Report of Quarterly Groundwater Monitoring
for the Period from
April 1 through June 30, 1996
The Sherwin-Williams Plant
Emeryville, California
July 24, 1996
LF 3435.00-04

Prepared for
The Sherwin-Williams Company
1450 Sherwin Avenue
Emeryville, California

LEVINE • FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

July 26, 1996 LF 3435.00-04

Mr. Sumadhu Arigala
Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, California 94612

Subject: Report of Quarterly Groundwater Monitoring for the Period from April 1 through June 30, 1996, The Sherwin-Williams Plant, Emeryville, California

Dear Mr. Arigala:

The enclosed report presents the results of the quarterly groundwater monitoring program conducted in April 1996 for the Sherwin-Williams plant in Emeryville, California. This groundwater monitoring event was conducted following completion of IRM activities and recent installation of additional site monitoring wells.

In addition, this report includes the results of Levine·Fricke well installation activities and well logs constructed during well installation activities as described in the work plan entitled, "Revised Work Plan for Installation of Additional Groundwater Monitoring and Extraction Wells, The Sherwin-Williams Plant, 1450 Sherwin Avenue, Emeryville, California," dated October 5, 1995.

The quarterly monitoring program included measuring groundwater elevations and collecting and analyzing groundwater samples for volatile organic compounds using EPA Method 8240, semivolatile organic compounds using EPA Method 8270, total petroleum hydrocarbon compounds as diesel using EPA Method 3510, total petroleum hydrocarbon compounds as gasoline using EPA Method 5030, and inorganic compounds (as arsenic and lead) using EPA Method 200/6000/7000 Series.

Please call either of the undersigned if you have any questions.

Sincerely,

Mark D. Knox, P.E.
Principal Engineer

Kenton A. Gee
Project Hydrogeologist

Enclosure

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CERTIFICATION

All engineering information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Levine-Fricke California Professional Engineer.

Mark D. Knox 7/24/96

Mark D. Knox
Principal Engineer
California Professional Civil Engineer (33194)

Date

1.0 INTRODUCTION AND SCOPE

This quarterly groundwater monitoring report for the period from April 1 through June 30, 1996 has been prepared for The Sherwin-Williams Company for submittal to the Regional Water Quality Control Board (RWQCB) as part of a self-monitoring program for its manufacturing facility located at 1450 Sherwin Avenue, Emeryville, California ("the Site"; Figures 1 and 2).

Because of site remedial construction activities as described in the report entitled, "Interim Remedial Measures Completion Report, Sherwin-Williams Facility, Emeryville, California," dated April 19, 1996, groundwater monitoring at the Site has not been conducted since the last semiannual period of 1994. This report describes the first monitoring event following completion of the site remedial construction activities and installation of the new monitoring wells. In addition, this report describes groundwater monitoring and extraction well installation and development activities as proposed in the work plan entitled, "Revised Work Plan for Installation of Additional Groundwater Monitoring and Extraction Wells, The Sherwin-Williams Plant, 1450 Sherwin Avenue, Emeryville, California," dated October 5, 1995.

The quarterly groundwater monitoring program for the period from April 1 through June 31, 1996 was conducted in April 1996. The program included measuring groundwater elevations in all accessible monitoring and extraction wells (including off-site Rifkin Property wells) and collecting samples for laboratory analysis from all accessible on-site and off-site Sherwin-Williams monitoring wells that are located outside the site slurry wall. In addition, samples were collected for laboratory analysis from extraction wells EX-1, EX-2, and EX-3 (located inside the slurry wall).

The following activities were conducted for the quarterly monitoring event for the period from April 1 through June 30, 1996:

- Groundwater levels were measured in on-site and off-site monitoring wells (LF-3, LF-4, LF-7, LF-8, LF-10, LF-11, LF-12, LF-13, LF-17, LF-18, LF-19, LF-20, LF-21, LF-22, LF-23, LF-24, LF-25, LF-B3, LF-B4, LF-B-5, LF-B6, and Rifkin Property wells RP-1 through RP-5 and MW-1 through MW-5).
- Groundwater samples were collected from ten A-zone monitoring wells located outside the site slurry wall, the three extraction wells located inside the site slurry wall, and all four B-zone monitoring wells.
- Groundwater samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8240, for semivolatile organic compounds (SVOCs) using EPA Method 8270, for total petroleum hydrocarbons as diesel (TPHd) using EPA Extraction Method 3510, for total petroleum hydrocarbons as gasoline (TPHg) using EPA Extraction Method 5030, and for inorganic compounds as lead and arsenic using EPA Methods 7421 and 7060.

Data were collected and are reported in accordance with the guidelines set forth in the Quality Assurance Project Plan (QAPP) prepared for this project by Levine·Fricke (Levine·Fricke 1990a).

2.0 GROUND-WATER ELEVATIONS AND FLOW DIRECTIONS

Groundwater elevations were measured on April 24, 1996. Groundwater elevation data are presented in Table 1. Groundwater elevations and directions of groundwater flow in the A zone and the B zone are illustrated in Figures 3 and 4, respectively.

As shown in Figure 3, groundwater flow in the A zone is being affected by pumping extraction wells EX-1, EX-2, and EX-3 within the site slurry wall. The A-zone groundwater flow direction inside the slurry wall is generally toward each of the three extraction wells. The A-zone groundwater flow direction outside the slurry wall is generally toward the northwest with flow directions changing slightly at and near the slurry wall.

The A-zone groundwater flow direction outside the slurry wall is generally consistent with historical A-zone groundwater flow directions. The A-zone groundwater flow direction inside the slurry wall indicates that A-zone groundwater within the slurry wall is being captured and is being prevented from moving off site.

As shown in Figure 4, B-zone groundwater flow direction is to the northwest. This is consistent with B-zone groundwater flow directions previously reported for the Site.

3.0 GROUND-WATER QUALITY SAMPLING

Levine·Fricke personnel collected groundwater samples for chemical analysis from April 9 through April 18, from A-zone monitoring wells LF-3, LF-11, LF-12, LF-13, LF-18, LF-20, LF-21, LF-23, LF-24, and LF-25, A-zone extraction wells EX-1, EX-2, and EX-3, and B-zone monitoring wells LF-B3 through LF-B6.

A minimum of 3 well volumes of water was purged from each monitoring well before sampling. The wells were purged either by pumping with a centrifugal pump or by hand bailing with a disposable polyethylene bailer. Wells that recovered slowly were purged dry and allowed to recover to 80 percent of the initial well volume before they were sampled. The hoses attached to the centrifugal pump were steam cleaned before each use. The evacuated water was pumped into a portable storage tank and then transferred and discharged into the site groundwater treatment system. Field measurements of temperature, pH, and specific conductance of the evacuated water were recorded during purging; wells were sampled after these parameters had stabilized.

After each well had been purged, groundwater samples were collected from monitoring wells for laboratory analysis using a new disposable polyethylene bailer for each well. Groundwater samples collected from extraction wells were collected at discharge ports at the site treatment system. All samples for chemical analysis were analyzed by American Environmental Network of Pleasant Hill, California, a state-certified laboratory, according to EPA Method protocol.

Laboratory certificates are included in Appendix A.

4.0 GROUND-WATER QUALITY ANALYSIS RESULTS

4.1 A-Zone Water-Quality Results

Analytical results for samples collected from A-zone wells are presented in Table 2 for VOCs, Table 3 for SVOCs, Table 4 for TPHd and TPHg, and Table 5 for inorganic compounds. Graphic illustrations of chemical concentrations detected in A-zone wells are presented in Figure 5 for VOCs, Figure 6 for SVOCs, Figure 7 for TPHd, Figure 8 for TPHg, and Figure 9 for inorganic compounds (lead and arsenic).

4.1.1 Volatile Organic Compounds

All VOC results from groundwater sampled from A-zone wells outside the slurry wall during this sampling event were below the reported laboratory detection limits with the exception of the groundwater sample from well LF-3. Groundwater from LF-3 contained 5.5 parts per million (ppm) ethylbenzene, 27.0 ppm total xylenes, and 45.0 ppm toluene.

4.1.2 Semivolatile Organic Compounds

All SVOC results from groundwater sampled from A-zone wells outside the slurry wall during this sampling event were below the reported laboratory detection limits with the exception of the groundwater sample from well LF-3. Groundwater from LF-3 contained 0.40 ppm 4-methylphenol.

4.1.3 Total Petroleum Hydrocarbons as Diesel

Relatively low hydrocarbon concentrations (less than 2.8 ppm) measured as TPHd were detected in groundwater samples from A-zone wells located outside the slurry wall (see Table 4, Figure 7, and Appendix A). Concentrations of TPHd for wells LF-12 and LF-13 did not exceed the detection limit of 0.050 ppm.

4.1.4 Total Petroleum Hydrocarbons as Gasoline

With the exception of wells LF-3 and LF-20, concentrations of TPHg did not exceed the detection limit of 0.050 ppm in groundwater samples from A-zone wells located outside the slurry wall (see Table 4, Figure 8, and Appendix A). Groundwater collected from well LF-20 contained the relatively low concentration of 0.23 ppm TPHg and groundwater collected from well LF-3 contained 87 ppm TPHg.

4.1.5 Inorganic Compounds

The results for groundwater samples collected from A-zone wells located outside the slurry wall that were analyzed for inorganic compounds as lead and arsenic indicated concentrations of arsenic in five wells. Lead was not detected in any of the groundwater samples collected from A-zone wells outside the slurry wall.

With the exception of well LF-3, concentrations ranged from 0.005 ppm in the sample from well LF-24 to 0.048 ppm in the sample from well LF-11. The sample from well LF-3 contained 58 ppm of arsenic.

4.2 B-Zone Water-Quality Results

Analytical results for samples collected from B-zone wells are presented in Table 2 for VOCs, Table 3 for SVOCs, Table 4 for TPHd and TPHg, and Table 5 for inorganic compounds. Graphic illustrations of chemical concentrations detected in B-zone wells are presented in Figure 6 for SVOCs, Figure 7 for TPHd, Figure 8 for TPHg, Figure 10 for VOCs, and Figure 11 for inorganic compounds.

4.2.1 Volatile Organic Compounds

VOC results for B-zone monitoring wells sampled during this monitoring period (LF-B3, LF-B4, LF-B5, and LF-B6) indicated 0.013 ppm and 0.28 ppm 1,2-dichloroethane (1,2-DCA) in the samples from wells LF-B3 and LF-B5, respectively. The sample from well LF-B6 contained 0.29 ppm ethylbenzene, 0.97 total xylenes, and 0.29 ppm toluene. The concentrations of VOCs in the sample collected from well LF-B4 did not exceed the laboratory detection limits.

4.2.2 Semivolatile Organic Compounds

SVOC results for B-zone monitoring wells sampled during this monitoring period (LF-B3, LF-B4, LF-B5, and LF-B6) indicated relatively low concentrations of bis(2-ethylhexyl)phthalate in all of the B-zone wells. Concentrations of bis(2-ethylhexyl)phthalate in B-zone wells ranged from 0.015 ppm in the sample collected from LF-B5 to 0.059 ppm in the sample collected from LF-B4. In addition,

2-methylphenol was detected in the sample collected from well LF-B6 at a concentration of 0.010 ppm.

4.2.3 Total Petroleum Hydrocarbons as Diesel

The results of TPHd analysis of groundwater samples collected from B-zone monitoring wells indicated concentrations of 0.10 ppm, 1.0 ppm, and 2.7 ppm of diesel in the samples collected from wells LF-B5, LF-B6, and LF-B3, respectively. The concentration of TPHd in the sample collected from well LF-B4 did not exceed the laboratory detection limit.

4.2.4 Total Petroleum Hydrocarbons as Gasoline

With the exception of well LF-B6, the results of TPHg analysis of groundwater samples collected from B-zone monitoring wells were less than the detection limit of 0.05 ppm (Table 4, Figure 8, and Appendix A). The sample collected from well LF-B6 contained 2.7 ppm of TPHg.

4.2.5 Inorganic Compounds

Of the metals analyzed (lead and arsenic), arsenic was detected in samples collected from wells LF-B3, LF-B5, and LF-B6 at concentrations of 0.036 ppm ,0.32 ppm, and 0.080 ppm, respectively. The concentrations of lead in the samples collected from all four B-zone wells did not exceed the laboratory detection limit of 0.002 ppm (see Table 5, Figure 11, and Appendix A).

5.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) PROCEDURES AND RESULTS

QA and QC measures were implemented for the purpose of maintaining data quality and minimizing the potential for field and/or laboratory cross contamination of samples. QA/QC procedures included collecting trip blank and bailer rinsate blank samples, controlling sampling order, using disposable bailers, and daily steam cleaning of pump hoses before and after use.

The results for the QA/QC samples are reported in Appendix A and in Tables 2 through 5. These results indicate that the QA/QC controls were effective in eliminating field and/or laboratory cross contamination of samples.

6.0 SUMMARY OF WELL INSTALLATION AND DEVELOPMENT ACTIVITIES

As proposed in the work plan entitled, "Revised Work Plan for Installation of Additional Groundwater Monitoring and Extraction Wells, The Sherwin-Williams Plant, 1450 Sherwin Avenue, Emeryville, California," dated October 5, 1995, 3 A-zone extraction wells, 10 A-zone groundwater monitoring wells, and 2 B-zone groundwater monitoring wells were installed at the Site. The three A-zone extraction wells (EX-1, EX-2, and EX-3) were installed on July 17, 1995. Seven A-zone monitoring wells (LF-17, LF-18, LF-19, LF-20, LF-21, LF-22, and LF-26) and two B-zone monitoring wells (LF-B5 and LF-B6) were installed from January 30 through February 5, 1996. The remaining three A-zone monitoring wells (LF-23, LF-24, and LF-25) were installed on April 4 and 5, 1996.

Under the supervision of Levine·Fricke, Gregg Drilling of Martinez, California installed the wells using the hollow-stem auger drilling method. The two B-zone wells (LF-B5 and LF-B6) were double-cased to prevent migration of chemicals from the A-zone groundwater to the B-zone groundwater.

Following installation activities, Gregg Drilling developed the newly installed wells to enhance hydraulic communication with the surrounding sediments. A-zone extraction wells were developed on July 28, 1995. The remaining A-zone and B-zone wells were developed on April 9, 10, and 11, 1996.

Appendix B contains a description of methodologies used during well installation and development activities. Appendix C contains field logs of lithology and well construction for the newly installed wells.

REFERENCES

Levine·Fricke, Inc. 1990a. Quality Assurance Project Plan for Sherwin-Williams Plant, Emeryville, California. November 29 (unpublished report).

———. 1990b. Quarterly Report of Groundwater Monitoring for the Period of July 1 through September 30, 1990, Sherwin-Williams Plant, Emeryville, California. November 29.

———. 1992. Self-Monitoring Plan for 1992-1993: Annual and Semiannual Groundwater Monitoring Program, The Sherwin-Williams Plant, Emeryville, California. May 18.

———. 1995. Revised Work Plan for Installation of Additional Groundwater Monitoring and Extraction Wells, The Sherwin-Williams Plant, 1450 Sherwin Avenue, Emeryville, California. October 5.

———. 1996. Interim Remedial Measures Completion Report, Sherwin-Williams Facility, Emeryville, California. April 19.

Table 1
Ground-Water Elevation Data, April 1996
The Sherwin-Williams Plant
Emeryville, California

Well Number	Date	Well Elevation	Measured Depth to Water	Ground-Water Elevation
Sherwin-Williams Wells				
LF-3	24-Apr-96	12.00	4.87	7.13
LF-4	24-Apr-96	12.53	6.72	5.81
LF-7	24-Apr-96	14.44	8.65	5.79
LF-8	24-Apr-96	12.91	7.14	5.77
LF-10	24-Apr-96	10.99	5.10	5.89
LF-11	24-Apr-96	10.05	3.19	6.86
LF-12	24-Apr-96	14.95	6.57	8.38
LF-13	24-Apr-96	14.78	6.21	8.57
LF-17	24-Apr-96	12.53	5.35	7.18
LF-18	24-Apr-96	13.05	8.21	4.84
LF-19	24-Apr-96	14.18	7.92	6.26
LF-20	24-Apr-96	11.77	7.55	4.22
LF-21	24-Apr-96	10.37	3.65	6.72
LF-22	24-Apr-96	19.16	11.55	7.61
LF-23	24-Apr-96	10.64	4.08	6.56
LF-24	24-Apr-96	10.22	4.40	5.82
LF-25	24-Apr-96	11.31	7.15	4.16
LF-26	24-Apr-96	12.90	7.90	5.00
EX-1	24-Apr-96	10.08	15.42	-5.34
EX-2	24-Apr-96	10.08	14.87	-4.79
EX-3	24-Apr-96	14.90	16.95	-2.05
LF-B3	24-Apr-96	10.30	3.44	6.86
LF-B4	24-Apr-96	14.55	6.39	8.16
LF-B5	24-Apr-96	18.29	10.35	7.94
LF-B6	24-Apr-96	11.99	5.12	6.87
Rifkin Property Wells				
RP-1	24-Apr-96	15.14	7.81	7.33
RP-2	24-Apr-96	15.24	8.04	7.20
RP-3	24-Apr-96	15.17	7.92	7.25
RP-4	24-Apr-96	15.13	8.05	7.08
RP-5	24-Apr-96	15.04	7.96	7.08
MW-1	24-Apr-96	13.78	6.93	6.85
MW-2	24-Apr-96	13.58	6.56	7.02
MW-3	24-Apr-96	14.60	7.19	7.41
MW-4	24-Apr-96	15.53	7.72	7.81
MW-5	24-Apr-96	15.24	7.49	7.75

Data entered by PCA. Proofed by [illegible].

TABLE 2
SUMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Acetone	Benzene	Ethyl-Benzene	Methyl Ethyl Ketone	Total Xylenes	2-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
LF-1	01-Jun-89	30.000	<0.200	0.900	20.000	3.600	15.000	6.000	<0.200	<0.200	<0.200	<0.200	<0.200	75.500	
LF-1	07-Dec-89	<0.010	<0.001	<0.001	<0.020	0.040	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.042	
LF-1	20-Jul-90	0.450	0.002	<0.001	0.200	0.160	<0.001	0.018	<0.001	<0.001	0.005	0.004	<0.001	0.840	#2
LF-1	21-Jun-91	<0.020	<0.005	0.019	<0.020	0.010	<0.010	<0.005	<0.005	<0.005	0.002	<0.005	<0.005	0.032	
LF-1	09-Jul-92	<0.020	<0.005	0.008	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	
LF-1	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-2	02-Jun-89	<0.050	0.015	0.015	<0.100	0.300	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.330	
LF-2	07-Dec-89	0.350	<0.020	<0.020	<0.400	0.840	<0.020	0.029	<0.020	<0.020	<0.020	<0.020	<0.020	1.219	
LF-2	20-Jul-90	<0.500	<0.050	0.066	8.800	0.910	12.000	0.051	<0.050	<0.050	<0.050	<0.050	0.050	21.827	
LF-3	02-Jun-89	<1.000	<0.100	2.500	<2.000	12.000	<0.100	17.000	<0.100	<0.100	<0.100	<0.100	<0.100	31.500	
LF-3	07-Dec-89	<5.000	<0.500	6.300	<10.000	32.000	<0.500	77.000	<0.500	<0.500	<0.500	<0.500	<0.500	115.300	
LF-3	20-Jul-90	10.000	0.110	5.000	7.700	22.000	1.900	52.000	<0.050	<0.050	<0.050	<0.050	<0.050	98.710	
LF-3	21-Jun-91	9.900	<1.000	7.500	8.200	44.000	<2.000	62.000	<1.000	<1.000	<1.000	<1.000	<1.000	131.600	
LF-3	09-Jul-92	<10.000	<2.500	8.900	<10.000	43.000	<5.000	92.000	<2.500	<2.500	<2.500	<2.500	<2.500	143.900	
DUP	09-Jul-92	<20.000	<5.000	8.800	<20.000	45.000	<10.000	100.000	<5.000	<5.000	<5.000	<5.000	<5.000	153.800	
LF-3	09-Jun-93	<10.000	<2.500	9.800	<10.000	48.000	<5.000	120.000	<2.500	<2.500	<2.500	<2.500	<2.500	177.800	
DUP	09-Jun-93	<10.000	<2.500	7.600	<10.000	37.000	<5.000	110.000	<2.500	<2.500	<2.500	<2.500	<2.500	154.600	
LF-3	16-Apr-96	<50.000	<3.000	5.500	<50.0	27.000	<30.000	45.000	<3.000	<3.000	<3.000	<3.000	<3.000	77.500	
LF-4	02-Jun-89	1.300	<0.200	1.300	4.700	3.800	0.260	<0.200	<0.020	<0.020	<0.020	<0.020	<0.020	11.360	
Dup	02-Jun-89	1.300	<0.200	1.700	4.700	4.100	0.280	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	12.080	
LF-4	06-Dec-89	<0.020	<0.020	0.200	<0.040	0.650	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	0.850	
DUP	06-Dec-89	<0.050	<0.005	0.250	<0.100	0.750	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	1.000	
LF-4	20-Jul-90	<1.000	<1.000	<0.100	<2.000	0.380	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.380	
LF-4	21-Jun-91	0.079	0.039	0.058	<0.040	0.350	<0.020	0.007	<0.010	<0.010	<0.010	<0.010	0.005	0.556	
DUP	21-Jun-91	<0.040	0.040	0.140	<0.040	0.380	<0.020	0.008	<0.010	<0.010	<0.010	<0.010	0.006	0.594	#4
LF-4	09-Jul-92	<0.020	0.016	0.015	<0.020	0.069	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	0.108	

TABLE 2
SUMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Acetone	Benzene	Ethyl-Benzene	Methyl Ethyl Ketone	Total Xylenes	2-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
LF-4	09-Jun-93	<0.200	0.051	0.210	<0.200	1.500	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	1.761	
LF-5	01-Jun-89	220.000	<2.000	2.000	390.000	8.000	<2.000	300.000	<1.000	<1.000	<1.000	<2.000	<1.000	920.000	
LF-5	06-Dec-89	51.000	<1.000	<1.000	320.000	<1.000	<1.000	310.000	<1.000	<1.000	<1.000	<1.000	<1.000	681.000	
LF-5	20-Jul-90	<10.000	<1.000	1.100	170.000	2.600	6.700	170.000	<1.000	<1.000	<1.000	<1.000	<1.000	350.400	
LF-5	21-Jun-91	<20.000	<5.000	<5.000	<20.000	5.400	<10.000	>200.00	<5.000	<5.000	<5.000	<5.000	<5.000	5.400	
LF-5	09-Jul-92	<20.000	<5.000	<5.000	<20.000	<5.000	<10.000	150.000	<5.000	<5.000	<5.000	<5.000	<5.000	150.000	
LF-5	09-Jun-93	<10.000	<2.500	<2.500	<10.000	4.500	<5.000	83.000	<2.500	<2.500	<2.500	<2.500	<2.500	87.500	
LF-6	01-Jun-89	280.000	<1.000	6.000	470.000	210.000	<1.000	22.000	<0.200	<0.200	<0.200	<1.000	<0.200	988.000	
LF-6	05-Dec-89	64.000	<1.000	5.000	320.000	17.000	<1.000	59.000	<1.000	<1.000	<1.000	<1.000	<1.000	465.000	
LF-6	20-Jul-90	200.000	<1.000	4.000	720.000	13.000	24.000	45.000	<1.000	<1.000	45.000	<1.000	<1.000	1051.000	
LF-6	Sealed August 2, 1990														
LF-7	01-Jun-89	<0.005	0.050	<0.005	<0.005	0.580	<0.005	0.270	<0.001	<0.001	<0.001	<0.005	<0.001	0.900	
LF-7	06-Dec-89	<0.010	0.031	0.052	<0.020	0.150	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	0.007	0.243	
LF-7	19-Jul-90	<0.010	<0.001	0.007	<0.020	0.044	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.052	
LF-7	20-Jun-91	<0.020	0.061	0.045	<0.020	0.120	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	0.233	
LF-7	09-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
DUP	09-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-7	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
DUP	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-7	06-Jan-94	<0.050	0.031	0.003	<0.050	0.014	<0.030	0.120	<0.003	<0.003	<0.003	<0.003	0.009	0.177	
LF-8	05-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	
LF-8	19-Jul-90	<0.010	<0.001	0.007	<0.020	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.010	
LF-8	21-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-8	20-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-8	09-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	

TABLE 2
SUMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Acetone	Benzene	Ethyl-Benzene	Methyl Ethyl Ketone	Total Xylenes	2-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
LF-8	30-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-8	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-8	06-Jan-94	<0.050	<0.003	<0.005	<0.050	<0.005	<0.030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.000	
LF-9	05-Dec-89	<0.010	<0.001	0.022	<0.020	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	0.005	0.030	
LF-9	19-Jul-90	<0.010	<0.001	0.011	<0.020	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	0.017	
LF-9	21-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-9	21-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	0.006	
LF-9	09-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.005	
LF-9	30-Dec-92	<0.020	<0.005	0.007	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.020	
LF-9	09-Jun-93	<0.020	0.005	<0.005	<0.020	<0.005	<0.010	0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.010	
LF-10	07-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-10	19-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-10	19-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
DUP	19-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-10	21-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-10	21-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-10	09-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-10	31-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
DUP	31-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-10	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-10	06-Jan-94	<0.050	<0.003	<0.005	<0.050	<0.005	<0.030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.000	
DUP	06-Jan-94	<0.050	<0.003	<0.005	<0.050	<0.005	<0.030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.000	
LF-11	05-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	
DUP	05-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.023	<0.001	<0.001	<0.001	<0.001	<0.001	0.000	
LF-11	19-Jul-90	0.015	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.016	
LF-11	21-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	

TABLE 2
SUMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Acetone	Benzene	Ethyl-Benzene	Methyl Ethyl Ketone	Total Xylenes	2-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
LF-11	21-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
DUP	21-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-11	09-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-11	31-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-11	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-11	05-Jan-94	<0.050	<0.003	<0.005	<0.050	<0.005	<0.030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.000	
LF-11	4-Apr-96	<0.100	<0.005	<0.005	<0.1	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-12	06-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	
LF-12	18-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002	<0.001	0.003	
LF-12	19-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.003	<0.001	0.005	
LF-12	19-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	0.002	<0.005	0.002	
LF-12	08-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-12	30-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-12	08-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-12	06-Jan-94	<0.050	<0.003	<0.005	<0.050	<0.005	<0.030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.000	
LF-12	16-Apr-96	<0.100	<0.005	<0.005	<0.1	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-13	06-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	0.002	0.029	<0.001	<0.001	<0.001	<0.001	0.031	
LF-13	18-Jul-90	<0.010	<0.001	<0.001	<0.020	0.001	<0.001	0.002	0.056	<0.001	0.001	<0.001	<0.001	0.060	
LF-13	19-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	0.042	0.002	0.002	<0.001	<0.001	0.046	#3
LF-13	19-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	0.032	<0.005	<0.005	<0.005	<0.005	0.032	
LF-13	08-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	0.010	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-13	30-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-13	08-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	0.008	
LF-13	05-Jan-94	<0.050	<0.003	<0.005	<0.050	<0.005	<0.030	<0.003	0.004	<0.003	<0.003	<0.003	<0.003	0.004	
LF-13	16-Apr-96	<0.100	<0.005	<0.005	<0.1	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-14	04-Sep-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	

TABLE 2
SUMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Acetone	Benzene	Ethyl-Benzene	Methyl Ethyl Ketone	Total Xylenes	2-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
LF-14	21-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-14	20-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-14	09-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-14	31-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-14	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-15	04-Sep-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-15	21-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-15	20-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-15	08-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-15	30-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-15	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-16	04-Sep-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-16	20-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-16	20-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-16	09-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-16	30-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-16	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-18	11-Apr-96	<0.1	<0.005	<0.005	<0.100	<0.010	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-20	11-Apr-96	<0.1	<0.005	<0.005	<0.1	<0.010	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-21	10-Apr-96	<0.1	<0.005	<0.005	<0.1	<0.010	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-23	10-Apr-96	<0.1	<0.005	<0.005	<0.1	<0.010	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
(dup)	10-Apr-96	<0.1	<0.005	<0.005	<0.1	<0.010	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	

TABLE 2
SUMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Acetone	Benzene	Ethyl-Benzene	Methyl Ethyl Ketone	Total Xylenes	2-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
LF-24	11-Apr-96	<0.1	<0.005	<0.005	<0.1	<0.010	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-25	11-Apr-96	<0.1	<0.005	<0.005	<0.1	<0.01	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-B1	07-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	0.051	<0.001	<0.001	<0.001	0.051	
LF-B1	18-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.002	<0.001	0.170	0.001	<0.001	<0.001	0.171	
LF-B1	20-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	0.130	<0.001	<0.001	<0.001	0.130	
LF-B1	20-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.180	<0.005	<0.005	<0.005	0.180	
LF-B1	08-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.150	<0.005	<0.005	<0.005	0.150	
LF-B1	30-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.140	<0.005	<0.005	<0.005	0.140	
LF-B1	08-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.160	<0.005	<0.005	<0.005	0.160	
LF-B2	06-Dec-89	<0.010	<0.001	<0.001	<0.020	0.013	<0.001	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	0.020	
LF-B2	18-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	0.002	<0.001	0.007	<0.001	<0.001	<0.001	0.009	
DUP	18-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	0.002	<0.001	0.007	<0.001	<0.001	<0.001	0.009	
LF-B2	19-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	0.004	0.002	<0.001	<0.001	0.006	
LF-B2	20-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.150	<0.005	<0.005	<0.005	0.150	
LF-B2	08-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	0.006	
LF-B2	08-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	0.006	
LF-B3	07-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	0.001	<0.001	<0.001	0.100	<0.001	<0.001	<0.001	0.101	#1
DUP	07-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	0.073	<0.001	<0.001	<0.001	0.073	
LF-B3	18-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	0.002	<0.001	0.086	<0.001	<0.001	<0.001	0.088	
LF-B3	20-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	0.084	<0.001	<0.001	<0.001	0.084	
LF-B3	19-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.110	<0.005	<0.005	<0.005	0.110	
LF-B3	08-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.110	<0.005	<0.005	<0.005	0.110	
LF-B3	30-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.110	<0.005	<0.005	<0.005	0.110	
LF-B3	08-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	0.110	<0.005	<0.005	<0.005	0.110	
LF-B3	05-Jan-94	<0.050	<0.003	<0.005	<0.050	<0.005	<0.030	<0.003	<0.003	0.099	<0.003	<0.003	<0.003	0.099	

TABLE 2
SUMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Acetone	Benzene	Ethyl-Benzene	Methyl Ethyl Ketone	Total Xylenes	2-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
LF-B3	16-Apr-96	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	0.013	<0.005	<0.005	<0.005	0.013	
LF-B4	18-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	0.002	<0.001	0.001	<0.001	<0.001	<0.001	0.003	
LF-B4	19-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	
LF-B4	19-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-B4	08-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-B4	30-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-B4	08-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-B4	05-Jan-94	<0.050	<0.003	<0.005	<0.050	<0.005	<0.030	<0.003	<0.003	<0.003	<0.003	0.012	<0.003	0.012	
LF-B4	16-Apr-96	<0.100	<0.005	<0.005	<0.1	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-B5	9-Apr-96	<1.000	<0.050	<0.050	<1.0	<0.100	<0.500	<0.050	<0.050	0.280	<0.050	<0.050	<0.050	0.280	
LF-B6	9-Apr-96	<2.000	<0.100	0.290	<2.0	0.970	<1.000	0.290	<0.100	<0.100	<0.100	<0.100	<0.100	1.550	
EX-1	18-Apr-96	<0.100	<0.005	0.006	<0.100	0.020	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.026	
EX-2	18-Apr-96	<50	<3.0	8.000	<50	10.0	<30.0	24.0	<3.0	<3.0	<3.0	<3.0	<3.0	42.000	
EX-3	18-Apr-96	<5.0	<0.3	<0.3	<5.0	<0.5	<3.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
FIELD BLANKS & TRIP BLANKS															
LF-1-FB	01-Jun-86	0.012	<0.001	<0.001	<0.020	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.016	
LF-1-FB	07-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B1-FB	07-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-13-FB	06-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
Trip Blank	07-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B4-TB	18-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B4-BB	18-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	

TABLE 2
SUMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Acetone	Benzene	Ethyl-Benzene	Methyl Ethyl Ketone	Total Xylenes	2-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
LF-11-TB	19-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-11-BB	19-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B4-BR	19-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-8-TB	21-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-8-BR	21-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B3-BR	20-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B3-BR	19-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-11-BR	20-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-4-TB	24-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
Trip Blank	06-Aug-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-B3-TB	08-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-B3-BR	08-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-7-TB	09-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-9-BR	09-Jul-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-B4-TB	30-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-B4-BR	30-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-11-BR	31-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-10DUP	31-Dec-92	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
TRIP08	08-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-B3-BR	08-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-7-TB	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-7-BR	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-10-TB	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
Trip Blank	03-Jan-94	<0.050	<0.003	<0.005	<0.050	<0.005	<0.030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
LF-10-FB	06-Jan-94	<0.050	<0.003	<0.005	<0.050	<0.005	<0.030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
LF-18-FB	11-Apr-96	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	

Data entered by RCA. Data proofed by RBK QA/QC by SXS

TABLE 2
SUMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Acetone	Benzene	Ethyl-Benzene	Methyl Ethyl Ketone	Total Xylenes	2-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes

Notes:

DUP = Duplicate Sample
1,1,1-TCA = 1,1,1-Trichloroethane
1,2-DCA = 1,2-Dichloroethane
PCE = Tetrachloroethene
TCE = Trichloroethene

#1 LF-B3 6/02/89 - Vinyl Acetate reported at 0.001 ppm, Styrene reported at 0.001 ppm, and Methyl Isobutyl Ketone reported at 0.001 ppm.
#2 LF-1 7/20/90 - cis-Dichloroethene reported at 0.001 ppm.
#3 LF-13 12/19/90 - 1,1-Dichloroethane reported at 0.002 ppm.
#4 LF-4 DUP 06/21/91 - cis-1,2-Dichloroethene reported at 0.020 ppm.

TABLE 3

SUMMARY OF HISTORICAL

SEMIVOLATILE ORGANIC COMPOUNDS (EPA METHOD 8270) IN GROUND-WATER MONITORING WELLS

(All concentrations expressed in parts per million [ppm])

Well Number	Date Sampled	2-Methyl-naptha-lene	Naphtha-lene	Phenol	2-Methyl-phenol	4-Methyl-phenol	2,4-Di-methyl-phenol	Bis(2-ethyl-hexyl)-phthalate	Total All Quantified Concentrations	Notes
LF-1	01-Jun-89	<0.004	0.018	<0.020	0.011	<0.010	<0.005	<0.040	0.029	
LF-1	07-Dec-89	<0.004	<0.004	<0.020	<0.010	<0.020	<0.010	*<0.170	<0.040	
LF-1	20-Jul-90	<0.002	<0.002	0.011	<0.005	<0.010	<0.005	<0.020	0.011	
LF-1	21-Jun-91	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	
LF-1	09-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-1	10-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.006	0.006	
LF-2	02-Jun-89	<0.100	0.650	<0.500	<0.200	<0.500	<0.200	<1.000	0.650	
LF-2	07-Dec-89	<0.020	0.320	<0.100	<0.050	<0.100	<0.050	<0.200	0.320	
LF-2	20-Jul-90	<0.020	0.330	<0.100	<0.050	<0.100	<0.050	<0.200	0.330	
LF-3	02-Jun-89	0.034	0.091	<0.100	0.020	<0.010	<0.005	<0.020	0.287	#1
LF-3	07-Dec-89	<0.020	0.140	<0.100	0.070	0.450	<0.050	<0.200	0.660	
LF-3	20-Jul-90	<0.020	0.160	<0.100	0.240	0.800	<0.050	<0.200	1.200	
LF-3	21-Jun-91	<0.110	0.110	0.039	0.210	0.630	0.050	<0.110	1.039	
LF-3	09-Jul-92	<0.100	0.150	<0.100	0.150	0.530	<0.100	<0.100	0.830	
DUP	09-Jul-92	<0.100	0.140	<0.100	0.120	0.410	0.130	<0.100	0.800	
LF-3	10-Jun-93	<0.100	0.170	<0.100	0.088	0.410	0.039	<0.100	0.707	
DUP	10-Jun-93	<0.100	0.160	<0.100	0.092	0.440	0.038	<0.100	0.730	
LF-3	11-Apr-96	<0.100	<0.100	<0.100	<0.100	0.400	<0.100	<0.100	<0.100	
LF-4	02-Jun-89	0.016	0.140	<0.010	<0.010	<0.010	<0.005	<0.200	0.156	
Duplicate	02-Jun-89	0.009	0.095	<0.010	<0.010	<0.010	<0.005	<0.200	0.104	
LF-4	06-Dec-89	<0.002	0.015	<0.010	<0.005	<0.010	<0.005	*<0.170	0.015	
Duplicate	06-Dec-89	<0.002	0.007	<0.010	<0.005	<0.010	<0.005	*<0.170	0.007	
LF-4	20-Jul-90	<0.002	0.010	0.015	<0.005	<0.010	<0.005	<0.020	0.025	
LF-4	21-Jun-91	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	
DUP	21-Jun-91	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	
LF-4	09-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-4	09-Jun-93	<0.010	0.010	<0.010	<0.010	<0.010	<0.010	0.018	0.028	
LF-5	01-Jun-89	<0.004	0.020	<0.020	0.220	0.600	<0.005	<0.040	0.840	
LF-5	06-Dec-89	<0.002	0.025	0.056	0.280	0.790	0.039	*<0.170	1.190	

TABLE 3

SUMMARY OF HISTORICAL

SEMIVOLATILE ORGANIC COMPOUNDS (EPA METHOD 8270) IN GROUND-WATER MONITORING WELLS

(All concentrations expressed in parts per million [ppm])

Well Number	Date Sampled	2-Methyl-naptha-lene	Naphtha-lene	Phenol	2-Methyl-phenol	4-Methyl-phenol	2,4-Di-methyl-phenol	Bis(2-ethyl-hexyl)-phthalate	Total All Quantified Concentrations	Notes
LF-5	20-Jul-90	<0.020	<0.020	<0.100	0.280	0.850	<0.050	<0.200	1.350	#2
LF-5	06-Aug-91	<0.050	<0.050	<0.050	0.180	0.250	<0.050	<0.050	0.467	
LF-5	09-Jul-92	<0.020	<0.020	<0.020	0.140	0.190	<0.020	<0.020	0.330	
LF-5	09-Jun-93	<0.010	<0.010	<0.010	0.063	0.075	<0.010	<0.010	0.138	
LF-6	05-Dec-89	<0.040	0.060	0.380	0.160	1.000	<0.100	<0.400	1.600	
LF-6	20-Jul-90	<0.020	<0.020	0.200	0.280	0.850	<0.050	<0.200	1.330	
LF-6	Sealed August 2, 1990									
LF-7	01-Jun-89	<0.004	0.008	<0.020	<0.010	<0.010	<0.005	<0.040	0.008	
LF-7	06-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	*<0.170	<0.040	
LF-7	08-Aug-90	---	<0.002	<0.010	—	—	<0.005	<0.020	<0.020	
LF-7	06-Aug-91	<0.013	0.005	<0.013	<0.013	<0.013	<0.013	<0.013	0.005	
LF-7	09-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
DUP	09-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-7	09-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
DUP	09-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.015	0.015	
LF-8	05-Dec-89	<0.002	0.060	0.380	<0.005	<0.010	<0.005	*<0.170	0.440	
LF-8	08-Aug-90	---	<0.002	<0.010	—	—	<0.005	<0.020	<0.020	
LF-8	21-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-8	20-Jun-91	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	
LF-8	09-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-8	09-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.017	0.017	
LF-9	05-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	*<0.170	<0.020	
LF-9	19-Jul-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.002	<0.020	
LF-9	21-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-9	21-Jun-91	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-9	09-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-9	09-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.024	0.024	
LF-10	05-Dec-89	<0.002	0.140	<0.010	<0.005	<0.010	<0.005	*<0.170	0.140	

TABLE 3

SUMMARY OF HISTORICAL

SEMIVOLATILE ORGANIC COMPOUNDS (EPA METHOD 8270) IN GROUND-WATER MONITORING WELLS

(All concentrations expressed in parts per million [ppm])

Well Number	Date Sampled	2-Methyl-naptha-lene	Naphtha-lene	Phenol	2-Methyl-phenol	4-Methyl-phenol	2,4-Di-methyl-phenol	Bis(2-ethyl-hexyl)-phthalate	Total All Quantified Concentrations	Notes
LF-10D	19-Jul-90	<0.005	<0.002	<0.010	<0.005	<0.010	<0.005	<0.002	<0.010	
LF-10	21-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-10D	21-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-10	21-Jun-91	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-10	09-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-10	10-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.018	0.018	
LF-11	05-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	*<0.170	<0.010	
LF-11	08-Aug-90	—	<0.002	<0.010	—	—	<0.005	<0.020	<0.010	
LF-11	21-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	0.034	0.034	
LF-11	21-Jun-91	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
DUP	20-Jun-91	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-11	09-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-11	09-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.054	0.054	
LF-11	16-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-12	06-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	*<0.170	<0.020	
LF-12	18-Jul-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	0.028	0.028	
LF-12	19-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-12	19-Jun-91	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	
LF-12	08-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-12	08-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.027	0.027	
LF-12	16-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-13	06-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	*<0.170	<0.020	
LF-13	18-Jul-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.010	
LF-13	19-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-13	19-Jun-91	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-13	08-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-13	08-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-13	16-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-14	04-Sep-90	<0.005	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	

TABLE 3

SUMMARY OF HISTORICAL

SEMIVOLATILE ORGANIC COMPOUNDS (EPA METHOD 8270) IN GROUND-WATER MONITORING WELLS

(All concentrations expressed in parts per million [ppm])

Well Number	Date Sampled	2-Methyl-naptha-lene	Naphtha-lene	Phenol	2-Methyl-phenol	4-Methyl-phenol	2,4-Di-methyl-phenol	Bis(2-ethyl-hexyl)-phthalate	Total All Quantified Concentrations	Notes
LF-14	20-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-14	20-Jun-91	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	
LF-14	08-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-14	09-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-15	04-Sep-90	<0.005	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-15	20-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-15	20-Jun-91	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	
LF-15	08-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-15	09-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.014	0.014	
LF-16	04-Sep-90	<0.005	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-16	20-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-16	20-Jun-91	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	
LF-16	09-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-16	09-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-18	11-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-20	11-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-21	11-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-23	11-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
DUP	11-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-24	11-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-25	11-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-B1	07-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	*<0.170	<0.175	
LF-B1	18-Jul-90	<0.005	<0.002	0.460	<0.005	<0.010	<0.005	0.140	0.600	
LF-B1	20-Dec-90	<0.002	<0.002	0.041	<0.005	<0.010	<0.005	0.045	0.086	

TABLE 3

SUMMARY OF HISTORICAL

SEMIVOLATILE ORGANIC COMPOUNDS (EPA METHOD 8270) IN GROUND-WATER MONITORING WELLS

(All concentrations expressed in parts per million [ppm])

Well Number	Date Sampled	2-Methyl-naptha-lene	Naphtha-lene	Phenol	2-Methyl-phenol	4-Methyl-phenol	2,4-Di-methyl-phenol	Bis(2-ethyl-hexyl)-phthalate	Total All Quantified Concentrations	Notes
LF-B1	20-Jun-91	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	
LF-B1	08-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-B1	08-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-B2	06-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	0.029	*<0.170	0.029	
LF-B2	18-Jul-90	<0.005	<0.002	0.140	<0.005	<0.010	<0.005	0.032	0.172	
LF-B2D	18-Jul-90	<0.005	<0.002	0.088	<0.005	<0.010	<0.005	0.060	0.148	
LF-B2	20-Dec-90	<0.005	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-B2	21-Jun-91	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	0.018	0.018	
LF-B2	08-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-B2	08-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-B3	07-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	*<0.170	<0.020	
LF-B3	18-Jul-90	<0.005	<0.002	<0.010	<0.005	<0.010	<0.005	0.190	0.190	
LF-B3	20-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-B3	21-Jun-91	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	
LF-B3	08-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-B3	08-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-B3	16-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.040	0.040	
LF-B4	18-Jul-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	0.023	0.023	
LF-B4	19-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-B4	19-Jun-91	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.064	0.064	
LF-B4	08-Jul-92	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-B4	08-Jun-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
LF-B4	16-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.059	0.059	
LF-B5	09-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.015	0.015	
LF-B6	09-Apr-96	<0.010	0.010	<0.010	<0.010	<0.010	<0.010	0.018	0.028	
EX-1	18-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	

TABLE 3

SUMMARY OF HISTORICAL

SEMIVOLATILE ORGANIC COMPOUNDS (EPA METHOD 8270) IN GROUND-WATER MONITORING WELLS

(All concentrations expressed in parts per million [ppm])

Well Number	Date Sampled	2-Methyl-naptha-lene	Naphtha-lene	Phenol	2-Methyl-phenol	4-Methyl-phenol	2,4-Di-methyl-phenol	Bis(2-ethyl-hexyl)-phthalate	Total All Quantified Concentrations	Notes
EX-2	18-Apr-96	<0.10	<0.10	<0.10	0.290	0.130	0.310	<0.10	0.730	
EX-3	18-Apr-96	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
FIELD & TRIP BLANKS										
LF-1-FB	01-Jun-86	<0.004	<0.004	<0.020	<0.010	<0.010	<0.005	<0.040	<0.020	
LF-1-FB	07-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-B1-FB	07-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
Trip Blank	07-Dec-89	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	0.035	0.035	
LF-B4-TB	18-Jul-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-B4-BB	18-Jul-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-7-BB	08-Aug-90	—	<0.002	<0.010	<0.005	—	<0.005	<0.020	<0.020	
LF-B4-BR	19-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-B3-BR	20-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-8-TB	21-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-8-BR	21-Dec-90	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-B3-BR	19-Jun-91	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-11-BR	20-Jun-91	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	
LF-4-TB	21-Jun-91	<0.002	<0.002	<0.010	<0.005	<0.010	<0.005	<0.020	<0.020	

Notes:

* indicates value not accepted as valid based on positive results of 0.035 ppm for trip blank sample. (dectection limit reported as 5 times 0.035 ppm = 0.170 ppm for indicated reporting period).

— indicates results not reported by laboratory.

8270 = EPA Method 8270 for semivolatile organic compounds.

TABLE 3

SUMMARY OF HISTORICAL

SEMIVOLATILE ORGANIC COMPOUNDS (EPA METHOD 8270) IN GROUND-WATER MONITORING WELLS

(All concentrations expressed in parts per million [ppm])

Well Number	Date Sampled	2-Methyl-naptha-lene	Naphtha-lene	Phenol	2-Methyl-phenol	4-Methyl-phenol	2,4-Di-methyl-phenol	Bis(2-ethyl-hexyl)-phthalate	Total All Quantified Concentrations	Notes

#1 LF-3 02/06/89 - Lab Data Reported the Following: Acenaphthene at 0.016 ppm; Anthracene at 0.005 ppm; Benzo(a)anthracene at 0.005 ppm

#2 LF-5 07/20/90 - Benzoic Acid reported at 0.220 ppm.

TABLE 4
SUMMARY OF HISTORICAL TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE IN GROUNDWATER MONITORING WELLS THE SHERWIN-WILLIAMS PLANT, EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Total Petroleum Hydrocarbons As Diesel	Total Petroleum Hydrocarbons As Gasoline	Notes
LF-1	21-Jun-91	<0.050		
LF-1	09-Jul-92	0.110	<0.050	
LF-1	09-Jun-93	0.083		
LF-1	10-Jun-93		<0.050	
LF-2	20-Jul-90			
LF-3	21-Jun-91	2.000		
LF-3	09-Jul-92	3.000	190.000	
DUP	09-Jul-92	3.300	180.000	
LF-3	10-Jun-93	100	150	#2
DUP	10-Jun-93	110	150	#2
LF-3	16-Apr-96	2.6	87	
LF-4	21-Jun-91	0.780		
DUP	21-Jun-91	0.510		
LF-4	09-Jul-92	1.200	14.000	
LF-4	09-Jun-93	1.200	2.200	#2
LF-5	06-Aug-91	4.700		
LF-5	09-Jul-92	0.830	69.000	
LF-5	09-Jun-93	2.000	95.000	#2
LF-7	20-Jun-91	<0.050		
LF-7	09-Jul-92	0.300	0.140	
DUP	09-Jul-92	0.480	0.130	
LF-7	09-Jun-93	0.340	0.110	
DUP	09-Jun-93	0.320	0.100	
LF-7	06-Jan-94	0.540	0.500	
LF-8	20-Jun-91	<0.050		
LF-8	09-Jul-92	0.250	<0.050	
LF-8	30-Dec-92	0.150	0.120	#4
LF-8	09-Jun-93	0.330	<0.050	#4
LF-8	06-Jan-94	1.700	<0.050	
LF-9	21-Jun-91	0.200		
LF-9	09-Jul-92	0.300	0.620	
LF-9	30-Dec-92	0.300	0.510	#4
LF-9	09-Jun-93	0.560	0.430	#4
LF-10	21-Jun-91	0.270		

TABLE 4
SUMMARY OF HISTORICAL TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE IN GROUNDWATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT, EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Total Petroleum Hydrocarbons As Diesel	Total Petroleum Hydrocarbons As Gasoline	Notes
LF-10	09-Jul-92	0.420	0.700	
LF-10	31-Dec-92	0.330	0.190	#1
DUP	31-Dec-92	0.370	0.180	#1
LF-10	10-Jun-93	0.470	0.180	
LF-10	06-Jan-94	1.500	0.200	
DUP	06-Jan-94	1.200	0.200	#4
LF-11	19-Jul-90			
LF-11	20-Jun-91	0.130		
LF-11-D	20-Jun-91	0.120		
LF-11	09-Jul-92	0.260	<0.050	
LF-11	31-Dec-92	0.310	0.058	#1
LF-11	09-Jun-93	0.270	<0.050	
LF-11	05-Jan-94	0.800	0.060	
LF-11	16-Apr-96	0.930	<0.05	
LF-12	19-Jun-91	<0.050		
LF-12	08-Jul-92	<0.050	<0.050	
LF-12	30-Dec-92	<0.050	<0.050	
LF-12	08-Jun-93	0.099	<0.050	
LF-12	06-Jan-94	<0.050	<0.050	
LF-12	16-Apr-96	<0.05	<0.05	
LF-13	19-Jun-91	<0.050		
LF-13	08-Jul-92	<0.050	<0.050	
LF-13	30-Dec-92	<0.050	<0.050	
LF-13	08-Jun-93	0.052	<0.050	
LF-13	05-Jan-94	<0.050	<0.050	
LF-13	16-Apr-96	<0.05	<0.05	
LF-14	20-Jun-91	<0.050		
LF-14	09-Jul-92	0.180	<0.050	
LF-14	31-Dec-92	0.190	0.068	#1
LF-14	09-Jun-93	0.240	<0.050	
LF-15	20-Jun-91	<0.050		
LF-15	08-Jul-92	<0.050	<0.050	
LF-15	30-Dec-92	<0.050	<0.050	
LF-15	09-Jun-93	0.098	<0.050	
LF-16	20-Jun-91	<0.050		
LF-16	09-Jul-92	0.075	<0.050	

TABLE 4
SUMMARY OF HISTORICAL TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE IN GROUNDWATER MONITORING WELLS THE SHERWIN-WILLIAMS PLANT, EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Total Petroleum Hydrocarbons As Diesel	Total Petroleum Hydrocarbons As Gasoline	Notes
LF-16	30-Dec-92	<0.050	0.050	
LF-16	09-Jun-93	0.083	<0.050	
LF-18	11-Apr-96	0.320	<0.05	
LF-20	11-Apr-96	0.960	0.230	
LF-21	10-Apr-96	2.800	<0.05	
LF-23	10-Apr-96	1.700	<0.05	
DUP	10-Apr-96	1.300	<0.05	
LF-24	11-Apr-96	0.090	<0.05	
LF-25	11-Apr-95	0.180	<0.05	
LF-B1	20-Jun-91	<0.050		
LF-B1	08-Jul-92	<0.050	0.180	
LF-B1	30-Dec-92	<0.050	0.200	#3
LF-B1	08-Jun-93	0.061	0.180	#3
LF-B2	21-Jun-91	<0.050		
LF-B2	08-Jul-92	<0.050	<0.050	
LF-B2	08-Jun-93	<0.050	<0.050	
LF-B3	19-Jun-91	<0.050		
LF-B3	08-Jul-92	<0.050	0.140	
LF-B3	30-Dec-92	<0.050	0.150	#3
LF-B3	08-Jun-93	0.060	0.090	#3
LF-B3	05-Jan-94	<0.050	<0.050	
LF-B3	16-Apr-96	2.700	<0.050	
LF-B4	19-Jun-91	<0.050		
LF-B4	08-Jul-92	<0.050	<0.050	
LF-B4	30-Dec-92	<0.050	0.160	#3
LF-B4	08-Jun-93	0.066	<0.050	#3
LF-B4	05-Jan-94	<0.050	<0.050	
LF-B4	16-Apr-96	<0.05	<0.05	
LF-B5	09-Apr-96	0.100	<0.05	
LF-B6	09-Apr-96	1.000	2.700	

TABLE 4
SUMMARY OF HISTORICAL TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE IN GROUNDWATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT, EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Total Petroleum Hydrocarbons As Diesel	Total Petroleum Hydrocarbons As Gasoline	Notes
EX-1	18-Apr-96	4.300	0.420	
EX-2	18-Apr-96	1.300	41.000	
EX-3	18-Apr-96	0.430	<0.05	

Data entered by KA. Data proofed by EBK QA/QC by SxS

Notes:

Samples analyzed by B&C using Modified EPA Method 8015 for total fuel hydrocarbons.
Samples analyzed by ANA and AEN using EPA Method 3510 for total petroleum hydrocarbons as diesel.
Samples analyzed using EPA Method 5030 for total petroleum hydrocarbons as gasoline

#1 - The concentrations reported as diesel by Anametrix for samples LF-10, LF-10DUP, LF-11, and LF-14 are primarily caused by the presence of a heavier petroleum product, possibly motor oil.

#2 - The concentrations reported as diesel by Anametrix for samples LF-3, LF-3DUP, LF-4, and LF-5 are primarily due to the presence of a lighter petroleum product of hydrocarbon range C6-C12, possibly gasoline.

#3 - The concentrations reported as gasoline by Anametrix for samples LF-B1, LF-B2 and LF-B4 are primarily caused by the presence of discrete hydrocarbon peak not indicative of gasoline

#4 - The concentration reported by Anametrix as gasoline for samples LF-8 and LF-9 are primarily caused by the presence of a heavier petroleum hydrocarbon peak not indicative of gasoline

TABLE 5
SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
LF-1	01-Jun-89	200.000	NA	<0.0400	<0.300				
LF-1	07-Dec-89	190.000	NA	<0.0400	<0.300				
LF-1	20-Jul-90	120.000	0.060	<0.0500	<0.200				
LF-1	20-Jun-91	58.000	NA	<0.005	<0.004				
LF-1	09-Jul-92	53.200	<0.100	0.058	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-1	10-Jun-93	39.800	<0.100	<0.030	0.0039	<0.010	<0.0002	<0.050	<0.010
LF-3	02-Jun-89	27.000	NA	<0.0400	<0.300				
LF-3	07-Dec-89	30.000	NA	<0.0400	<0.300				
LF-3	20-Jul-90	21.000	0.420	<0.0500	<0.200				
LF-3	20-Jun-91	60.400	NA	<0.005	<0.004				
LF-3	09-Jul-92	70.800	0.473	0.0205	<0.040	<0.010	<0.00027	<0.005	<0.010
DUP	09-Jul-92	66.600	0.452	0.0361	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-3	10-Jun-93	142.000	0.625	<0.100	<0.003	<0.010	<0.0002	<0.050	<0.010
DUP	10-Jun-93	141.000	0.635	<0.100	<0.003	<0.010	<0.0002	<0.050	<0.010
LF-3	16-Apr-96	58.000	NA	NA	<0.002	NA	NA	NA	NA
LF-4	02-Jun-89	0.530	NA	<0.0400	<0.300				
Duplicate	02-Jun-89	0.580	NA	<0.0400	<0.300				
LF-4	06-Dec-89	0.420	NA	<0.0400	<0.300				
Duplicate	06-Dec-89	0.550	NA	<0.0400	<0.300				
LF-4	20-Jul-90	0.190	0.160	<0.0500	<0.200				
LF-4	20-Jun-91	0.510	NA	<0.005	0.015				
LF-4-DUP	20-Jun-91	0.493	NA	<0.005	0.010				
LF-4	09-Jul-92	0.367	0.119	<0.005	<0.040	<0.010	<0.00027	<0.025	<0.010
LF-4	09-Jun-93	1.520	0.250	<0.015	<0.003	<0.010	<0.0002	<0.025	<0.010
LF-5	01-Jun-89	0.017	NA	<0.0400	<0.300				
LF-5	06-Dec-89	*<0.070	NA	<0.0400	<0.300				
LF-5	20-Jul-90	0.020	0.170	<0.0500	<0.200				
LF-5	20-Jun-91	0.038	NA	<0.005	0.003				
LF-5	09-Jul-92	<0.010	0.111	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010

TABLE 5
SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
LF-5	09-Jun-93	0.0283	0.257	<0.005	<0.003	<0.010	<0.00027	<0.005	<0.010
LF-6	01-Jun-89	13.000	NA	0.0900	<0.300				
LF-6	05-Dec-89	16.000	NA	0.0600	<0.300				
LF-6	20-Jul-90	14.000	0.210	<0.0500	<0.200				
LF-6	Sealed August 2, 1990								
LF-7	01-Jun-89	0.008	NA	<0.0400	<0.300				
LF-7	06-Dec-89	*<0.070	NA	<0.0400	<0.300				
LF-7	19-Jul-90	<0.002	0.060	<0.0500	<0.200				
LF-7	20-Jun-91	0.012	NA	<0.005	<0.004				
LF-7	09-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
DUP	09-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-7	09-Jun-93	<0.010	0.191	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
DUP	09-Jun-93	<0.010	0.201	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-7	06-Jan-94	<0.002	0.07	<0.001	0.001	<0.002	<0.0002	<0.004	<0.001
LF-8	05-Dec-89	*<0.070	NA	<0.0400	<0.300				
LF-8	19-Jul-90	<0.002	0.120	<0.0500	<0.200				
LF-8	21-Dec-90	0.020	0.590	0.0015	<0.200				
LF-8	20-Jun-91	0.021	NA	<0.005	<0.004				
LF-8	09-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-8	30-Dec-92	0.029	0.177	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-8	09-Jun-93	0.0384	0.121	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-8	06-Jan-94	0.055	0.10	<0.001	<0.001	<0.002	<0.0002	0.005	<0.001
LF-9	05-Dec-89	0.067	NA	<0.0400	<0.300				
LF-9	19-Jul-90	0.008	0.110	<0.0500	<0.200				
LF-9	21-Dec-90	0.120	0.270	0.0029	<0.200				
LF-9	20-Jun-91	0.075	NA	<0.005	0.012				
LF-9	06-Aug-91	0.131	NA	NA	NA				
LF-9	09-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010

TABLE 5
SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
LF-9	30-Dec-92	0.106	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-9	09-Jun-93	0.158	0.169	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-10	07-Dec-89	0.650	NA	<0.0400	<0.300				
LF-10	19-Jul-90	0.012	0.110	<0.0500	<0.200				
Duplicate	19-Jul-90	0.008	0.140	<0.0500	<0.300				
LF-10	21-Dec-90	1.000	0.330	0.0009	<0.200				
Duplicate	21-Dec-90	1.100	0.350	0.0007	<0.300				
LF-10	20-Jun-91	0.657	NA	<0.005	0.013				
LF-10	06-Aug-91	1.090	NA	NA	NA				
LF-10	09-Jul-92	0.328	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.025	<0.010
LF-10	31-Dec-92	0.550	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
DUP	31-Dec-92	0.552	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-10	10-Jun-93	0.958	0.249	<0.005	<0.003	<0.010	<0.0002	<0.050	<0.010
LF-10	06-Jan-94	0.940	0.190	<0.001	<0.001	<0.002	<0.0002	<0.004	0.002
DUP	06-Jan-94	0.820	0.180	<0.001	0.001	<0.002	<0.0002	<0.004	0.002
LF-11	05-Dec-89	*<0.070	NA	<0.0400	<0.300				
LF-11	19-Jul-90	0.007	0.120	<0.0500	<0.200				
LF-11	21-Dec-90	0.011	0.180	0.0006	<0.200				
LF-11	20-Jun-91	0.023	NA	<0.005	0.007				
LF-11	20-Jun-91	0.024	NA	<0.005	0.006				
LF-11	06-Aug-91	0.021	NA	NA	NA				
LF-11	09-Jul-92	<0.010	0.169	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-11	31-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-11	09-Jun-93	0.0116	0.152	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-11	05-Jan-94	0.019	0.130	<0.001	<0.001	<0.002	<0.0002	<0.004	0.001
LF-11	16-Apr-96	0.048	NA	NA	<0.002	NA	NA	NA	NA
LF-12	06-Dec-89	*<0.070	NA	<0.0400	<0.300				
LF-12	18-Jul-90	0.004	0.060	<0.0500	<0.300				
LF-12	19-Jun-91	<0.010	NA	<0.005	<0.004				

TABLE 5
SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
LF-12	08-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-12	30-Dec-92	0.014	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-12	08-Jun-93	0.0152	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-12	06-Jan-94	0.013	0.060	<0.001	<0.001	0.006	<0.0002	0.005	<0.001
LF-12	16-Apr-96	0.043	NA	NA	<0.002	NA	NA	NA	NA
LF-13	06-Dec-89	*<0.070	NA	<0.0400	<0.300				
LF-13	18-Jul-90	<0.002	<0.050	<0.0500	<0.200				
LF-13	19-Dec-90	<0.002	0.100	<0.0005	<0.200				
LF-13	19-Jun-91	<0.010	NA	<0.005	<0.004				
LF-13	08-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-13	30-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-13	08-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-13	05-Jan-94	0.003	0.040	<0.005	<0.001	<0.002	<0.0002	<0.004	<0.001
LF-13	16-Apr-96	<0.002	NA	NA	<0.002	NA	NA	NA	NA
LF-14	04-Sep-90	0.092	0.060	<0.0005	0.007				
LF-14	02-Oct-90	0.077	NA	NA	NA				
LF-14	20-Dec-90	0.150	0.470	0.0036	<0.200				
LF-14	20-Jun-91	0.095	NA	<0.005	<0.004				
LF-14	09-Jul-92	0.039	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-14	31-Dec-92	0.121	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-14	09-Jun-93	0.102	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-15	04-Sep-90	0.002	0.060	<0.0005	0.043				
LF-15	20-Dec-90	0.007	0.230	0.0007	<0.200				
LF-15	20-Jun-91	<0.010	NA	<0.005	<0.004				
LF-15	08-Jul-92	<0.010	0.105	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-15	30-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-15	09-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-16	04-Sep-90	0.003	0.060	<0.0005	<0.002				

TABLE 5
SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
LF-16	20-Dec-90	0.003	0.170	0.0007	<0.200				
LF-16	20-Jun-91	0.010	NA	<0.005	<0.004				
LF-16	09-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-16	30-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-16	09-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.050	<0.010
LF-18	11-Apr-96	0.012	NA	NA	<0.002	NA	NA	NA	NA
LF-20	11-Apr-96	<0.002	NA	NA	<0.002	NA	NA	NA	NA
LF-21	10-Apr-96	<0.002	NA	NA	<0.002	NA	NA	NA	NA
LF-23	10-Apr-96	<0.002	NA	NA	<0.002	NA	NA	NA	NA
DUP	10-Apr-96	0.004	NA	NA	<0.002	NA	NA	NA	NA
LF-24	11-Apr-96	0.005	NA	NA	<0.002	NA	NA	NA	NA
LF-25	11-Apr-96	<0.002	NA	NA	<0.002	NA	NA	NA	NA
LF-B1	07-Dec-89	*<0.070	NA	<0.0400	<0.300				
LF-B1	18-Jul-90	0.007	0.08	<0.0500	<0.2				
LF-B1	20-Dec-90	0.005	0.100	0.0010	<0.200				
LF-B1	20-Jun-91	<0.010	NA	<0.005	0.004				
LF-B1	08-Jul-92	<0.010	0.122	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-B1	30-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-B1	08-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-B2	06-Dec-89	*<0.070	NA	<0.0400	<0.300				
LF-B2	18-Jul-90	0.005	0.140	<0.0500	<0.200				
Duplicate	18-Jul-90	0.004	0.150	<0.0500	<0.200				
LF-B2	19-Dec-90	0.008	0.320	0.0026	<0.200				
LF-B2	20-Jun-91	<0.010	NA	<0.005	0.005				

TABLE 5
SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
LF-B2	08-Jul-92	<0.010	0.245	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-B2	08-Jun-93	<0.010	0.233	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-B3	07-Dec-89	*<0.070	NA	<0.0400	<0.300				
LF-B3	18-Jul-90	0.003	0.100	<0.0500	<0.200				
LF-B3	20-Dec-90	0.002	0.160	<0.0005	<0.200				
LF-B3	19-Jun-91	<0.010	NA	<0.005	<0.004				
LF-B3	08-Jul-92	<0.010	0.133	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-B3	30-Dec-92	<0.010	0.112	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-B3	08-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-B3	05-Jan-94	0.004	0.110	0.0060	<0.001	<0.002	<0.0002	<0.004	<0.001
LF-B3	16-Apr-96	0.036	NA	NA	<0.002	NA	NA	NA	NA
LF-B4	17-Jul-90	0.003	0.080	<0.0500	<0.200				
LF-B4	19-Dec-90	<0.002	0.080	0.0014	<0.200				
LF-B4	19-Jun-91	<0.010	NA	<0.005	<0.004				
LF-B4	08-Jul-92	<0.010	0.140	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-B4	30-Dec-92	<0.010	0.110	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-B4	08-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-B4	05-Jan-94	0.003	0.070	<0.001	0.001	<0.002	<0.0002	<0.004	<0.001
LF-B4	16-Apr-96	<0.002	NA	NA	<0.002	NA	NA	NA	NA
LF-B5	09-Apr-96	0.320	NA	NA	<0.002	NA	NA	NA	NA
LF-B6	09-Apr-96	0.080	NA	NA	<0.002	NA	NA	NA	NA
EX-1	18-Apr-96	0.002	NA	NA	<0.002	NA	NA	NA	NA
EX-2	18-Apr-96	9.3	NA	NA	<0.002	NA	NA	NA	NA
EX-3	18-Apr-96	200	NA	NA	<0.002	NA	NA	NA	NA

TABLE 5
SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
FIELD & TRIP BLANKS									
LF-1-FB	01-Jun-89	0.012	NA	<0.0400	<0.300				
LF-1-FB	07-Dec-89	0.003	NA	<0.0400	<0.300				
LF-B1-FB	07-Dec-89	0.014	NA	<0.0400	<0.300				
Trip Blank	07-Dec-89	0.013	NA	<0.0400	<0.300				
LF-B4-TB	18-Jul-90	<0.002	NA	<0.0500	<0.200				
LF-B4-BB	18-Jul-90	<0.002	NA	<0.0500	<0.200				
LF-11-TB	19-Jul-90	<0.002	NA	<0.0500	0.200				
LF-11-BB	19-Jul-90	<0.002	NA	<0.0500	<0.200				
LF-5- TB	20-Jul-90	0.002	NA	<0.0500	<0.200				
LF-16-TB	04-Sep-90	<0.002	NA	<0.0005	0.005				
LF-B4-TB	19-Dec-90	<0.002	<0.050	<0.0005	<0.200				
LF-B4-BB	19-Dec-90	<0.002	<0.050	<0.0005	<0.200				
LF-B3-TB	20-Dec-90	<0.002	<0.050	<0.0005	<0.200				
LF-B3-BR	20-Dec-90	<0.002	<0.050	<0.0005	<0.200				
LF-8-TB	21-Dec-90	<0.002	<0.050	<0.0005	<0.200				
LF-8-BR	21-Dec-90	<0.002	<0.050	<0.0005	<0.200				
LF-B3-BR	19-Jun-91	<0.010	NA	<0.005	<0.004				
LF-B4-TB	19-Jun-91	<0.010	NA	<0.005	<0.004				
LF-4-TB	20-Jun-91	<0.010	NA	<0.005	<0.004				
LF-11-TB	20-Jun-91	<0.010	NA	<0.005	<0.004				
LF-11-BR	20-Jun-91	<0.010	NA	<0.005	<0.004				
Trip Blank	06-Aug-91	<0.010	NA	NA	<0.003				
LF-B3-TB	08-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-7-TB	09-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-3-TB	09-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-B4-TB	30-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-B4-BR	30-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-7-TB	09-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-10-FB	10-Jun-93	<0.100	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
Trip Blank	08-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010

TABLE 5
SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUND-WATER MONITORING WELLS
THE SHERWIN-WILLIAMS PLANT
EMERYVILLE, CALIFORNIA

(Results reported in parts per million [ppm])

Well Number	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
LF-10-FB	06-Jan-94	<0.002	<0.01	<0.001	<0.001	<0.01	<0.0002	<0.004	<0.001

Data entered by PCA. Proofed by EBK.

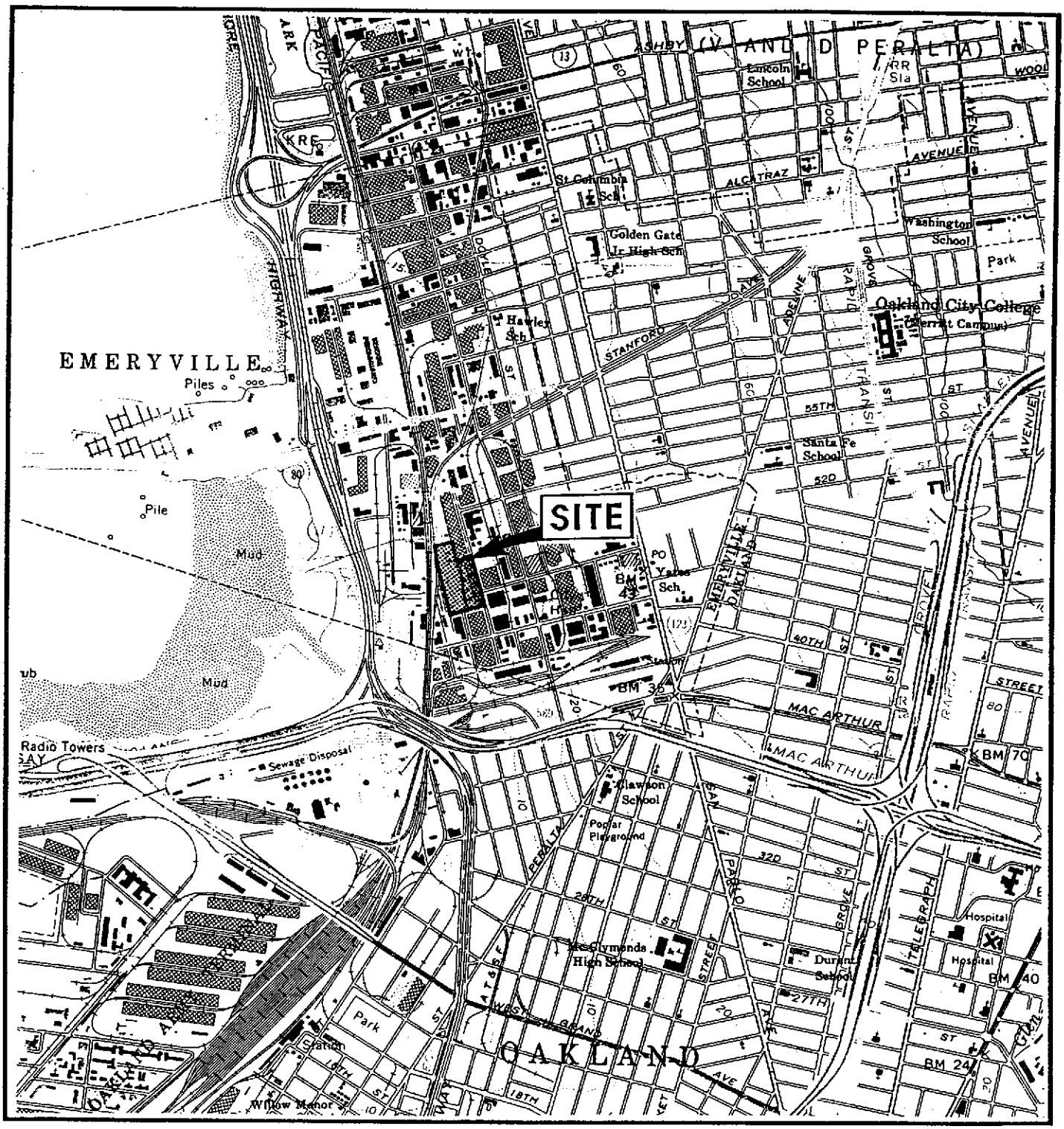
Notes :

* = Data not validated based on positive results of trip blank (0.014 ppm) or bailer rinsate blank (0.013 ppm) of submitted samples. Detection Limit for arsenic for December 1989 sampling period set at 0.070 or 5 times the reported value of 0.014 ppm for trip blank sample.

NA = Not Analyzed

200/7000 = EPA Method 200/6000/7000 Series for selected metals.

Results of analyses for other inorganic compounds as metals that are not part of the annual and semiannual self-monitoring program for 1992 and 1993 are reported in Levine*Fricke, April 4, 1990, Table 10 and Levine*Fricke, December 20, 1991, Table 5.



MAP SOURCE:
U.S.G.S. Oakland West Quadrangle,
Oakland, California
7.5 Minute Series

Figure 1 : SITE LOCATION MAP

Project No. 1563

JDR11JUL89em

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3435

HORTON STREET

SHERWIN AVENUE

TEMESCAL CREEK

DRAINAGE DITCH

LF-13
LF-12
LF-B4
LF-B1
LF-1
LF-22
LF-B5
LF-19
LF-7
LF-18
LF-8
LF-26
LF-9
LF-20
LF-B6
LF-5
LF-B2
LF-4
LF-10
LF-B3
LF-21
LF-25
LF-14
LF-24
LF-15
LF-23
LF-16
LF-11
LF-17
LF-2
LF-3
EX-1
EX-2
EX-3

WAREHOUSE
WAREHOUSE AND OFFICE
SHOP
BOILER HOUSE
TRI-BIO BIOLOGICAL TREATMENT SYSTEM
WAREHOUSE
FACTORY
FACTORY
ANDCO ELECTROCHEMICAL TREATMENT SYSTEM
WAREHOUSE OFFICE
WAREHOUSE

IMPERVIOUS CAP WITHIN SLURRY WALL

NPDES Storm Sewer Outfall

TRUCK PARKING AREA

PAVED PARKING AREA

SOIL-BENTONITE SLURRY CUT-OFF WALL

EDGE OF PAVEMENT AND EASEMENT LINE

0 40 80 FEET

EXPLANATION

- Property boundary
- Chain link fence
- LF-10 ● A-zone monitoring well
- LF-B3 ● B-zone monitoring well
- EX-1 ⊙ Ground-water extraction well location
- ⊗ Monitoring well destroyed under permit
- ⊗ Monitoring well destroyed or lost during slurry wall and cap construction activities
- ⊕ Monitoring well destroyed during railway expansion activities

3435B003.CDR 050696ECM:KAG

Figure 2 :

SITE PLAN
APRIL 1996

Project No. 3435

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3435GG01.CDR 061096ECM:EBK

HORTON STREET

SHERWIN AVENUE

TEMESCAL CREEK

DRAINAGE DITCH

WAREHOUSE

WAREHOUSE AND OFFICE

SHOP

BOILER HOUSE

TRI-BIO BIOLOGICAL TREATMENT SYSTEM

WAREHOUSE

FACTORY

FACTORY

ANDCO ELECTROCHEMICAL TREATMENT SYSTEM

WAREHOUSE OFFICE

WAREHOUSE

IMPERVIOUS CAP WITHIN SLURRY WALL

NPDES Storm Sewer Outfall

TRUCK PARKING AREA

PAVED PARKING AREA

SOIL-BENTONITE SLURRY CUT-OFF WALL

EDGE OF PAVEMENT AND EASEMENT LINE

MW-1 6.85
MW-2 7.02
MW-3 7.41
MW-4 7.81
MW-5 7.75
RP-1 7.33
RP-2 7.20
RP-3 7.25
RP-4 7.08
RP-5 7.08
LF-1
LF-2
LF-3 7.13
LF-4 5.81
LF-5
LF-7 5.79
LF-8 5.77
LF-9
LF-10 5.89
LF-11 6.86
LF-12 8.38
LF-13 8.57
LF-14
LF-15
LF-16
LF-17 7.18
LF-18 4.84
LF-19 6.26 *
LF-20 4.22
LF-21 6.72
LF-22 7.61
LF-23 6.56
LF-24 5.82
LF-25 4.16
LF-26 5.00
LF-B1
LF-B2
LF-B3
LF-B4
LF-B5
LF-B6
EX-1 5.34
EX-2 -4.79
EX-3 -2.05

EXPLANATION

- Property boundary
- Chain link fence
- LF-10 ● A-zone monitoring well
- LF-B3 ● B-zone monitoring well
- EX-1 ⊙ Ground-water extraction well location
- ⊗ Monitoring well destroyed under permit
- ⊗ Monitoring well destroyed or lost during slurry wall and cap construction activities
- ⊕ Monitoring well destroyed during railway expansion activities
- ⊙ Rifkin property monitoring wells (TMC)
- ◒ Rifkin property monitoring wells (Levine-Fricke)
- 5.89 Ground-water elevation (feet above mean sea level)
- 5.5 Ground-water elevation contour (feet above mean sea level)
- * Water level not used in contouring

0 40 80 FEET

3435B004.CDR 050696ECM:KAG

Figure 3 :

A-ZONE GROUND-WATER ELEVATION MAP
APRIL 24, 1996

Project No. 3435

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3435GG02.CDR 061096dgt

HORTON STREET

SHERWIN AVENUE

TEMESCAL CREEK

DRAINAGE DITCH

LF-13

LF-12

LF-B4 8.16

LF-B1

LF-1

LF-22

LF-B5 7.94

8.0

WAREHOUSE

WAREHOUSE AND OFFICE

SHOP

BOILER HOUSE

EX-3

IMPERVIOUS CAP WITHIN SLURRY WALL

TRI-BIO BIOLOGICAL TREATMENT SYSTEM

WAREHOUSE

LF-19

LF-7

LF-17

LF-2

FACTORY

FACTORY

LF-18

LF-8

NPDES Storm Sewer Outfall

LF-3

ANDCO ELECTROCHEMICAL TREATMENT SYSTEM

LF-B6 6.87

EX-1

LF-5

LF-B2

EX-2

WAREHOUSE OFFICE

TRUCK PARKING AREA

WAREHOUSE

LF-26

LF-9

PAVED PARKING AREA

LF-4

7.5

7.0

LF-20

LF-10 6.86

LF-B3

SOIL-BENTONITE SLURRY CUT-OFF WALL

LF-21

LF-11

LF-25

LF-14

EDGE OF PAVEMENT AND EASEMENT LINE

LF-24

LF-15

LF-23

LF-16

0 40 80 FEET

EXPLANATION

Property boundary

Chain link fence

LF-10 A-zone monitoring well

LF-B3 B-zone monitoring well

EX-1 Ground-water extraction well location

Monitoring well destroyed under permit

Monitoring well destroyed or lost during slurry wall and cap construction activities

Monitoring well destroyed during railway expansion activities

6.86 Ground-water elevation (feet above mean sea level)

7.5 Ground-water elevation contour (feet above mean sea level); dashed where inferred

3435B003.CDR 050696ECM:KAG

Figure 4 :

B-ZONE GROUND-WATER ELEVATION MAP
APRIL 24, 1996

Project No. 3435

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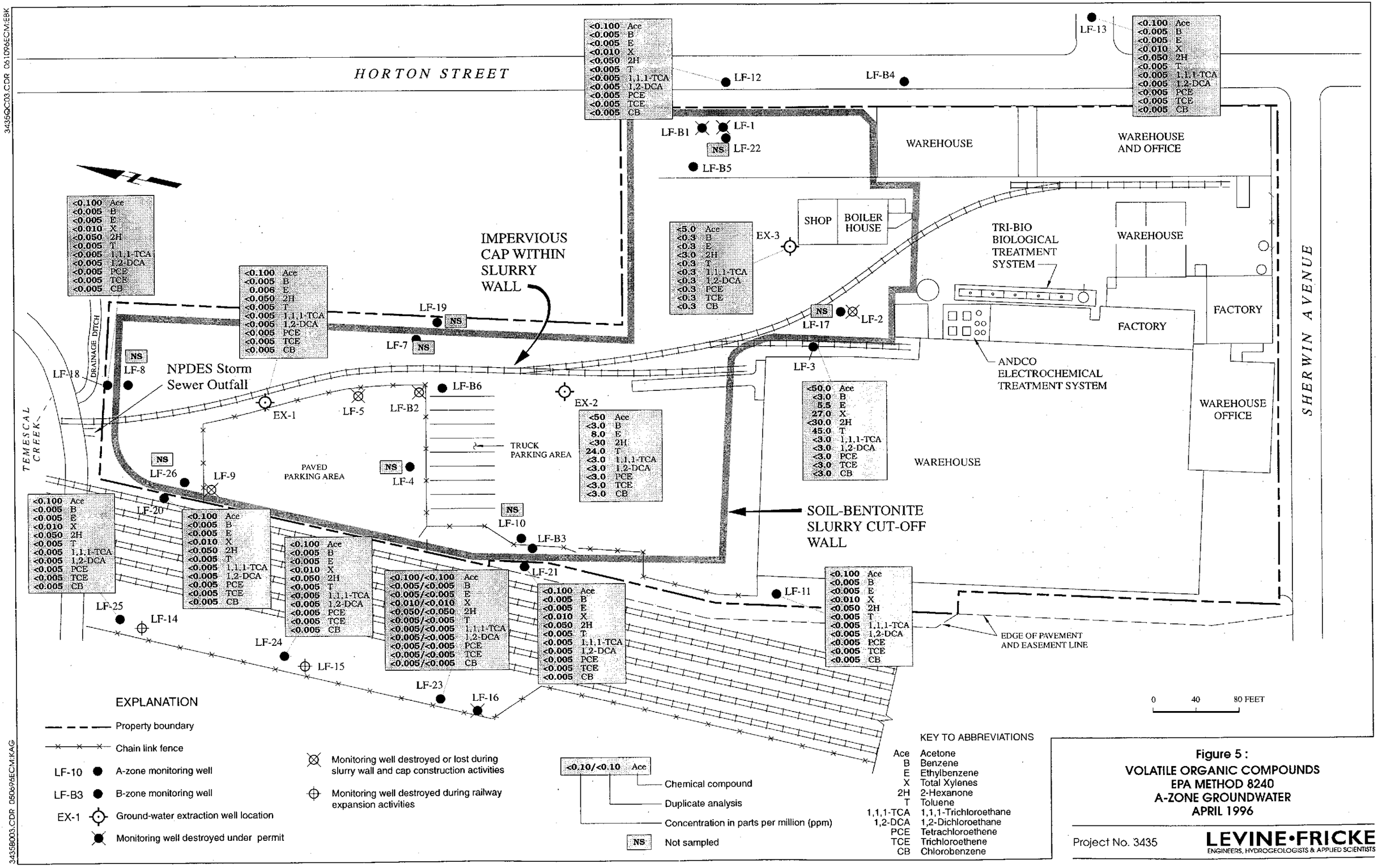
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS



EXPLANATION

- Property boundary
- Chain link fence
- LF-10 ● A-zone monitoring well
- LF-B3 ● B-zone monitoring well
- EX-1 ⊙ Ground-water extraction well location
- ⊗ Monitoring well destroyed under permit
- ⊗ Monitoring well destroyed or lost during slurry wall and cap construction activities
- ⊕ Monitoring well destroyed during railway expansion activities

<0.10/<0.10 Ace
- Chemical compound
- Duplicate analysis
- Concentration in parts per million (ppm)

NS Not sampled

KEY TO ABBREVIATIONS

Ace	Acetone
B	Benzene
E	Ethylbenzene
X	Total Xylenes
2H	2-Hexanone
T	Toluene
1,1,1-TCA	1,1,1-Trichloroethane
1,2-DCA	1,2-Dichloroethane
PCE	Tetrachloroethene
TCE	Trichloroethene
CB	Chlorobenzene

Figure 5 :
VOLATILE ORGANIC COMPOUNDS
EPA METHOD 8240
A-ZONE GROUNDWATER
APRIL 1996

Project No. 3435

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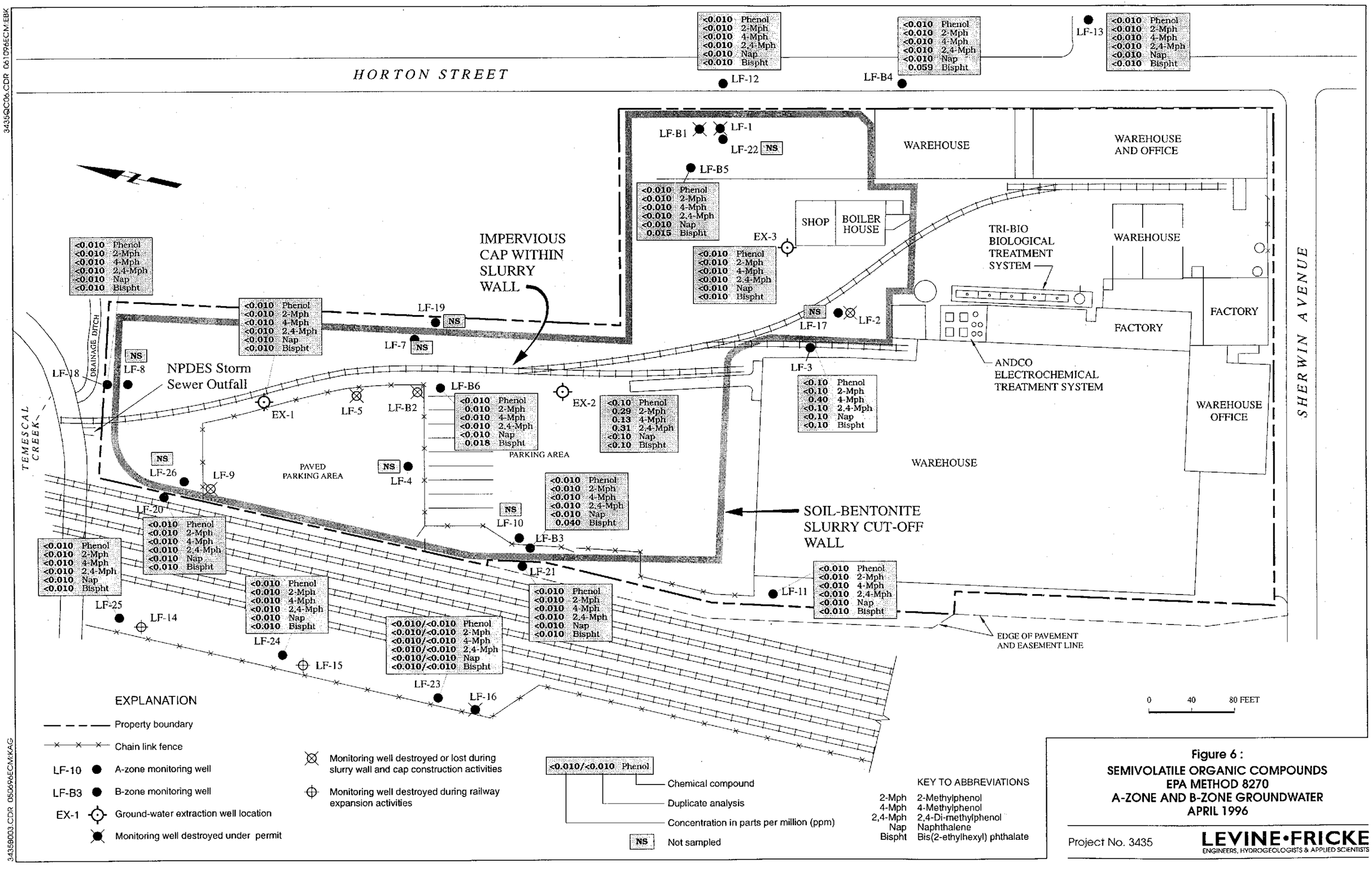
3435B003.CDR 050696ECM:KAG

3435GC03.CDR 061096ECM:EBK

3435QC06.CDR 061096ECM:EBK



LF-12		LF-B4		LF-13	
<0.010	Phenol	<0.010	Phenol	<0.010	Phenol
<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph
<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph
<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph
<0.010	Nap	<0.010	Nap	<0.010	Nap
<0.010	Bispht	0.059	Bispht	<0.010	Bispht

LF-B5		EX-3		LF-17		LF-2	
<0.010	Phenol	<0.010	Phenol	<0.010	Phenol	<0.10	Phenol
<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph	<0.10	2-Mph
<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph	0.40	4-Mph
<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph	<0.10	2,4-Mph
<0.010	Nap	<0.010	Nap	<0.010	Nap	<0.10	Nap
0.015	Bispht	<0.010	Bispht	<0.010	Bispht	<0.10	Bispht

LF-18		LF-19		LF-7		LF-3	
<0.010	Phenol	<0.010	Phenol	<0.010	Phenol	<0.10	Phenol
<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph	<0.10	2-Mph
<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph	0.40	4-Mph
<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph	<0.10	2,4-Mph
<0.010	Nap	<0.010	Nap	<0.010	Nap	<0.10	Nap
<0.010	Bispht	<0.010	Bispht	<0.010	Bispht	<0.10	Bispht

LF-B6		EX-1		LF-5		LF-B2		EX-2	
<0.010	Phenol	0.010	Phenol	0.29	Phenol	<0.10	Phenol	0.29	Phenol
0.010	2-Mph	<0.010	2-Mph	0.13	2-Mph	0.31	2-Mph	0.13	2-Mph
<0.010	4-Mph	<0.010	4-Mph	0.31	2,4-Mph	<0.10	Nap	0.31	2,4-Mph
<0.010	2,4-Mph	<0.010	2,4-Mph	<0.10	Nap	<0.10	Bispht	<0.10	Nap
<0.010	Nap	<0.010	Nap	<0.10	Bispht			<0.10	Bispht
0.018	Bispht	<0.010	Bispht						

LF-26		LF-9		LF-4		LF-10		LF-B3	
<0.010	Phenol	<0.010	Phenol	<0.010	Phenol	<0.010	Phenol	<0.010	Phenol
<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph
<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph
<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph
<0.010	Nap	<0.010	Nap	<0.010	Nap	<0.010	Nap	<0.010	Nap
<0.010	Bispht	<0.010	Bispht	<0.010	Bispht	0.040	Bispht	<0.010	Bispht

LF-20		LF-25		LF-14		LF-24		LF-15		LF-23		LF-16		LF-21		LF-11	
<0.010	Phenol	<0.010	Phenol	<0.010	Phenol	<0.010	Phenol	<0.010/<0.010	Phenol	<0.010	Phenol	<0.010	Phenol	<0.010	Phenol	<0.010	Phenol
<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph	<0.010/<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph	<0.010	2-Mph
<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph	<0.010/<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph	<0.010	4-Mph
<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010/<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph	<0.010	2,4-Mph
<0.010	Nap	<0.010	Nap	<0.010	Nap	<0.010	Nap	<0.010/<0.010	Nap	<0.010	Nap	<0.010	Nap	<0.010	Nap	<0.010	Nap
<0.010	Bispht	<0.010	Bispht	<0.010	Bispht	<0.010	Bispht	<0.010/<0.010	Bispht	<0.010	Bispht	<0.010	Bispht	<0.010	Bispht	<0.010	Bispht

EXPLANATION

- Property boundary
- Chain link fence
- LF-10 ● A-zone monitoring well
- LF-B3 ● B-zone monitoring well
- EX-1 ⊙ Ground-water extraction well location
- ⊗ Monitoring well destroyed under permit
- ⊗ Monitoring well destroyed or lost during slurry wall and cap construction activities
- ⊕ Monitoring well destroyed during railway expansion activities

<0.010/<0.010 Phenol
- Chemical compound
- Duplicate analysis
- Concentration in parts per million (ppm)

NS Not sampled

KEY TO ABBREVIATIONS

2-Mph	2-Methylphenol
4-Mph	4-Methylphenol
2,4-Mph	2,4-Di-methylphenol
Nap	Naphthalene
Bispht	Bis(2-ethylhexyl) phthalate

Figure 6 :
SEMIVOLATILE ORGANIC COMPOUNDS
EPA METHOD 8270
A-ZONE AND B-ZONE GROUNDWATER
APRIL 1996

Project No. 3435

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3435B003.CDR 050696ECM:KAG

3435QC05.CDR 061096ECM:EBK

HORTON STREET

<0.050 TPHd LF-13

<0.050 TPHd LF-12

LF-B4 <0.050 TPHd

LF-B1 LF-1

NS LF-22

LF-B5 0.10 TPHd

WAREHOUSE

WAREHOUSE AND OFFICE

SHOP

BOILER HOUSE

EX-3 0.43 TPHd

TRI-BIO BIOLOGICAL TREATMENT SYSTEM

WAREHOUSE

IMPERVIOUS CAP WITHIN SLURRY WALL

LF-19 NS

NS LF-7

NS LF-17

LF-2

FACTORY

FACTORY

LF-3 2.6 TPHd

ANDCO ELECTROCHEMICAL TREATMENT SYSTEM

0.320 TPHd LF-18

DRAINAGE DITCH

LF-8 NS

NPDES Storm Sewer Outfall

LF-B6 1.0 TPHd

EX-1 4.3 TPHd

LF-5

LF-B2

EX-2 1.3 TPHd

WAREHOUSE OFFICE

SHERWIN AVENUE

TEMESCAL CREEK

TRUCK PARKING AREA

NS LF-26

LF-9

PAVED PARKING AREA

NS LF-4

WAREHOUSE

0.960 TPHd LF-20

LF-10 2.7 TPHd

NS LF-B3

SOIL-BENTONITE SLURRY CUT-OFF WALL

LF-21 2.8 TPHd

0.930 TPHd LF-11

LF-25 0.180 TPHd

LF-14

LF-24 0.090 TPHd

LF-15

1.7/1.3 TPHd LF-23

LF-16

EDGE OF PAVEMENT AND EASEMENT LINE

0 40 80 FEET

EXPLANATION

- Property boundary
- Chain link fence
- LF-10 ● A-zone monitoring well
- LF-B3 ● B-zone monitoring well
- EX-1 ⊙ Ground-water extraction well location
- ● Monitoring well destroyed under permit
- ⊗ Monitoring well destroyed or lost during slurry wall and cap construction activities
- ⊕ Monitoring well destroyed during railway expansion activities
- <0.050/<0.050 TPHd — Total petroleum hydrocarbons as diesel
  - Duplicate analysis
  - Concentration in parts per million (ppm)
- NS — Not sampled

3435B003.CDR 050696ECM:KAG

Figure 7 :

TOTAL PETROLEUM HYDROCARBONS AS DIESEL A-ZONE AND B-ZONE GROUNDWATER APRIL 1996

Project No. 3435

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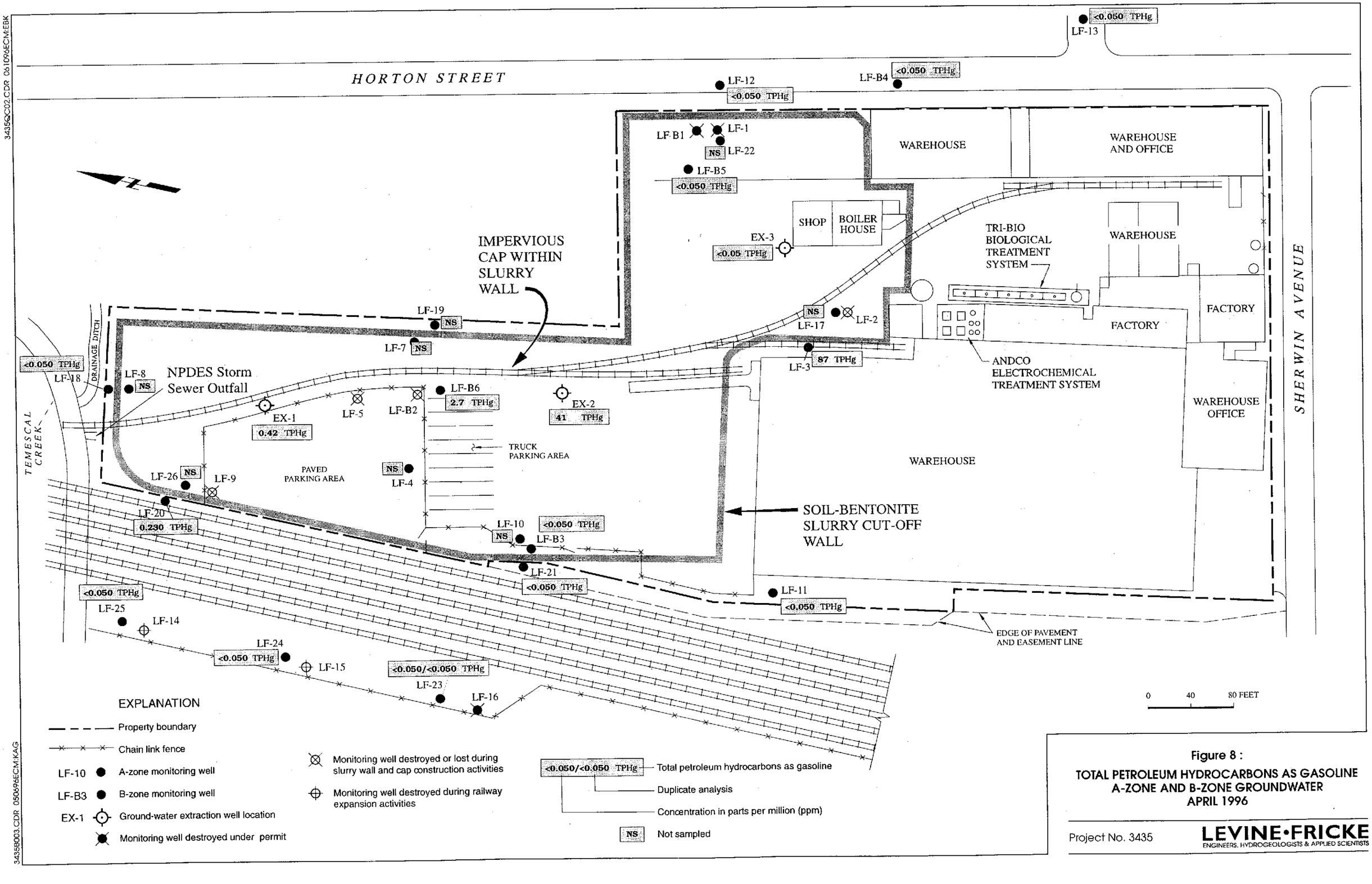
3435QC02.CDR 061096ECM:EBK



3435B003.CDR 050996ECM:KAG

Figure 8 :

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE A-ZONE AND B-ZONE GROUNDWATER APRIL 1996

Project No. 3435

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ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

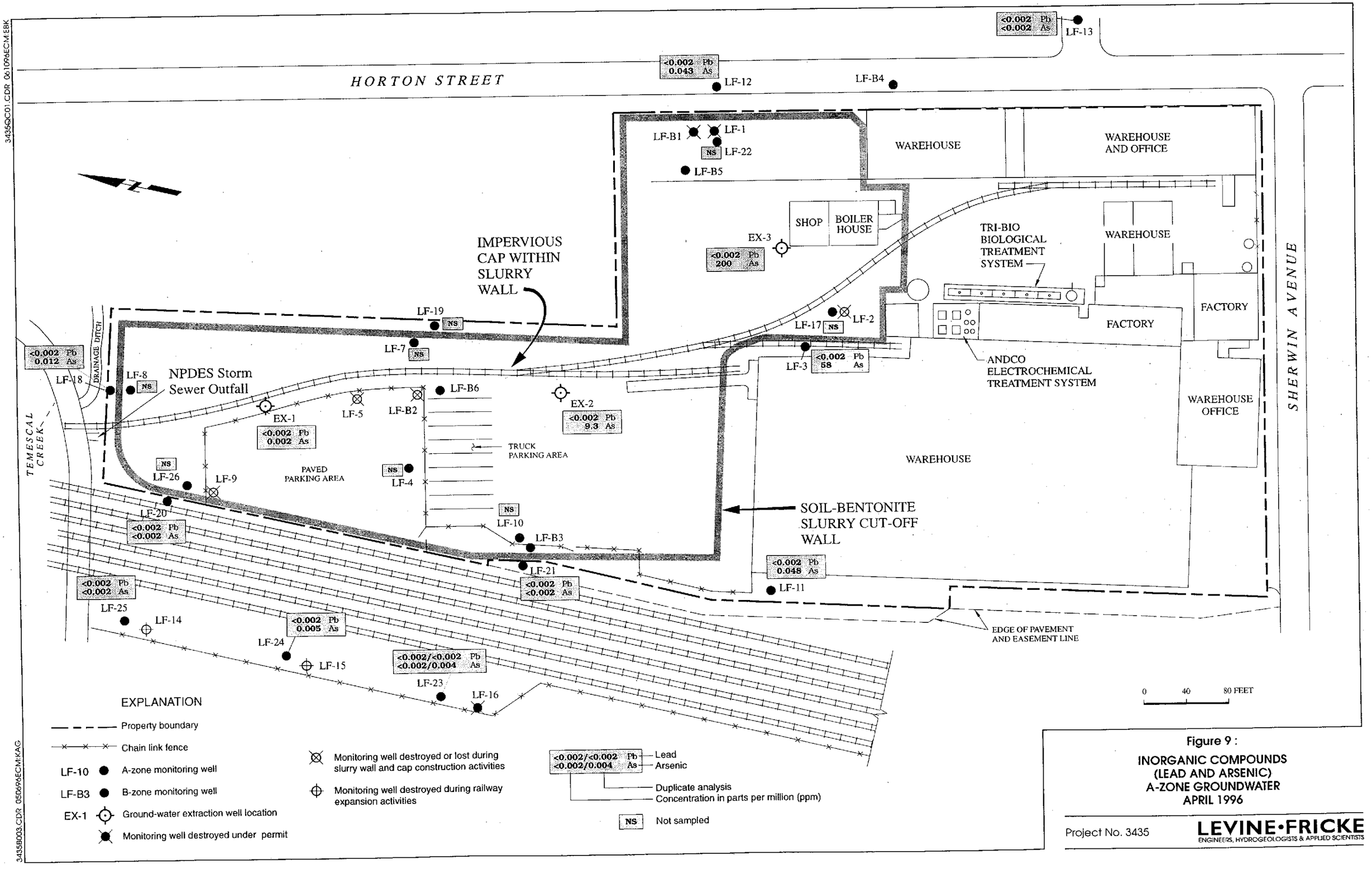


Figure 9 :

INORGANIC COMPOUNDS
(LEAD AND ARSENIC)
A-ZONE GROUNDWATER
APRIL 1996

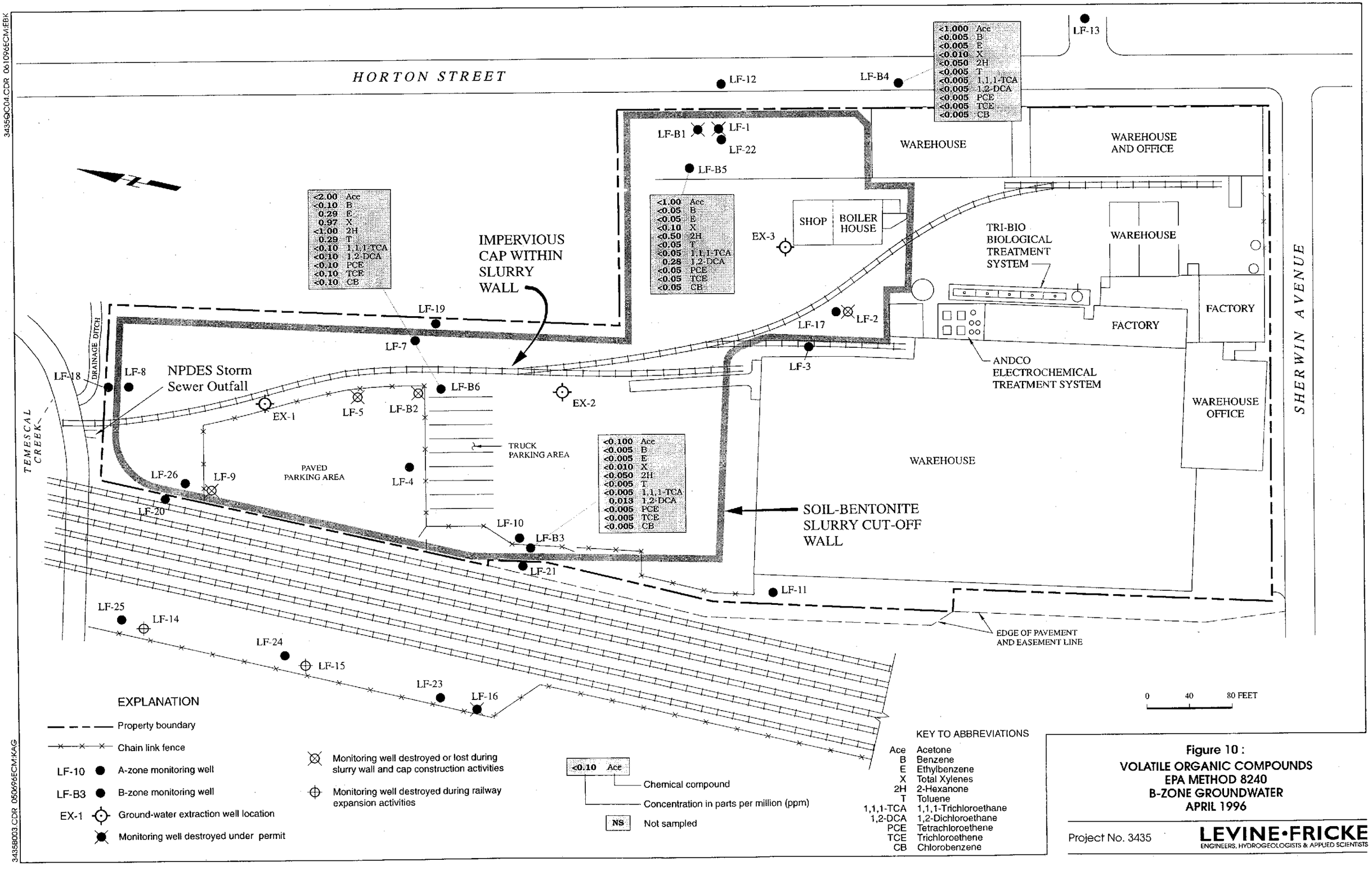
Project No. 3435

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

3435GC01.CDR 06/10/96ECM:EBK

3435B003.CDR 05/06/96ECM:KAG

3435QC04.CDR 061096ECM:EBK



<1.000	Ace
<0.005	B
<0.005	E
<0.010	X
<0.050	2H
<0.005	T
<0.005	1,1,1-TCA
<0.005	1,2-DCA
<0.005	PCE
<0.005	TCE
<0.005	CB

<2.00	Ace
<0.10	B
0.29	E
0.97	X
<1.00	2H
0.29	T
<0.10	1,1,1-TCA
<0.10	1,2-DCA
<0.10	PCE
<0.10	TCE
<0.10	CB

<1.00	Ace
<0.05	B
<0.05	E
<0.10	X
<0.50	2H
<0.05	T
<0.05	1,1,1-TCA
0.28	1,2-DCA
<0.05	PCE
<0.05	TCE
<0.05	CB

<0.100	Ace
<0.005	B
<0.005	E
<0.010	X
<0.050	2H
<0.005	T
<0.005	1,1,1-TCA
0.013	1,2-DCA
<0.005	PCE
<0.005	TCE
<0.005	CB

EXPLANATION

- Property boundary
- Chain link fence
- LF-10 ● A-zone monitoring well
- LF-B3 ● B-zone monitoring well
- EX-1 ⊙ Ground-water extraction well location
- ⊗ Monitoring well destroyed under permit
- ⊗ Monitoring well destroyed or lost during slurry wall and cap construction activities
- ⊕ Monitoring well destroyed during railway expansion activities

<0.10 Ace — Chemical compound; Concentration in parts per million (ppm)

NS — Not sampled

KEY TO ABBREVIATIONS

Ace	Acetone
B	Benzene
E	Ethylbenzene
X	Total Xylenes
2H	2-Hexanone
T	Toluene
1,1,1-TCA	1,1,1-Trichloroethane
1,2-DCA	1,2-Dichloroethane
PCE	Tetrachloroethene
TCE	Trichloroethene
CB	Chlorobenzene

3435B003.CDR 050695ECM:KAG

Figure 10 :
VOLATILE ORGANIC COMPOUNDS
EPA METHOD 8240
B-ZONE GROUNDWATER
APRIL 1996

Project No. 3435

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

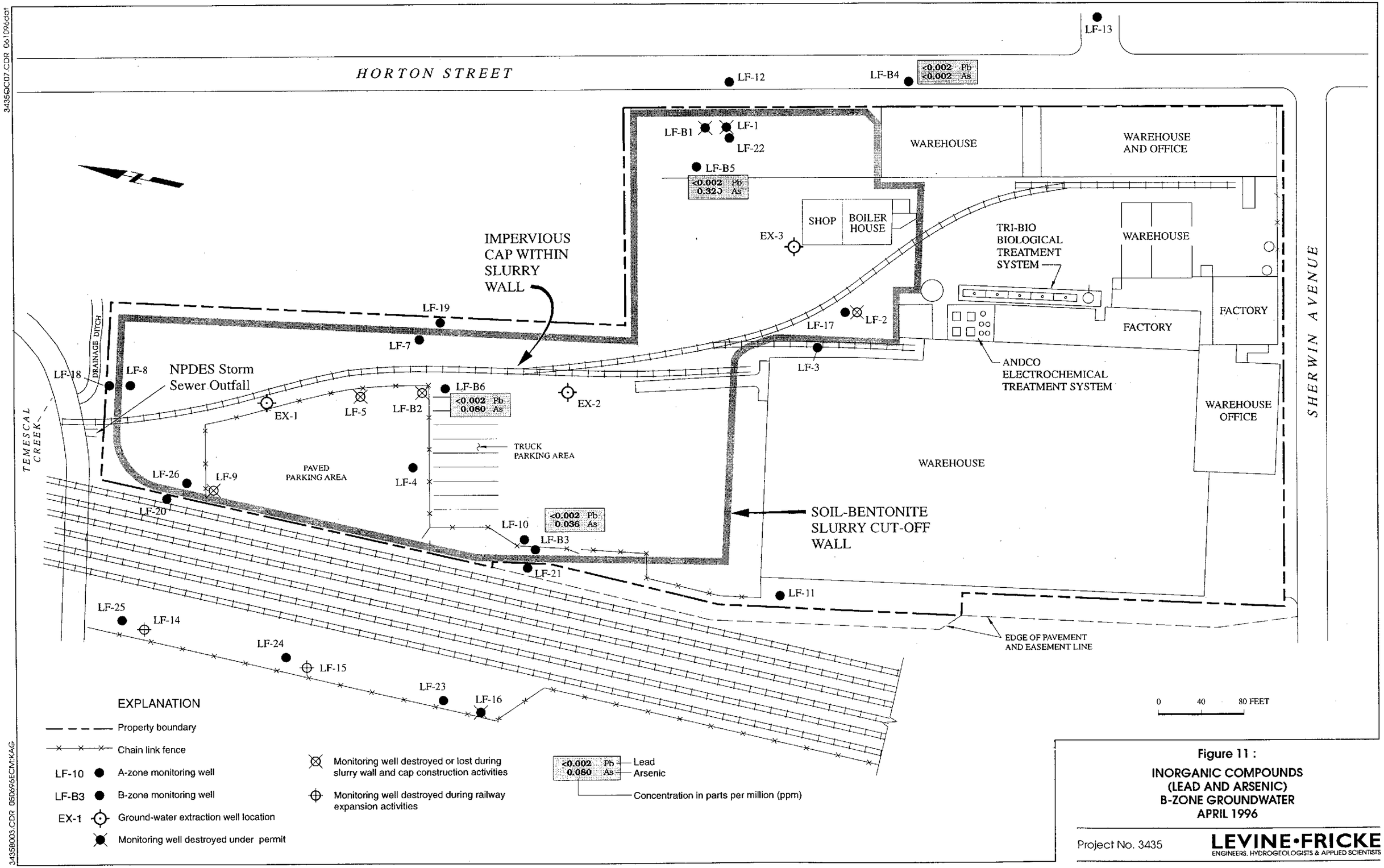


Figure 11 :

INORGANIC COMPOUNDS
(LEAD AND ARSENIC)
B-ZONE GROUNDWATER
APRIL 1996

Project No. 3435

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

3435C07.CDR 061096dat

3435B003.CDR 050696ECM:KAG

APPENDIX A

LABORATORY CERTIFICATES

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

LEVINE-FRICKE
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

ATTN: KENTON GEE
CLIENT PROJ. ID: 3435.00.02
CLIENT PROJ. NAME: SHERWIN WMS.
C.O.C. NUMBER: 14951

REPORT DATE: 04/22/96
DATE(S) SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
AEN WORK ORDER: 9604130

PROJECT SUMMARY:

On April 9, 1996, this laboratory received 5 water sample(s).

Client requested 2 sample(s) be analyzed for chemical parameters; three samples were placed on hold. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

LEVINE-FRICKE

SAMPLE ID: LF-B5
AEN LAB NO: 9604130-02A
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	1000	ug/L	04/18/96
Benzene	71-43-2	ND	50	ug/L	04/18/96
Bromodichloromethane	75-27-4	ND	50	ug/L	04/18/96
Bromoform	75-25-2	ND	50	ug/L	04/18/96
Bromomethane	74-83-9	ND	100	ug/L	04/18/96
2-Butanone	78-93-3	ND	1000	ug/L	04/18/96
Carbon Disulfide	75-15-0	ND	100	ug/L	04/18/96
Carbon Tetrachloride	56-23-5	ND	50	ug/L	04/18/96
Chlorobenzene	108-90-7	ND	50	ug/L	04/18/96
Chloroethane	75-00-3	ND	100	ug/L	04/18/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	100	ug/L	04/18/96
Chloroform	67-66-3	ND	50	ug/L	04/18/96
Chloromethane	74-87-3	ND	100	ug/L	04/18/96
Dibromochloromethane	124-48-1	ND	50	ug/L	04/18/96
1,1-Dichloroethane	75-34-3	ND	50	ug/L	04/18/96
1,2-Dichloroethane	107-06-2	280 *	50	ug/L	04/18/96
1,1-Dichloroethene	75-35-4	ND	50	ug/L	04/18/96
cis-1,2-Dichloroethene	156-59-2	ND	50	ug/L	04/18/96
trans-1,2-Dichloroethene	156-60-5	ND	50	ug/L	04/18/96
1,2-Dichloropropane	78-87-5	ND	50	ug/L	04/18/96
cis-1,3-Dichloropropene	10061-01-5	ND	50	ug/L	04/18/96
trans-1,3-Dichloropropene	10061-02-6	ND	50	ug/L	04/18/96
Ethylbenzene	100-41-4	ND	50	ug/L	04/18/96
2-Hexanone	591-78-6	ND	500	ug/L	04/18/96
Methylene Chloride	75-09-2	ND	200	ug/L	04/18/96
4-Methyl-2-pentanone	108-10-1	ND	500	ug/L	04/18/96
Styrene	100-42-5	ND	50	ug/L	04/18/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	50	ug/L	04/18/96
Tetrachloroethene	127-18-4	ND	50	ug/L	04/18/96
Toluene	108-88-3	ND	50	ug/L	04/18/96
1,1,1-Trichloroethane	71-55-6	ND	50	ug/L	04/18/96
1,1,2-Trichloroethane	79-00-5	ND	50	ug/L	04/18/96
Trichloroethene	79-01-6	ND	50	ug/L	04/18/96
Vinyl Acetate	108-05-4	ND	500	ug/L	04/18/96
Vinyl Chloride	75-01-4	ND	100	ug/L	04/18/96
Xylenes, Total	1330-20-7	ND	100	ug/L	04/18/96

LEVINE-FRICKE

SAMPLE ID: LF-B5
AEN LAB NO: 9604130-02A
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

RLs elevated for EPA 8240 due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B5
AEN LAB NO: 9604130-02D
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/10/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/12/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/12/96
Anthracene	120-12-7	ND	10	ug/L	04/12/96
Benzidine	92-87-5	ND	50	ug/L	04/12/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/12/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/12/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/12/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/12/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/12/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/12/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/12/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/12/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/12/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/12/96
Bis(2-ethylhexyl) Phthalate	117-81-7	15 *	10	ug/L	04/12/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/12/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/12/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/12/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/12/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/12/96
Chrysene	218-01-9	ND	10	ug/L	04/12/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/12/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/12/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/12/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/12/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/12/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/12/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/12/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/12/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/12/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/12/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/12/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/12/96
Fluoranthene	206-44-0	ND	10	ug/L	04/12/96
Fluorene	86-73-7	ND	10	ug/L	04/12/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/12/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/12/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/12/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/12/96

LEVINE-FRICKE

SAMPLE ID: LF-B5
AEN LAB NO: 9604130-02D
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/12/96
Isophorone	78-59-1	ND	10	ug/L	04/12/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/12/96
Naphthalene	91-20-3	ND	10	ug/L	04/12/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/12/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/12/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/12/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/12/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/12/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/12/96
Phenanthrene	85-01-8	ND	10	ug/L	04/12/96
Pyrene	129-00-0	ND	10	ug/L	04/12/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/12/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/12/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/12/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/12/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/12/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/12/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/12/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/12/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/12/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/12/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/12/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/12/96
Phenol	108-95-2	ND	10	ug/L	04/12/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/12/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/12/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B5
AEN LAB NO: 9604130-02E
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/16/96
Arsenic	EPA 7060	0.32 *	0.002	mg/L	04/17/96
Lead	EPA 7421	ND	0.002	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B5
AEN LAB NO: 9604130-02F
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/15/96
TPH as Diesel	GC-FID	0.10 *	0.05	mg/L	04/16/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B5
AEN LAB NO: 9604130-02H
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/10/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B6
AEN LAB NO: 9604130-05A
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	2000	ug/L	04/18/96
Benzene	71-43-2	ND	100	ug/L	04/18/96
Bromodichloromethane	75-27-4	ND	100	ug/L	04/18/96
Bromoform	75-25-2	ND	100	ug/L	04/18/96
Bromomethane	74-83-9	ND	200	ug/L	04/18/96
2-Butanone	78-93-3	ND	2000	ug/L	04/18/96
Carbon Disulfide	75-15-0	ND	200	ug/L	04/18/96
Carbon Tetrachloride	56-23-5	ND	100	ug/L	04/18/96
Chlorobenzene	108-90-7	ND	100	ug/L	04/18/96
Chloroethane	75-00-3	ND	200	ug/L	04/18/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	200	ug/L	04/18/96
Chloroform	67-66-3	ND	100	ug/L	04/18/96
Chloromethane	74-87-3	ND	200	ug/L	04/18/96
Dibromochloromethane	124-48-1	ND	100	ug/L	04/18/96
1,1-Dichloroethane	75-34-3	ND	100	ug/L	04/18/96
1,2-Dichloroethane	107-06-2	ND	100	ug/L	04/18/96
1,1-Dichloroethene	75-35-4	ND	100	ug/L	04/18/96
cis-1,2-Dichloroethene	156-59-2	ND	100	ug/L	04/18/96
trans-1,2-Dichloroethene	156-60-5	ND	100	ug/L	04/18/96
1,2-Dichloropropane	78-87-5	ND	100	ug/L	04/18/96
cis-1,3-Dichloropropene	10061-01-5	ND	100	ug/L	04/18/96
trans-1,3-Dichloropropene	10061-02-6	ND	100	ug/L	04/18/96
Ethylbenzene	100-41-4	290 *	100	ug/L	04/18/96
2-Hexanone	591-78-6	ND	1000	ug/L	04/18/96
Methylene Chloride	75-09-2	ND	400	ug/L	04/18/96
4-Methyl-2-pentanone	108-10-1	ND	1000	ug/L	04/18/96
Styrene	100-42-5	ND	100	ug/L	04/18/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	100	ug/L	04/18/96
Tetrachloroethene	127-18-4	ND	100	ug/L	04/18/96
Toluene	108-88-3	290 *	100	ug/L	04/18/96
1,1,1-Trichloroethane	71-55-6	ND	100	ug/L	04/18/96
1,1,2-Trichloroethane	79-00-5	ND	100	ug/L	04/18/96
Trichloroethene	79-01-6	ND	100	ug/L	04/18/96
Vinyl Acetate	108-05-4	ND	1000	ug/L	04/18/96
Vinyl Chloride	75-01-4	ND	200	ug/L	04/18/96
Xylenes, Total	1330-20-7	970 *	200	ug/L	04/18/96

LEVINE-FRICKE

SAMPLE ID: LF-B6
AEN LAB NO: 9604130-05A
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

RLs elevated for EPA 8240 due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B6
AEN LAB NO: 9604130-05D
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/10/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/13/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/13/96
Anthracene	120-12-7	ND	10	ug/L	04/13/96
Benzidine	92-87-5	ND	50	ug/L	04/13/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/13/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/13/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/13/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/13/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/13/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/13/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/13/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	18 *	10	ug/L	04/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/13/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/13/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/13/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/13/96
Chrysene	218-01-9	ND	10	ug/L	04/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/13/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/13/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/13/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/13/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/13/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/13/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/13/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/13/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/13/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/13/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/13/96
Fluoranthene	206-44-0	ND	10	ug/L	04/13/96
Fluorene	86-73-7	ND	10	ug/L	04/13/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/13/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/13/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/13/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/13/96

LEVINE-FRICKE

SAMPLE ID: LF-B6
AEN LAB NO: 9604130-05D
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/13/96
Isophorone	78-59-1	ND	10	ug/L	04/13/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/13/96
Naphthalene	91-20-3	10 *	10	ug/L	04/13/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/13/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/13/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/13/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/13/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/13/96
Phenanthrene	85-01-8	ND	10	ug/L	04/13/96
Pyrene	129-00-0	ND	10	ug/L	04/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/13/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/13/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/13/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/13/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/13/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/13/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/13/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/13/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/13/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/13/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/13/96
Phenol	108-95-2	ND	10	ug/L	04/13/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/13/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B6
AEN LAB NO: 9604130-05E
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/16/96
Arsenic	EPA 7060	0.080 *	0.002	mg/L	04/17/96
Lead	EPA 7421	ND	0.002	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B6
AEN LAB NO: 9604130-05F
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/15/96
TPH as Diesel	GC-FID	1.0 *	0.05	mg/L	04/16/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B6
AEN LAB NO: 9604130-05H
AEN WORK ORDER: 9604130
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/09/96
DATE RECEIVED: 04/09/96
REPORT DATE: 04/22/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	2.7 *	0.05	mg/L	04/10/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9604130

CLIENT PROJECT ID: 3435.00.02

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604130
AEN LAB NO: 0415-BLANK
DATE EXTRACTED: 04/15/96
DATE ANALYZED: 04/16/96
INSTRUMENT: C
MATRIX: WATER

Method Blank

Analyte	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	0.05

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604130
DATE(S) EXTRACTED: 04/15/96
INSTRUMENT: C
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
04/16/96	LF-B5	02	98
04/16/96	LF-B6	05	101
QC Limits:			59-118

DATE EXTRACTED: 04/15/96
DATE ANALYZED: 04/15/96
SAMPLE SPIKED: 9503343-21
INSTRUMENT: A

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	4.00	93	2	58-107	15

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604130
AEN LAB NO: 0410-BLANK
DATE ANALYZED: 04/10/96
INSTRUMENT: F
MATRIX: WATER

Method Blank

	CAS #	Result (ug/L)	Reporting Limit (ug/L)
HCs as Gasoline		ND mg/L	0.05 mg/L

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604130
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
04/10/96	LF-B5	02	98
04/10/96	LF-B6	05	98
QC Limits:			70-130

DATE ANALYZED: 04/09/96
SAMPLE SPIKED: 9603419-07
INSTRUMENT: F

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Hydrocarbons as Gasoline	500	113	9	66-117	19

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604130
AEN LAB NO: 0418-BLANK
DATE ANALYZED: 04/18/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604130
INSTRUMENT: 13
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 1,2-Dichloroethane-d_4	Toluene-d_8	p-Bromofluorobenzene
04/18/96	LF-B5	02	90	90	87
04/18/96	LF-B6	05	88	92	86
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 04/16/96
SAMPLE SPIKED: 9604126-02
INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
1,1-Dichloroethene	50	133	24	59-155	25
Trichloroethene	50	109	7	71-157	25
Benzene	50	104	8	37-151	25
Toluene	50	101	1	47-150	25
Chlorobenzene	50	110	3	37-160	25

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604130
AEN LAB NO: 0411-BLANK
DATE EXTRACTED: 04/11/96
DATE ANALYZED: 04/13/96
INSTRUMENT: 11
MATRIX: WATER

Semi-Volatile Organic Compounds
GC/MS Extractables

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzidine	92-87-5	ND	50
Benzoic Acid	65-85-0	ND	50
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Benzyl Alcohol	100-51-6	ND	20
Bis(2-chloroethoxy)methane	111-91-1	ND	10
Bis(2-chloroethyl)ether	111-44-4	ND	10
Bis(2-chloroisopropyl)ether	108-60-1	ND	10
Bis(2-ethylhexyl)phthalate	117-81-7	ND	10
4-Bromophenyl phenyl ether	101-55-3	ND	10
Butylbenzyl phthalate	85-68-7	ND	10
4-Chloroaniline	106-47-8	ND	20
2-Chloronaphthalene	91-58-7	ND	10
4-Chlorophenyl phenylether	7005-72-3	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Di-n-butylphthalate	84-74-2	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
3,3'-Dichlorobenzidine	91-94-1	ND	20
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
2,4-Dinitrotoluene	121-14-2	ND	10
2,6-Dinitrotoluene	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
1,2-Diphenylhydrazine	122-66-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604130
AEN LAB NO: 0411-BLANK
DATE EXTRACTED: 04/11/96
DATE ANALYZED: 04/13/96
INSTRUMENT: 11
MATRIX: WATER

GC/MS Extractables (Cont.)

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
2-Nitroaniline	88-74-4	ND	50
3-Nitroaniline	99-09-2	ND	50
4-Nitroaniline	100-01-6	ND	50
Nitrobenzene	98-95-3	ND	10
N-nitrosodimethylamine	62-75-9	ND	10
N-nitrosodiphenylamine	86-30-6	ND	10
N-nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
4,6-Dinitro-2-methylphenol	534-52-1	ND	50
2,4-Dinitrophenol	51-28-5	ND	50
2-Methylphenol	95-48-7	ND	10
4-Methylphenol	106-44-5	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	50
Pentachlorophenol	87-86-5	ND	50
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604130
DATES EXTRACTED: 04/10/96
INSTRUMENT: 11
MATRIX: WATER

Surrogate Standard Recovery Summary

			Percent Recovery					
Date Analyzed	Client Id.	Lab Id.	2-Fluoro-phenol	Phenol-d_5	Nitro-benzene-d_5	2-Fluoro-biphenyl	2,4,6-Tri-bromophenol	Terphenyl-d_{14}
04/12/96	LF-B5	02	86	93	94	82	110	85
04/13/96	LF-B6	05	87	90	101	82	121	84
QC Limits:			21-100	10-94	35-114	43-116	10-123	33-141

DATE EXTRACTED: 04/11/96
DATE ANALYZED: 04/13/96
SAMPLE SPIKED: LCS
INSTRUMENT: 11

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	QC Limits Percent Recovery
Phenol	220	69	5-112
2-Chlorophenol	209	66	23-134
1,4-Dichlorobenzene	208	57	20-124
N-Nitrosodi-n-propylamine	212	72	0-230
1,2,4-Trichlorobenzene	209	49	44-142
4-Chloro-3-methylphenol	205	64	22-147
Acenaphthene	202	66	47-145
4-Nitrophenol	216	25	0-132
2,4-Dinitrotoluene	211	72	0-112
Pentachlorophenol	210	46	14-176
Pyrene	217	88	52-115

QUALITY CONTROL DATA

AEN JOB NO: 9604130
SAMPLE SPIKED: DI WATER
DATE(S) ANALYZED: 04/17-18/96
MATRIX: WATER

Method Blank and Spike Recovery Summary

Analyte	Inst./ Method	Blank Result (mg/L)	Spike Added (mg/L)	MS Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
As, Arsenic	4000/7060	ND	0.04	96	6	69-136	13
Pb, Lead	4000/7421	ND	0.02	98	7	75-125	14

END OF REPORT

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9604130

Project No.: 3435.00.02	Field Logbook No.:	Date: 4/9/96	Serial No.: Nº 14951
Project Name: Sherwin-Williams	Project Location: Emeryville, CA.		
Sampler (Signature):			

SAMPLES						ANALYSES								Samplers: VPS
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	8240 Aromatics	8270 Organics	TPH as Diesel	TPH as Gasoline	Arsenic & Lead Only		HOLD	RUSH	REMARKS
LF-22	4/9	12:45	01A-K	11	WATER	X	X	X	X	X		✓		Normal TAT
LF-B5	"	13:10	02A-K	"	"	"	"	"	"	"				
LF-17	"	13:55	03A-K	"	"	"	"	"	"	"		✓		Results to Kenton Gee
LF-19	"	15:15	04A-K	"	"	"	"	"	"	"		✓		
LF-B6	"	16:25	05A-K	"	"	"	"	"	"	"				
														04/11/96 12:30 Per Kenton Gee, place all analysis on HOLD for samples LF-22, LF-17 and LF-19. MR
														04/15/96 1545 Per Kenton Gee, dissolved As & Pb requested. Cancel total As, Pb MR

RELINQUISHED BY: (Signature)	DATE 4/9/96	TIME 16:42	RECEIVED BY: (Signature) Robin Byas	DATE 4-9-96	TIME 1642
RELINQUISHED BY: (Signature) Robin Byas	DATE 4-9-96	TIME 1737	RECEIVED BY: (Signature) Dena M Bellver	DATE 4/9/96	TIME 1737
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500

Analytical Laboratory: AEN

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARF

CHANGE ORDER REQUEST

AMERICAN ENVIRONMENTAL NETWORK (AEN)
3440 VINCENT ROAD
PLEASANT HILL, CA 94523

PHONE (510) 930-9090 FAX (510) 930-0256

DATE/TIME 04/15/96 1545 COMPANY Levine-Fricke

AEN REP. Roxy Sigua CONTACT Kenton Gee

AEN PROJ NO. 9604130 9604149 9604166 PROJECT 3435.00.02 PROJ. # 14951 14919 COC # 14923

ADDITIONAL ANALYSIS ____ CHANGED ANALYSIS ✓ OTHER ____

Per client request dissolved As & Pb needed for samples under project 3435.00.02, COC #'s 14951, 14919, 14923. Also place the dissolved As & Pb analysis on HOLD for sample LF-18-FB.

(AEN sample id's: 9604130-02-05; 9604149-01-02-03 9604166-01-02-03-05) (9604166-04 on HOLD)

ACCEPTED - *The above specifications of this Change Order are satisfactory and are hereby accepted*

X DATE OF ACCEPTANCE _____ X SIGNATURE _____

PLEASE AUTHORIZE BY SIGNING REQUEST AND RETURN BY FAX

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

LEVINE-FRICKE
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

ATTN: KENTON GEE
CLIENT PROJ. ID: 3435.02
CLIENT PROJ. NAME: SHERWIN WMS.
C.O.C. NUMBER: 14924

REPORT DATE: 04/26/96
DATE(S) SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
AEN WORK ORDER: 9604220

PROJECT SUMMARY:

On April 16, 1996, this laboratory received 1 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

MAY - 1
LEVINE-FRICKE

LEVINE-FRICKE

SAMPLE ID: LF-3
AEN LAB NO: 9604220-01
AEN WORK ORDER: 9604220
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/26/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
TPH as Gas in water	5030/GC-FID	87 *	5	mg/L	04/18/96
#Extraction for TPH	EPA 3510	-		Extrn Date	04/19/96
TPH as Diesel	GC-FID	2.6 *	0.05	mg/L	04/20/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/22/96
Arsenic	EPA 7060	58 *	0.2	mg/L	04/24/96
Lead	EPA 7421	ND	0.002	mg/L	04/23/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	50000	ug/L	04/24/96
Benzene	71-43-2	ND	3000	ug/L	04/24/96
Bromodichloromethane	75-27-4	ND	3000	ug/L	04/24/96
Bromoform	75-25-2	ND	3000	ug/L	04/24/96
Bromomethane	74-83-9	ND	5000	ug/L	04/24/96
2-Butanone	78-93-3	ND	50000	ug/L	04/24/96
Carbon Disulfide	75-15-0	ND	5000	ug/L	04/24/96
Carbon Tetrachloride	56-23-5	ND	3000	ug/L	04/24/96
Chlorobenzene	108-90-7	ND	3000	ug/L	04/24/96
Chloroethane	75-00-3	ND	5000	ug/L	04/24/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	5000	ug/L	04/24/96
Chloroform	67-66-3	ND	3000	ug/L	04/24/96
Chloromethane	74-87-3	ND	5000	ug/L	04/24/96
Dibromochloromethane	124-48-1	ND	3000	ug/L	04/24/96
1,1-Dichloroethane	75-34-3	ND	3000	ug/L	04/24/96
1,2-Dichloroethane	107-06-2	ND	3000	ug/L	04/24/96
1,1-Dichloroethene	75-35-4	ND	3000	ug/L	04/24/96
cis-1,2-Dichloroethene	156-59-2	ND	3000	ug/L	04/24/96
trans-1,2-Dichloroethene	156-60-5	ND	3000	ug/L	04/24/96
1,2-Dichloropropane	78-87-5	ND	3000	ug/L	04/24/96
cis-1,3-Dichloropropene	10061-01-5	ND	3000	ug/L	04/24/96
trans-1,3-Dichloropropene	10061-02-6	ND	3000	ug/L	04/24/96
Ethylbenzene	100-41-4	5500 *	3000	ug/L	04/24/96
2-Hexanone	591-78-6	ND	30000	ug/L	04/24/96
Methylene Chloride	75-09-2	ND	10000	ug/L	04/24/96
4-Methyl-2-pentanone	108-10-1	ND	30000	ug/L	04/24/96
Styrene	100-42-5	ND	3000	ug/L	04/24/96

LEVINE-FRICKE

SAMPLE ID: LF-3
AEN LAB NO: 9604220-01
AEN WORK ORDER: 9604220
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/26/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
1,1,2,2-Tetrachloroethane	79-34-5	ND	3000	ug/L	04/24/96
Tetrachloroethene	127-18-4	ND	3000	ug/L	04/24/96
Toluene	108-88-3	45,000 *	3000	ug/L	04/24/96
1,1,1-Trichloroethane	71-55-6	ND	3000	ug/L	04/24/96
1,1,2-Trichloroethane	79-00-5	ND	3000	ug/L	04/24/96
Trichloroethene	79-01-6	ND	3000	ug/L	04/24/96
Vinyl Acetate	108-05-4	ND	30000	ug/L	04/24/96
Vinyl Chloride	75-01-4	ND	5000	ug/L	04/24/96
Xylenes, Total	1330-20-7	27,000 *	5000	ug/L	04/24/96
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/17/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	100	ug/L	04/22/96
Acenaphthylene	208-96-8	ND	100	ug/L	04/22/96
Anthracene	120-12-7	ND	100	ug/L	04/22/96
Benzidine	92-87-5	ND	500	ug/L	04/22/96
Benzoic Acid	65-85-0	ND	500	ug/L	04/22/96
Benzo(a)anthracene	56-55-3	ND	100	ug/L	04/22/96
Benzo(b)fluoranthene	205-99-2	ND	100	ug/L	04/22/96
Benzo(k)fluoranthene	207-08-9	ND	100	ug/L	04/22/96
Benzo(g,h,i)perylene	191-24-2	ND	100	ug/L	04/22/96
Benzo(a)pyrene	50-32-8	ND	100	ug/L	04/22/96
Benzyl Alcohol	100-51-6	ND	200	ug/L	04/22/96
Bis(2-chloroethoxy)methane	111-91-1	ND	100	ug/L	04/22/96
Bis(2-chloroethyl) Ether	111-44-4	ND	100	ug/L	04/22/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	100	ug/L	04/22/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	100	ug/L	04/22/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	100	ug/L	04/22/96
Butylbenzyl Phthalate	85-68-7	ND	100	ug/L	04/22/96
4-Chloroaniline	106-47-8	ND	200	ug/L	04/22/96
2-Chloronaphthalene	91-58-7	ND	100	ug/L	04/22/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	100	ug/L	04/22/96
Chrysene	218-01-9	ND	100	ug/L	04/22/96
Dibenzo(a,h)anthracene	53-70-3	ND	100	ug/L	04/22/96
Dibenzofuran	132-64-9	ND	100	ug/L	04/22/96
Di-n-butyl Phthalate	84-74-2	ND	100	ug/L	04/22/96
1,2-Dichlorobenzene	95-50-1	ND	100	ug/L	04/22/96
1,3-Dichlorobenzene	541-73-1	ND	100	ug/L	04/22/96
1,4-Dichlorobenzene	106-46-7	ND	100	ug/L	04/22/96
3,3'-Dichlorobenzidine	91-94-1	ND	200	ug/L	04/22/96
Diethyl Phthalate	84-66-2	ND	100	ug/L	04/22/96
Dimethyl Phthalate	131-11-3	ND	100	ug/L	04/22/96

LEVINE-FRICKE

SAMPLE ID: LF-3
AEN LAB NO: 9604220-01
AEN WORK ORDER: 9604220
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/26/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
2,4-Dinitrotoluene	121-14-2	ND	100	ug/L	04/22/96
2,6-Dinitrotoluene	606-20-2	ND	100	ug/L	04/22/96
Di-n-octyl Phthalate	117-84-0	ND	100	ug/L	04/22/96
Fluoranthene	206-44-0	ND	100	ug/L	04/22/96
Fluorene	86-73-7	ND	100	ug/L	04/22/96
Hexachlorobenzene	118-74-1	ND	100	ug/L	04/22/96
Hexachlorobutadiene	87-68-3	ND	100	ug/L	04/22/96
Hexachlorocyclopentadiene	77-47-4	ND	100	ug/L	04/22/96
Hexachloroethane	67-72-1	ND	100	ug/L	04/22/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	100	ug/L	04/22/96
Isophorone	78-59-1	ND	100	ug/L	04/22/96
2-Methylnaphthalene	91-57-6	ND	100	ug/L	04/22/96
Naphthalene	91-20-3	ND	100	ug/L	04/22/96
2-Nitroaniline	88-74-4	ND	500	ug/L	04/22/96
3-Nitroaniline	99-09-2	ND	500	ug/L	04/22/96
4-Nitroaniline	100-01-6	ND	500	ug/L	04/22/96
Nitrobenzene	98-95-3	ND	100	ug/L	04/22/96
N-Nitrosodiphenylamine	86-30-6	ND	100	ug/L	04/22/96
N-Nitrosodi-n-propylamine	621-64-7	ND	100	ug/L	04/22/96
Phenanthrene	85-01-8	ND	100	ug/L	04/22/96
Pyrene	129-00-0	ND	100	ug/L	04/22/96
1,2,4-Trichlorobenzene	120-82-1	ND	100	ug/L	04/22/96
4-Chloro-3-methylphenol	59-50-7	ND	100	ug/L	04/22/96
2-Chlorophenol	95-57-8	ND	100	ug/L	04/22/96
2,4-Dichlorophenol	120-83-2	ND	100	ug/L	04/22/96
2,4-Dimethylphenol	105-67-9	ND	100	ug/L	04/22/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	500	ug/L	04/22/96
2,4-Dinitrophenol	51-28-5	ND	500	ug/L	04/22/96
2-Methylphenol	95-48-7	ND	100	ug/L	04/22/96
4-Methylphenol	106-44-5	400 *	100	ug/L	04/22/96
2-Nitrophenol	88-75-5	ND	100	ug/L	04/22/96
4-Nitrophenol	100-02-7	ND	500	ug/L	04/22/96
Pentachlorophenol	87-86-5	ND	500	ug/L	04/22/96
Phenol	108-95-2	ND	100	ug/L	04/22/96
2,4,5-Trichlorophenol	95-95-4	ND	100	ug/L	04/22/96
2,4,6-Trichlorophenol	88-06-2	ND	100	ug/L	04/22/96

RLs elevated for EPA 8240, EPA 8270 and gasoline due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9604220

CLIENT PROJECT ID: 3435.02

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604220
AEN LAB NO: 0419-BLANK
DATE EXTRACTED: 04/19/96
DATE ANALYZED: 04/20/96
INSTRUMENT: A
MATRIX: WATER

Method Blank

Analyte	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	0.05

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604220
DATE(S) EXTRACTED: 04/19/96
INSTRUMENT: A
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
04/20/96	LF-3	01	104
QC Limits:			59-118

DATE EXTRACTED: 04/18/96
DATE ANALYZED: 04/18/96
SAMPLE SPIKED: 9503343-14
INSTRUMENT: A

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	4.00	94	3	58-107	15

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604220
AEN LAB NO: 0418-BLANK
DATE ANALYZED: 04/18/96
INSTRUMENT: F
MATRIX: WATER

Method Blank

	CAS #	Result (ug/L)	Reporting Limit (ug/L)
HCs as Gasoline		ND mg/L	0.05 mg/L

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604220
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
04/18/96	LF-3	01	99
QC Limits:			70-130

DATE ANALYZED: 04/16/96
SAMPLE SPIKED: 9604206-01
INSTRUMENT: F

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Hydrocarbons as Gasoline	500	116	3	66-117	19

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604220
AEN LAB NO: 0424-BLANK
DATE ANALYZED: 04/24/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604220
INSTRUMENT: 13
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 1,2-Dichloroethane-d_4	Toluene-d_8	p-Bromofluorobenzene
04/24/96	LF-3	01	104	93	93
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 04/17/96
SAMPLE SPIKED: 9604148-01
INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
1,1-Dichloroethene	50	114	1	59-155	25
Trichloroethene	50	105	3	71-157	25
Benzene	50	100	2	37-151	25
Toluene	50	92	2	47-150	25
Chlorobenzene	50	107	1	37-160	25

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604220
AEN LAB NO: 0417-BLANK
DATE EXTRACTED: 04/17/96
DATE ANALYZED: 04/22/96
INSTRUMENT: 11
MATRIX: WATER

Semi-Volatile Organic Compounds
GC/MS Extractables

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzidine	92-87-5	ND	50
Benzoic Acid	65-85-0	ND	50
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Benzyl Alcohol	100-51-6	ND	20
Bis(2-chloroethoxy)methane	111-91-1	ND	10
Bis(2-chloroethyl)ether	111-44-4	ND	10
Bis(2-chloroisopropyl)ether	108-60-1	ND	10
Bis(2-ethylhexyl)phthalate	117-81-7	ND	10
4-Bromophenyl phenyl ether	101-55-3	ND	10
Butylbenzyl phthalate	85-68-7	ND	10
4-Chloroaniline	106-47-8	ND	20
2-Chloronaphthalene	91-58-7	ND	10
4-Chlorophenyl phenylether	7005-72-3	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Di-n-butylphthalate	84-74-2	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
3,3'-Dichlorobenzidine	91-94-1	ND	20
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
2,4-Dinitrotoluene	121-14-2	ND	10
2,6-Dinitrotoluene	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
1,2-Diphenylhydrazine	122-66-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604220
AEN LAB NO: 0417-BLANK
DATE EXTRACTED: 04/17/96
DATE ANALYZED: 04/22/96
INSTRUMENT: 11
MATRIX: WATER

GC/MS Extractables (Cont.)

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
2-Nitroaniline	88-74-4	ND	50
3-Nitroaniline	99-09-2	ND	50
4-Nitroaniline	100-01-6	ND	50
Nitrobenzene	98-95-3	ND	10
N-nitrosodimethylamine	62-75-9	ND	10
N-nitrosodiphenylamine	86-30-6	ND	10
N-nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
4,6-Dinitro-2-methylphenol	534-52-1	ND	50
2,4-Dinitrophenol	51-28-5	ND	50
2-Methylphenol	95-48-7	ND	10
4-Methylphenol	106-44-5	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	50
Pentachlorophenol	87-86-5	ND	50
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604220
DATES EXTRACTED: 04/17/96
INSTRUMENT: 11
MATRIX: WATER

Surrogate Standard Recovery Summary

			Percent Recovery					
Date Analyzed	Client Id.	Lab Id.	2-Fluoro-phenol	Phenol-d_5	Nitro-benzene-d_5	2-Fluoro-biphenyl	2,4,6-Tri-bromophenol	Terphenyl-d_{14}
04/22/96	LF-3	01	D	D	D	D	D	D
QC Limits:			21-100	10-94	35-114	43-116	10-123	33-141

D: Surrogates diluted out.

DATE EXTRACTED: 04/17/96
DATE ANALYZED: 04/19/96
SAMPLE SPIKED: LCS
INSTRUMENT: 11

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	QC Limits Percent Recovery
Phenol	220	84	5-112
2-Chlorophenol	209	83	23-134
1,4-Dichlorobenzene	208	72	20-124
N-Nitrosodi-n-propylamine	212	99	0-230
1,2,4-Trichlorobenzene	209	71	44-142
4-Chloro-3-methylphenol	205	87	22-147
Acenaphthene	202	88	47-145
4-Nitrophenol	216	83	0-132
2,4-Dinitrotoluene	211	84	0-112
Pentachlorophenol	210	60	14-176
Pyrene	217	78	52-115

QUALITY CONTROL DATA

AEN JOB NO: 9604220
SAMPLE SPIKED: DI WATER
DATE(S) ANALYZED: 04/23-24/96
MATRIX: WATER

Method Blank and Spike Recovery Summary

Analyte	Inst./ Method	Blank Result (mg/L)	Spike Added (mg/L)	MS Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
As, Arsenic	4000/7060	ND	0.04	91	10	69-136	13
Pb, Lead	4000/7421	ND	0.02	93	2	75-125	14

END OF REPORT

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9604220

Project No.: 3435.02	Field Logbook No.:	Date: 4-16-96	Serial No.: No 14924
Project Name: Sherwin Williams	Project Location: Emeryville, CA		
Sampler (Signature): [signature]			Samplers: JMB EBK

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 6240	EPA 8270	TPH-g	TPH-d	Dissolved As & Pb		HOLD	RUSH	REMARKS
LF-12	4-16-96	10:00	9604219	10	H2O	X	X	X	X	X				STD TAT
LF-B4		10:50		10										
LF-13		11:30		11										Filter As & Pb in lab
LF-11		12:05		11										
LF-B3		13:30		11										
LF-3		14:15	DIA-K	11										Results to Kenton Gee
														See 9604219

RELINQUISHED BY: (Signature) [signature]	DATE 4-16-96	TIME 1620	RECEIVED BY: (Signature) [signature]	DATE 4-16-96	TIME 1620
RELINQUISHED BY: (Signature) [signature]	DATE 4-16-96	TIME 1710	RECEIVED BY: (Signature) [signature]	DATE 4/16/96	TIME 1710
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500

Analytical Laboratory: AEN

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARF

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

LEVINE-FRICKE
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

REPORT DATE: 04/29/96

DATE(S) SAMPLED: 04/11/96

DATE RECEIVED: 04/11/96

AEN WORK ORDER: 9604166

AT [redacted] CLIENT GEE
CLIENT PROJ. ID: 3485.00.02
CLIENT PROJ. NAME: SHERWIN WMS.
C.O.C. NUMBER: 14923

PROJECT SUMMARY:

On April 11, 1996, this laboratory received 5 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

MAY - 1

LEVINE-FRICKE

SAMPLE ID: LF-25
AEN LAB NO: 9604166-01A
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/16/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-25
AEN LAB NO: 9604166-01D
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/16/96
TPH as Diesel	GC-FID	0.18 *	0.05	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-25
AEN LAB NO: 9604166-01F
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/L	04/22/96
Benzene	71-43-2	ND	5	ug/L	04/22/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/22/96
Bromoform	75-25-2	ND	5	ug/L	04/22/96
Bromomethane	74-83-9	ND	10	ug/L	04/22/96
2-Butanone	78-93-3	ND	100	ug/L	04/22/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/22/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/22/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/22/96
Chloroethane	75-00-3	ND	10	ug/L	04/22/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/22/96
Chloroform	67-66-3	ND	5	ug/L	04/22/96
Chloromethane	74-87-3	ND	10	ug/L	04/22/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/22/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/22/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/22/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/22/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/22/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/22/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/22/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/22/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/22/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/22/96
2-Hexanone	591-78-6	ND	50	ug/L	04/22/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/22/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/22/96
Styrene	100-42-5	ND	5	ug/L	04/22/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/22/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/22/96
Toluene	108-88-3	ND	5	ug/L	04/22/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/22/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/22/96
Trichloroethene	79-01-6	ND	5	ug/L	04/22/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/22/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/22/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/22/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-25
AEN LAB NO: 9604166-01I
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/15/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/18/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/18/96
Anthracene	120-12-7	ND	10	ug/L	04/18/96
Benzidine	92-87-5	ND	50	ug/L	04/18/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/18/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/18/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/18/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/18/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/18/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/18/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/18/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/18/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/18/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/18/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/18/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/18/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/18/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/18/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/18/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/18/96
Chrysene	218-01-9	ND	10	ug/L	04/18/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/18/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/18/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/18/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/18/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/18/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/18/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/18/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/18/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/18/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/18/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/18/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/18/96
Fluoranthene	206-44-0	ND	10	ug/L	04/18/96
Fluorene	86-73-7	ND	10	ug/L	04/18/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/18/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/18/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/18/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/18/96

LEVINE-FRICKE

SAMPLE ID: LF-25
AEN LAB NO: 9604166-01I
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/18/96
Isophorone	78-59-1	ND	10	ug/L	04/18/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/18/96
Naphthalene	91-20-3	ND	10	ug/L	04/18/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/18/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/18/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/18/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/18/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/18/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/18/96
Phenanthrene	85-01-8	ND	10	ug/L	04/18/96
Pyrene	129-00-0	ND	10	ug/L	04/18/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/18/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/18/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/18/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/18/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/18/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/18/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/18/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/18/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/18/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/18/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/18/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/18/96
Phenol	108-95-2	ND	10	ug/L	04/18/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/18/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-25
AEN LAB NO: 9604166-01J
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/16/96
Arsenic	EPA 7060	ND	0.002	mg/L	04/17/96
Lead	EPA 7421	ND	0.002	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-24
AEN LAB NO: 9604166-02A
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/16/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-24
AEN LAB NO: 9604166-02D
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/16/96
TPH as Diesel	GC-FID	0.09 *	0.05	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-24
AEN LAB NO: 9604166-02F
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/L	04/22/96
Benzene	71-43-2	ND	5	ug/L	04/22/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/22/96
Bromoform	75-25-2	ND	5	ug/L	04/22/96
Bromomethane	74-83-9	ND	10	ug/L	04/22/96
2-Butanone	78-93-3	ND	100	ug/L	04/22/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/22/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/22/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/22/96
Chloroethane	75-00-3	ND	10	ug/L	04/22/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/22/96
Chloroform	67-66-3	ND	5	ug/L	04/22/96
Chloromethane	74-87-3	ND	10	ug/L	04/22/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/22/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/22/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/22/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/22/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/22/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/22/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/22/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/22/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/22/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/22/96
2-Hexanone	591-78-6	ND	50	ug/L	04/22/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/22/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/22/96
Styrene	100-42-5	ND	5	ug/L	04/22/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/22/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/22/96
Toluene	108-88-3	ND	5	ug/L	04/22/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/22/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/22/96
Trichloroethene	79-01-6	ND	5	ug/L	04/22/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/22/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/22/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/22/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-24
AEN LAB NO: 9604166-02I
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/15/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/19/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/19/96
Anthracene	120-12-7	ND	10	ug/L	04/19/96
Benzidine	92-87-5	ND	50	ug/L	04/19/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/19/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/19/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/19/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/19/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/19/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/19/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/19/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/19/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/19/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/19/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/19/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/19/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/19/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/19/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/19/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/19/96
Chrysene	218-01-9	ND	10	ug/L	04/19/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/19/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/19/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/19/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/19/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/19/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/19/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/19/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/19/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/19/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/19/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/19/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/19/96
Fluoranthene	206-44-0	ND	10	ug/L	04/19/96
Fluorene	86-73-7	ND	10	ug/L	04/19/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/19/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/19/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/19/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/19/96

LEVINE-FRICKE

SAMPLE ID: LF-24
AEN LAB NO: 9604166-02I
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/19/96
Isophorone	78-59-1	ND	10	ug/L	04/19/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/19/96
Naphthalene	91-20-3	ND	10	ug/L	04/19/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/19/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/19/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/19/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/19/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/19/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/19/96
Phenanthrene	85-01-8	ND	10	ug/L	04/19/96
Pyrene	129-00-0	ND	10	ug/L	04/19/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/19/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/19/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/19/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/19/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/19/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/19/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/19/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/19/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/19/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/19/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/19/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/19/96
Phenol	108-95-2	ND	10	ug/L	04/19/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/19/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/19/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-24
AEN LAB NO: 9604166-02J
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/16/96
Arsenic	EPA 7060	0.005 *	0.002	mg/L	04/17/96
Lead	EPA 7421	ND	0.002	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-20
AEN LAB NO: 9604166-03A
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	0.23 *	0.05	mg/L	04/16/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-20
AEN LAB NO: 9604166-03D
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/16/96
TPH as Diesel	GC-FID	0.96 *	0.05	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-20
AEN LAB NO: 9604166-03F
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/L	04/22/96
Benzene	71-43-2	ND	5	ug/L	04/22/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/22/96
Bromoform	75-25-2	ND	5	ug/L	04/22/96
Bromomethane	74-83-9	ND	10	ug/L	04/22/96
2-Butanone	78-93-3	ND	100	ug/L	04/22/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/22/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/22/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/22/96
Chloroethane	75-00-3	ND	10	ug/L	04/22/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/22/96
Chloroform	67-66-3	ND	5	ug/L	04/22/96
Chloromethane	74-87-3	ND	10	ug/L	04/22/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/22/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/22/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/22/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/22/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/22/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/22/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/22/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/22/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/22/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/22/96
2-Hexanone	591-78-6	ND	50	ug/L	04/22/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/22/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/22/96
Styrene	100-42-5	ND	5	ug/L	04/22/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/22/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/22/96
Toluene	108-88-3	ND	5	ug/L	04/22/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/22/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/22/96
Trichloroethene	79-01-6	ND	5	ug/L	04/22/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/22/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/22/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/22/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-20
AEN LAB NO: 9604166-03I
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/15/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/19/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/19/96
Anthracene	120-12-7	ND	10	ug/L	04/19/96
Benzidine	92-87-5	ND	50	ug/L	04/19/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/19/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/19/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/19/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/19/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/19/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/19/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/19/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/19/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/19/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/19/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/19/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/19/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/19/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/19/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/19/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/19/96
Chrysene	218-01-9	ND	10	ug/L	04/19/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/19/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/19/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/19/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/19/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/19/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/19/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/19/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/19/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/19/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/19/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/19/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/19/96
Fluoranthene	206-44-0	ND	10	ug/L	04/19/96
Fluorene	86-73-7	ND	10	ug/L	04/19/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/19/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/19/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/19/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/19/96

LEVINE-FRICKE

SAMPLE ID: LF-20
AEN LAB NO: 9604166-03I
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/19/96
Isophorone	78-59-1	ND	10	ug/L	04/19/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/19/96
Naphthalene	91-20-3	ND	10	ug/L	04/19/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/19/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/19/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/19/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/19/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/19/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/19/96
Phenanthrene	85-01-8	ND	10	ug/L	04/19/96
Pyrene	129-00-0	ND	10	ug/L	04/19/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/19/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/19/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/19/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/19/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/19/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/19/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/19/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/19/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/19/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/19/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/19/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/19/96
Phenol	108-95-2	ND	10	ug/L	04/19/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/19/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/19/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-20
AEN LAB NO: 9604166-03J
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/16/96
Arsenic	EPA 7060	ND	0.002	mg/L	04/17/96
Lead	EPA 7421	ND	0.002	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-18-FB
AEN LAB NO: 9604166-04A
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/16/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-18-FB
AEN LAB NO: 9604166-04D
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/L	04/22/96
Benzene	71-43-2	ND	5	ug/L	04/22/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/22/96
Bromoform	75-25-2	ND	5	ug/L	04/22/96
Bromomethane	74-83-9	ND	10	ug/L	04/22/96
2-Butanone	78-93-3	ND	100	ug/L	04/22/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/22/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/22/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/22/96
Chloroethane	75-00-3	ND	10	ug/L	04/22/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/22/96
Chloroform	67-66-3	ND	5	ug/L	04/22/96
Chloromethane	74-87-3	ND	10	ug/L	04/22/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/22/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/22/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/22/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/22/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/22/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/22/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/22/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/22/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/22/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/22/96
2-Hexanone	591-78-6	ND	50	ug/L	04/22/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/22/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/22/96
Styrene	100-42-5	ND	5	ug/L	04/22/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/22/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/22/96
Toluene	108-88-3	ND	5	ug/L	04/22/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/22/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/22/96
Trichloroethene	79-01-6	ND	5	ug/L	04/22/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/22/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/22/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/22/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-18
AEN LAB NO: 9604166-05A
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/16/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-18
AEN LAB NO: 9604166-05D
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/16/96
TPH as Diesel	GC-FID	0.32 *	0.05	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-18
AEN LAB NO: 9604166-05F
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/L	04/23/96
Benzene	71-43-2	ND	5	ug/L	04/23/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/23/96
Bromoform	75-25-2	ND	5	ug/L	04/23/96
Bromomethane	74-83-9	ND	10	ug/L	04/23/96
2-Butanone	78-93-3	ND	100	ug/L	04/23/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/23/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/23/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/23/96
Chloroethane	75-00-3	ND	10	ug/L	04/23/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/23/96
Chloroform	67-66-3	ND	5	ug/L	04/23/96
Chloromethane	74-87-3	ND	10	ug/L	04/23/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/23/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/23/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/23/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/23/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/23/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/23/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/23/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/23/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/23/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/23/96
2-Hexanone	591-78-6	ND	50	ug/L	04/23/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/23/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/23/96
Styrene	100-42-5	ND	5	ug/L	04/23/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/23/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/23/96
Toluene	108-88-3	ND	5	ug/L	04/23/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/23/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/23/96
Trichloroethene	79-01-6	ND	5	ug/L	04/23/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/23/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/23/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/23/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-18
AEN LAB NO: 9604166-05I
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/15/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/19/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/19/96
Anthracene	120-12-7	ND	10	ug/L	04/19/96
Benzidine	92-87-5	ND	50	ug/L	04/19/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/19/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/19/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/19/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/19/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/19/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/19/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/19/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/19/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/19/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/19/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/19/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/19/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/19/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/19/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/19/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/19/96
Chrysene	218-01-9	ND	10	ug/L	04/19/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/19/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/19/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/19/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/19/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/19/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/19/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/19/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/19/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/19/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/19/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/19/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/19/96
Fluoranthene	206-44-0	ND	10	ug/L	04/19/96
Fluorene	86-73-7	ND	10	ug/L	04/19/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/19/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/19/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/19/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/19/96

LEVINE-FRICKE

SAMPLE ID: LF-18
AEN LAB NO: 9604166-05I
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/19/96
Isophorone	78-59-1	ND	10	ug/L	04/19/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/19/96
Naphthalene	91-20-3	ND	10	ug/L	04/19/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/19/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/19/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/19/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/19/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/19/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/19/96
Phenanthrene	85-01-8	ND	10	ug/L	04/19/96
Pyrene	129-00-0	ND	10	ug/L	04/19/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/19/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/19/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/19/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/19/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/19/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/19/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/19/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/19/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/19/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/19/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/19/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/19/96
Phenol	108-95-2	ND	10	ug/L	04/19/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/19/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/19/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-18
AEN LAB NO: 9604166-05J
AEN WORK ORDER: 9604166
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/11/96
DATE RECEIVED: 04/11/96
REPORT DATE: 04/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/16/96
Arsenic	EPA 7060	0.012 *	0.002	mg/L	04/17/96
Lead	EPA 7421	ND	0.002	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9604166

CLIENT PROJECT ID: 3435.00.02

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604166
AEN LAB NO: 0416-BLANK
DATE EXTRACTED: 04/16/96
DATE ANALYZED: 04/18/96
INSTRUMENT: A
MATRIX: WATER

Method Blank

Analyte	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	0.05

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604166
DATE(S) EXTRACTED: 04/16/96
INSTRUMENT: A
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
04/18/96	LF-25	01	103
04/18/96	LF-24	02	102
04/18/96	LF-20	03	91
04/18/96	LF-18	05	93
QC Limits:			59-118

DATE EXTRACTED: 04/15/96
DATE ANALYZED: 04/15/96
SAMPLE SPIKED: 9603343-21
INSTRUMENT: A

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	4.00	93	2	58-107	15

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604166
AEN LAB NO: 0416-BLANK
DATE ANALYZED: 04/16/96
INSTRUMENT: F
MATRIX: WATER

Method Blank

	CAS #	Result (ug/L)	Reporting Limit (ug/L)
HCs as Gasoline		ND mg/L	0.05 mg/L

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604166
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
04/16/96	LF-25	01	96
04/16/96	LF-24	02	94
04/16/96	LF-20	03	94
04/16/96	LF-18-FB	04	97
04/16/96	LF-18	05	97
QC Limits:			70-130

DATE ANALYZED: 04/16/96
SAMPLE SPIKED: 9604206-01
INSTRUMENT: F

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Hydrocarbons as Gasoline	500	116	3	66-117	19

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604166
AEN LAB NO: 0422-BLANK
DATE ANALYZED: 04/22/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604166
AEN LAB NO: 0423-BLANK
DATE ANALYZED: 04/23/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604166
INSTRUMENT: 13
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 1,2-Dichloroethane-d_4	Toluene-d_8	p-Bromofluorobenzene
04/22/96	LF-25	01	94	94	100
04/22/96	LF-24	02	91	100	102
04/22/96	LF-20	03	95	106	113
04/22/96	LF-18-FB	04	98	96	98
04/23/96	LF-18	05	98	98	98
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 04/17/96
SAMPLE SPIKED: 9604148-01
INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
1,1-Dichloroethene	50	114	2	59-155	25
Trichloroethene	50	105	3	71-157	25
Benzene	50	100	2	37-151	25
Toluene	50	92	2	47-150	25
Chlorobenzene	50	107	1	37-160	25

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604166
AEN LAB NO: 0415-BLANK
DATE EXTRACTED: 04/15/96
DATE ANALYZED: 04/18/96
INSTRUMENT: 11
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzidine	92-87-5	ND	50
Benzoic Acid	65-85-0	ND	50
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Benzyl Alcohol	100-51-6	ND	20
Bis(2-chloroethoxy)methane	111-91-1	ND	10
Bis(2-chloroethyl)ether	111-44-4	ND	10
Bis(2-chloroisopropyl)ether	108-60-1	ND	10
Bis(2-ethylhexyl)phthalate	117-81-7	ND	10
4-Bromophenyl phenyl ether	101-55-3	ND	10
Butylbenzyl phthalate	85-68-7	ND	10
4-Chloroaniline	106-47-8	ND	20
2-Chloronaphthalene	91-58-7	ND	10
4-Chlorophenyl phenylether	7005-72-3	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Di-n-butylphthalate	84-74-2	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
3,3'-Dichlorobenzidine	91-94-1	ND	20
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
2,4-Dinitrotoluene	121-14-2	ND	10
2,6-Dinitrotoluene	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
1,2-Diphenylhydrazine	122-66-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604166
AEN LAB NO: 0415-BLANK
DATE EXTRACTED: 04/15/96
DATE ANALYZED: 04/18/96
INSTRUMENT: 11
MATRIX: WATER

Method Blank (Cont.)

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
2-Nitroaniline	88-74-4	ND	50
3-Nitroaniline	99-09-2	ND	50
4-Nitroaniline	100-01-6	ND	50
Nitrobenzene	98-95-3	ND	10
N-nitrosodimethylamine	62-75-9	ND	10
N-nitrosodiphenylamine	86-30-6	ND	10
N-nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
4,6-Dinitro-2-methylphenol	534-52-1	ND	50
2,4-Dinitrophenol	51-28-5	ND	50
2-Methylphenol	95-48-7	ND	10
4-Methylphenol	106-44-5	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	50
Pentachlorophenol	87-86-5	ND	50
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604166
DATES EXTRACTED: 04/15/96
INSTRUMENT: 11
MATRIX: WATER

Surrogate Standard Recovery Summary

			Percent Recovery					
Date Analyzed	Client Id.	Lab Id.	2-Fluoro-phenol	Phenol-d_5	Nitro-benzene-d_5	2-Fluoro-biphenyl	2,4,6-Tri-bromophenol	Terphenyl-d_{14}
04/18/96	LF-25	01	80	86	85	73	92	72
04/19/96	LF-24	02	77	84	85	67	92	68
04/19/96	LF-20	03	78	74	87	71	101	70
04/19/96	LF-18	05	81	77	90	71	100	70
QC Limits:			21-100	10-94	35-114	43-116	10-123	33-141

DATE EXTRACTED: 04/15/96
DATE ANALYZED: 04/18/96
SAMPLE SPIKED: LCS
INSTRUMENT: 11

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	QC Limits Percent Recovery
Phenol	220	77	5-112
2-Chlorophenol	209	81	23-134
1,4-Dichlorobenzene	208	72	20-124
N-Nitrosodi-n-propylamine	212	93	0-230
1,2,4-Trichlorobenzene	209	78	44-142
4-Chloro-3-methylphenol	205	87	22-147
Acenaphthene	202	81	47-145
4-Nitrophenol	216	81	0-132
2,4-Dinitrotoluene	211	82	0-112
Pentachlorophenol	210	81	14-176
Pyrene	217	64	52-115

QUALITY CONTROL DATA

AEN JOB NO: 9604166
SAMPLE SPIKED: DI WATER
DATE(S) ANALYZED: 04/17-18/96
MATRIX: WATER

Method Blank and Spike Recovery Summary

Analyte	Inst./ Method	Blank Result (mg/L)	Spike Added (mg/L)	MS Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
As, Arsenic	4000/7060	ND	0.04	96	6	69-136	13
Pb, Lead	4000/7421	ND	0.02	97	7	75-125	14

END OF REPORT

K352 KU SE/K

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9604166

Project No.: 3435.00.02	Field Logbook No.:	Date: 4/11/96	Serial No.: № 14923
Project Name: Sherwin-Williams	Project Location: Emeryville, CA		
Sampler (Signature): [signature]			Samplers: JPS

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	TPHg/BTEX	TPHd/PE	8240 FGH	8270 15	Arsenic & Lead	(dissolved)	HOLD	RUSH	REMARKS
LF-25	4/11	11:10	01A-K	11	WATER	X	X	X	X	X				Regular TAT
LF-24	↓	11:40	02A-K	11	↓	↓	↓	↓	↓	↓				
LF-20	↓	12:15	03A-K	11	↓	↓	↓	↓	↓	↓				Results to KAG
LF-18-FB	↓	14:15	04A-G	7	↓	↓		↓			✓As+Pb only			
LF-18	↓	14:35	05A-K	11	↓	↓	X	↓	X	↓				04/15/96 1545 Per Kenton Gee, dissolved As, Pb requested. Also place the dis. As, Pb analysis on HOLD for sample LF-18-FB. No total As, Pb. JRS

RELINQUISHED BY: (Signature) [signature]	DATE 4/11/96	TIME 1635	RECEIVED BY: (Signature) [signature]	DATE 4-11-96	TIME 1635
RELINQUISHED BY: (Signature) [signature]	DATE 4-11-96	TIME 1730	RECEIVED BY: (Signature) [signature]	DATE 4/11/96	TIME 1730
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500	Analytical Laboratory: AEN

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARF

CHANGE ORDER REQUEST

AMERICAN ENVIRONMENTAL NETWORK (AEN)
3440 VINCENT ROAD
PLEASANT HILL, CA 94523

PHONE (510) 930-9090 FAX (510) 930-0256

DATE/TIME 04/15/96 1545 COMPANY Levine-Fricke

AEN REP. Roxy Sigua CONTACT Kenton Gee

AEN PROJ NO. 9604130, 9604149, 9604166 PROJECT 3435.00.02 PROJ. # 14951, 14919 COC # 14923

ADDITIONAL ANALYSIS ____ CHANGED ANALYSIS ✓ OTHER ____

Per client request, dissolved As & Pb needed for samples under project 3435.00.02, COC #'s 14951, 14919, 14923. Also place the dissolved As & Pb analysis on HOLD for sample LF-18-FB.

(AEN sample id's: 9604130-02-05 • 9604149-01-02-03 9604166-01-02-03-05) (9604166-04 on HOLD)

ACCEPTED - *The above specifications of this Change Order are satisfactory and are hereby accepted*

DATE OF ACCEPTANCE _____ *SIGNATURE* _____

PLEASE AUTHORIZE BY SIGNING REQUEST AND RETURN BY FAX

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

LEVINE-FRICKE
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

ATTN: KENTON GEE
CLIENT PROJ. ID: 3435.02
CLIENT PROJ. NAME: SHERWIN WMS.
C.O.C. NUMBER: 14924

REPORT DATE: 04/30/96
DATE(S) SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
AEN WORK ORDER: 9604219

PROJECT SUMMARY:

On April 16, 1996, this laboratory received 5 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

LEVINE-FRICKE

SAMPLE ID: LF-12
AEN LAB NO: 9604219-01A
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/L	04/25/96
Benzene	71-43-2	ND	5	ug/L	04/25/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/25/96
Bromoform	75-25-2	ND	5	ug/L	04/25/96
Bromomethane	74-83-9	ND	10	ug/L	04/25/96
2-Butanone	78-93-3	ND	100	ug/L	04/25/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/25/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/25/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/25/96
Chloroethane	75-00-3	ND	10	ug/L	04/25/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/25/96
Chloroform	67-66-3	ND	5	ug/L	04/25/96
Chloromethane	74-87-3	ND	10	ug/L	04/25/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/25/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/25/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/25/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/25/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/25/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/25/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/25/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/25/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/25/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/25/96
2-Hexanone	591-78-6	ND	50	ug/L	04/25/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/25/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/25/96
Styrene	100-42-5	ND	5	ug/L	04/25/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/25/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/25/96
Toluene	108-88-3	ND	5	ug/L	04/25/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/25/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/25/96
Trichloroethene	79-01-6	ND	5	ug/L	04/25/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/25/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/25/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/25/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-12
AEN LAB NO: 9604219-01D
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/17/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/19/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/19/96
Anthracene	120-12-7	ND	10	ug/L	04/19/96
Benzidine	92-87-5	ND	50	ug/L	04/19/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/19/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/19/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/19/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/19/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/19/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/19/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/19/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/19/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/19/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/19/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/19/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/19/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/19/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/19/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/19/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/19/96
Chrysene	218-01-9	ND	10	ug/L	04/19/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/19/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/19/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/19/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/19/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/19/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/19/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/19/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/19/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/19/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/19/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/19/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/19/96
Fluoranthene	206-44-0	ND	10	ug/L	04/19/96
Fluorene	86-73-7	ND	10	ug/L	04/19/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/19/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/19/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/19/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/19/96

LEVINE-FRICKE

SAMPLE ID: LF-12
AEN LAB NO: 9604219-01D
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/19/96
Isophorone	78-59-1	ND	10	ug/L	04/19/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/19/96
Naphthalene	91-20-3	ND	10	ug/L	04/19/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/19/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/19/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/19/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/19/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/19/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/19/96
Phenanthrene	85-01-8	ND	10	ug/L	04/19/96
Pyrene	129-00-0	ND	10	ug/L	04/19/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/19/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/19/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/19/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/19/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/19/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/19/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/19/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/19/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/19/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/19/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/19/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/19/96
Phenol	108-95-2	ND	10	ug/L	04/19/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/19/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/19/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-12
AEN LAB NO: 9604219-01F
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-12
AEN LAB NO: 9604219-01I
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/18/96
TPH as Diesel	GC-FID	ND	0.05	mg/L	04/19/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-12
AEN LAB NO: 9604219-01J
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/22/96
Arsenic	EPA 7060	0.043 *	0.002	mg/L	04/24/96
Lead	EPA 7421	ND	0.002	mg/L	04/23/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B4
AEN LAB NO: 9604219-02A
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	04/25/96
Benzene	71-43-2	ND	5	ug/L	04/25/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/25/96
Bromoform	75-25-2	ND	5	ug/L	04/25/96
Bromomethane	74-83-9	ND	10	ug/L	04/25/96
2-Butanone	78-93-3	ND	100	ug/L	04/25/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/25/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/25/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/25/96
Chloroethane	75-00-3	ND	10	ug/L	04/25/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/25/96
Chloroform	67-66-3	ND	5	ug/L	04/25/96
Chloromethane	74-87-3	ND	10	ug/L	04/25/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/25/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/25/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/25/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/25/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/25/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/25/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/25/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/25/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/25/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/25/96
2-Hexanone	591-78-6	ND	50	ug/L	04/25/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/25/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/25/96
Styrene	100-42-5	ND	5	ug/L	04/25/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/25/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/25/96
Toluene	108-88-3	ND	5	ug/L	04/25/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/25/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/25/96
Trichloroethene	79-01-6	ND	5	ug/L	04/25/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/25/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/25/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/25/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B4
AEN LAB NO: 9604219-02D
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/17/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/19/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/19/96
Anthracene	120-12-7	ND	10	ug/L	04/19/96
Benzidine	92-87-5	ND	50	ug/L	04/19/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/19/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/19/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/19/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/19/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/19/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/19/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/19/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/19/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/19/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/19/96
Bis(2-ethylhexyl) Phthalate	117-81-7	59 *	10	ug/L	04/19/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/19/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/19/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/19/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/19/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/19/96
Chrysene	218-01-9	ND	10	ug/L	04/19/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/19/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/19/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/19/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/19/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/19/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/19/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/19/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/19/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/19/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/19/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/19/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/19/96
Fluoranthene	206-44-0	ND	10	ug/L	04/19/96
Fluorene	86-73-7	ND	10	ug/L	04/19/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/19/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/19/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/19/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/19/96

LEVINE-FRICKE

SAMPLE ID: LF-B4
AEN LAB NO: 9604219-02D
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/19/96
Isophorone	78-59-1	ND	10	ug/L	04/19/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/19/96
Naphthalene	91-20-3	ND	10	ug/L	04/19/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/19/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/19/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/19/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/19/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/19/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/19/96
Phenanthrene	85-01-8	ND	10	ug/L	04/19/96
Pyrene	129-00-0	ND	10	ug/L	04/19/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/19/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/19/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/19/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/19/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/19/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/19/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/19/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/19/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/19/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/19/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/19/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/19/96
Phenol	108-95-2	ND	10	ug/L	04/19/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/19/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/19/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B4
AEN LAB NO: 9604219-02F
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/17/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B4
AEN LAB NO: 9604219-02I
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/18/96
TPH as Diesel	GC-FID	ND	0.05	mg/L	04/19/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B4
AEN LAB NO: 9604219-02J
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/22/96
Arsenic	EPA 7060	ND	0.002	mg/L	04/24/96
Lead	EPA 7421	ND	0.002	mg/L	04/23/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-13
AEN LAB NO: 9604219-03A
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/L	04/24/96
Benzene	71-43-2	ND	5	ug/L	04/24/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/24/96
Bromoform	75-25-2	ND	5	ug/L	04/24/96
Bromomethane	74-83-9	ND	10	ug/L	04/24/96
2-Butanone	78-93-3	ND	100	ug/L	04/24/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/24/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/24/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/24/96
Chloroethane	75-00-3	ND	10	ug/L	04/24/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/24/96
Chloroform	67-66-3	ND	5	ug/L	04/24/96
Chloromethane	74-87-3	ND	10	ug/L	04/24/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/24/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/24/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/24/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/24/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/24/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/24/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/24/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/24/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/24/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/24/96
2-Hexanone	591-78-6	ND	50	ug/L	04/24/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/24/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/24/96
Styrene	100-42-5	ND	5	ug/L	04/24/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/24/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/24/96
Toluene	108-88-3	ND	5	ug/L	04/24/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/24/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/24/96
Trichloroethene	79-01-6	ND	5	ug/L	04/24/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/24/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/24/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/24/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-13
AEN LAB NO: 9604219-03D
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/17/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/19/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/19/96
Anthracene	120-12-7	ND	10	ug/L	04/19/96
Benzidine	92-87-5	ND	50	ug/L	04/19/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/19/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/19/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/19/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/19/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/19/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/19/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/19/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/19/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/19/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/19/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/19/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/19/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/19/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/19/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/19/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/19/96
Chrysene	218-01-9	ND	10	ug/L	04/19/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/19/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/19/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/19/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/19/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/19/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/19/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/19/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/19/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/19/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/19/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/19/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/19/96
Fluoranthene	206-44-0	ND	10	ug/L	04/19/96
Fluorene	86-73-7	ND	10	ug/L	04/19/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/19/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/19/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/19/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/19/96

LEVINE-FRICKE

SAMPLE ID: LF-13
AEN LAB NO: 9604219-03D
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/19/96
Isophorone	78-59-1	ND	10	ug/L	04/19/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/19/96
Naphthalene	91-20-3	ND	10	ug/L	04/19/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/19/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/19/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/19/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/19/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/19/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/19/96
Phenanthrene	85-01-8	ND	10	ug/L	04/19/96
Pyrene	129-00-0	ND	10	ug/L	04/19/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/19/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/19/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/19/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/19/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/19/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/19/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/19/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/19/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/19/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/19/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/19/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/19/96
Phenol	108-95-2	ND	10	ug/L	04/19/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/19/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/19/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-13
AEN LAB NO: 9604219-03F
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/17/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-13
AEN LAB NO: 9604219-03I
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/19/96
TPH as Diesel	GC-FID	ND	0.05	mg/L	04/20/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-13
AEN LAB NO: 9604219-03K
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/22/96
Arsenic	EPA 7060	ND	0.002	mg/L	04/24/96
Lead	EPA 7421	ND	0.002	mg/L	04/29/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-11
AEN LAB NO: 9604219-04A
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/L	04/23/96
Benzene	71-43-2	ND	5	ug/L	04/23/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/23/96
Bromoform	75-25-2	ND	5	ug/L	04/23/96
Bromomethane	74-83-9	ND	10	ug/L	04/23/96
2-Butanone	78-93-3	ND	100	ug/L	04/23/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/23/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/23/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/23/96
Chloroethane	75-00-3	ND	10	ug/L	04/23/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/23/96
Chloroform	67-66-3	ND	5	ug/L	04/23/96
Chloromethane	74-87-3	ND	10	ug/L	04/23/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/23/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/23/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/23/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/23/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/23/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/23/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/23/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/23/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/23/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/23/96
2-Hexanone	591-78-6	ND	50	ug/L	04/23/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/23/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/23/96
Styrene	100-42-5	ND	5	ug/L	04/23/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/23/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/23/96
Toluene	108-88-3	ND	5	ug/L	04/23/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/23/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/23/96
Trichloroethene	79-01-6	ND	5	ug/L	04/23/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/23/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/23/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/23/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-11
AEN LAB NO: 9604219-04D
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/17/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/19/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/19/96
Anthracene	120-12-7	ND	10	ug/L	04/19/96
Benzidine	92-87-5	ND	50	ug/L	04/19/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/19/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/19/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/19/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/19/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/19/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/19/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/19/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/19/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/19/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/19/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/19/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/19/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/19/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/19/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/19/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/19/96
Chrysene	218-01-9	ND	10	ug/L	04/19/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/19/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/19/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/19/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/19/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/19/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/19/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/19/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/19/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/19/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/19/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/19/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/19/96
Fluoranthene	206-44-0	ND	10	ug/L	04/19/96
Fluorene	86-73-7	ND	10	ug/L	04/19/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/19/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/19/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/19/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/19/96

LEVINE-FRICKE

SAMPLE ID: LF-11
AEN LAB NO: 9604219-04D
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/19/96
Isophorone	78-59-1	ND	10	ug/L	04/19/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/19/96
Naphthalene	91-20-3	ND	10	ug/L	04/19/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/19/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/19/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/19/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/19/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/19/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/19/96
Phenanthrene	85-01-8	ND	10	ug/L	04/19/96
Pyrene	129-00-0	ND	10	ug/L	04/19/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/19/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/19/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/19/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/19/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/19/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/19/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/19/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/19/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/19/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/19/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/19/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/19/96
Phenol	108-95-2	ND	10	ug/L	04/19/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/19/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/19/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-11
AEN LAB NO: 9604219-04F
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/17/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-11
AEN LAB NO: 9604219-04I
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/19/96
TPH as Diesel	GC-FID	0.93 *	0.05	mg/L	04/20/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-11
AEN LAB NO: 9604219-04K
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/22/96
Arsenic	EPA 7060	0.048 *	0.002	mg/L	04/24/96
Lead	EPA 7421	ND	0.002	mg/L	04/23/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B3
AEN LAB NO: 9604219-05A
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/L	04/23/96
Benzene	71-43-2	ND	5	ug/L	04/23/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/23/96
Bromoform	75-25-2	ND	5	ug/L	04/23/96
Bromomethane	74-83-9	ND	10	ug/L	04/23/96
2-Butanone	78-93-3	ND	100	ug/L	04/23/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/23/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/23/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/23/96
Chloroethane	75-00-3	ND	10	ug/L	04/23/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/23/96
Chloroform	67-66-3	ND	5	ug/L	04/23/96
Chloromethane	74-87-3	ND	10	ug/L	04/23/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/23/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/23/96
1,2-Dichloroethane	107-06-2	13 *	5	ug/L	04/23/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/23/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/23/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/23/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/23/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/23/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/23/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/23/96
2-Hexanone	591-78-6	ND	50	ug/L	04/23/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/23/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/23/96
Styrene	100-42-5	ND	5	ug/L	04/23/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/23/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/23/96
Toluene	108-88-3	ND	5	ug/L	04/23/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/23/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/23/96
Trichloroethene	79-01-6	ND	5	ug/L	04/23/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/23/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/23/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/23/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B3
AEN LAB NO: 9604219-05D
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/17/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/19/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/19/96
Anthracene	120-12-7	ND	10	ug/L	04/19/96
Benzidine	92-87-5	ND	50	ug/L	04/19/96
Benzoic Acid	65-85-0	73 *	50	ug/L	04/19/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/19/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/19/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/19/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/19/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/19/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/19/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/19/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/19/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/19/96
Bis(2-ethylhexyl) Phthalate	117-81-7	40 *	10	ug/L	04/19/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/19/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/19/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/19/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/19/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/19/96
Chrysene	218-01-9	ND	10	ug/L	04/19/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/19/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/19/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/19/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/19/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/19/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/19/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/19/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/19/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/19/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/19/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/19/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/19/96
Fluoranthene	206-44-0	ND	10	ug/L	04/19/96
Fluorene	86-73-7	ND	10	ug/L	04/19/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/19/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/19/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/19/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/19/96

LEVINE-FRICKE

SAMPLE ID: LF-B3
AEN LAB NO: 9604219-05D
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/19/96
Isophorone	78-59-1	ND	10	ug/L	04/19/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/19/96
Naphthalene	91-20-3	ND	10	ug/L	04/19/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/19/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/19/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/19/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/19/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/19/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/19/96
Phenanthrene	85-01-8	ND	10	ug/L	04/19/96
Pyrene	129-00-0	ND	10	ug/L	04/19/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/19/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/19/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/19/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/19/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/19/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/19/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/19/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/19/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/19/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/19/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/19/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/19/96
Phenol	108-95-2	ND	10	ug/L	04/19/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/19/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/19/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B3
AEN LAB NO: 9604219-05F
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/17/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B3
AEN LAB NO: 9604219-05I
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/19/96
TPH as Diesel	GC-FID	2.7 *	0.05	mg/L	04/20/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-B3
AEN LAB NO: 9604219-05K
AEN WORK ORDER: 9604219
CLIENT PROJ. ID: 3435.02

DATE SAMPLED: 04/16/96
DATE RECEIVED: 04/16/96
REPORT DATE: 04/30/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/22/96
Arsenic	EPA 7060	0.036 *	0.002	mg/L	04/24/96
Lead	EPA 7421	ND	0.002	mg/L	04/29/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9604219

CLIENT PROJECT ID: 3435.02

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604219
AEN LAB NO: 0418-BLANK
DATE EXTRACTED: 04/18/96
DATE ANALYZED: 04/19/96
INSTRUMENT: A
MATRIX: WATER

Method Blank

Analyte	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	0.05

AEN LAB NO: 0419-BLANK
DATE EXTRACTED: 04/19/96
DATE ANALYZED: 04/20/96
INSTRUMENT: A
MATRIX: WATER

Method Blank

Analyte	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	0.05

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604219
DATE(S) EXTRACTED: 04/18/96; 04/19/96
INSTRUMENT: A
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
04/19/96	LF-12	01	94
04/19/96	LF-B4	02	105
04/20/96	LF-13	03	91
04/20/96	LF-11	04	94
04/20/96	LF-B3	05	104
QC Limits:			59-118

DATE EXTRACTED: 04/18/96
DATE ANALYZED: 04/18/96
SAMPLE SPIKED: 9503343-14
INSTRUMENT: A

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	4.00	94	3	58-107	15

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604219
AEN LAB NO: 0417-BLANK
DATE ANALYZED: 04/17/96
INSTRUMENT: F
MATRIX: WATER

Method Blank

	CAS #	Result (mg/L)	Reporting Limit (mg/L)
HCs as Gasoline		ND	0.05

AEN LAB NO: 0418-BLANK
DATE ANALYZED: 04/18/96
INSTRUMENT: F
MATRIX: WATER

Method Blank

	CAS #	Result (mg/L)	Reporting Limit (mg/L)
HCs as Gasoline		ND	0.05

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604219
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
04/18/96	LF-12	01	95
04/17/96	LF-B4	02	97
04/17/96	LF-13	03	97
04/17/96	LF-11	04	96
04/17/96	LF-B3	05	97
QC Limits:			70-130

DATE ANALYZED: 04/16/96
SAMPLE SPIKED: 9604206-01
INSTRUMENT: F

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Hydrocarbons as Gasoline	500	116	3	66-117	19

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604219
AEN LAB NO: 0423-BLANK
DATE ANALYZED: 04/23/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604219
AEN LAB NO: 0424-BLANK
DATE ANALYZED: 04/24/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604219
AEN LAB NO: 0425-BLANK
DATE ANALYZED: 04/25/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604219
INSTRUMENT: 13
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 1,2-Dichloroethane-d_4	Toluene-d_8	p-Bromofluorobenzene
04/25/96	LF-12	01	100	91	92
04/25/96	LF-B4	02	98	95	99
04/24/96	LF-13	03	96	94	97
04/23/96	LF-11	04	95	93	98
04/23/96	LF-B3	05	104	96	96
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 04/17/96
SAMPLE SPIKED: 9604148-01
INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
1,1-Dichloroethene	50	114	2	59-155	25
Trichloroethene	50	105	3	71-157	25
Benzene	50	100	2	37-151	25
Toluene	50	92	2	47-150	25
Chlorobenzene	50	107	1	37-160	25

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604219
AEN LAB NO: 0417-BLANK
DATE EXTRACTED: 04/17/96
DATE ANALYZED: 04/19/96
INSTRUMENT: 11
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzidine	92-87-5	ND	50
Benzoic Acid	65-85-0	ND	50
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Benzyl Alcohol	100-51-6	ND	20
Bis(2-chloroethoxy)methane	111-91-1	ND	10
Bis(2-chloroethyl)ether	111-44-4	ND	10
Bis(2-chloroisopropyl)ether	108-60-1	ND	10
Bis(2-ethylhexyl)phthalate	117-81-7	ND	10
4-Bromophenyl phenyl ether	101-55-3	ND	10
Butylbenzyl phthalate	85-68-7	ND	10
4-Chloroaniline	106-47-8	ND	20
2-Chloronaphthalene	91-58-7	ND	10
4-Chlorophenyl phenylether	7005-72-3	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Di-n-butylphthalate	84-74-2	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
3,3'-Dichlorobenzidine	91-94-1	ND	20
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
2,4-Dinitrotoluene	121-14-2	ND	10
2,6-Dinitrotoluene	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
1,2-Diphenylhydrazine	122-66-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604219
AEN LAB NO: 0417-BLANK
DATE EXTRACTED: 04/17/96
DATE ANALYZED: 04/19/96
INSTRUMENT: 11
MATRIX: WATER

Method Blank (Cont.)

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
2-Nitroaniline	88-74-4	ND	50
3-Nitroaniline	99-09-2	ND	50
4-Nitroaniline	100-01-6	ND	50
Nitrobenzene	98-95-3	ND	10
N-nitrosodimethylamine	62-75-9	ND	10
N-nitrosodiphenylamine	86-30-6	ND	10
N-nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
4,6-Dinitro-2-methylphenol	534-52-1	ND	50
2,4-Dinitrophenol	51-28-5	ND	50
2-Methylphenol	95-48-7	ND	10
4-Methylphenol	106-44-5	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	50
Pentachlorophenol	87-86-5	ND	50
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604219
DATES EXTRACTED: 04/17/96
INSTRUMENT: 11
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery: 2-Fluorophenol	Phenol-d_5	Nitrobenzene-d_5	2-Fluorobiphenyl	2,4,6-Tribromophenol	Terphenyl-d_{14}
04/19/96	LF-12	01	84	85	101	73	107	80
04/19/96	LF-B4	02	82	77	101	73	104	75
04/19/96	LF-13	03	77	80	94	76	103	83
04/19/96	LF-11	04	82	84	95	72	103	75
04/19/96	LF-B3	05	96	92	97	92	119	94
QC Limits:			21-100	10-94	35-114	43-116	10-123	33-141

DATE EXTRACTED: 04/17/96
DATE ANALYZED: 04/19/96
SAMPLE SPIKED: LCS
INSTRUMENT: 11

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	QC Limits- Percent Recovery
Phenol	220	84	5-112
2-Chlorophenol	209	83	23-134
1,4-Dichlorobenzene	208	72	20-124
N-Nitrosodi-n-propylamine	212	99	0-230
1,2,4-Trichlorobenzene	209	71	44-142
4-Chloro-3-methylphenol	205	87	22-147
Acenaphthene	202	88	47-145
4-Nitrophenol	216	83	0-132
2,4-Dinitrotoluene	211	84	0-112
Pentachlorophenol	210	60	14-176
Pyrene	217	78	52-115

QUALITY CONTROL DATA

AEN JOB NO: 9604219
SAMPLE SPIKED: DI WATER
DATE(S) ANALYZED: 04/23-24/96
MATRIX: WATER

Method Blank and Spike Recovery Summary

Analyte	Inst./ Method	Blank Result (mg/L)	Spike Added (mg/L)	MS Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
As, Arsenic	4000/7060	ND	0.04	91	10	69-136	13
Pb, Lead	4000/7421	ND	0.02	93	2	75-125	14

END OF REPORT

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9604219

Project No.: 3435.02	Field Logbook No.:	Date: 4-16-96	Serial No.: № 14924
Project Name: Sherwin Williams	Project Location: Emeryville, CA		
Sampler (Signature): [signature]			Samplers: JMR EBK

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 8240 A-C	EPA 8270 D-E	TPHg F&H	TPHd (F)	Dissolved As + Pb K			HOLD	RUSH	REMARKS
LF-12	4-16-96	10:00	01A-J	10	H2O	X	X	X	X	X					STD TAT
LF-B4	↓	10:50	02A-J	10	↓	↓	↓	↓	↓	↓					
LF-13	↓	11:30	03A-K	11	↓	↓	↓	↓	↓	↓					Filter AS & Pb in
LF-11	↓	12:05	04A-K	11	↓	↓	↓	↓	↓	↓					lab
LF-B3	↓	13:30	05A-K	11	↓	↓	↓	↓	↓	↓					
LF-3	↓	14:15	9604220	11	↓	↓	↓	↓	↓	↓					Results to Kenton Gee

See AEN 9604220 for LF-3

RELINQUISHED BY: (Signature) [signature]	DATE 4-16-96	TIME ~~1430~~ 1600	RECEIVED BY: (Signature) [signature]	DATE 4-16-96	TIME 1620
RELINQUISHED BY: (Signature) [signature]	DATE 4-16-96	TIME 1710	RECEIVED BY: (Signature) [signature]	DATE 4/16/96	TIME 1710
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS: ~~No metals received for LF-12 & LF-B4~~ 4/16/96		

Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500	Analytical Laboratory: AEN

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARF

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

LEVINE-FRICKE
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

ATTN: **KENTON GEE**
CLIENT PROJ. ID: 3435.00.002
CLIENT PROJ. NAME: SHERWIN WMS.
C.O.C. NUMBER: 14919

REPORT DATE: 04/24/96
DATE(S) SAMPLED: 04/10/96
DATE RECEIVED: 04/10/96
AEN WORK ORDER: 9604149

PROJECT SUMMARY:

On April 10, 1996, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

LEVINE-FRICKE

SAMPLE ID: LF-21
AEN LAB NO: 9604149-01
AEN WORK ORDER: 9604149
CLIENT PROJ. ID: 3435.00.002

DATE SAMPLED: 04/10/96
DATE RECEIVED: 04/10/96
REPORT DATE: 04/24/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/18/96
#Extraction for TPH	EPA 3510	-		Extrn Date	04/16/96
TPH as Diesel	GC-FID	2.8 *	0.05	mg/L	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/16/96
Arsenic	EPA 7060	ND	0.002	mg/L	04/17/96
Lead	EPA 7421	ND	0.002	mg/L	04/18/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	04/17/96
Benzene	71-43-2	ND	5	ug/L	04/17/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/17/96
Bromoform	75-25-2	ND	5	ug/L	04/17/96
Bromomethane	74-83-9	ND	10	ug/L	04/17/96
2-Butanone	78-93-3	ND	100	ug/L	04/17/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/17/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/17/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/17/96
Chloroethane	75-00-3	ND	10	ug/L	04/17/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/17/96
Chloroform	67-66-3	ND	5	ug/L	04/17/96
Chloromethane	74-87-3	ND	10	ug/L	04/17/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/17/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/17/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/17/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/17/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/17/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/17/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/17/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/17/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/17/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/17/96
2-Hexanone	591-78-6	ND	50	ug/L	04/17/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/17/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/17/96
Styrene	100-42-5	ND	5	ug/L	04/17/96

LEVINE-FRICKE

SAMPLE ID: LF-21
AEN LAB NO: 9604149-01
AEN WORK ORDER: 9604149
CLIENT PROJ. ID: 3435.00.002

DATE SAMPLED: 04/10/96
DATE RECEIVED: 04/10/96
REPORT DATE: 04/24/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/17/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/17/96
Toluene	108-88-3	ND	5	ug/L	04/17/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/17/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/17/96
Trichloroethene	79-01-6	ND	5	ug/L	04/17/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/17/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/17/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/17/96
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/15/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/18/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/18/96
Anthracene	120-12-7	ND	10	ug/L	04/18/96
Benzidine	92-87-5	ND	50	ug/L	04/18/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/18/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/18/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/18/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/18/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/18/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/18/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/18/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/18/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/18/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/18/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/18/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/18/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/18/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/18/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/18/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/18/96
Chrysene	218-01-9	ND	10	ug/L	04/18/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/18/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/18/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/18/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/18/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/18/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/18/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/18/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/18/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/18/96

LEVINE-FRICKE

SAMPLE ID: LF-21
AEN LAB NO: 9604149-01
AEN WORK ORDER: 9604149
CLIENT PROJ. ID: 3435.00.002

DATE SAMPLED: 04/10/96
DATE RECEIVED: 04/10/96
REPORT DATE: 04/24/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/18/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/18/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/18/96
Fluoranthene	206-44-0	ND	10	ug/L	04/18/96
Fluorene	86-73-7	ND	10	ug/L	04/18/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/18/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/18/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/18/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/18/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/18/96
Isophorone	78-59-1	ND	10	ug/L	04/18/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/18/96
Naphthalene	91-20-3	ND	10	ug/L	04/18/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/18/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/18/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/18/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/18/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/18/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/18/96
Phenanthrene	85-01-8	ND	10	ug/L	04/18/96
Pyrene	129-00-0	ND	10	ug/L	04/18/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/18/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/18/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/18/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/18/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/18/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/18/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/18/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/18/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/18/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/18/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/18/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/18/96
Phenol	108-95-2	ND	10	ug/L	04/18/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/18/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-23
AEN LAB NO: 9604149-02
AEN WORK ORDER: 9604149
CLIENT PROJ. ID: 3435.00.002

DATE SAMPLED: 04/10/96
DATE RECEIVED: 04/10/96
REPORT DATE: 04/24/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/12/96
#Extraction for TPH	EPA 3510	-		Extrn Date	04/16/96
TPH as Diesel	GC-FID	1.7 *	0.05	mg/L	04/16/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/16/96
Arsenic	EPA 7060	ND	0.002	mg/L	04/17/96
Lead	EPA 7421	ND	0.002	mg/L	04/18/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	04/18/96
Benzene	71-43-2	ND	5	ug/L	04/18/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/18/96
Bromoform	75-25-2	ND	5	ug/L	04/18/96
Bromomethane	74-83-9	ND	10	ug/L	04/18/96
2-Butanone	78-93-3	ND	100	ug/L	04/18/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/18/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/18/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/18/96
Chloroethane	75-00-3	ND	10	ug/L	04/18/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/18/96
Chloroform	67-66-3	ND	5	ug/L	04/18/96
Chloromethane	74-87-3	ND	10	ug/L	04/18/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/18/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/18/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/18/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/18/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/18/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/18/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/18/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/18/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/18/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/18/96
2-Hexanone	591-78-6	ND	50	ug/L	04/18/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/18/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/18/96
Styrene	100-42-5	ND	5	ug/L	04/18/96

LEVINE-FRICKE

SAMPLE ID: LF-23
AEN LAB NO: 9604149-02
AEN WORK ORDER: 9604149
CLIENT PROJ. ID: 3435.00.002

DATE SAMPLED: 04/10/96
DATE RECEIVED: 04/10/96
REPORT DATE: 04/24/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/18/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/18/96
Toluene	108-88-3	ND	5	ug/L	04/18/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/18/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/18/96
Trichloroethene	79-01-6	ND	5	ug/L	04/18/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/18/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/18/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/18/96
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/15/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/18/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/18/96
Anthracene	120-12-7	ND	10	ug/L	04/18/96
Benzidine	92-87-5	ND	50	ug/L	04/18/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/18/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/18/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/18/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/18/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/18/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/18/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/18/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/18/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/18/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/18/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/18/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/18/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/18/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/18/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/18/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/18/96
Chrysene	218-01-9	ND	10	ug/L	04/18/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/18/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/18/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/18/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/18/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/18/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/18/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/18/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/18/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/18/96

LEVINE-FRICKE

SAMPLE ID: LF-23
AEN LAB NO: 9604149-02
AEN WORK ORDER: 9604149
CLIENT PROJ. ID: 3435.00.002

DATE SAMPLED: 04/10/96
DATE RECEIVED: 04/10/96
REPORT DATE: 04/24/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/18/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/18/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/18/96
Fluoranthene	206-44-0	ND	10	ug/L	04/18/96
Fluorene	86-73-7	ND	10	ug/L	04/18/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/18/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/18/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/18/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/18/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/18/96
Isophorone	78-59-1	ND	10	ug/L	04/18/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/18/96
Naphthalene	91-20-3	ND	10	ug/L	04/18/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/18/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/18/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/18/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/18/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/18/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/18/96
Phenanthrene	85-01-8	ND	10	ug/L	04/18/96
Pyrene	129-00-0	ND	10	ug/L	04/18/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/18/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/18/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/18/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/18/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/18/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/18/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/18/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/18/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/18/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/18/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/18/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/18/96
Phenol	108-95-2	ND	10	ug/L	04/18/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/18/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-123
AEN LAB NO: 9604149-03
AEN WORK ORDER: 9604149
CLIENT PROJ. ID: 3435.00.002

DATE SAMPLED: 04/10/96
DATE RECEIVED: 04/10/96
REPORT DATE: 04/24/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/16/96
TPH as Gas in water	5030/GC-FID	ND	0.05	mg/L	04/12/96
#Extraction for TPH	EPA 3510	-		Extrn Date	04/16/96
TPH as Diesel	GC-FID	1.3 *	0.05	mg/L	04/17/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/16/96
Arsenic	EPA 7060	0.004 *	0.002	mg/L	04/17/96
Lead	EPA 7421	ND	0.002	mg/L	04/18/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	04/17/96
Benzene	71-43-2	ND	5	ug/L	04/17/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/17/96
Bromoform	75-25-2	ND	5	ug/L	04/17/96
Bromomethane	74-83-9	ND	10	ug/L	04/17/96
2-Butanone	78-93-3	ND	100	ug/L	04/17/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/17/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/17/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/17/96
Chloroethane	75-00-3	ND	10	ug/L	04/17/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/17/96
Chloroform	67-66-3	ND	5	ug/L	04/17/96
Chloromethane	74-87-3	ND	10	ug/L	04/17/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/17/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/17/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/17/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/17/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/17/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/17/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/17/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/17/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/17/96
Ethylbenzene	100-41-4	ND	5	ug/L	04/17/96
2-Hexanone	591-78-6	ND	50	ug/L	04/17/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/17/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/17/96
Styrene	100-42-5	ND	5	ug/L	04/17/96

LEVINE-FRICKE

SAMPLE ID: LF-123
AEN LAB NO: 9604149-03
AEN WORK ORDER: 9604149
CLIENT PROJ. ID: 3435.00.002

DATE SAMPLED: 04/10/96
DATE RECEIVED: 04/10/96
REPORT DATE: 04/24/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/17/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/17/96
Toluene	108-88-3	ND	5	ug/L	04/17/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/17/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/17/96
Trichloroethene	79-01-6	ND	5	ug/L	04/17/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/17/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/17/96
Xylenes, Total	1330-20-7	ND	10	ug/L	04/17/96
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/15/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/18/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/18/96
Anthracene	120-12-7	ND	10	ug/L	04/18/96
Benzidine	92-87-5	ND	50	ug/L	04/18/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/18/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/18/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/18/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/18/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/18/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/18/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/18/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/18/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/18/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/18/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/18/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/18/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/18/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/18/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/18/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/18/96
Chrysene	218-01-9	ND	10	ug/L	04/18/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/18/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/18/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	04/18/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/18/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/18/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/18/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/18/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/18/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/18/96

LEVINE-FRICKE

SAMPLE ID: LF-123
AEN LAB NO: 9604149-03
AEN WORK ORDER: 9604149
CLIENT PROJ. ID: 3435.00.002

DATE SAMPLED: 04/10/96
DATE RECEIVED: 04/10/96
REPORT DATE: 04/24/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/18/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/18/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/18/96
Fluoranthene	206-44-0	ND	10	ug/L	04/18/96
Fluorene	86-73-7	ND	10	ug/L	04/18/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/18/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/18/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/18/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/18/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/18/96
Isophorone	78-59-1	ND	10	ug/L	04/18/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/18/96
Naphthalene	91-20-3	ND	10	ug/L	04/18/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/18/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/18/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/18/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/18/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/18/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/18/96
Phenanthrene	85-01-8	ND	10	ug/L	04/18/96
Pyrene	129-00-0	ND	10	ug/L	04/18/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/18/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/18/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/18/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/18/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/18/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/18/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/18/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/18/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/18/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/18/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/18/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/18/96
Phenol	108-95-2	ND	10	ug/L	04/18/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/18/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/18/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9604149

CLIENT PROJECT ID: 3435.00.002

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604149
AEN LAB NO: 0416-BLANK
DATE EXTRACTED: 04/16/96
DATE ANALYZED: 04/16/96
INSTRUMENT: A
MATRIX: WATER

Method Blank

Analyte	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	0.05

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604149
DATE(S) EXTRACTED: 04/16/96
INSTRUMENT: A
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
04/16/96	LF-21	01	87
04/16/96	LF-23	02	91
04/17/96	LF-123	03	83
QC Limits:			59-118

DATE EXTRACTED: 04/15/96
DATE ANALYZED: 04/15/96
SAMPLE SPIKED: 9503343-21
INSTRUMENT: A

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	4.00	93	2	58-107	15

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604149
AEN LAB NO: 0412-BLANK
DATE ANALYZED: 04/12/96
INSTRUMENT: F
MATRIX: WATER

Method Blank

	CAS #	Result (ug/L)	Reporting Limit (ug/L)
HCs as Gasoline		ND mg/L	0.05 mg/L

AEN LAB NO: 0418-BLANK
DATE ANALYZED: 04/18/96
INSTRUMENT: F
MATRIX: WATER

Method Blank

	CAS #	Result (ug/L)	Reporting Limit (ug/L)
HCs as Gasoline		ND mg/L	0.05 mg/L

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604149
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
04/18/96	LF-21	01	97
04/12/96	LF-23	02	97
04/12/96	LF-123	03	95
QC Limits:			70-130

DATE ANALYZED: 04/16/96
SAMPLE SPIKED: 9604206-01
INSTRUMENT: F

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Hydrocarbons as Gasoline	500	116	3	66-117	19

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604149
AEN LAB NO: 0417-BLANK
DATE ANALYZED: 04/17/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604149
AEN LAB NO: 0418-BLANK
DATE ANALYZED: 04/18/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604149
INSTRUMENT: 13
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 1,2-Dichloroethane-d_4	Toluene-d_8	p-Bromofluorobenzene
04/17/96	LF-21	01	93	96	86
04/18/96	LF-23	02	76	103	90
04/17/96	LF-123	03	99	94	88
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 04/17/96
SAMPLE SPIKED: 9604148-01
INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
1,1-Dichloroethene	50	114	2	59-155	25
Trichloroethene	50	105	3	71-157	25
Benzene	50	100	2	37-151	25
Toluene	50	92	2	47-150	25
Chlorobenzene	50	107	1	37-160	25

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604149
AEN LAB NO: 0415-BLANK
DATE EXTRACTED: 04/15/96
DATE ANALYZED: 04/18/96
INSTRUMENT: 11
MATRIX: WATER

Semi-Volatile Organic Compounds
GC/MS Extractables

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzidine	92-87-5	ND	50
Benzoic Acid	65-85-0	ND	50
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Benzyl Alcohol	100-51-6	ND	20
Bis(2-chloroethoxy)methane	111-91-1	ND	10
Bis(2-chloroethyl)ether	111-44-4	ND	10
Bis(2-chloroisopropyl)ether	108-60-1	ND	10
Bis(2-ethylhexyl)phthalate	117-81-7	ND	10
4-Bromophenyl phenyl ether	101-55-3	ND	10
Butylbenzyl phthalate	85-68-7	ND	10
4-Chloroaniline	106-47-8	ND	20
2-Chloronaphthalene	91-58-7	ND	10
4-Chlorophenyl phenylether	7005-72-3	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Di-n-butylphthalate	84-74-2	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
3,3'-Dichlorobenzidine	91-94-1	ND	20
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
2,4-Dinitrotoluene	121-14-2	ND	10
2,6-Dinitrotoluene	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
1,2-Diphenylhydrazine	122-66-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604149
AEN LAB NO: 0415-BLANK
DATE EXTRACTED: 04/15/96
DATE ANALYZED: 04/18/96
INSTRUMENT: 11
MATRIX: WATER

GC/MS Extractables (Cont.)

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
2-Nitroaniline	88-74-4	ND	50
3-Nitroaniline	99-09-2	ND	50
4-Nitroaniline	100-01-6	ND	50
Nitrobenzene	98-95-3	ND	10
N-nitrosodimethylamine	62-75-9	ND	10
N-nitrosodiphenylamine	86-30-6	ND	10
N-nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
4,6-Dinitro-2-methylphenol	534-52-1	ND	50
2,4-Dinitrophenol	51-28-5	ND	50
2-Methylphenol	95-48-7	ND	10
4-Methylphenol	106-44-5	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	50
Pentachlorophenol	87-86-5	ND	50
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604149
DATES EXTRACTED: 04/15/96
INSTRUMENT: 11
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 2-Fluoro-phenol	Phenol-d_5	Nitro-benzene-d_5	2-Fluoro-biphenyl	2,4,6-Tri-bromophenol	Terphenyl-d_{14}
04/18/96	LF-21	01	78	85	87	76	94	72
04/18/96	LF-23	02	78	86	84	72	94	70
04/18/96	LF-123	03	82	88	88	73	87	72
QC Limits:			21-100	10-94	35-114	43-116	10-123	33-141

DATE EXTRACTED: 04/15/96
DATE ANALYZED: 04/18/96
SAMPLE SPIKED: LCS
INSTRUMENT: 11

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	QC Limits Percent Recovery
Phenol	220	77	5-112
2-Chlorophenol	209	81	23-134
1,4-Dichlorobenzene	208	72	20-124
N-Nitrosodi-n-propylamine	212	93	0-230
1,2,4-Trichlorobenzene	209	78	44-142
4-Chloro-3-methylphenol	205	87	22-147
Acenaphthene	202	81	47-145
4-Nitrophenol	216	81	0-132
2,4-Dinitrotoluene	211	82	0-112
Pentachlorophenol	210	81	14-176
Pyrene	217	64	52-115

QUALITY CONTROL DATA

AEN JOB NO: 9604149
SAMPLE SPIKED: DI WATER
DATE(S) ANALYZED: 04/17-18/96
MATRIX: WATER

Method Blank and Spike Recovery Summary

Analyte	Inst./ Method	Blank Result (mg/L)	Spike Added (mg/L)	MS Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
As, Arsenic	4000/7060	ND	0.04	96	6	69-136	13
Pb, Lead	4000/7421	ND	0.02	98	7	75-125	14

END OF REPORT

CHANGE ORDER REQUEST

AMERICAN ENVIRONMENTAL NETWORK (AEN)
3440 VINCENT ROAD
PLEASANT HILL, CA 94523

PHONE (510) 930-9090 FAX (510) 930-0256

DATE/TIME 04/15/96 1545 COMPANY Levine-Fricke

AEN REP. Roxy Sigua CONTACT Kenton Gee

AEN PROJ NO. 9604130, 9604149, 9604166 PROJECT 3435.00.02 (PROJ. #) COC # 14951, 14919, 14923

ADDITIONAL ANALYSIS ____ CHANGED ANALYSIS ✓ OTHER ____

Per client request, dissolved As & Pb needed for samples under project 3435.00.02, COC #'s 14951, 14919, 14923. Also place the dissolved As & Pb analysis on HOLD for sample LF-18-FB.

(AEN sample id's: 9604130-02-05 · 9604149-01-02-03 9604166-01-02-03-05) (9604166-04 on HOLD)

ACCEPTED - *The above specifications of this Change Order are satisfactory and are hereby accepted*

X *DATE OF ACCEPTANCE* _____ X *SIGNATURE* _____

PLEASE AUTHORIZE BY SIGNING REQUEST AND RETURN BY FAX

[redacted]

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9604149

Project No.: 3435.00.02	Field Logbook No.:	Date: 3/10/96	Serial No.: № 14919
Project Name: Sherwin-Williams	Project Location: Emeryville, CA		
Sampler (Signature): [illegible signature]			Samplers: JPS

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	8240 A C	8270 DE	TPHg [illegible]	TPHd (3)	Arsenic, Lead (dissolved)		HOLD	RUSH	REMARKS
LF-21	4/10	10:15	01A-K	11	WATER	X	X	X	X	X				Normal TAT
LF-23	↓	14:30	02A-K	↓	↓	↓	↓	↓	↓	↓				
LF-123	↓	15:30	03A-K	↓	↓	↓	↓	↓	↓	↓				Results to Kenton Gee

04/15/96 1545 Per Kenton Gee, dissolved As & Pb requested. Cancel total As, Pb. [illegible initials]

RELINQUISHED BY: (Signature) [illegible signature]	DATE 4/10/96	TIME 16:12	RECEIVED BY: (Signature) [illegible signature]	DATE 4-10-96	TIME 16:30
RELINQUISHED BY: (Signature) [illegible signature]	DATE 4-10-96	TIME 17:15	RECEIVED BY: (Signature) [illegible signature]	DATE 4/10/96	TIME 1715
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500

Analytical Laboratory: AEN

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. 86/COC/ARF

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

LEVINE-FRICKE
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

ATTN: KENTON GEE /
CLIENT PROJ. ID: 3435.00.02
CLIENT PROJ. NAME: SHERWIN WMS.
C.O.C. NUMBER: 14909

REPORT DATE: 05/08/96
DATE(S) SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
AEN WORK ORDER: 9604259

PROJECT SUMMARY:

On April 18, 1996, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

William Sotola for
Larry Klein
Laboratory Director

LEVINE-FRICKE

SAMPLE ID: EX-1
AEN LAB NO: 9604259-01A
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	1.1 *	0.5	ug/L	04/23/96
Toluene	108-88-3	0.9 *	0.5	ug/L	04/23/96
Ethylbenzene	100-41-4	5.4 *	0.5	ug/L	04/23/96
Xylenes, Total	1330-20-7	19 *	2	ug/L	04/23/96
Purgeable HCs as Gasoline	5030/GCFID	0.42 *	0.05	mg/L	04/23/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-1
AEN LAB NO: 9604259-01D
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/L	04/24/96
Benzene	71-43-2	ND	5	ug/L	04/24/96
Bromodichloromethane	75-27-4	ND	5	ug/L	04/24/96
Bromoform	75-25-2	ND	5	ug/L	04/24/96
Bromomethane	74-83-9	ND	10	ug/L	04/24/96
2-Butanone	78-93-3	ND	100	ug/L	04/24/96
Carbon Disulfide	75-15-0	ND	10	ug/L	04/24/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	04/24/96
Chlorobenzene	108-90-7	ND	5	ug/L	04/24/96
Chloroethane	75-00-3	ND	10	ug/L	04/24/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	04/24/96
Chloroform	67-66-3	ND	5	ug/L	04/24/96
Chloromethane	74-87-3	ND	10	ug/L	04/24/96
Dibromochloromethane	124-48-1	ND	5	ug/L	04/24/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	04/24/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	04/24/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	04/24/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	04/24/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	04/24/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	04/24/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	04/24/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	04/24/96
Ethylbenzene	100-41-4	6 *	5	ug/L	04/24/96
2-Hexanone	591-78-6	ND	50	ug/L	04/24/96
Methylene Chloride	75-09-2	ND	20	ug/L	04/24/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	04/24/96
Styrene	100-42-5	ND	5	ug/L	04/24/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	04/24/96
Tetrachloroethene	127-18-4	ND	5	ug/L	04/24/96
Toluene	108-88-3	ND	5	ug/L	04/24/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	04/24/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	04/24/96
Trichloroethene	79-01-6	ND	5	ug/L	04/24/96
Vinyl Acetate	108-05-4	ND	50	ug/L	04/24/96
Vinyl Chloride	75-01-4	ND	10	ug/L	04/24/96
Xylenes, Total	1330-20-7	20 *	10	ug/L	04/24/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-1
AEN LAB NO: 9604259-01G
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/22/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/24/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/24/96
Anthracene	120-12-7	ND	10	ug/L	04/24/96
Benzidine	92-87-5	ND	50	ug/L	04/24/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/24/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/24/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/24/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/24/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/24/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/24/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/24/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/24/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/24/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/24/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/24/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/24/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/24/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/24/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/24/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/24/96
Chrysene	218-01-9	ND	10	ug/L	04/24/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/24/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/24/96
Di-n-butyl Phthalate	84-74-2	170 *	10	ug/L	04/24/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/24/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/24/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/24/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/24/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/24/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/24/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/24/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/24/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/24/96
Fluoranthene	206-44-0	ND	10	ug/L	04/24/96
Fluorene	86-73-7	ND	10	ug/L	04/24/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/24/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/24/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/24/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/24/96

LEVINE-FRICKE

SAMPLE ID: EX-1
AEN LAB NO: 9604259-01G
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/24/96
Isophorone	78-59-1	ND	10	ug/L	04/24/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/24/96
Naphthalene	91-20-3	ND	10	ug/L	04/24/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/24/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/24/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/24/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/24/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/24/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/24/96
Phenanthrene	85-01-8	ND	10	ug/L	04/24/96
Pyrene	129-00-0	ND	10	ug/L	04/24/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/24/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/24/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/24/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/24/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/24/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/24/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/24/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/24/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/24/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/24/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/24/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/24/96
Phenol	108-95-2	ND	10	ug/L	04/24/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/24/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/24/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-1
AEN LAB NO: 9604259-01H
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/25/96
TPH as Diesel	GC-FID	4.3 *	0.05	mg/L	04/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-1
AEN LAB NO: 9604259-01J
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/18/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/25/96
Arsenic	EPA 7060	0.002 *	0.002	mg/L	04/29/96
Lead	EPA 7421	ND	0.002	mg/L	04/29/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-2
AEN LAB NO: 9604259-02A
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	110 *	50	ug/L	04/24/96
Toluene	108-88-3	18,000 *	50	ug/L	04/24/96
Ethylbenzene	100-41-4	1,000 *	50	ug/L	04/24/96
Xylenes, Total	1330-20-7	7,700 *	200	ug/L	04/24/96
Purgeable HCs as Gasoline	5030/GCFID	41 *	5	mg/L	04/24/96

RLs elevated due to high levels of target compounds.
Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-2
AEN LAB NO: 9604259-02D
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	50000	ug/L	04/29/96
Benzene	71-43-2	ND	3000	ug/L	04/29/96
Bromodichloromethane	75-27-4	ND	3000	ug/L	04/29/96
Bromoform	75-25-2	ND	3000	ug/L	04/29/96
Bromomethane	74-83-9	ND	5000	ug/L	04/29/96
2-Butanone	78-93-3	ND	50000	ug/L	04/29/96
Carbon Disulfide	75-15-0	ND	5000	ug/L	04/29/96
Carbon Tetrachloride	56-23-5	ND	3000	ug/L	04/29/96
Chlorobenzene	108-90-7	ND	3000	ug/L	04/29/96
Chloroethane	75-00-3	ND	5000	ug/L	04/29/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	5000	ug/L	04/29/96
Chloroform	67-66-3	ND	3000	ug/L	04/29/96
Chloromethane	74-87-3	ND	5000	ug/L	04/29/96
Dibromochloromethane	124-48-1	ND	3000	ug/L	04/29/96
1,1-Dichloroethane	75-34-3	ND	3000	ug/L	04/29/96
1,2-Dichloroethane	107-06-2	ND	3000	ug/L	04/29/96
1,1-Dichloroethene	75-35-4	ND	3000	ug/L	04/29/96
cis-1,2-Dichloroethene	156-59-2	ND	3000	ug/L	04/29/96
trans-1,2-Dichloroethene	156-60-5	ND	3000	ug/L	04/29/96
1,2-Dichloropropane	78-87-5	ND	3000	ug/L	04/29/96
cis-1,3-Dichloropropene	10061-01-5	ND	3000	ug/L	04/29/96
trans-1,3-Dichloropropene	10061-02-6	ND	3000	ug/L	04/29/96
Ethylbenzene	100-41-4	8,000 *	3000	ug/L	04/29/96
2-Hexanone	591-78-6	ND	30000	ug/L	04/29/96
Methylene Chloride	75-09-2	ND	10000	ug/L	04/29/96
4-Methyl-2-pentanone	108-10-1	ND	30000	ug/L	04/29/96
Styrene	100-42-5	ND	3000	ug/L	04/29/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	3000	ug/L	04/29/96
Tetrachloroethene	127-18-4	ND	3000	ug/L	04/29/96
Toluene	108-88-3	24,000 *	3000	ug/L	04/29/96
1,1,1-Trichloroethane	71-55-6	ND	3000	ug/L	04/29/96
1,1,2-Trichloroethane	79-00-5	ND	3000	ug/L	04/29/96
Trichloroethene	79-01-6	ND	3000	ug/L	04/29/96
Vinyl Acetate	108-05-4	ND	30000	ug/L	04/29/96
Vinyl Chloride	75-01-4	ND	5000	ug/L	04/29/96
Xylenes, Total	1330-20-7	10,000 *	5000	ug/L	04/29/96

LEVINE-FRICKE

SAMPLE ID: EX-2
AEN LAB NO: 9604259-02D
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

RLs elevated due to high levels of target compounds.
Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-2
AEN LAB NO: 9604259-02G
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/22/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	100	ug/L	05/03/96
Acenaphthylene	208-96-8	ND	100	ug/L	05/03/96
Anthracene	120-12-7	ND	100	ug/L	05/03/96
Benzidine	92-87-5	ND	500	ug/L	05/03/96
Benzoic Acid	65-85-0	ND	500	ug/L	05/03/96
Benzo(a)anthracene	56-55-3	ND	100	ug/L	05/03/96
Benzo(b)fluoranthene	205-99-2	ND	100	ug/L	05/03/96
Benzo(k)fluoranthene	207-08-9	ND	100	ug/L	05/03/96
Benzo(g,h,i)perylene	191-24-2	ND	100	ug/L	05/03/96
Benzo(a)pyrene	50-32-8	ND	100	ug/L	05/03/96
Benzyl Alcohol	100-51-6	ND	200	ug/L	05/03/96
Bis(2-chloroethoxy)methane	111-91-1	ND	100	ug/L	05/03/96
Bis(2-chloroethyl) Ether	111-44-4	ND	100	ug/L	05/03/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	100	ug/L	05/03/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	100	ug/L	05/03/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	100	ug/L	05/03/96
Butylbenzyl Phthalate	85-68-7	ND	100	ug/L	05/03/96
4-Chloroaniline	106-47-8	ND	200	ug/L	05/03/96
2-Chloronaphthalene	91-58-7	ND	100	ug/L	05/03/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	100	ug/L	05/03/96
Chrysene	218-01-9	ND	100	ug/L	05/03/96
Dibenzo(a,h)anthracene	53-70-3	ND	100	ug/L	05/03/96
Dibenzofuran	132-64-9	ND	100	ug/L	05/03/96
Di-n-butyl Phthalate	84-74-2	ND	100	ug/L	05/03/96
1,2-Dichlorobenzene	95-50-1	ND	100	ug/L	05/03/96
1,3-Dichlorobenzene	541-73-1	ND	100	ug/L	05/03/96
1,4-Dichlorobenzene	106-46-7	ND	100	ug/L	05/03/96
3,3'-Dichlorobenzidine	91-94-1	ND	200	ug/L	05/03/96
Diethyl Phthalate	84-66-2	ND	100	ug/L	05/03/96
Dimethyl Phthalate	131-11-3	ND	100	ug/L	05/03/96
2,4-Dinitrotoluene	121-14-2	ND	100	ug/L	05/03/96
2,6-Dinitrotoluene	606-20-2	ND	100	ug/L	05/03/96
Di-n-octyl Phthalate	117-84-0	ND	100	ug/L	05/03/96
Fluoranthene	206-44-0	ND	100	ug/L	05/03/96
Fluorene	86-73-7	ND	100	ug/L	05/03/96
Hexachlorobenzene	118-74-1	ND	100	ug/L	05/03/96
Hexachlorobutadiene	87-68-3	ND	100	ug/L	05/03/96
Hexachlorocyclopentadiene	77-47-4	ND	100	ug/L	05/03/96
Hexachloroethane	67-72-1	ND	100	ug/L	05/03/96

LEVINE-FRICKE

SAMPLE ID: EX-2
AEN LAB NO: 9604259-02G
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	100	ug/L	05/03/96
Isophorone	78-59-1	ND	100	ug/L	05/03/96
2-Methylnaphthalene	91-57-6	ND	100	ug/L	05/03/96
Naphthalene	91-20-3	ND	100	ug/L	05/03/96
2-Nitroaniline	88-74-4	ND	500	ug/L	05/03/96
3-Nitroaniline	99-09-2	ND	500	ug/L	05/03/96
4-Nitroaniline	100-01-6	ND	500	ug/L	05/03/96
Nitrobenzene	98-95-3	ND	100	ug/L	05/03/96
N-Nitrosodiphenylamine	86-30-6	ND	100	ug/L	05/03/96
N-Nitrosodi-n-propylamine	621-64-7	ND	100	ug/L	05/03/96
Phenanthrene	85-01-8	ND	100	ug/L	05/03/96
Pyrene	129-00-0	ND	100	ug/L	05/03/96
1,2,4-Trichlorobenzene	120-82-1	ND	100	ug/L	05/03/96
4-Chloro-3-methylphenol	59-50-7	ND	100	ug/L	05/03/96
2-Chlorophenol	95-57-8	ND	100	ug/L	05/03/96
2,4-Dichlorophenol	120-83-2	ND	100	ug/L	05/03/96
2,4-Dimethylphenol	105-67-9	310 *	100	ug/L	05/03/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	500	ug/L	05/03/96
2,4-Dinitrophenol	51-28-5	ND	500	ug/L	05/03/96
2-Methylphenol	95-48-7	290 *	100	ug/L	05/03/96
4-Methylphenol	106-44-5	130 *	100	ug/L	05/03/96
2-Nitrophenol	88-75-5	ND	100	ug/L	05/03/96
4-Nitrophenol	100-02-7	ND	500	ug/L	05/03/96
Pentachlorophenol	87-86-5	ND	500	ug/L	05/03/96
Phenol	108-95-2	ND	100	ug/L	05/03/96
2,4,5-Trichlorophenol	95-95-4	ND	100	ug/L	05/03/96
2,4,6-Trichlorophenol	88-06-2	ND	100	ug/L	05/03/96

RLs elevated due to high levels of target compounds.
Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-2
AEN LAB NO: 9604259-02H
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/25/96
TPH as Diesel	GC-FID	1.3 *	0.05	mg/L	04/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-2
AEN LAB NO: 9604259-02J
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/18/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/25/96
Arsenic	EPA 7060	9.3 *	0.002	mg/L	04/29/96
Lead	EPA 7421	ND	0.002	mg/L	04/29/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-3
AEN LAB NO: 9604259-03A
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	0.9 *	0.5	ug/L	04/24/96
Toluene	108-88-3	ND	0.5	ug/L	04/24/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	04/24/96
Xylenes, Total	1330-20-7	ND	2	ug/L	04/24/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	04/24/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-3
AEN LAB NO: 9604259-03D
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	5000	ug/L	04/27/96
Benzene	71-43-2	ND	300	ug/L	04/27/96
Bromodichloromethane	75-27-4	ND	300	ug/L	04/27/96
Bromoform	75-25-2	ND	300	ug/L	04/27/96
Bromomethane	74-83-9	ND	500	ug/L	04/27/96
2-Butanone	78-93-3	ND	5000	ug/L	04/27/96
Carbon Disulfide	75-15-0	ND	500	ug/L	04/27/96
Carbon Tetrachloride	56-23-5	ND	300	ug/L	04/27/96
Chlorobenzene	108-90-7	ND	300	ug/L	04/27/96
Chloroethane	75-00-3	ND	500	ug/L	04/27/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	500	ug/L	04/27/96
Chloroform	67-66-3	ND	300	ug/L	04/27/96
Chloromethane	74-87-3	ND	500	ug/L	04/27/96
Dibromochloromethane	124-48-1	ND	300	ug/L	04/27/96
1,1-Dichloroethane	75-34-3	ND	300	ug/L	04/27/96
1,2-Dichloroethane	107-06-2	ND	300	ug/L	04/27/96
1,1-Dichloroethene	75-35-4	ND	300	ug/L	04/27/96
cis-1,2-Dichloroethene	156-59-2	ND	300	ug/L	04/27/96
trans-1,2-Dichloroethene	156-60-5	ND	300	ug/L	04/27/96
1,2-Dichloropropane	78-87-5	ND	300	ug/L	04/27/96
cis-1,3-Dichloropropene	10061-01-5	ND	300	ug/L	04/27/96
trans-1,3-Dichloropropene	10061-02-6	ND	300	ug/L	04/27/96
Ethylbenzene	100-41-4	ND	300	ug/L	04/27/96
2-Hexanone	591-78-6	ND	3000	ug/L	04/27/96
Methylene Chloride	75-09-2	ND	1000	ug/L	04/27/96
4-Methyl-2-pentanone	108-10-1	ND	3000	ug/L	04/27/96
Styrene	100-42-5	ND	300	ug/L	04/27/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	300	ug/L	04/27/96
Tetrachloroethene	127-18-4	ND	300	ug/L	04/27/96
Toluene	108-88-3	ND	300	ug/L	04/27/96
1,1,1-Trichloroethane	71-55-6	ND	300	ug/L	04/27/96
1,1,2-Trichloroethane	79-00-5	ND	300	ug/L	04/27/96
Trichloroethene	79-01-6	ND	300	ug/L	04/27/96
Vinyl Acetate	108-05-4	ND	3000	ug/L	04/27/96
Vinyl Chloride	75-01-4	ND	500	ug/L	04/27/96
Xylenes, Total	1330-20-7	ND	500	ug/L	04/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-3
AEN LAB NO: 9604259-03G
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/22/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	04/24/96
Acenaphthylene	208-96-8	ND	10	ug/L	04/24/96
Anthracene	120-12-7	ND	10	ug/L	04/24/96
Benzidine	92-87-5	ND	50	ug/L	04/24/96
Benzoic Acid	65-85-0	ND	50	ug/L	04/24/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	04/24/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	04/24/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	04/24/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	04/24/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	04/24/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	04/24/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	04/24/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	04/24/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	04/24/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	04/24/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	04/24/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	04/24/96
4-Chloroaniline	106-47-8	ND	20	ug/L	04/24/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	04/24/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	04/24/96
Chrysene	218-01-9	ND	10	ug/L	04/24/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	04/24/96
Dibenzofuran	132-64-9	ND	10	ug/L	04/24/96
Di-n-butyl Phthalate	84-74-2	18 *	10	ug/L	04/24/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	04/24/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	04/24/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	04/24/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	04/24/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	04/24/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	04/24/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	04/24/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	04/24/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	04/24/96
Fluoranthene	206-44-0	ND	10	ug/L	04/24/96
Fluorene	86-73-7	ND	10	ug/L	04/24/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	04/24/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	04/24/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	04/24/96
Hexachloroethane	67-72-1	ND	10	ug/L	04/24/96

LEVINE-FRICKE

SAMPLE ID: EX-3
AEN LAB NO: 9604259-03G
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	04/24/96
Isophorone	78-59-1	ND	10	ug/L	04/24/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	04/24/96
Naphthalene	91-20-3	ND	10	ug/L	04/24/96
2-Nitroaniline	88-74-4	ND	50	ug/L	04/24/96
3-Nitroaniline	99-09-2	ND	50	ug/L	04/24/96
4-Nitroaniline	100-01-6	ND	50	ug/L	04/24/96
Nitrobenzene	98-95-3	ND	10	ug/L	04/24/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	04/24/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	04/24/96
Phenanthrene	85-01-8	ND	10	ug/L	04/24/96
Pyrene	129-00-0	ND	10	ug/L	04/24/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	04/24/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	04/24/96
2-Chlorophenol	95-57-8	ND	10	ug/L	04/24/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	04/24/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	04/24/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	04/24/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	04/24/96
2-Methylphenol	95-48-7	ND	10	ug/L	04/24/96
4-Methylphenol	106-44-5	ND	10	ug/L	04/24/96
2-Nitrophenol	88-75-5	ND	10	ug/L	04/24/96
4-Nitrophenol	100-02-7	ND	50	ug/L	04/24/96
Pentachlorophenol	87-86-5	ND	50	ug/L	04/24/96
Phenol	108-95-2	ND	10	ug/L	04/24/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	04/24/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	04/24/96

RLs elevated due to high levels of non-target compounds - sample run at dilution. See page for further comments pertaining to this sample.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-3
AEN LAB NO: 9604259-03H
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	04/25/96
TPH as Diesel	GC-FID	0.43 *	0.05	mg/L	04/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-3
AEN LAB NO: 9604259-03J
AEN WORK ORDER: 9604259
CLIENT PROJ. ID: 3435.00.02

DATE SAMPLED: 04/18/96
DATE RECEIVED: 04/18/96
REPORT DATE: 05/08/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	-		Filtr Date	04/18/96
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	04/25/96
Arsenic	EPA 7060	200 *	0.002	mg/L	04/29/96
Lead	EPA 7421	ND	0.002	mg/L	04/29/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9604259

CLIENT PROJECT ID: 3435.00.02

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604259
AEN LAB NO: 0425-BLANK
DATE EXTRACTED: 04/25/96
DATE ANALYZED: 04/27/96
INSTRUMENT: A
MATRIX: WATER

Method Blank

Analyte	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	0.05

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9604259
DATE(S) EXTRACTED: 04/25/96
INSTRUMENT: A
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
04/27/96	EX-1	01	103
04/27/96	EX-2	02	105
04/27/96	EX-3	03	98
QC Limits:			59-118

DATE EXTRACTED: 04/23/96
DATE ANALYZED: 04/23/96
SAMPLE SPIKED: 9603343-09
INSTRUMENT: A

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	4.00	92	2	58-107	15

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604259
AEN LAB NO: 0423-BLANK
DATE ANALYZED: 04/23/96
INSTRUMENT: H
MATRIX: WATER

Method Blank

	CAS #	Result (mg/L)	Reporting Limit (mg/L)
HCs as Gasoline		ND	0.05

AEN LAB NO: 0424-BLANK
DATE ANALYZED: 04/24/96
INSTRUMENT: H
MATRIX: WATER

Method Blank

	CAS #	Result (mg/L)	Reporting Limit (mg/L)
HCs as Gasoline		ND	0.05

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604259
INSTRUMENT: H
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
04/23/96	EX-1	01	107
04/24/96	EX-2	02	92
04/24/96	EX-3	03	107
QC Limits:			70-130

DATE ANALYZED: 04/22/96
SAMPLE SPIKED: 9604240-04
INSTRUMENT: H

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Hydrocarbons as Gasoline	500	106	5	66-117	19

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604259
AEN LAB NO: 0424-BLANK
DATE ANALYZED: 04/24/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604259
AEN LAB NO: 0427-BLANK
DATE ANALYZED: 04/27/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604259
AEN LAB NO: 0429-BLANK
DATE ANALYZED: 04/29/96
INSTRUMENT: 13
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9604259
INSTRUMENT: 13
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 1,2-Dichloroethane-d_4	Toluene-d_8	p-Bromofluorobenzene
04/24/96	EX-1	01	88	97	100
04/29/96	EX-2	02	114	94	104
04/27/96	EX-3	03	108	92	99
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 04/23/96
SAMPLE SPIKED: 9604260-02
INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
1,1-Dichloroethene	50	95	5	59-155	25
Trichloroethene	50	106	6	71-157	25
Benzene	50	117	7	37-151	25
Toluene	50	112	7	47-150	25
Chlorobenzene	50	110	9	37-160	25

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604259
AEN LAB NO: 0422-BLANK
DATE EXTRACTED: 04/22/96
DATE ANALYZED: 04/24/96
INSTRUMENT: 11
MATRIX: WATER

Method Blank

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzidine	92-87-5	ND	50
Benzoic Acid	65-85-0	ND	50
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Benzyl Alcohol	100-51-6	ND	20
Bis(2-chloroethoxy)methane	111-91-1	ND	10
Bis(2-chloroethyl)ether	111-44-4	ND	10
Bis(2-chloroisopropyl)ether	108-60-1	ND	10
Bis(2-ethylhexyl)phthalate	117-81-7	ND	10
4-Bromophenyl phenyl ether	101-55-3	ND	10
Butylbenzyl phthalate	85-68-7	ND	10
4-Chloroaniline	106-47-8	ND	20
2-Chloronaphthalene	91-58-7	ND	10
4-Chlorophenyl phenylether	7005-72-3	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Di-n-butylphthalate	84-74-2	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
3,3'-Dichlorobenzidine	91-94-1	ND	20
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
2,4-Dinitrotoluene	121-14-2	ND	10
2,6-Dinitrotoluene	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
1,2-Diphenylhydrazine	122-66-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604259
AEN LAB NO: 0422-BLANK
DATE EXTRACTED: 04/22/96
DATE ANALYZED: 04/24/96
INSTRUMENT: 11
MATRIX: WATER

Method Blank (Cont.)

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
2-Nitroaniline	88-74-4	ND	50
3-Nitroaniline	99-09-2	ND	50
4-Nitroaniline	100-01-6	ND	50
Nitrobenzene	98-95-3	ND	10
N-nitrosodimethylamine	62-75-9	ND	10
N-nitrosodiphenylamine	86-30-6	ND	10
N-nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
4,6-Dinitro-2-methylphenol	534-52-1	ND	50
2,4-Dinitrophenol	51-28-5	ND	50
2-Methylphenol	95-48-7	ND	10
4-Methylphenol	106-44-5	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	50
Pentachlorophenol	87-86-5	ND	50
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9604259
DATES EXTRACTED: 04/22/96
INSTRUMENT: 11
MATRIX: WATER

Surrogate Standard Recovery Summary

			Percent Recovery					
Date Analyzed	Client Id.	Lab Id.	2-Fluoro-phenol	Phenol-d_5	Nitro-benzene-d_5	2-Fluoro-biphenyl	2,4,6-Tri-bromophenol	Terphenyl-d_{14}
04/24/96	EX-1	01	75	84	92	84	115	78
05/03/96	EX-2	02	D	D	D	D	D	D
04/24/96	EX-3	03	72	87	85	78	106	70
QC Limits:			21-100	10-94	35-114	43-116	10-123	33-141

D: Surrogates diluted out.

DATE EXTRACTED: 04/22/96
DATE ANALYZED: 04/24/96
SAMPLE SPIKED: LCS
INSTRUMENT: 11

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	QC Limits Percent Recovery
Phenol	220	83	5-112
2-Chlorophenol	209	83	23-134
1,4-Dichlorobenzene	208	79	20-124
N-Nitrosodi-n-propylamine	212	117	0-230
1,2,4-Trichlorobenzene	209	65	44-142
4-Chloro-3-methylphenol	205	92	22-147
Acenaphthene	202	94	47-145
4-Nitrophenol	216	74	0-132
2,4-Dinitrotoluene	211	82	0-112
Pentachlorophenol	210	53	14-176
Pyrene	217	100	52-115

QUALITY CONTROL DATA

AEN JOB NO: 9604259
SAMPLE SPIKED: DI WATER
DATE(S) ANALYZED: 04/29/96
MATRIX: WATER

Method Blank and Spike Recovery Summary

Analyte	Inst./ Method	Blank Result (mg/L)	Spike Added (mg/L)	MS Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
As, Arsenic	4000/7060	ND	0.04	104	3	69-136	13
Pb, Lead	4000/7421	ND	0.02	92	5	75-125	14

END OF REPORT

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9604259

Project No.: 3435.00.02	Field Logbook No.:	Date: 4-18-96	Serial No.: № 14909
Project Name: Sherwin Williams	Project Location: Emeryville		
Sampler (Signature): Jeff M. Rogers			Samplers: JMR

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	TPHg	EPA 8240	EPA 8270	TPHd	Dissolved As & Pb		HOLD	RUSH	REMARKS
EX-1	4-18-96	11:35	01A-J	10	H2O	X	X	X	X	X				
EX-2	↓	11:50	02A-J	10	↓	↓	↓	↓	↓	↓				STD TAT
EX-3	↓	12:10	03A J	10	↓	↓	↓	↓	↓	↓				
														Dissolved As & Pb to be filtered in lab
														Results to Kenton Gee

RELINQUISHED BY: (Signature) Jeff M Rogers	DATE 4-18-96	TIME 1700	RECEIVED BY: (Signature) Michael E Schuller	DATE 4-18-96	TIME 1700
RELINQUISHED BY: (Signature) Michael E Schuller	DATE 4-18-96	TIME 1700	RECEIVED BY: (Signature) Dana M Bellmer	DATE 4/18/96	TIME 1700
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500

Analytical Laboratory: AEN

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARF

APPENDIX B

METHODOLOGIES USED FOR INSTALLATION AND DEVELOPMENT OF NEW WELLS

METHODOLOGIES USED FOR INSTALLATION AND DEVELOPMENT OF NEW WELLS

The appropriate permits were obtained from the Alameda County Flood Control and Water Conservation District (Zone 7) before drilling and installation of the proposed groundwater monitoring and extraction wells began. In addition, Sherwin-Williams negotiated access with the Southern Pacific Transportation Company for installation of replacement wells LF-23, LF-24, and LF-25.

An underground utility locator (Cruz Brothers) identified the locations of subsurface structures and utility lines at each well location before drilling activities began. Underground Services Alert (USA) was notified before initiation of drilling activities so that the locations of public utilities could be identified.

Ten A-zone monitoring wells (LF-17, LF-18, LF-19, LF-20, LF-21, LF-22, LF-23, LF-24, LF-25, and LF-26) were completed to depths ranging from 14.5 to 23 feet below ground surface (bgs). A-zone extraction wells EX-1, EX-2, and EX-3 were completed to depths of 20, 19, and 20 feet bgs, respectively. B-zone monitoring wells LF-B5 and LF-B6 were double cased and were completed to a depths of 44 and 40 feet bgs, respectively.

All wells were installed by the hollow-stem auger drilling method. All augers and sampling equipment were steam cleaned before use at each well location. Soil samples were collected continuously, and were used to characterize the subsurface lithology. Soil samples and drill cuttings were monitored with an organic vapor meter (OVM) to test for the presence of volatile organic compounds (VOCs) in the soil for health and safety purposes.

With the exception of well LF-17, A-zone monitoring wells were completed with 2-inch-diameter polyvinyl chloride (PVC) casing in an 8-inch-diameter borehole, with 10 feet of slotted screen. Well LF-17 was completed with 5 feet of slotted screen. A-zone extraction wells were completed with 5-inch-diameter PVC casing and 5-inch-diameter stainless steel screen in a 12-inch-diameter borehole, with 15 feet of slotted screen.

The two B-zone monitoring wells were installed as double-cased wells using the hollow-stem auger method. A 12-inch-diameter hole was drilled to install an 8-inch-diameter steel conductor casing in the A zone to seal off chemically affected shallow groundwater from the B-zone groundwater during well construction. The total depths of the steel casing in wells LF-B5 and LF-B6 are 28 and 24 feet bgs, respectively. The conductor casing was cemented in place using a neat cement grout with approximately 5 percent bentonite. The cement was allowed to set for at least 24 hours before drilling resumed.

A 6-inch hollow-stem auger was then used to drill a smaller-diameter well boring through the inside the conductor casing to the total depth. The B-zone monitoring wells were then completed with 2-inch-diameter PVC casing, with 10 feet of slotted screen.

After the well casing had been placed in the completed borehole, the well annulus opposite the perforated interval was backfilled with clean sand to a height of approximately 2 feet above the top of the perforations. Approximately 2 feet of bentonite pellets were then placed above the sand pack to isolate the perforated interval from material above and inhibit the entrance of grout into the sand pack. A cement-bentonite grout was then placed in the remainder of the borehole. A locking cover was then placed over the top of the casing to protect the integrity of the well.

Soil cuttings generated during drilling are being stored in an on-site storage bin until an appropriate disposal method is determined.

Top-of-casing measurements and horizontal location for all of the wells (existing and new wells on and off Sherwin-Williams property) were then collected by a licensed surveyor (Nolte and Associates Inc.).

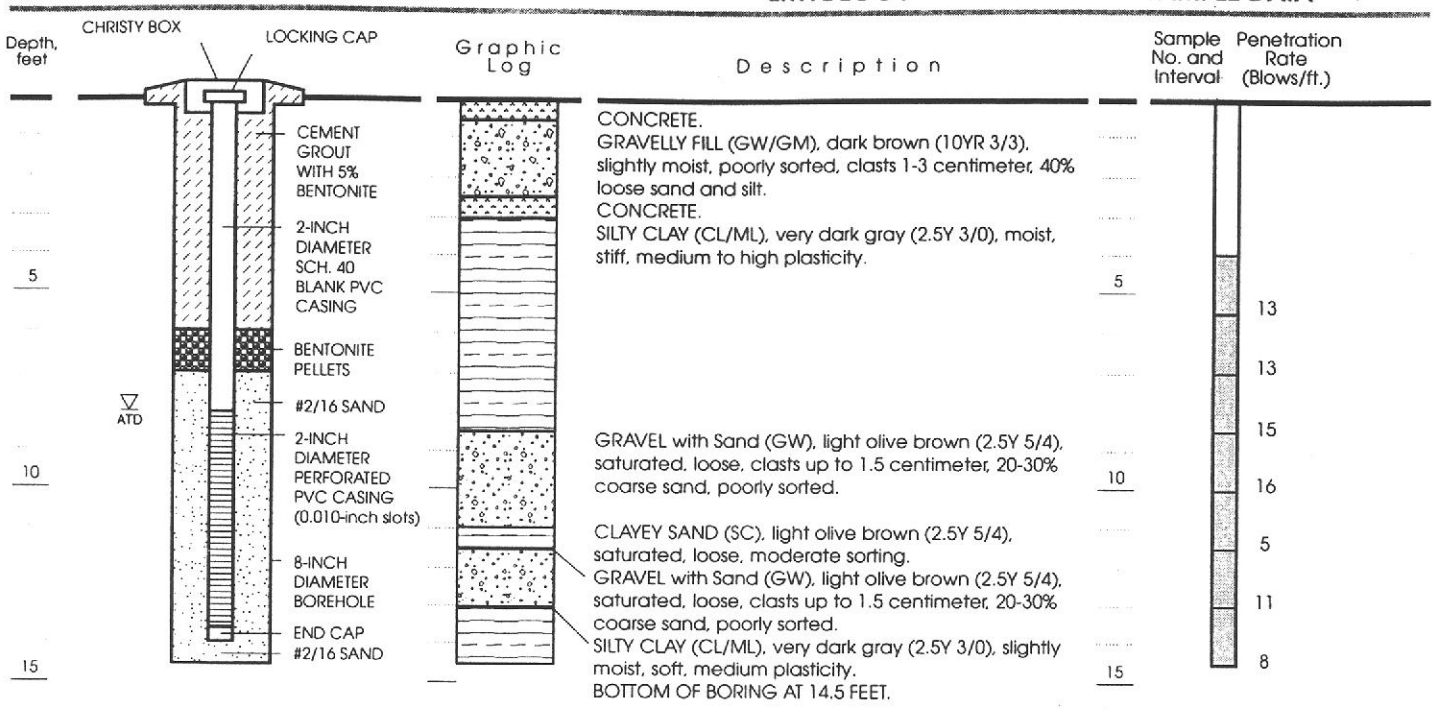
Development of the newly installed wells took place following well installation. The newly installed wells were developed by bailing, swabbing, and pumping to remove sediment from around the well and to enhance hydraulic communication with the surrounding formation.

During well development, approximately 10 well volumes of water was removed from each well. Specific conductance, pH, and temperature were measured during this purging process to aid in evaluation of groundwater quality. Observations concerning quantity and clarity of water withdrawn were also recorded during this process. All developing and sampling equipment was steam cleaned before use at each well.

Groundwater generated from the well development was transported in a portable storage tank to the on-site groundwater treatment system for disposal.

APPENDIX C

LITHOLOGY AND WELL CONSTRUCTION LOGS



Well Permit No.: 96048
Date well drilled: February 1, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow stem auger
LF Geologist: James P. Schwartz

EXPLANATION

- Clay
- Silt
- Sand
- Gravel
- Interval sampled using Modified California Sampler
- ATD Water level at time of drilling

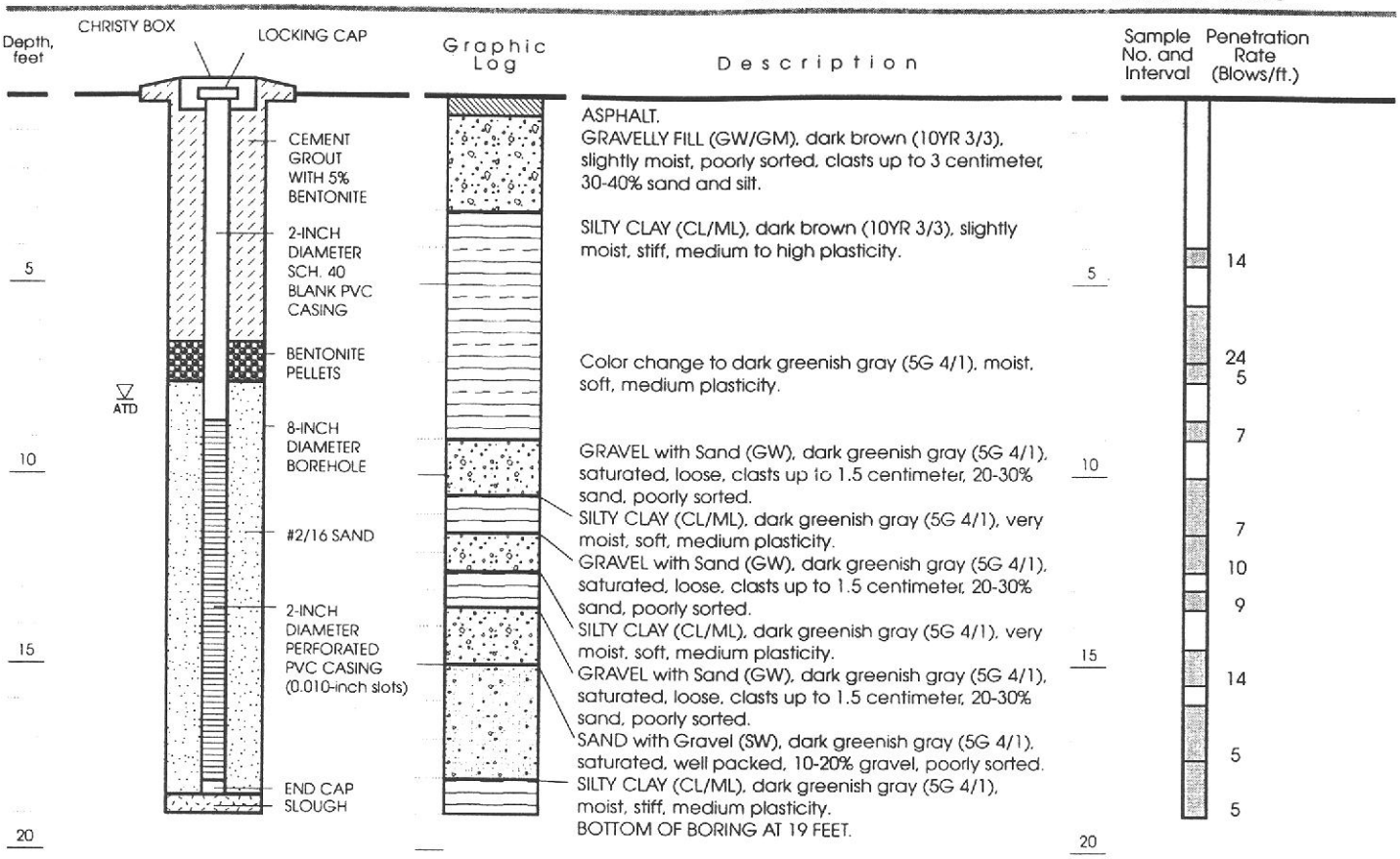
Approved by: MBM

WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-17

Project No. 3435

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

3435L006.CDR 070296RYL:KAG



Well Permit No.: 96048
Date well drilled: February 5, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow-stem auger
LF Geologist: James P. Schwartz

EXPLANATION

- Clay
- Silt
- Sand
- Gravel
- Interval sampled using Modified California Sampler
- ATD Water level at time of drilling

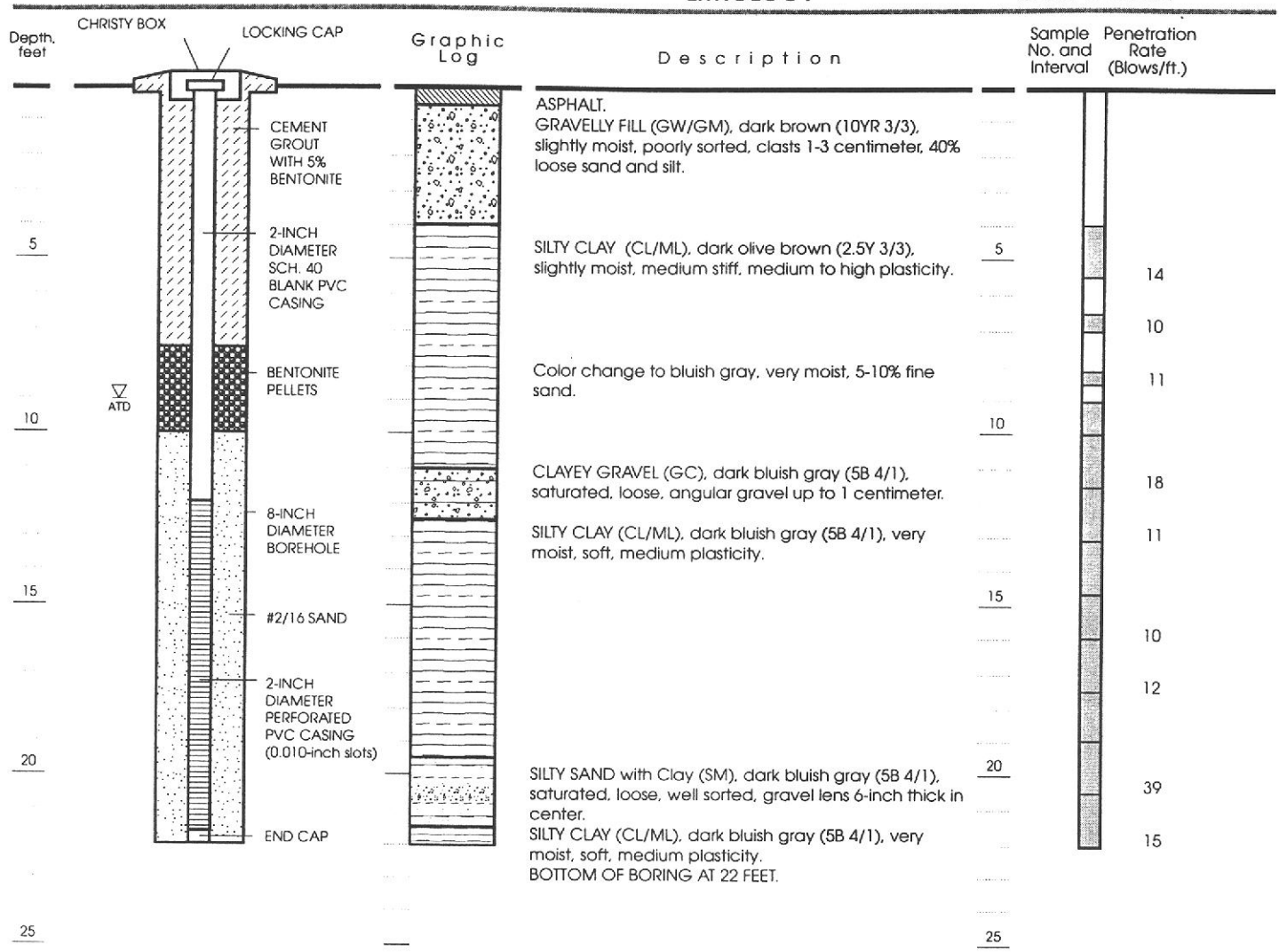
Approved by: MTBM

WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-18

Project No. 3435

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

3435L007.CDR 070296RYL:KAG



Well Permit No.: 96048
Date well drilled: January 30, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow-stem auger
LF Geologist: James P. Schwartz

EXPLANATION

Clay
Silt
Sand
Gravel
Interval sampled using Modified California Sampler
ATD Water level at time of drilling

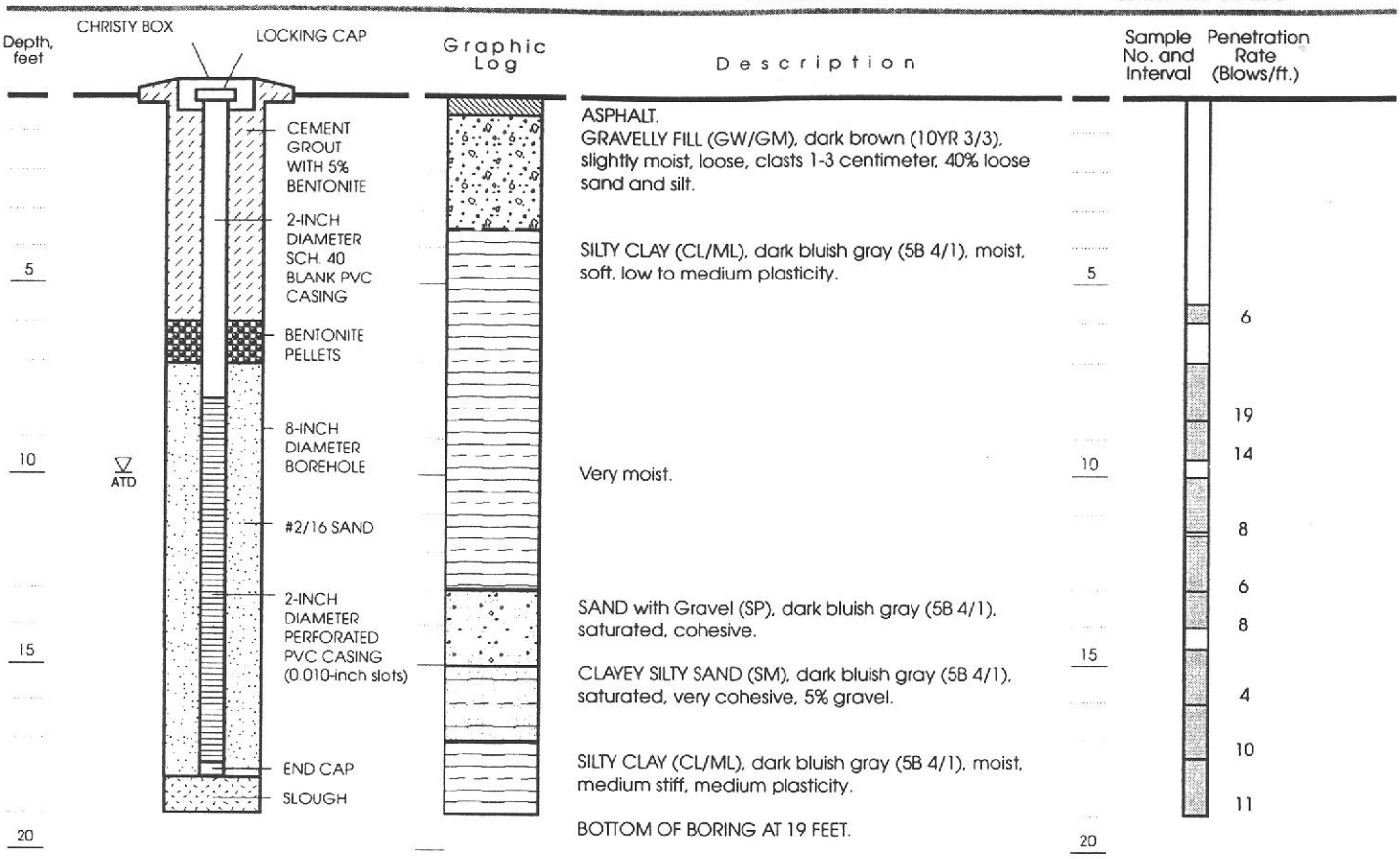
Approved by: MTBM

WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-19

Project No. 3435

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

3435L008.CDR 070296RYL:KAG



Well Permit No.: 96048
Date well drilled: February 5, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow-stem auger
LF Geologist: James P. Schwartz

EXPLANATION

- Clay
- Silt
- Sand
- Gravel
- Interval sampled using Modified California Sampler
- ATD Water level at time of drilling

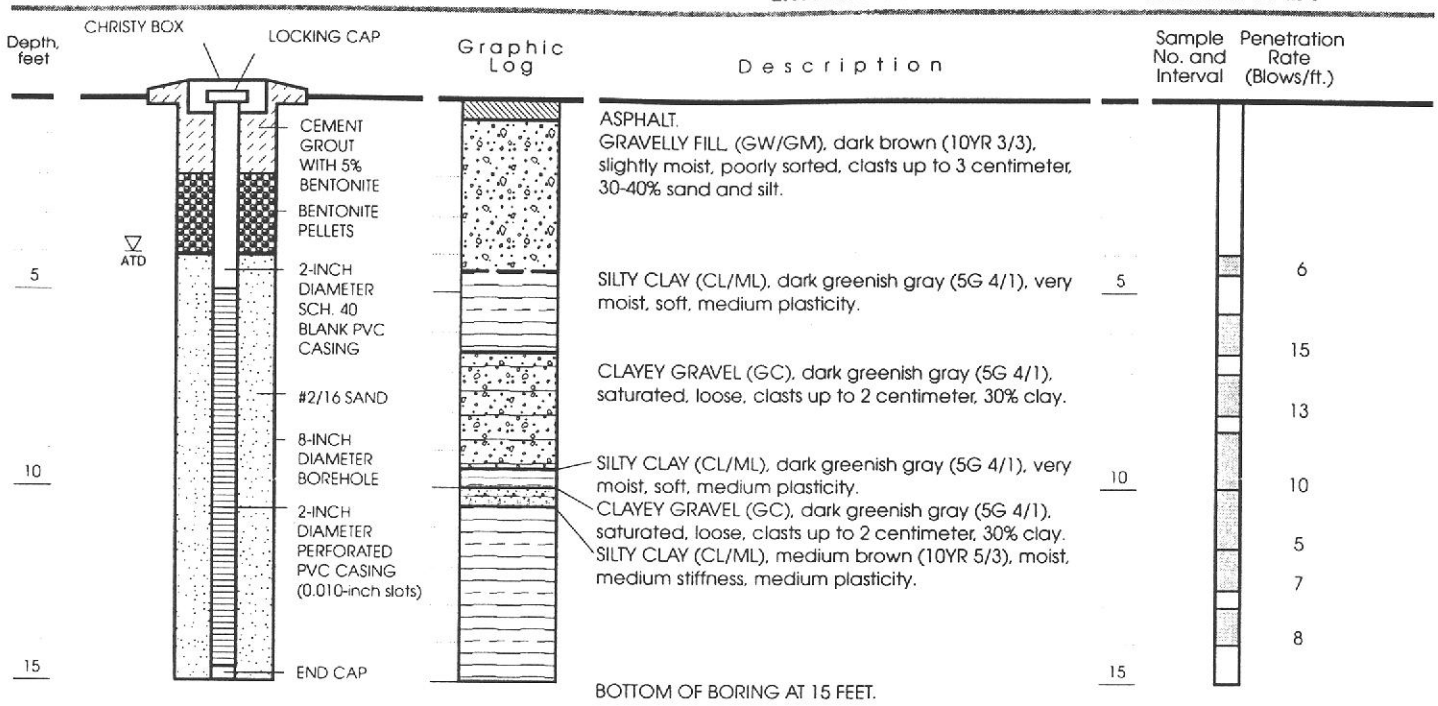
Approved by: MPSM

WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-20

Project No. 3435

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

3435L009.CDR 070296RYL:KAG



Well Permit No.: 96048
Date well drilled: February 5, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow-stem auger
LF Geologist: James P. Schwartz

EXPLANATION

- Clay
- Silt
- Sand
- Gravel
- Interval sampled using Modified California Sampler
- ATD — Water level at time of drilling

Approved by: MPM

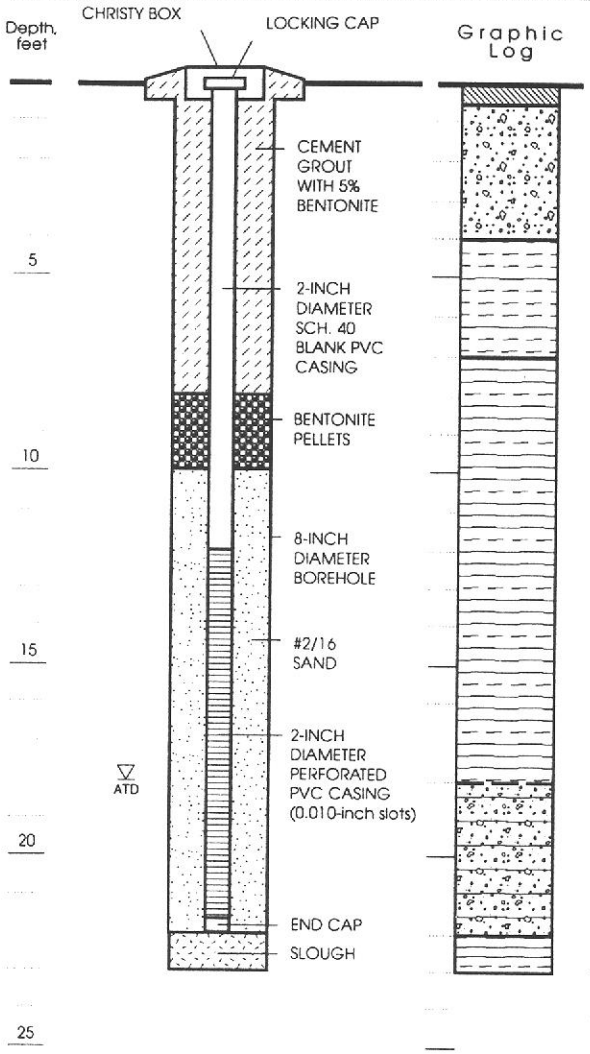
WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-21

Project No. 3435

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

3435L010.CDR 070296RYL:KAG

WELL CONSTRUCTION



LITHOLOGY

Description

ASPHALT.

GRAVELLY FILL (GW/GM), dark brown (410YR 3/3), slight moist, clasts 1-3centimeters, poorly sorted (loose sand and silt~40%).

CLAYEY SILT (ML/CL), very dark gray (10YR 3/1), slight moist, soft, medium to low plasticity, 5-10% fine sand.

SILTY CLAY (CL/ML), dark brown (10YR 4/3), moist, medium to high plasticity.

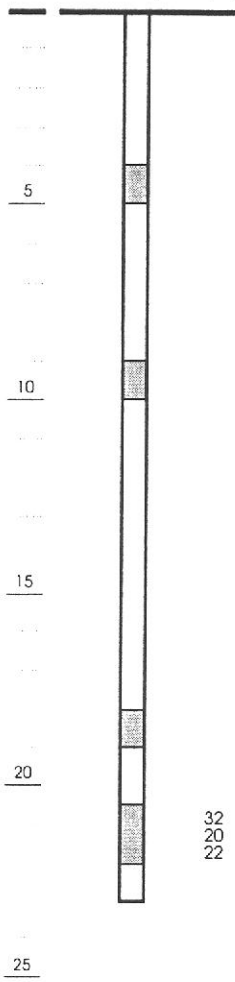
GRAVEL with Clay and Sand (GW/GC), light olive green (5Y 6/3), saturated, loose, subangular to subrounded clasts from 0.25-2-centimeters in diameter well graded.

Color change to brown (10YR 5/3).

SILTY CLAY (CL/ML), dark olive green (5Y 3/3), saturated, medium to high plasticity.

BOTTOM OF BORING AT 23 FEET.

SAMPLE DATA



Well Permit No.: 96048
Date well drilled: January 30, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow stem auger
LF Geologist: James P. Schwartz

EXPLANATION

- Clay
- Silt
- Sand
- Gravel
- Interval sampled using Modified California Sampler
- ATD — Water level at time of drilling

Approved by: MBM

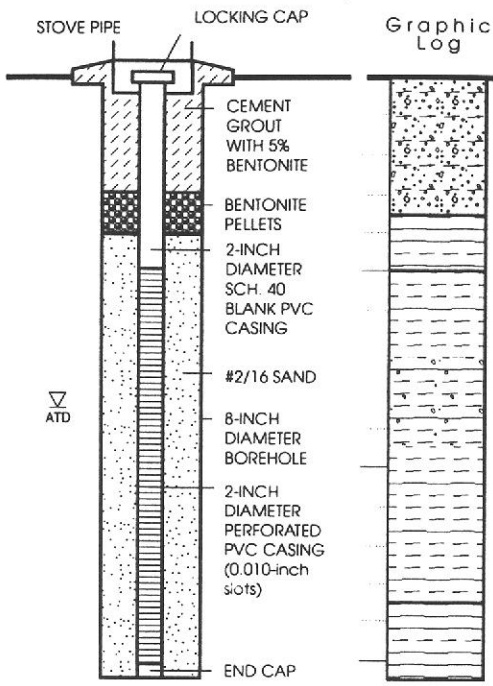
WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-22

Project No. 3435

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

3435L004.CDR 070296RYL:KAG

WELL CONSTRUCTION



LITHOLOGY

Description

SILTY GRAVEL (GM).

Saturated.

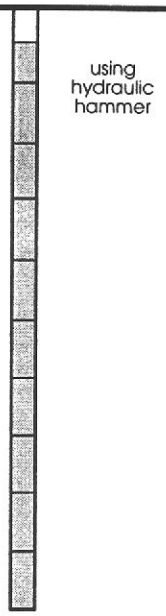
SILTY CLAY (CL/ML), black, moist, medium stiff, medium plasticity, trace gravel (0.5 to 1 centimeter)
CLAYEY SILT (ML/CL), gray mottled with brown, very moist, medium to low plasticity, medium stiff, roots, root holes.

5-inch coarse of GRAVELLY SILT (ML), gray brown, saturated, low plasticity, 30% gravel ~.5 centimeter well sorted.
CLAYEY SILT (ML/CL), brown mottled with gray, saturated.

SILTY CLAY (CL/ML), bluish gray, moist, medium to high plasticity, stiff.

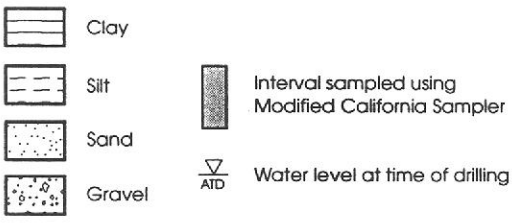
BOTTOM OF BORING AT 15.5 FEET.

SAMPLE DATA



Well Permit No.: 96048
Date well drilled: April 5, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow-stem auger
LF Geologist: Robin W. Barber

EXPLANATION



Approved by: MBM

WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-23

Project No. 3435

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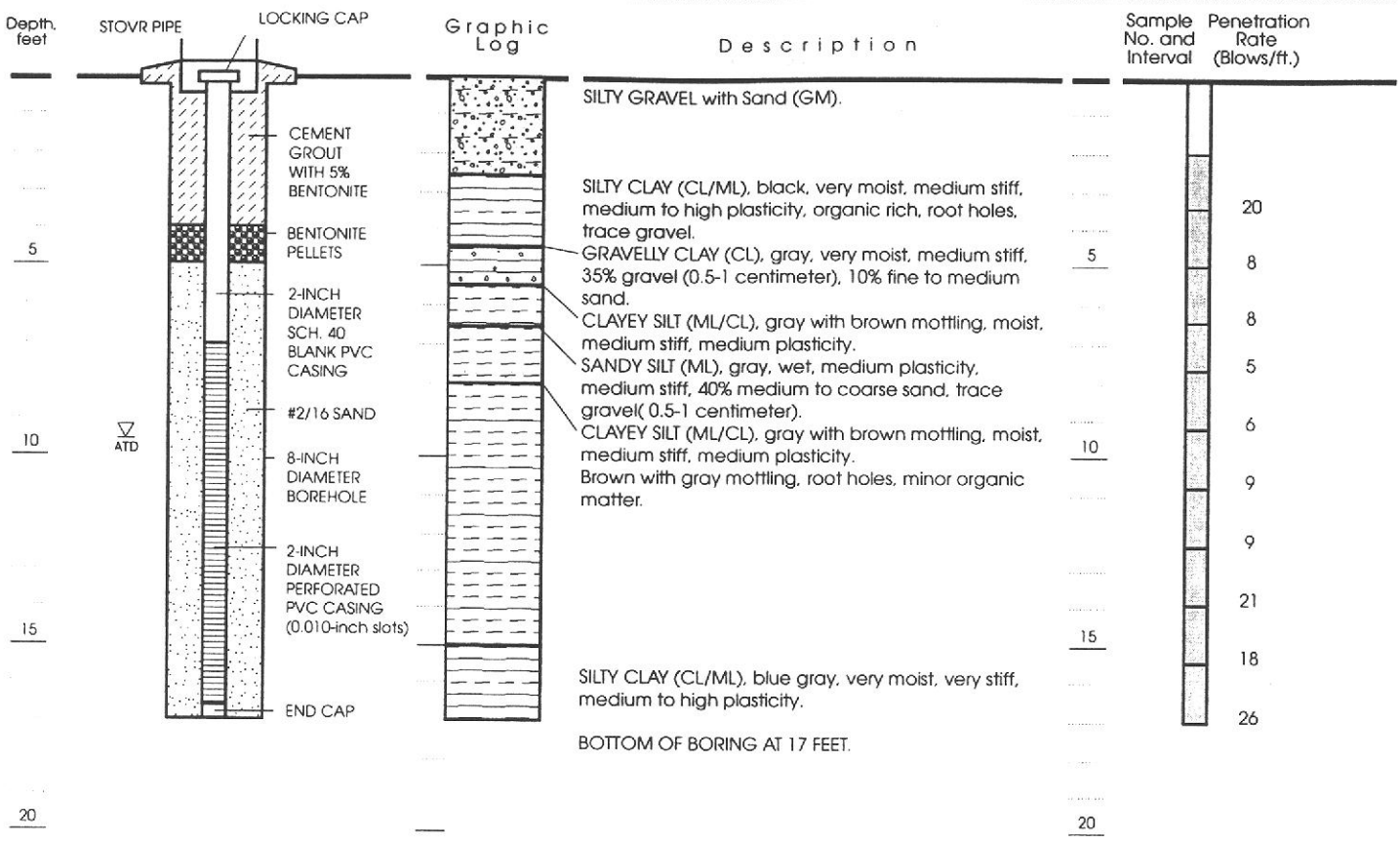
3435L011.CDR 070296RYL:KAG



Well Permit No.: 96048
Date well drilled: April 4, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow-stem auger
LF Geologist: Robin W. Barber

EXPLANATION

- Clay
- Silt
- Sand
- Gravel
- Interval sampled using Modified California Sampler
- ATD Water level at time of drilling

Approved by: MBM

WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-24

Project No. 3435

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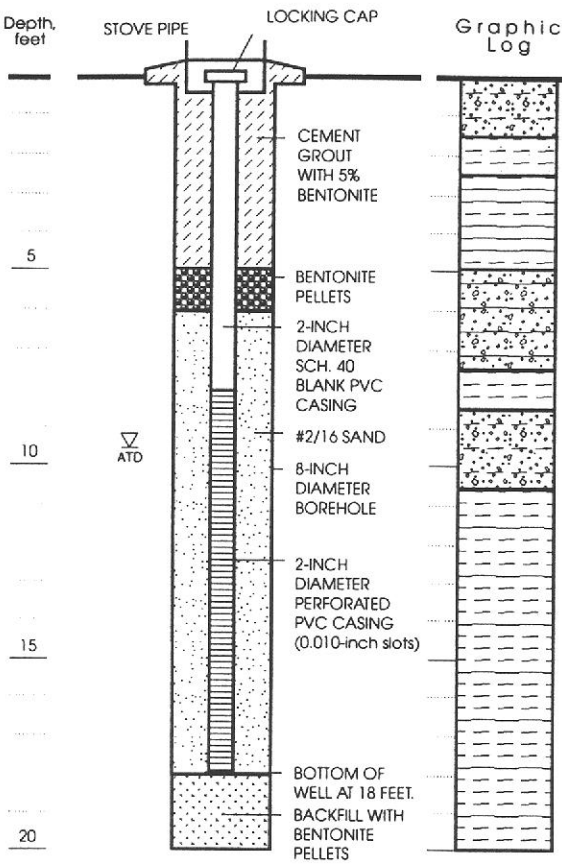
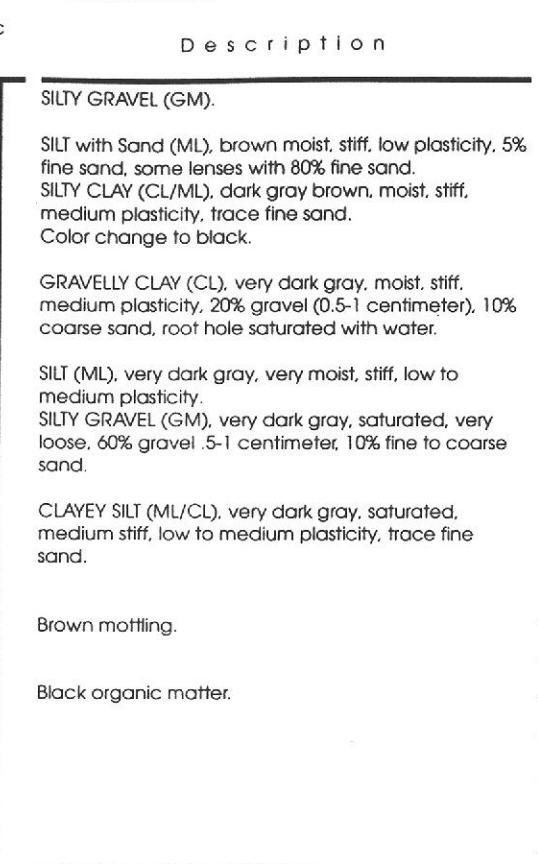
3435L012.CDR 070296RYL:KAG

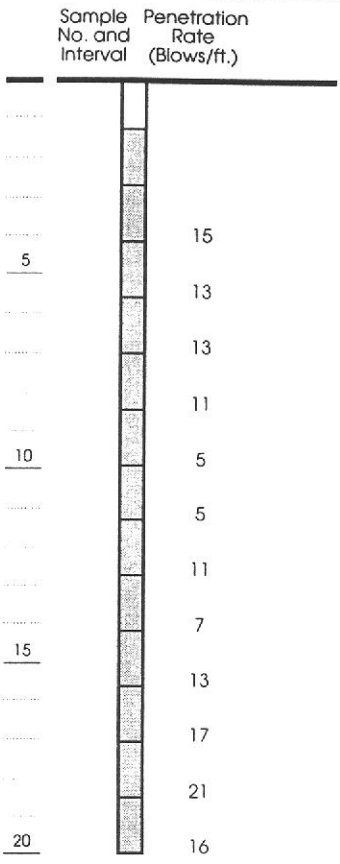
WELL CONSTRUCTION



LITHOLOGY



SAMPLE DATA



Well Permit No.: 96048
Date well drilled: April 4, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow-stem auger
LF Geologist: Robin W. Barber

EXPLANATION

- Clay
- Silt
- Sand
- Gravel
- Interval sampled using Modified California Sampler
- ATD Water level at time of drilling

Approved by: MBM

WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-25

Project No. 3435

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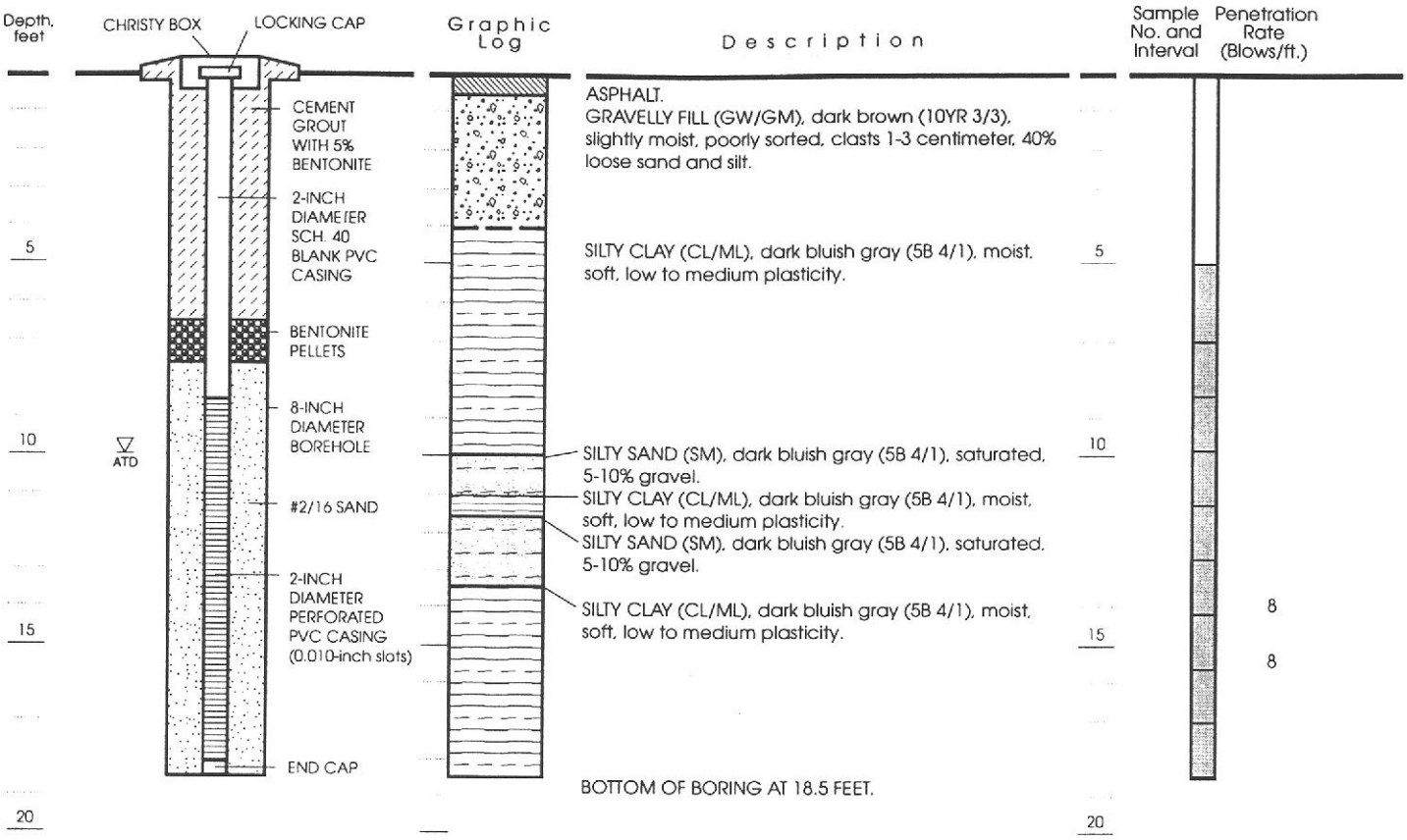
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

3435L013.CDR 070296RYL:KAG



Well Permit No.: 96048
Date well drilled: January 30, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow-stem auger
LF Geologist: James P. Schwartz

EXPLANATION

Clay
Silt
Sand
Gravel
Interval sampled using Modified California Sampler
ATD Water level at time of drilling

Approved by: MBM

WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-26

Project No. 3435

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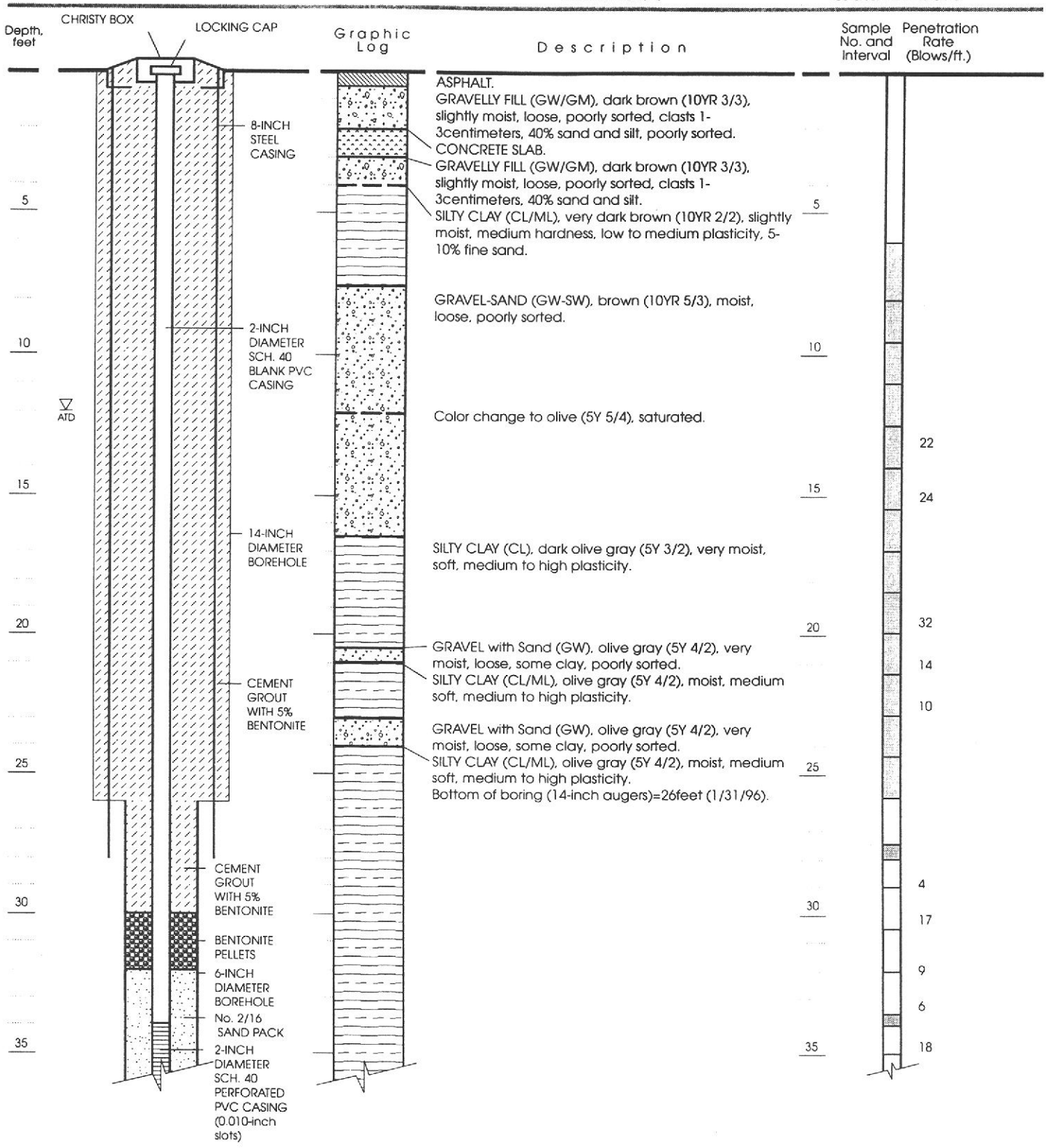
3435L014.CDR 070296RYL:KAG



WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-B5 *(page 1 of 2)*

Project No. 3435

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3435L005.CDR 070296RYL:KAG

WELL CONSTRUCTION		LITHOLOGY		SAMPLE DATA	
Depth, feet	Cont'd....	Graphic Log	Description	Sample No. and Interval	Penetration Rate (Blows/ft.)
			SILTY CLAY (CL/ML), olive gray (5Y 4/2), moist, medium soft, medium to high plasticity.		21
					21
40				40	24
					21
	END CAP		BOTTOM OF BORING AT 44 FEET.		
45				45	

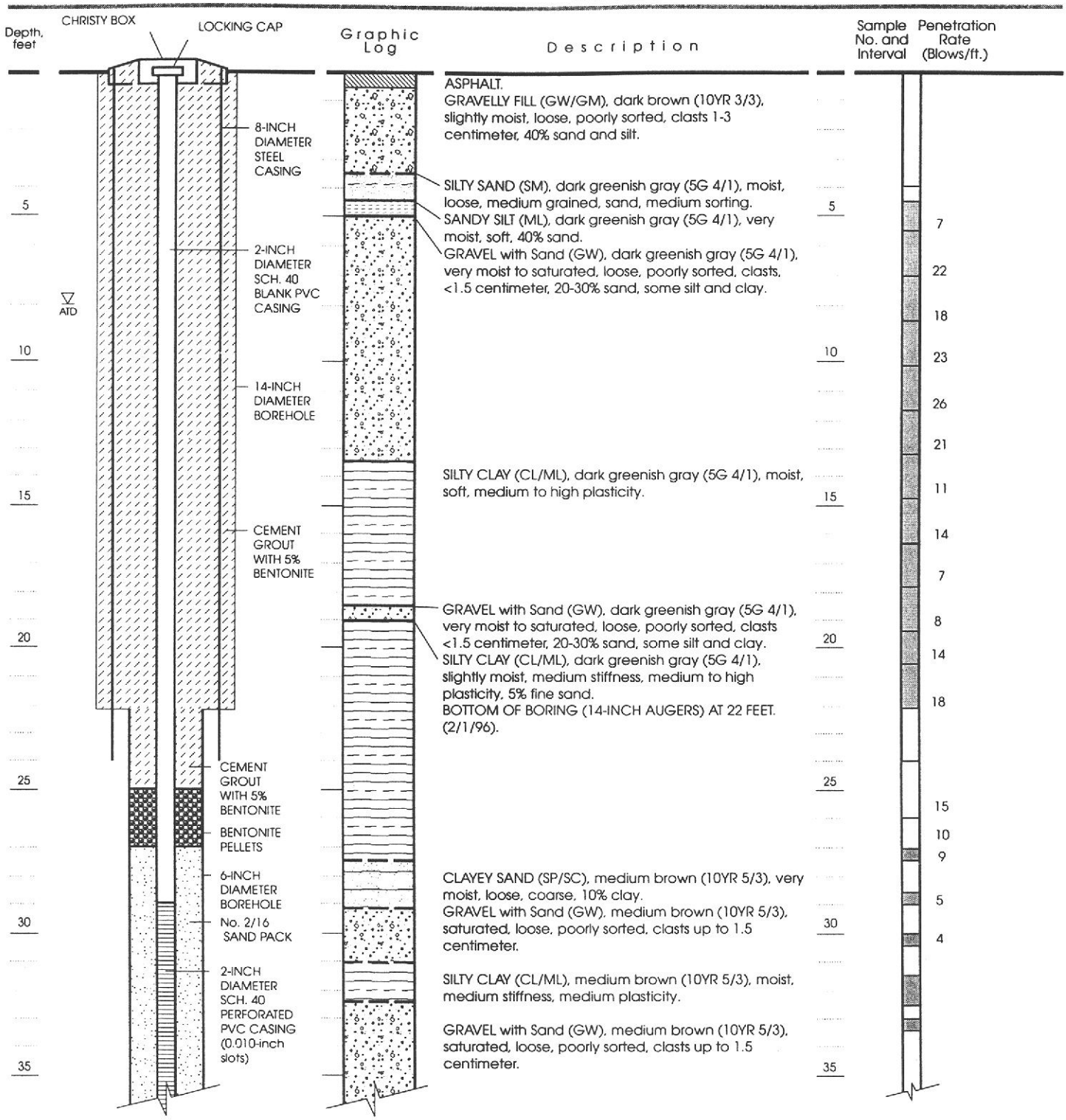
Well Permit No.: 96048
Date well drilled: January 31 and February 2, 1996
Drilling company: Gregg Drilling
Sampling Method: Modified California Sampler
Drillind method: Hollow-stem auger
LF Geologist: James P. Schwartz

EXPLANATION

- Clay
- Silt
- Sand
- Gravel
- Interval sampled using Modified California Sampler
- ATD Water level at time of drilling

Approved by: MPBM

WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-B5 *(page 2 of 2)*



WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-B6 *(page 1 of 2)*

Project No. 3435

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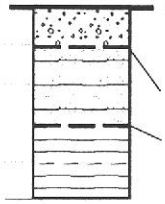
3435L015.CDR 070296RYL:KAG

WELL CONSTRUCTION		LITHOLOGY		SAMPLE DATA	
Depth, feet	Cont'd....	Graphic Log	Description	Sample No. and Interval	Penetration Rate (Blows/ft.)
			GRAVEL with Sand (GW), medium brown (10YR 5/3), saturated, loose, poorly sorted, clasts up to 1.5 centimeter.		NS
			CLAYEY SAND (SP/SC), medium brown (10YR 5/3), very moist, loose, coarse, 10% clay.		57
	END CAP		SILTY CLAY (CL/ML), medium brown (10YR 5/3), moist, medium stiffness, medium pasticity.		
40	SLOUGH		BOTTOM OF BORING AT 40 FEET.	40	



Well Permit No.: 96048
Date well drilled: February 1 & 2, 1996
Drilling company: Gregg Drilling
Sampling Method: Modfied California Sampler
Drillind method: Hollow-stem auger
LF Geologist: James P. Schwartz

EXPLANATION

- Clay
- Silt
- Sand
- Gravel
- Interval sampled using Modified California Sampler
- ATD — Water level at time of drilling

Approved by: MBM

WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-B6 *(page 2 of 2)*

Project No. 3435

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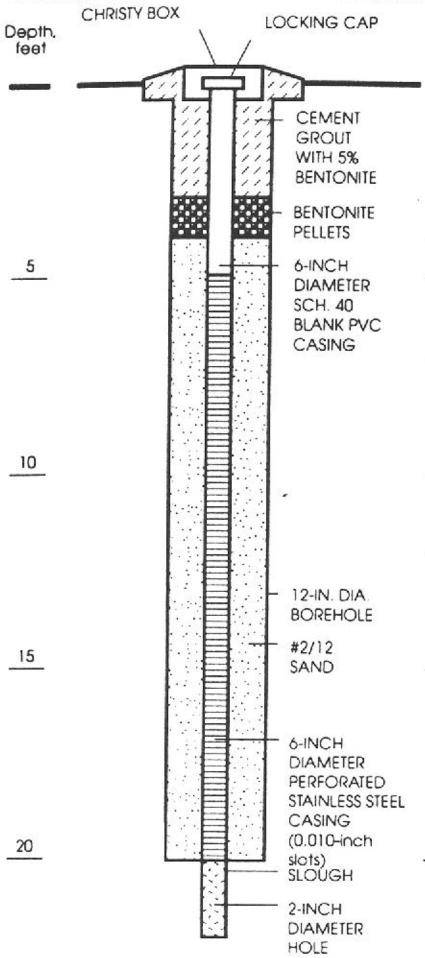
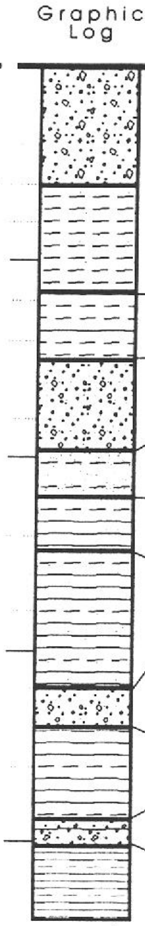
3435L015.CDR 070296RYL:KAG

WELL CONSTRUCTION | LITHOLOGY | SAMPLE DATA (HEADSPACE MEASUREMENTS)





Description

GRAVEL (GP), FILL.

SANDY SILT (ML), black (10YR 4/4), moist, loose, dense, very low plasticity.

CLAYEY SILT (MC), dark yellowish brown (10YR 4/4), moist, dense, very low plasticity.

SANDY GRAVEL (GP), dark brown (10YR 3/4), wet, loose, pebbles up to 3/4-inch diameter, poorly sorted, sand medium to grained , minor clay.

SILTY SAND (SM), olive gray (5Y 4/2), wet, medium grained, well sorted, minor clay.

CLAYEY SILTY SAND (SP), olive gray (5Y 4/2), wet, soft, low plasticity, fine grained, well sorted.

SILTY SANDY CLAY (CL), dark yellowish brown (10YR 3/6), very moist, (10YR 5/1), soft, medium plasticity, sand fine grained.

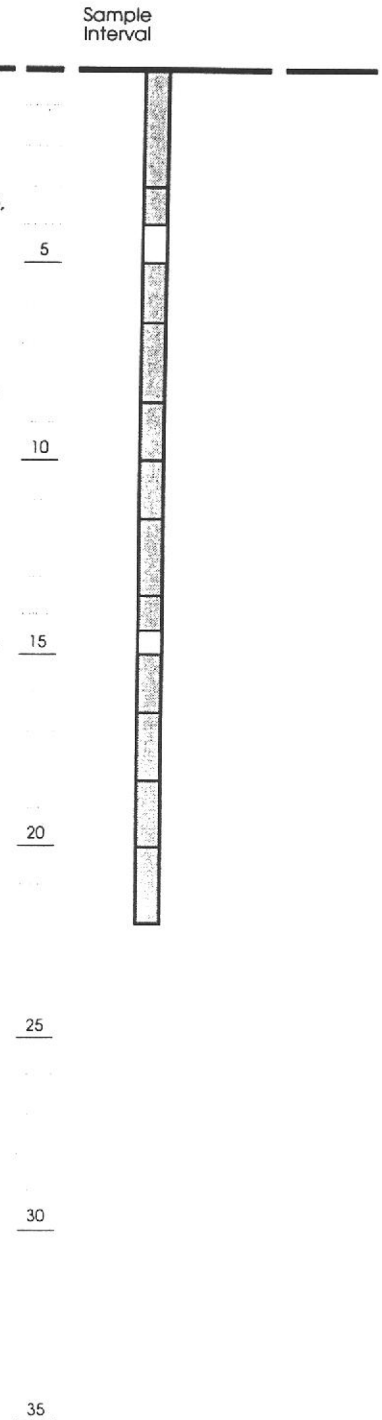
SANDY GRAVEL (GP), dark yellowish brown (10YR 3/4), wet, loose, pebbles up to 1/4-inch diameter, subround, poorly sorted, sand medium to coarse grained.

SILTYCLAY (CL), dark blue gray (SB 4/1), moist, soft, medium plasticity, minor very fine sand.

SANDY CLAYEY GRAVEL (GP), dark greenish gray (SG 4/1), wet, pebbles up to 1/2-inch diameter poorly sorted.

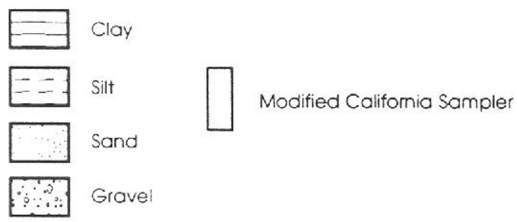
SILTY CLAY (CL), dark greenish gray (5G 4/1), moist, medium stiff, medium to high plasticity.

BOTTOM OF BORING AT 22 FEET.
BOTTOM OF DRIVE SAMPLE AT 22.0 FEET.



Well Permit No.:	95425
Date well drilled:	July 17, 1995
Drilling company:	Gregg
Sampling Method:	Continuous
Drillind method:	Hollow stem auger
LF Geologist:	Kenton Gee

EXPLANATION



Approved by: [signature] 5300

Figure : WELL CONSTRUCTION AND LITHOLOGY FOR WELL EX-3

Project No. 3435.01

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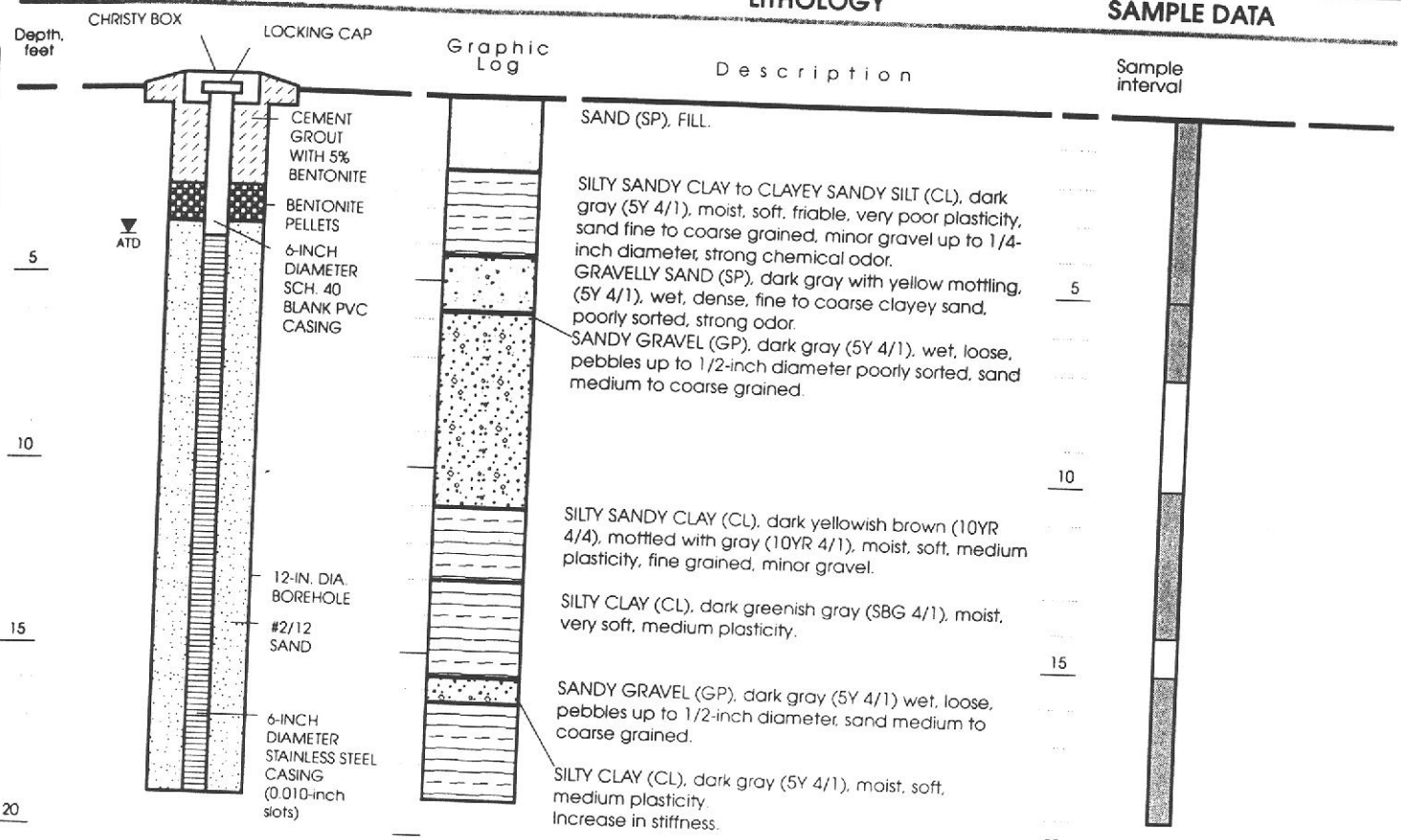
3435L003 KAG:JSM 101095



Well Permit No.: 95425
Date well drilled: July 17, 1995
Drilling company: Gregg
Sampling Method: Continuous
Drillind method: Hollow stem auger
LF Geologist: Kenton Gee

EXPLANATION

Clay
Silt
Sand
Gravel
Modified California Sampler
ATD Water level at time of drilling

Approved by: [signature] RG 5300

Figure : WELL CONSTRUCTION AND LITHOLOGY FOR WELL EX-2

Project No. 3435.01

3435L002.KAG.JSM 013196

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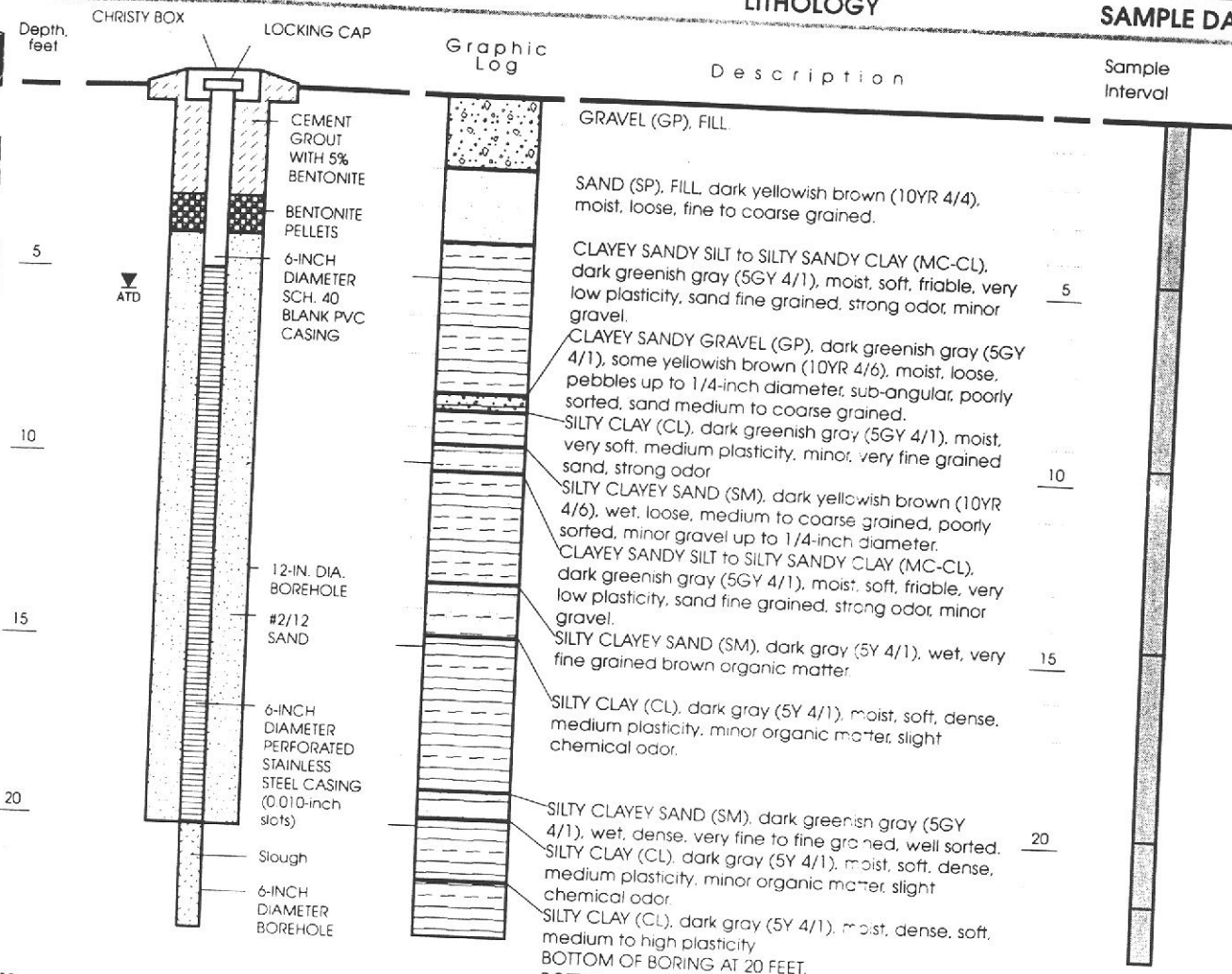

Well Permit No.:	95425
Date well drilled:	July 17, 1995
Drilling company:	Gregg
Sampling Method:	Continuous
Drillind method:	Hollow stem auger
LF Geologist	Kenton Gee

EXPLANATION

Clay

Silt

Sand

Gravel

Modified California Sampler

ATD Water level at time of drilling

Approved by: David J. Duncan RG-5306

Figure : WELL CONSTRUCTION AND LITHOLOGY FOR WELL EX-1

Project No. 3435.01

3435L001.KAG:JSM 013196

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