	1K19001	11/19/01	11/19/01	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.8 %	70-130		"	"	"	"	





Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
11/28/01 13:17

**Total Purgeable Hydrocarbons (C6-C10) by 8015B modified, BTEX and MTBE by 8021B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effl (MKK0332-04) Water Sampled: 11/13/01 08:45 Received: 11/14/01 10:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	1K19001	11/19/01	11/19/01	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		86.3 %		70-130	"	"	"	"	





Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
11/28/01 13:17

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Eff (MKK0332-04) Water Sampled: 11/13/01 08:45 Received: 11/14/01 10:25									
Chemical Oxygen Demand	150	20	mg/l	1	1K20021	11/20/01	11/20/01	EPA 410.4	
Total Suspended Solids	ND	10	"	"	1K17006	11/17/01	11/20/01	EPA 160.2	





Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
11/28/01 13:17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1K19001 - EPA 5030B [P/T]

Blank (1K19001-BLK1)

Prepared & Analyzed: 11/19/01

Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	8.09		"	10.0		80.9	70-130			

LCS (1K19001-BS1)

Prepared & Analyzed: 11/19/01

Benzene	8.86	0.50	ug/l	10.0		88.6	70-130			
Toluene	8.89	0.50	"	10.0		88.9	70-130			
Ethylbenzene	8.89	0.50	"	10.0		88.9	70-130			
Xylenes (total)	27.5	0.50	"	30.0		91.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.79		"	10.0		87.9	70-130			

LCS (1K19001-BS2)

Prepared & Analyzed: 11/19/01

Gasoline Range Organics (C6-C10)	228	50	ug/l	250		91.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	7.59		"	10.0		75.9	70-130			

Matrix Spike (1K19001-MS1)

Source: MKK0332-02

Prepared & Analyzed: 11/19/01

Gasoline Range Organics (C6-C10)	542	50	ug/l	550	ND	98.5	60-140			
Benzene	7.90	0.50	"	6.60	ND	120	60-140			
Toluene	35.9	0.50	"	39.7	ND	90.4	60-140			
Ethylbenzene	8.26	0.50	"	9.20	ND	89.8	60-140			
Xylenes (total)	40.8	0.50	"	46.1	ND	88.5	60-140			
Surrogate: a,a,a-Trifluorotoluene	7.94		"	10.0		79.4	70-130			

Matrix Spike Dup (1K19001-MSD1)

Source: MKK0332-02

Prepared & Analyzed: 11/19/01

Gasoline Range Organics (C6-C10)	546	50	ug/l	550	ND	99.3	60-140	0.735	25	
Benzene	7.23	0.50	"	6.60	ND	110	60-140	8.86	25	
Toluene	36.0	0.50	"	39.7	ND	90.7	60-140	0.278	25	
Ethylbenzene	8.48	0.50	"	9.20	ND	92.2	60-140	2.63	25	
Xylenes (total)	43.2	0.50	"	46.1	ND	93.7	60-140	5.71	25	
Surrogate: a,a,a-Trifluorotoluene	7.93		"	10.0		79.3	70-130			

Sequoia Analytical - Morgan Hill

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Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
11/28/01 13:17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K17006 - General Preparation										
Blank (1K17006-BLK1)				Prepared: 11/17/01 Analyzed: 11/20/01						
Total Suspended Solids	ND	10	mg/l							
Duplicate (1K17006-DUP1)				Source: MKK0281-01 Prepared: 11/17/01 Analyzed: 11/20/01						
Total Suspended Solids	ND	10	mg/l		ND			0.00	20	
Batch 1K20021 - General Preparation										
Blank (1K20021-BLK1)				Prepared & Analyzed: 11/20/01						
Chemical Oxygen Demand	ND	20	mg/l							
LCS (1K20021-BSI)				Prepared & Analyzed: 11/20/01						
Chemical Oxygen Demand	106	20	mg/l	100		106	80-120			
Matrix Spike (1K20021-MS1)				Source: MKK0332-04 Prepared & Analyzed: 11/20/01						
Chemical Oxygen Demand	100	20	mg/l	100	150	-50.0	75-125			QM-07
Matrix Spike Dup (1K20021-MSD1)				Source: MKK0332-04 Prepared & Analyzed: 11/20/01						
Chemical Oxygen Demand	100	20	mg/l	100	150	-50.0	75-125	0.00	20	QM-07





Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
11/28/01 13:17

Notes and Definitions

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

619 Sinker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Company Name: <u>TT Group</u>		Project Name: <u>821803 ARCO # 0608</u>	
Mailing Address: <u>1921 Riverview Av.</u>		Billing Address (if different):	
City: <u>San Jose</u>	State: <u>CA</u>	Zip Code: <u>95131</u>	<u>17601 Hesperian Blvd. San Lorenzo CA</u>
Telephone: <u>408/453-7300</u>	FAX #: <u>408/439-5200</u>	P.O. <u>Paul Supple</u>	
Report To: <u>Don Waterpaul</u>	Sampler: <u>Edoardo E. Ruiz</u>	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround	<input type="checkbox"/> 10 Working Days	<input type="checkbox"/> 3 Working Days	<input type="checkbox"/> 2 - 8 Hours	<input type="checkbox"/> Drinking Water
Time:	<input type="checkbox"/> 7 Working Days	<input type="checkbox"/> 2 Working Days		<input checked="" type="checkbox"/> Waste Water
	<input type="checkbox"/> 5 Working Days	<input type="checkbox"/> 24 Hours		<input type="checkbox"/> Other

Analyses Requested: MKK0332

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #					Comments
1. <u>1WFL</u>	<u>11-13-01 8:30</u>		<u>3</u>	<u>40ml</u>	<u>01</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2. <u>M10-1</u>	<u>8:35</u>				<u>02</u>					
3. <u>M10-2</u>	<u>8:40</u>				<u>03</u>					
4. <u>ETFL</u>	<u>8:45</u>		<u>5</u>	<u>40ml</u>	<u>04</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By: <u>[Signature]</u>	Date: <u>11/13/01</u>	Time: <u>15:00</u>	Received By: <u>[Signature]</u>	Date: <u>11/14/01</u>	Time: <u>10:05</u>
Relinquished By: <u>[Signature]</u>	Date: <u>11/14/01</u>	Time: <u>10:25</u>	Received By: <u>[Signature]</u>	Date: <u>11-14-01</u>	Time: <u>10:25</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Pink - Client
 Yellow - Sequoia
 White - Sequoia



**Sequoia
Analytical**

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

22 October, 2001

Don Watenpaugh
Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose, CA 95131

RE: Facility 0608, San Lorenzo
Sequoia Report: MKJ0187

Enclosed are the results of analyses for samples received by the laboratory on 10/08/01 12:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley
Project Manager

CA ELAP Certificate #1210



Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
10/22/01 18:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INFL	MKJ0187-01	Water	10/05/01 09:30	10/08/01 12:15
Mid-1	MKJ0187-02	Water	10/05/01 09:35	10/08/01 12:15
Mid-2	MKJ0187-03	Water	10/05/01 09:40	10/08/01 12:15
EFFL	MKJ0187-04	Water	10/05/01 09:45	10/08/01 12:15

Sequoia Analytical - Morgan Hill

James Hartley, Project Manager

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



Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
10/22/01 18:47

**Total Purgeable Hydrocarbons (C6-C10) by 8015B and BTEX and MTBE by 8021A
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (MKJ0187-01) Water Sampled: 10/05/01 09:30 Received: 10/08/01 12:15									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	1J15003	10/15/01	10/15/01	8015B/8021A	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	150	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.5 %	70-130		"	"	"	"	
Mid-1 (MKJ0187-02) Water Sampled: 10/05/01 09:35 Received: 10/08/01 12:15									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	1J11004	10/11/01	10/11/01	8015B/8021A	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.0 %	70-130		"	"	"	"	
Mid-2 (MKJ0187-03) Water Sampled: 10/05/01 09:40 Received: 10/08/01 12:15									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	1J11004	10/11/01	10/11/01	8015B/8021A	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.6 %	70-130		"	"	"	"	



Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
10/22/01 18:47

Total Purgeable Hydrocarbons (C6-C10) by 8015B and BTEX and MTBE by 8021A
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MKJ0187-04) Water Sampled: 10/05/01 09:45 Received: 10/08/01 12:15									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	IJ11004	10/11/01	10/11/01	8015B/8021A	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.8 %		70-130	"	"	"	"	



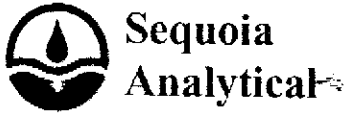
Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
10/22/01 18:47

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MKJ0187-04) Water Sampled: 10/05/01 09:45 Received: 10/08/01 12:15									
Chemical Oxygen Demand	55	20	mg/l	1	IJ22005	10/19/01	10/19/01	EPA 410.4	
Total Suspended Solids	ND	10	"	"	IJ10030	10/09/01	10/10/01	EPA 160.2	



Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
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Reported:
10/22/01 18:47

Total Purgeable Hydrocarbons (C6-C10) by 8015B and BTEX and MTBE by 8021A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1J11004 - EPA 5030B [P/T]

Blank (1J11004-BLK1)

Prepared & Analyzed: 10/11/01

Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	9.26		"	10.0		92.6	70-130			

LCS (1J11004-BS1)

Prepared & Analyzed: 10/11/01

Benzene	8.19	0.50	ug/l	10.0		81.9	70-130			
Toluene	8.84	0.50	"	10.0		88.4	70-130			
Ethylbenzene	9.34	0.50	"	10.0		93.4	70-130			
Xylenes (total)	28.9	0.50	"	30.0		96.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.51		"	10.0		95.1	70-130			

LCS (1J11004-BS2)

Prepared & Analyzed: 10/11/01

Gasoline Range Organics (C6-C10)	245	50	ug/l	250		98.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	12.6		"	10.0		126	70-130			

Matrix Spike (1J11004-MS1)

Source: MKJ0187-04

Prepared & Analyzed: 10/11/01

Gasoline Range Organics (C6-C10)	540	50	ug/l	550	ND	98.2	60-140			
Benzene	7.04	0.50	"	6.60	ND	107	60-140			
Toluene	36.0	0.50	"	39.7	ND	90.7	60-140			
Ethylbenzene	8.69	0.50	"	9.20	ND	94.5	60-140			
Xylenes (total)	43.4	0.50	"	46.1	ND	94.1	60-140			
Surrogate: a,a,a-Trifluorotoluene	6.00		"	10.0		60.0	70-130			S-04

Matrix Spike Dup (1J11004-MSD1)

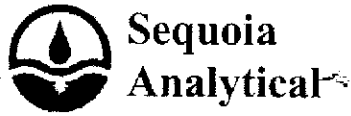
Source: MKJ0187-04

Prepared & Analyzed: 10/11/01

Gasoline Range Organics (C6-C10)	501	50	ug/l	550	ND	91.1	60-140	7.49	25	
Benzene	6.70	0.50	"	6.60	ND	102	60-140	4.95	25	
Toluene	34.6	0.50	"	39.7	ND	87.2	60-140	3.97	25	
Ethylbenzene	8.33	0.50	"	9.20	ND	90.5	60-140	4.23	25	
Xylenes (total)	41.1	0.50	"	46.1	ND	89.2	60-140	5.44	25	
Surrogate: a,a,a-Trifluorotoluene	6.20		"	10.0		62.0	70-130			S-04

Sequoia Analytical - Morgan Hill

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Pacific Environmental Group (Arco)
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Reported:
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Total Purgeable Hydrocarbons (C6-C10) by 8015B and BTEX and MTBE by 8021A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J15003 - EPA 5030B [P/T]										
Blank (1J15003-BLK1) Prepared & Analyzed: 10/15/01										
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	9.47		"	10.0		94.7	70-130			
LCS (1J15003-BS1) Prepared & Analyzed: 10/15/01										
Benzene	9.39	0.50	ug/l	10.0		93.9	70-130			
Toluene	10.4	0.50	"	10.0		104	70-130			
Ethylbenzene	11.4	0.50	"	10.0		114	70-130			
Xylenes (total)	33.7	0.50	"	30.0		112	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.46		"	10.0		94.6	70-130			
LCS (1J15003-BS2) Prepared & Analyzed: 10/15/01										
Gasoline Range Organics (C6-C10)	209	50	ug/l	250		83.6	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.4		"	10.0		104	70-130			
Matrix Spike (1J15003-MS1) Source: MKJ0256-02 Prepared & Analyzed: 10/15/01										
Gasoline Range Organics (C6-C10)	530	50	ug/l	550	ND	96.4	60-140			
Benzene	9.48	0.50	"	6.60	ND	144	60-140			QM-07
Toluene	39.3	0.50	"	39.7	ND	99.0	60-140			
Ethylbenzene	10.1	0.50	"	9.20	ND	110	60-140			
Xylenes (total)	48.1	0.50	"	46.1	ND	104	60-140			
Surrogate: a,a,a-Trifluorotoluene	10.1		"	10.0		101	70-130			
Matrix Spike Dup (1J15003-MSD1) Source: MKJ0256-02 Prepared & Analyzed: 10/15/01										
Gasoline Range Organics (C6-C10)	514	50	ug/l	550	ND	93.5	60-140	3.07	25	
Benzene	9.85	0.50	"	6.60	ND	149	60-140	3.83	25	QM-07
Toluene	38.8	0.50	"	39.7	ND	97.7	60-140	1.28	25	
Ethylbenzene	9.62	0.50	"	9.20	ND	105	60-140	4.87	25	
Xylenes (total)	46.4	0.50	"	46.1	ND	101	60-140	3.60	25	
Surrogate: a,a,a-Trifluorotoluene	12.1		"	10.0		121	70-130			



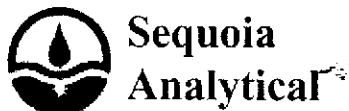
Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
10/22/01 18:47

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J10030 - General Preparation										
Blank (1J10030-BLK1) Prepared: 10/09/01 Analyzed: 10/10/01										
Total Suspended Solids	ND	10	mg/l							
Duplicate (1J10030-DUP1) Source: MKJ0187-04 Prepared: 10/09/01 Analyzed: 10/10/01										
Total Suspended Solids	ND	10	mg/l		ND				20	
Batch 1J22005 - General Preparation										
Blank (1J22005-BLK1) Prepared & Analyzed: 10/19/01										
Chemical Oxygen Demand	ND	20	mg/l							
LCS (1J22005-BS1) Prepared & Analyzed: 10/19/01										
Chemical Oxygen Demand	91.2	20	mg/l	100		91.2	80-120			
Matrix Spike (1J22005-MS1) Source: MKJ0408-01 Prepared & Analyzed: 10/19/01 QM-07										
Chemical Oxygen Demand	724	20	mg/l	100	500	224	75-125			
Matrix Spike Dup (1J22005-MSD1) Source: MKJ0408-01 Prepared & Analyzed: 10/19/01 QM-07										
Chemical Oxygen Demand	721	20	mg/l	100	500	221	75-125	0.415	20	



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

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1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo
Project Number: 17061 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
10/22/01 18:47

Notes and Definitions

- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- S-04 The surrogate recovery for this sample is outside control limits due to interference from the sample matrix.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference