

**Report of Quarterly Groundwater Monitoring  
for April 1 to June 30, 1997  
for the  
The Sherwin-Williams Plant  
Emeryville, California**

**August 20, 1997  
3435.00-004**

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

 **Levine-Fricke-Recon**  
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

August 20, 1997

3435.00-004

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

Subject: Quarterly Groundwater Monitoring Report for April 1 to June 30, for the  
Sherwin-Williams Plant, Emeryville, California

Dear Mr. Johnson:

The enclosed report presents the results of the quarterly groundwater monitoring program conducted in June and July 1997 for the Sherwin-Williams plant in Emeryville, California ("the Site"). This is the fifth groundwater monitoring event following completion of interim remedial measures and recent installation of additional site monitoring wells.

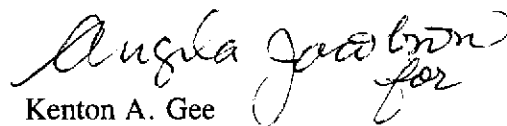
The quarterly monitoring program included measuring groundwater elevations and collecting and analyzing groundwater samples. The samples were analyzed for volatile organic compounds using EPA Method 8240, total petroleum hydrocarbon compounds as diesel using EPA Method 3510, total petroleum hydrocarbon compounds as gasoline using EPA Method 5030, and arsenic using EPA Method 7060.

If you have any questions or comments, please call either of the undersigned or Mike Marsden at (510) 652-4500, or Larry Mencin of Sherwin-Williams at (216) 566-1765.

Sincerely,



Michael B. Marsden, R.G.  
Senior Hydrogeologist



Kenton A. Gee  
Project Hydrogeologist

Enclosure

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## CONTENTS

CERTIFICATION .....	iii
1.0 INTRODUCTION AND SCOPE.....	1
2.0 GROUNDWATER ELEVATIONS AND FLOW DIRECTIONS .....	1
3.0 GROUNDWATER QUALITY SAMPLING .....	2
4.0 GROUNDWATER QUALITY ANALYSIS RESULTS.....	3
4.1 A-Zone Water Quality .....	3
4.1.1 Volatile Organic Compounds.....	3
4.1.2 Total Petroleum Hydrocarbons as Diesel .....	3
4.1.3 Total Petroleum Hydrocarbons as Gasoline .....	3
4.1.4 Inorganic Compounds as Arsenic.....	3
4.2 B-Zone Water Quality.....	4
4.2.1 Volatile Organic Compounds.....	4
4.2.2 Total Petroleum Hydrocarbons as Diesel .....	4
4.2.3 Total Petroleum Hydrocarbons as Gasoline .....	4
4.2.4 Inorganic Compounds as Arsenic.....	4
5.0 QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES AND RESULTS.....	5
REFERENCE.....	6
TABLES	
1	Groundwater Elevation Data, May 1997
2	Summary of Historical Volatile Organic Compounds in Groundwater Monitoring Wells
3	Summary of Historical Total Petroleum Hydrocarbons as Diesel and Gasoline in Groundwater Monitoring Wells
4	Summary of Historical Inorganic Compounds in Groundwater Monitoring Wells
FIGURES	
1	Site Location Map

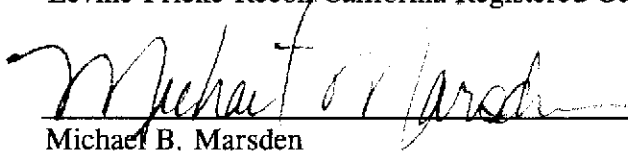
- 2 Site Plan
- 3 A-Zone Groundwater Elevation Map, May 30, 1997
- 4 B-Zone Groundwater Elevation Map, May 30, 1997
- 5 Volatile Organic Compounds, EPA Method 8240, A-Zone Groundwater, June-July 1997
- 6 Total Petroleum Hydrocarbons as Diesel, A-Zone and B-Zone Groundwater, June-July 1997
- 7 Total Petroleum Hydrocarbons as Gasoline, A-Zone and B-Zone Groundwater, June-July 1997
- 8 Concentrations of Arsenic, A-Zone Groundwater, June-July 1997
- 9 Volatile Organic Compounds, EPA Method 8240, B-Zone Groundwater, June-July 1997
- 10 Concentrations of Arsenic, B-Zone Groundwater, June-July 1997

#### APPENDIX

- A Summary of QA/QC
  - A-1 Summary of Sampling QA/QC
  - A-2 Summary of Analytical QA/QC
  - A-3 Common Reporting Limits for Groundwater Sample Analyses

**CERTIFICATION**

All hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Levine·Fricke·Recon California Registered Geologist.

 8-20-97

Michael B. Marsden  
Senior Hydrogeologist  
California Registered Geologist (6536)

Date

## 1.0 INTRODUCTION AND SCOPE

Levine·Fricke·Recon Inc. (LFR) has prepared this quarterly groundwater monitoring report for April 1 to June 30, 1997, on behalf of 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 in Emeryville, California ("the Site"; Figures 1 and 2). This report describes the fifth monitoring event following completion of remedial construction measures and installation of new monitoring wells at the Site.

LFR conducted the quarterly groundwater monitoring for April 1 to June 30, 1997, in June and July 1997. Collection of groundwater samples in wells LF-12, LF-B4, EX-1, EX-2, and EX-3 were delayed on July 1, 1997, due to access issues in the area of the Horton Street remediation project. The quarterly monitoring activities conducted this quarter included the following:

- Groundwater levels were measured in on- and off-site monitoring wells (LF-3, LF-7, LF-8, 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-26, LF-B3, LF-B4, LF-B5, LF-B6, EX-1, EX-2, EX-3, and Rifkin Property wells RP-1 through RP-5 and MW-1 through MW-5).
- Groundwater samples were collected from 11 A-zone monitoring wells located outside the site slurry wall, three extraction wells located inside the site slurry wall, and all four B-zone monitoring wells were analyzed for volatile organic compounds (VOCs) using EPA Method 8240, 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 arsenic using EPA Method 7060.

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

## 2.0 GROUNDWATER ELEVATIONS AND FLOW DIRECTIONS

Groundwater elevations were measured on May 30, 1997. Groundwater elevation data are presented in Table 1. 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, the A-zone groundwater flow direction outside the slurry wall is generally toward the northwest with flow directions changing in isolated areas. The A-zone groundwater flow direction inside the slurry wall is significantly affected by the three extraction wells with flow generally moving radially toward the extraction wells.

The groundwater flow contours as shown in Figure 3 indicate that groundwater flow in the A-zone on May 30, 1997 was affected by the slurry wall and the on-site groundwater extraction and treatment system.



The inconsistency of A-zone groundwater flow direction contours inside the slurry wall compared to A-zone groundwater flow direction contours outside the slurry wall indicate that the slurry wall is acting as a barrier to flow and the A-zone groundwater is being contained and prevented from moving off site.

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

### 3.0 GROUNDWATER QUALITY SAMPLING

Levine·Fricke·Recon personnel collected groundwater samples for chemical analysis from June 11 to June 13, 1997 from A-zone monitoring wells LF-3, LF-11, LF-13, LF-18, LF-19, LF-20, LF-21, LF-23, LF-24, and LF-25, and B-zone monitoring wells LF-B3, LF-B5, and LF-B6. LFR collected groundwater samples for chemical analysis from A-zone extraction wells EX-1, EX-2, and EX-3, A-zone monitoring well LF-12, and B-zone monitoring well LF-B4 on July 1, 1997.

Well LF-19 has historically only been used for collecting groundwater elevation data as a paired well with LF-7. A groundwater sample was also collected from LF-19 for chemical analysis during this quarterly event for the first time.

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 data sheets are on file at LFR. Appendix A includes a Quality Assurance/Quality Control (QA/QC) review of groundwater quality data.

## **4.0 GROUNDWATER QUALITY ANALYSIS RESULTS**

### **4.1 A-Zone Water Quality**

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

#### **4.1.1 Volatile Organic Compounds**

VOC analytical results for samples collected from A-zone wells, outside the slurry wall during this sampling event, were below the reported laboratory detection limits with the exception of the samples from wells LF-3 and LF-23. Groundwater collected from well LF-3 contained 7.0 parts per million (ppm) ethylbenzene, 31.0 ppm total xylenes, and 70.0 ppm toluene. Groundwater collected from well LF-11 contained 0.016 ppm carbon disulfide, a common laboratory contaminant. Well LF-19 sampled for chemical analyses for the first time, indicated VOC levels below laboratory detection limits.

#### **4.1.2 Total Petroleum Hydrocarbons as Diesel**

Relatively low hydrocarbon concentrations of TPHd (1.1 ppm or less) were detected in samples from A-zone wells located outside the slurry wall (see Table 3 and Figure 6). TPHd concentrations for wells LF-12 and LF-13 did not exceed the detection limit of 0.050 ppm. Well LF-19, sampled for chemical analyses for the first time, indicated TPHd concentrations at 0.60 ppm.

#### **4.1.3 Total Petroleum Hydrocarbons as Gasoline**

With the exception of wells LF-3, LF-11, LF-19, and LF-20, concentrations of TPHg did not exceed the detection limit of 0.050 ppm in samples from A-zone wells located outside the slurry wall (see Table 3 and Figure 7). Samples collected from wells LF-11, LF-19 (sampled for the first time), and LF-20 contained relatively low TPHg concentrations of 0.17, 0.07, and 0.20 ppm, respectively. A sample collected from well LF-3 contained 130 ppm TPHg.

#### **4.1.4 Inorganic Compounds as Arsenic**

Analytical results for samples collected from A-zone wells, located outside the slurry wall, were analyzed for inorganic compounds as arsenic (see Table 4). Concentrations of arsenic were detected in 10 wells. Well LF-19, sampled for chemical analyses for the first time, indicated arsenic levels below detection limits.

**Table 1**  
**Groundwater Elevation Data, May 97**  
**The Sherwin-Williams Plant**  
**Emeryville, California**

Well Number	Well Elevation	Measured Depth to Water 30-May-97	Ground-Water Elevation 30-May-97
<b>Sherwin-Williams Wells</b>			
LF-3	12.00	5.81	6.19
LF-4	12.53	NM	NM
LF-7	14.44	8.60	5.84
LF-8	12.91	7.48	5.43
LF-10	10.99	NM	NM
LF-11	10.05	4.79	5.26
LF-12	14.95	6.92	8.03
LF-13	14.78	6.71	8.07
LF-17	12.53	4.20	8.33
LF-18	13.05	8.47	4.58
LF-19	14.18	7.55	6.63
LF-20	11.77	7.91	3.86
LF-21	10.37	5.57	4.80
LF-22	19.16	10.23	8.93
LF-23	10.64	5.70	4.94
LF-24	10.22	5.75	4.47
LF-25	11.31	7.97	3.34
LF-26	12.90	7.61	5.29
EX-1	10.08	15.80	-5.72
EX-2	10.08	14.02	-3.94
EX-3	14.90	17.18	-2.28
LF-B3	10.30	4.05	6.25
LF-B4	14.55	6.69	7.86
LF-B5	18.29	10.75	7.54
LF-B6	11.99	5.70	6.29
<b>Rifkin Property Wells</b>			
RP-1	15.14	8.33	6.81
RP-2	15.24	8.61	6.63
RP-3	15.17	8.44	6.73
RP-4	15.13	8.59	6.54
RP-5	15.04	8.51	6.53
MW-1	13.78	7.45	6.33
MW-2	13.58	7.28	6.30
MW-3	14.60	7.84	6.76
MW-4	15.53	7.49	8.04
MW-5	15.24	7.91	7.33

Data entered by TGL . Proofed by ATG .

**TABLE 2**  
**SUMMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUNDWATER 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-Hexanone	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chlorobenzene	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-1	Destroyed under permit														
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-2	Destroyed or lost during slurry wall and cap construction activities														
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-3	31-Jul-96	<50.000	<3.000	4.500	<50.000	24.000	<30.000	44.000	<3.000	<3.000	<3.000	<3.000	<3.000	72.500	
LF-3	20-Nov-96	<50.000	<3.000	4.000	<50.000	12.000	<30.000	41.000	<3.000	<3.000	<3.000	<3.000	<3.000	57.000	
LF-3	19-Mar-97	<50.000	<3.000	3.000	<50.000	16.000	<30.000	43.000	<3.000	<3.000	<3.000	<3.000	<3.000	62.000	
LF-3	12-Jun-97	<50.000	<3.000	7.000	<50.000	31.000	<30.000	70.000	<3.000	<3.000	<3.000	<3.000	<3.000	108.000	
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	
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	

**TABLE 2**  
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**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-Hexanone	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chlorobenzene	Total Quantified Conc.	Notes
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-5	Destroyed or lost during slurry wall and cap construction activities														
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	
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	

TABLE 2  
SUMMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUNDWATER 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-Hexanone	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chlorobenzene	Total Quantified Conc.	Notes
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-9	Destroyed or lost during slurry wall and cap construction activities														
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	
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-11	31-Jul-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	0.000	
LF-11	20-Nov-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	0.000	
LF-11	18-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
DUP	18-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-11	11-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.016	#5
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	

**TABLE 2**  
**SUMMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUNDWATER 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-Hexanone	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chlorobenzene	Total Quantified Conc.	Notes
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-12	30-Jul-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	0.000	
LF-12	20-Nov-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	0.000	
LF-12	17-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-12	1-Jul-97	<0.100	<0.005	<0.005	NA	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
Dup	1-Jul-97	<0.100	<0.005	<0.005	NA	<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-13	30-Jul-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	0.000	
LF-13dup	30-Jul-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	0.000	
LF-13	20-Nov-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	0.000	
LF-13	17-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-13dup	17-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-13	12-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
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	
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-14	Destroyed during railway expansion activities														

TABLE 2  
SUMMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUNDWATER 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-Hexanone	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chlorobenzene	Total Quantified Conc.	Notes
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-15	Destroyed during railway expansion activities														
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-16	Destroyed under permit														
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-18	30-Jul-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	0.000	
LF-18	20-Nov-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	0.000	
LF-18	19-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-18	11-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-18-dup	11-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-19	13-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
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-20	30-Jul-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	0.000	
LF-20	21-Nov-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	0.000	
LF-20	18-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-20	11-Jun-97	<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	
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-21	31-Jul-96	<0.1	<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-21	21-Nov-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	0.000	
LF-21	18-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-21	11-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	



**TABLE 2**  
**SUMMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUNDWATER 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-Hexanone	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chlorobenzene	Total Quantified Conc.	Notes
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	
LF-23	2-Aug-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	0.000	
LF-23	21-Nov-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	0.000	
LF-23	18-Mar-97	<0.100	0.010	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.010	
LF-23	11-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
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-24	2-Aug-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	0.000	
LF-24	21-Nov-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	0.000	
LF-24	18-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-24	11-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
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-25	2-Aug-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	0.000	
LF-25	21-Nov-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	0.000	
LF-25	18-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-25	11-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
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	#6
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	#6
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	#6
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	#6
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	#6
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	#6
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	#6
LF-B1	Destroyed under permit														
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-B2	Destroyed or lost during slurry wall and cap construction activities														
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

**TABLE 2**  
**SUMMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUNDWATER 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-Hexanone	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chlorobenzene	Total Quantified Conc.	Notes
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	
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-B3	1-Aug-96	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	0.022	<0.005	<0.005	<0.005	0.022	
LF-B3	21-Nov-96	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	0.036	<0.005	<0.005	<0.005	0.036	
DUP	21-Nov-96	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	0.021	<0.005	<0.005	<0.005	0.021	
LF-B3	17-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-B3	12-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	0.034	<0.005	<0.005	<0.005	0.034	
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-B4	30-Jul-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	0.000	
LF-B4	22-Nov-96	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.010	
DUP	22-Nov-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	0.000	
LF-B4	17-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-B4	1-Jul-97	<0.100	<0.005	<0.005	NA	<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	#7
LF-B5	1-Aug-96	<0.500	<0.030	<0.030	<0.500	<0.050	<0.300	<0.030	<0.030	0.380	<0.030	<0.030	<0.030	0.380	#7
LF-B5	22-Nov-96	<0.500	<0.030	<0.030	<0.500	<0.050	<0.300	<0.030	<0.030	0.320	<0.030	<0.030	<0.030	0.320	#7
LF-B5	17-Mar-97	<0.500	<0.030	<0.030	<0.500	<0.050	<0.300	<0.030	<0.030	0.290	<0.030	<0.030	<0.030	0.290	#7
LF-B5	11-Jun-97	<0.500	<0.030	<0.030	<0.500	<0.050	<0.300	<0.030	<0.030	0.310	<0.030	<0.030	<0.030	0.310	#7
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	
LF-B6	1-Aug-96	<0.100	<0.005	0.110	<0.100	<0.010	<0.050	<0.005	<0.005	0.030	<0.005	<0.005	<0.005	0.140	

**TABLE 2**  
**SUMMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUNDWATER 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-Hexanone	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chlorobenzene	Total Quantified Conc.	Notes
LF-B6	25-Nov-96	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	0.046	<0.005	<0.005	<0.005	0.046	
DUP	25-Nov-96	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	0.047	<0.005	<0.005	<0.005	0.047	
LF-B6	17-Mar-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	0.025	<0.005	<0.005	<0.005	0.025	
LF-B6	12-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	0.041	<0.005	<0.005	<0.005	0.041	
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-1	1-Aug-96	<0.100	<0.005	<0.005	<0.100	0.019	<0.050	0.027	<0.005	<0.005	<0.005	<0.005	<0.005	0.046	
EX-1	18-Dec-96	<0.100	<0.005	0.031	<0.100	1.4	<0.050	0.87	<0.005	<0.005	<0.005	<0.005	<0.005	2.301	
EX-1	15-Apr-97	<10.0	<0.5	<0.5	<10.0	2.2	<5.0	3.20	<0.5	<0.500	<0.500	<0.500	<0.500	5.400	
EX-1	1-Jul-97	<2.000	<0.100	0.100	NA	1.8	<1.000	2.000	<0.100	<0.100	<0.100	<0.100	<0.100	3.900	
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-2	1-Aug-96	<10.0	<0.500	0.650	<10.0	3.7	<5.0	6.6	<0.500	<0.500	<0.500	<0.500	<0.500	10.950	
EX-2	18-Dec-96	<20.0	<1.0	2.5	<20.0	12.0	<10.0	23.0	<1.0	<1.0	<1.0	<1.0	<1.0	37.500	
EX-2	15-Apr-97	<50.0	<3.0	<3.0	<50.0	10.0	<30.0	26.0	<3.0	<3.0	<3.0	<3.0	<3.0	36.000	
EX-2	1-Jul-97	<30.000	<1.000	2.000	NA	10.0	<10.000	27.000	<1.000	<1.000	<1.000	<1.000	<1.000	39.000	
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	0.000	
EX-3	1-Aug-96	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	0.006	
EX-3	18-Dec-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	0.000	
EX-3	15-Apr-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
EX-3	1-Jul-97	<0.100	<0.005	<0.005	NA	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
<b>FIELD BLANKS &amp; TRIP BLANKS</b>															
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	
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	

**TABLE 2**  
**SUMMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUNDWATER 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-Hexanone	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chlorobenzene	Total Quantified Conc.	Notes
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	
LF-24-FB	02-Aug-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	0.000	
LF-B3-FB	21-Nov-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	0.000	
LF-B4-FB	22-Nov-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	0.000	
LF-B6-FB	25-Nov-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	0.000	
LF-13-FB	17-Mar-97	<0.010	<0.005	<0.005	<0.100	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.000	
LF-11-FB	18-Mar-97	<0.010	<0.005	<0.005	<0.100	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.000	
LF-18-FB	11-Jun-97	<0.100	<0.005	<0.005	<0.100	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-12-FB	1-Jul-97	<0.100	<0.005	<0.005	NA	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
TripBlank	1-Jul-97	<0.100	<0.005	<0.005	NA	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	

Data entered by TCG Data proofed by KAG QA/QC by KAG

**Notes:**

DUP = Duplicate Sample

1,1,1-TCA = 1,1,1-Trichloroethane

1,2-DCA = 1,2-Dichloroethane

**TABLE 2**  
**SUMMARY OF HISTORICAL VOLATILE ORGANIC COMPOUNDS (EPA 8240) IN GROUNDWATER 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-Hexanone	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chlorobenzene	Total Quantified Conc.	Notes
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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.

#5 LF-11 6/11/97 -Carbon Disulfide at 0.016 ppm

#6 Concentrations of chemicals detected in LF-B1 may not be representative of B-Zone groundwater quality since LF-B1 is only screened within the aquitard between the A-Zone and B-Zone.

#7 Concentrations of chemicals detected in LF-B5 may not be representative of B-Zone groundwater quality since LF-B5 is only screened within the aquitard between the A-Zone and B-Zone.

**TABLE 3**  
**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-1	Destroyed under permit			
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-3	31-Jul-96	0.64	90	
LF-3	20-Nov-96	9.3	75	
LF-3	19-Mar-97	0.65	61	
LF-3	12-Jun-97	1.1	130	
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-5	Destroyed or lost during slurry wall and cap construction activities			
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-9	Destroyed or lost during slurry wall and cap construction activities			
LF-10	21-Jun-91	0.270		

**TABLE 3**  
**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		
DUP	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-11	31-Jul-96	0.580	<0.050	
LF-11	20-Nov-96	1.5	<0.05	
LF-11	18-Mar-97	1.9	0.190	
DUP	18-Mar-97	1.8	<0.05	
LF-11	11-Jun-97	0.41	0.17	
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-12	30-Jul-96	<0.050	<0.050	
LF-12	20-Nov-96	<0.05	<0.05	
LF-12	17-Mar-97	<0.05	<0.05	
LF-12	01-Jul-97	<0.05	<0.05	
LF-12	01-Jul-97	<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-13	30-Jul-96	<0.05	<0.05	
DUP	30-Jul-96	<0.05	<0.05	
LF-13	20-Nov-96	<0.05	<0.05	
LF-13	17-Mar-97	<0.05	<0.05	
DUP	17-Mar-97	<0.05	<0.05	
LF-13	12-Jun-97	<0.05	<0.05	
LF-14	20-Jun-91	<0.050		

**TABLE 3**  
**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-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-14	Destroyed during railway expansion activities			
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-15	Destroyed during railway expansion activities			
LF-16	20-Jun-91	<0.050		
LF-16	09-Jul-92	0.075	<0.050	
LF-16	30-Dec-92	<0.050	0.050	
LF-16	09-Jun-93	0.083	<0.050	
LF-16	Destroyed under permit			
LF-18	11-Apr-96	0.320	<0.05	
LF-18	30-Jul-96	0.320	<0.05	
LF-18	20-Nov-96	0.50	<0.05	
LF-18	19-Mar-97	0.26	<0.05	
LF-18	11-Jun-97	0.18	<0.05	
Dup	11-Jun-97	0.18	<0.05	
LF-19	13-Jun-97	0.60	0.07	
LF-20	11-Apr-96	0.960	0.230	
LF-20	30-Jul-96	0.560	0.200	
LF-20	21-Nov-96	3.2	0.250	
LF-20	18-Mar-97	0.61	0.200	
LF-20	11-Jun-97	0.54	0.200	
LF-21	10-Apr-96	2.800	<0.05	
LF-21	31-Jul-96	1.400	0.060	
LF-21	21-Nov-96	2.4	0.060	
LF-21	18-Mar-97	1.7	<0.05	
LF-21	11-Jun-97	0.83	<0.05	
LF-23	10-Apr-96	1.700	<0.05	
DUP	10-Apr-96	1.300	<0.05	
LF-23	2-Aug-96	5.600	<0.05	
LF-23	21-Nov-96	1.3	<0.05	
LF-23	18-Mar-97	1.5	<0.05	
LF-23	11-Jun-97	0.41	<0.05	
LF-24	11-Apr-96	0.090	<0.05	
LF-24	2-Aug-96	0.160	<0.05	



**TABLE 3**  
**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-24	21-Nov-96	0.14	<0.05	
LF-24	18-Mar-97	<0.05	<0.05	
LF-24	11-Jun-97	0.06	<0.05	
LF-25	11-Apr-95	0.180	<0.05	
LF-25	2-Aug-96	0.300	<0.05	
LF-25	21-Nov-96	0.31	<0.05	
LF-25	18-Mar-97	0.11	<0.05	
LF-25	11-Jun-97	0.11	<0.05	
LF-B1	20-Jun-91	<0.050		#5
LF-B1	08-Jul-92	<0.050	0.180	#5
LF-B1	30-Dec-92	<0.050	0.200	#3,#5
LF-B1	08-Jun-93	0.061	0.180	#3,#5
LF-B1	Destroyed under permit			
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-B2	Destroyed or lost during slurry wall and cap construction activities			
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-B3	01-Aug-96	0.60	<0.050	
LF-B3	21-Nov-96	0.44	<0.05	
DUP	21-Nov-96	0.53	<0.05	
LF-B3	17-Mar-97	0.85	<0.05	
LF-B3	12-Jun-97	0.93	0.06	
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-B4	22-Nov-96	0.16	<0.05	
DUP	22-Nov-96	<0.05	<0.05	
LF-B4	17-Mar-97	<0.05	<0.05	
LF-B4	01-Jul-97	<0.05	<0.05	
LF-B5	09-Apr-96	0.100	<0.05	#6
LF-B5	01-Aug-96	<0.050	0.150	#6
LF-B5	22-Nov-96	<0.05	0.06	#6

**TABLE 3**  
**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-B5	17-Mar-97	<0.05	0.12	#6
LF-B5	12-Jun-97	<0.05	0.09	#6
LF-B6	09-Apr-96	1.000	2.700	
LF-B6	01-Aug-96	0.080	0.380	
LF-B6	25-Nov-96	0.34	0.21	
DUP	25-Nov-96	0.34	0.18	
LF-B6	17-Mar-97	0.14	0.10	
LF-B6	12-Jun-97	0.21	0.2	
EX-1	18-Apr-96	4.300	0.420	
EX-1	01-Aug-96	4.100	0.220	
EX-1	18-Dec-96	2.4	3.1	
EX-1	15-Apr-97	0.99	7.1	
EX-1	01-Jul-97	0.94	4.7	
EX-2	18-Apr-96	1.300	41.000	
EX-2	01-Aug-96	3.700	34.0	
EX-2	18-Dec-96	0.69	45.0	
EX-2	15-Apr-97	0.72	47.0	
EX-2	01-Jul-97	0.64	70.0	
EX-3	18-Apr-96	0.430	<0.05	
EX-3	01-Aug-96	0.820	<0.050	
EX-3	18-Dec-96	0.210	<0.050	
EX-3	15-Apr-97	0.090	<0.050	
EX-3	01-Jul-97	0.13	<0.05	

**Field Blanks and Trip Blanks**

LF-24-FB	02-Aug-96	<0.05	<0.05
TRIP BLANK	20-Nov-96	NA	<0.05
LF-B3-FB	21-Nov-96	NA	<0.05
TRIP BLANK	21-Nov-96	NA	<0.05
LF-B4-FB	22-Nov-96	NA	<0.05
TRIP BLANK	22-Nov-96	NA	<0.05
LF-B6-FB	25-Nov-96	NA	<0.05
LF-B5-FB	17-Mar-97	NA	<0.05
TRIP BLANK	17-Mar-97	NA	<0.05
TRIP BLANK	18-Mar-97	NA	<0.05
LF-13-FB	18-Mar-97	NA	<0.05
LF-18-FB	11-Jun-97	NA	<0.05
TRIP BLANK	12-Jun-97	NA	<0.05
LF-12-FB	01-Jul-97	<0.05	<0.05

**TABLE 3**  
**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
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Data entered by TCV . Data proofed by KAG QA/QC by KAG

**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 Anamatrix 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 Anamatrix 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 Anamatrix 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 Anamatrix 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.

#5 - Concentrations of chemicals detected in LF-B1 may not be representative of B-Zone groundwater quality since LF-B1 is only screened within the aquitard between the A-Zone and B-Zone.

#6 - Concentrations of chemicals detected in LF-B5 may not be representative of B-Zone groundwater quality since LF-B5 is only screened within the aquitard between the A-Zone and B-Zone.

**TABLE 4**  
**SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUNDWATER MONITORING WELLS**  
**THE SHERWIN-WILLIAMS PLANT**  
**EMERYVILLE, CALIFORNIA**

(Results reported in parts per million [ppm])

Well Number	Notes	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-1	Destroyed under permit									
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-3		31-Jul-96	72.000	NA	NA	NA	NA	NA	NA	NA
LF-3		20-Nov-96	72.000	NA	NA	NA	NA	NA	NA	NA
LF-3		19-Mar-87	110.000	NA	NA	NA	NA	NA	NA	NA
LF-3		12-Jun-97	180.000	NA	NA	NA	NA	NA	NA	NA
LF-4		02-Jun-89	0.530	NA	<0.0400	<0.300				
DUP		02-Jun-89	0.580	NA	<0.0400	<0.300				
LF-4		06-Dec-89	0.420	NA	<0.0400	<0.300				
DUP		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				
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				

**TABLE 4**  
**SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUNDWATER MONITORING WELLS**  
**THE SHERWIN-WILLIAMS PLANT**  
**EMERYVILLE, CALIFORNIA**

(Results reported in parts per million [ppm])

Well Number	Notes	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
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
LF-5		09-Jun-93	0.0283	0.257	<0.005	<0.003	<0.010	<0.00027	<0.005	<0.010
LF-5	Destroyed or lost during slurry wall and cap construction activities									
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				

**TABLE 4**  
**SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUNDWATER MONITORING WELLS**  
**THE SHERWIN-WILLIAMS PLANT**  
**EMERYVILLE, CALIFORNIA**

(Results reported in parts per million [ppm])

Well Number	Notes	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
LF-11		31-Jul-96	0.110	NA	NA	NA	NA	NA	NA	NA
LF-11		20-Nov-96	0.45	NA	NA	NA	NA	NA	NA	NA
LF-11		17-Mar-97	1.200	NA	NA	NA	NA	NA	NA	NA
DUP		17-Mar-97	1.200	NA	NA	NA	NA	NA	NA	NA
LF-11		11-Jun-97	0.62	NA	NA	NA	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				
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-12		30-Jul-93	0.006	NA	NA	NA	NA	NA	NA	NA
LF-12		20-Nov-96	0.022	NA	NA	NA	NA	NA	NA	NA
LF-12		17-Mar-97	0.014	NA	NA	NA	NA	NA	NA	NA
LF-12		01-Jul-97	0.014	NA	NA	NA	NA	NA	NA	NA
LF-12		01-Jul-97	0.014	NA	NA	NA	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-13		30-Jul-96	< 0.002	NA	NA	NA	NA	NA	NA	NA
DUP		30-Jul-96	< 0.002	NA	NA	NA	NA	NA	NA	NA
LF-13		20-Nov-96	< 0.002	NA	NA	NA	NA	NA	NA	NA
LF-13		17-Mar-97	< 0.002	NA	NA	NA	NA	NA	NA	NA

**TABLE 4**  
**SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUNDWATER MONITORING WELLS**  
**THE SHERWIN-WILLIAMS PLANT**  
**EMERYVILLE, CALIFORNIA**

*(Results reported in parts per million [ppm])*

Well Number	Notes	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
Dup		11-Jun-97	0.032	NA	NA	NA	NA	NA	NA	NA
LF-19		13-Jun-97	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-20		11-Apr-96	<0.002	NA	NA	<0.002	NA	NA	NA	NA
LF-20		30-Jul-96	0.085	NA	NA	NA	NA	NA	NA	NA
LF-20		21-Nov-96	0.120	NA	NA	NA	NA	NA	NA	NA
LF-20		18-Mar-97	0.110	NA	NA	NA	NA	NA	NA	NA
LF-20		11-Jun-97	0.180	NA	NA	NA	NA	NA	NA	NA
LF-21		10-Apr-96	<0.002	NA	NA	<0.002	NA	NA	NA	NA
LF-21		31-Jul-96	0.43	NA	NA	NA	NA	NA	NA	NA
LF-21		21-Nov-96	0.38	NA	NA	NA	NA	NA	NA	NA
LF-21		18-Mar-97	0.40	NA	NA	NA	NA	NA	NA	NA
LF-21		11-Jun-97	0.43	NA	NA	NA	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-23		02-Aug-96	**0.009	NA	NA	NA	NA	NA	NA	NA
LF-23		21-Nov-96	0.027	NA	NA	NA	NA	NA	NA	NA
LF-23		18-Mar-97	0.010	NA	NA	NA	NA	NA	NA	NA
LF-23		11-Jun-97	0.009	NA	NA	NA	NA	NA	NA	NA
LF-24		11-Apr-96	0.005	NA	NA	<0.002	NA	NA	NA	NA
LF-24		02-Aug-96	**0.010	NA	NA	NA	NA	NA	NA	NA
LF-24		21-Nov-96	0.010	NA	NA	NA	NA	NA	NA	NA
LF-24		18-Mar-97	0.006	NA	NA	NA	NA	NA	NA	NA
LF-24		11-Jun-97	0.005	NA	NA	NA	NA	NA	NA	NA
LF-25		11-Apr-96	<0.002	NA	NA	<0.002	NA	NA	NA	NA
LF-25		02-Aug-96	0.070	NA	NA	NA	NA	NA	NA	NA
LF-25		21-Nov-96	0.14	NA	NA	NA	NA	NA	NA	NA
LF-25		18-Mar-97	0.13	NA	NA	NA	NA	NA	NA	NA

**TABLE 4**  
**SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUNDWATER MONITORING WELLS**  
**THE SHERWIN-WILLIAMS PLANT**  
**EMERYVILLE, CALIFORNIA**

(Results reported in parts per million [ppm])

Well Number	Notes	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
LF-25		11-Jun-97	0.16	NA	NA	NA	NA	NA	NA	NA
LF-B1	(1)	07-Dec-89	* <0.070	NA	<0.0400	<0.300				
LF-B1	(1)	18-Jul-90	0.007	0.08	<0.0500	<0.2				
LF-B1	(1)	20-Dec-90	0.005	0.100	0.0010	<0.200				
LF-B1	(1)	20-Jun-91	<0.010	NA	<0.005	0.004				
LF-B1	(1)	08-Jul-92	<0.010	0.122	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-B1	(1)	30-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-B1	(1)	08-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-B1	(1)	Destroyed under permit								
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				
DUP		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				
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-B2		Destroyed or lost during slurry wall and cap construction activities								
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-B3		01-Aug-96	0.004	NA	NA	NA	NA	NA	NA	NA
LF-B3		21-Nov-96	0.006	NA	NA	NA	NA	NA	NA	NA
DUP		21-Nov-96	0.004	NA	NA	NA	NA	NA	NA	NA
LF-B3		17-Mar-97	<0.002	NA	NA	NA	NA	NA	NA	NA



**TABLE 4**  
**SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUNDWATER MONITORING WELLS**  
**THE SHERWIN-WILLIAMS PLANT**  
**EMERYVILLE, CALIFORNIA**

*(Results reported in parts per million [ppm])*

Well Number	Notes	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
LF-B3		12-Jun-97	<0.002	NA	NA	NA	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-B4		30-Jul-96	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-B4		22-Nov-96	<0.002	NA	NA	NA	NA	NA	NA	NA
DUP		22-Nov-96	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-B4		17-Mar-97	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-B4		01-Jul-97	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-B5	(2)	09-Apr-96	0.320	NA	NA	<0.002	NA	NA	NA	NA
LF-B5	(2)	01-Aug-96	0.097	NA	NA	NA	NA	NA	NA	NA
LF-B5	(2)	22-Nov-96	0.11	NA	NA	NA	NA	NA	NA	NA
LF-B5	(2)	17-Mar-97	0.11	NA	NA	NA	NA	NA	NA	NA
LF-B5	(2)	12-Jun-97	0.18	NA	NA	NA	NA	NA	NA	NA
LF-B6		09-Apr-96	0.080	NA	NA	<0.002	NA	NA	NA	NA
LF-B6		01-Aug-96	0.033	NA	NA	NA	NA	NA	NA	NA
LF-B6		25-Nov-96	0.027	NA	NA	NA	NA	NA	NA	NA
DUP		25-Nov-96	0.030	NA	NA	NA	NA	NA	NA	NA
LF-B6		17-Mar-97	0.021	NA	NA	NA	NA	NA	NA	NA
LF-B6		12-Jun-97	0.035	NA	NA	NA	NA	NA	NA	NA
EX-1		18-Apr-96	0.002	NA	NA	<0.002	NA	NA	NA	NA
EX-1		01-Aug-96	0.022	NA	NA	NA	NA	NA	NA	NA
EX-1		18-Dec-96	0.015	NA	NA	NA	NA	NA	NA	NA
EX-1		15-Apr-97	0.072	NA	NA	NA	NA	NA	NA	NA

**TABLE 4**  
**SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUNDWATER MONITORING WELLS**  
**THE SHERWIN-WILLIAMS PLANT**  
**EMERYVILLE, CALIFORNIA**

(Results reported in parts per million [ppm])

Well Number	Notes	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
EX-1		01-Jul-97	0.013	NA	NA	NA	NA	NA	NA	NA
EX-2		18-Apr-96	9.3	NA	NA	<0.002	NA	NA	NA	NA
EX-2		01-Aug-96	57.0	NA	NA	NA	NA	NA	NA	NA
EX-2		18-Dec-96	34.0	NA	NA	NA	NA	NA	NA	NA
EX-2		15-Apr-97	44.0	NA	NA	NA	NA	NA	NA	NA
EX-3		18-Apr-96	200	NA	NA	<0.002	NA	NA	NA	NA
EX-3		01-Aug-96	170	NA	NA	NA	NA	NA	NA	NA
EX-3		18-Dec-96	270	NA	NA	NA	NA	NA	NA	NA
EX-3		15-Apr-97	220	NA	NA	NA	NA	NA	NA	NA
EX-3		01-Jul-97	0.190	NA	NA	NA	NA	NA	NA	NA
<b>FIELD &amp; TRIP BLANKS</b>										
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				

**TABLE 4**  
**SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUNDWATER MONITORING WELLS**  
**THE SHERWIN-WILLIAMS PLANT**  
**EMERYVILLE, CALIFORNIA**

(Results reported in parts per million [ppm])

Well Number	Notes	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
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
LF-10-FB		06-Jan-94	<0.002	<0.01	<0.001	<0.001	<0.01	<0.0002	<0.004	<0.001
LF-24-FB		02-Aug-96	0.004	NA	NA	NA	NA	NA	NA	NA
LF-B3-FB		21-Nov-96	<0.002	NA	NA	NA	NA	NA	NA	NA
Trip Blank		21-Nov-96	<0.05	NA	NA	NA	NA	NA	NA	NA
LF-B4-FB		22-Nov-96	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-B6-FB		25-Nov-96	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-13-FB		17-Mar-97	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-11-FB		18-Mar-97	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-18-FB		11-Jun-97	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-12-FB		01-Jul-97	<0.002	NA	NA	NA	NA	NA	NA	NA

Data entered by KL. Proofed by KAG.

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.

\*\* = Data not validated based on positive results of bailer rinsate blank (0.004 ppm) of submitted samples.

#1 Concentrations of chemicals detected in LF-B1 may not be representative of B-Zone groundwater quality since LF-B1 is only screened within the aquitard between the A-Zone and

#2 Concentrations of chemicals detected in LF-B5 may not be representative of B-Zone groundwater quality since LF-B5 is only screened within the aquitard between the A-Zone and

NA = Not Analyzed

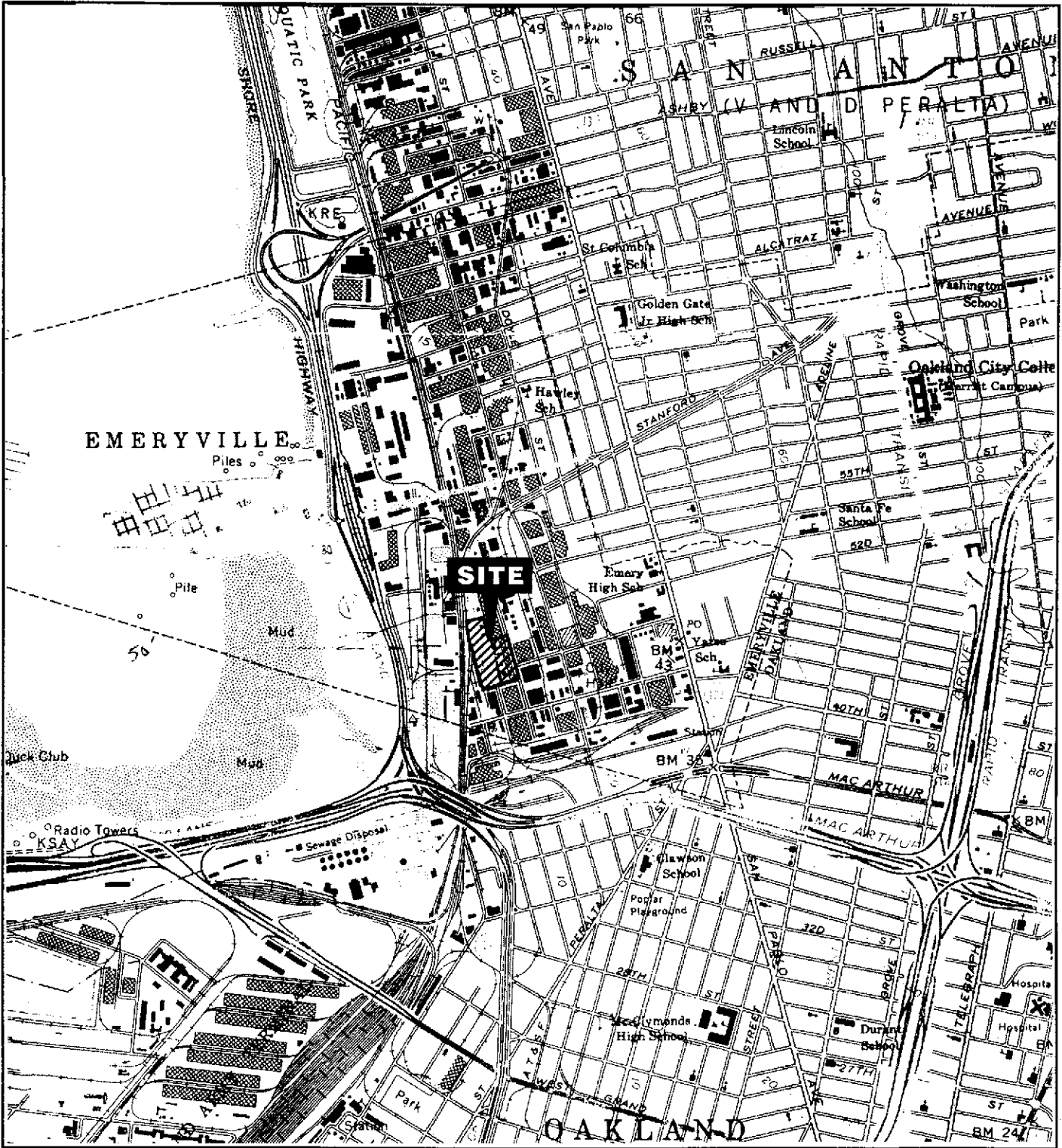
**TABLE 4**  
**SUMMARY OF HISTORICAL INORGANIC COMPOUNDS IN GROUNDWATER MONITORING WELLS**  
**THE SHERWIN-WILLIAMS PLANT**  
**EMERYVILLE, CALIFORNIA**

*(Results reported in parts per million [ppm])*

Well Number	Notes	Date Sampled	Arsenic	Barium	Cadmium	Lead	Total Chromium	Mercury	Selenium	Silver
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200/7000 = EPA Method 200/6000/7000 Series for selected metals.

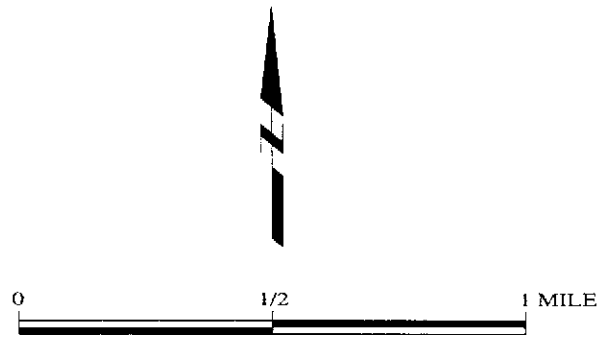
Results of analyses for other inorganic compounds as metals that are not part of the annual and semiannual self-monitoring program for 1992 and 1993 are reported in Levine\*Fricke, April 4, 1990, Table 10 and Levine\*Fricke, December 20, 1991, Table 5.



Map Source:  
 U.S.G.S. Oakland West Quadrangle,  
 Oakland West, California  
 7.5 Minute Series

SHERWIN-WILLIAMS

**Site Location Map**

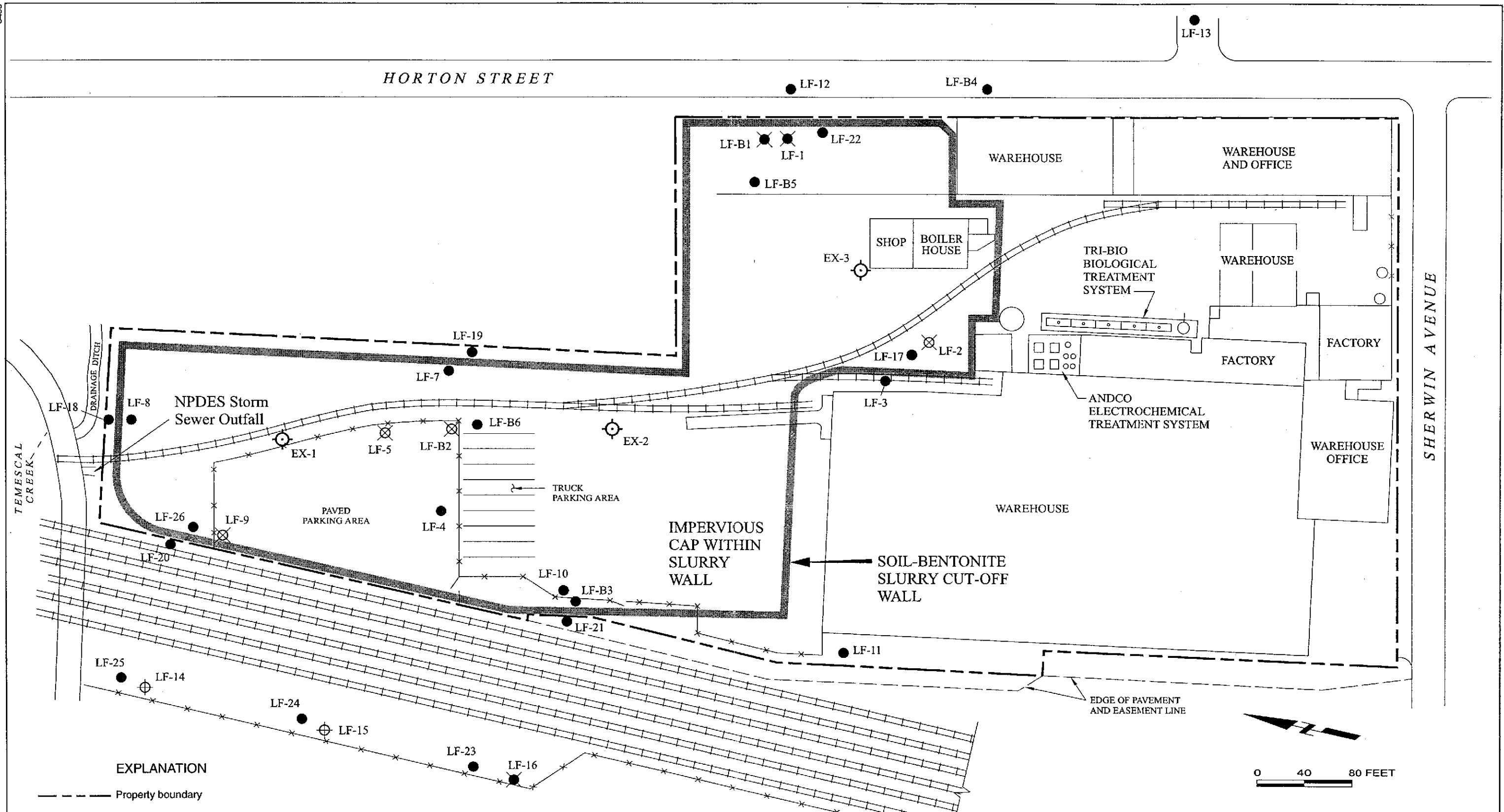


**Levine-Fricke-Recon**

**Figure 1**

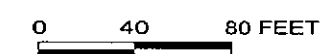
Project No. 3435

3435SV01.CDR 102496RYL.KAG



EXPLANATION

- Property boundary
- x-x-x- Chain link fence
- LF-10 A-zone monitoring well
- LF-B3 B-zone monitoring well
- ⊕ EX-1 Groundwater 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



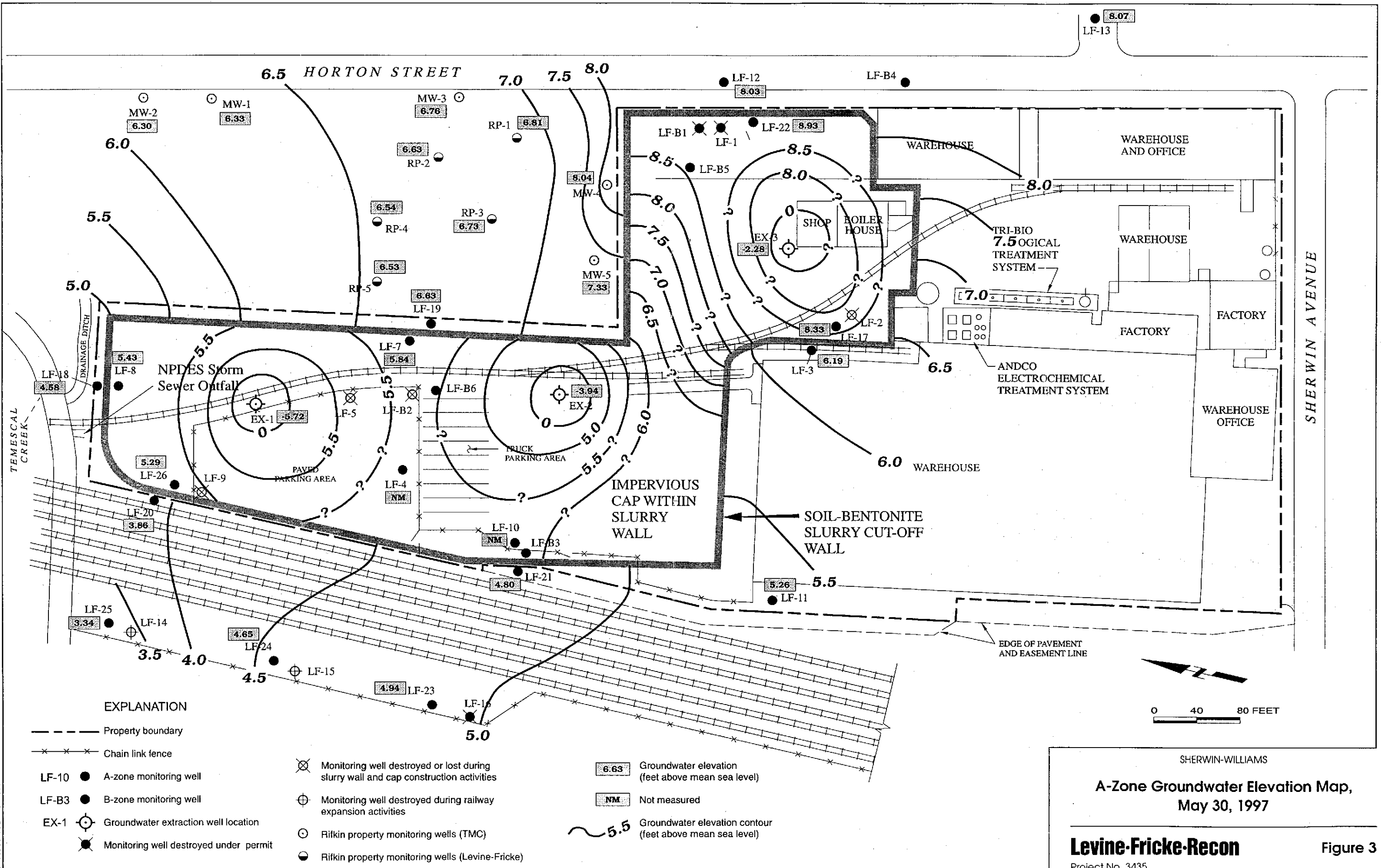
SHERWIN-WILLIAMS

Site Plan

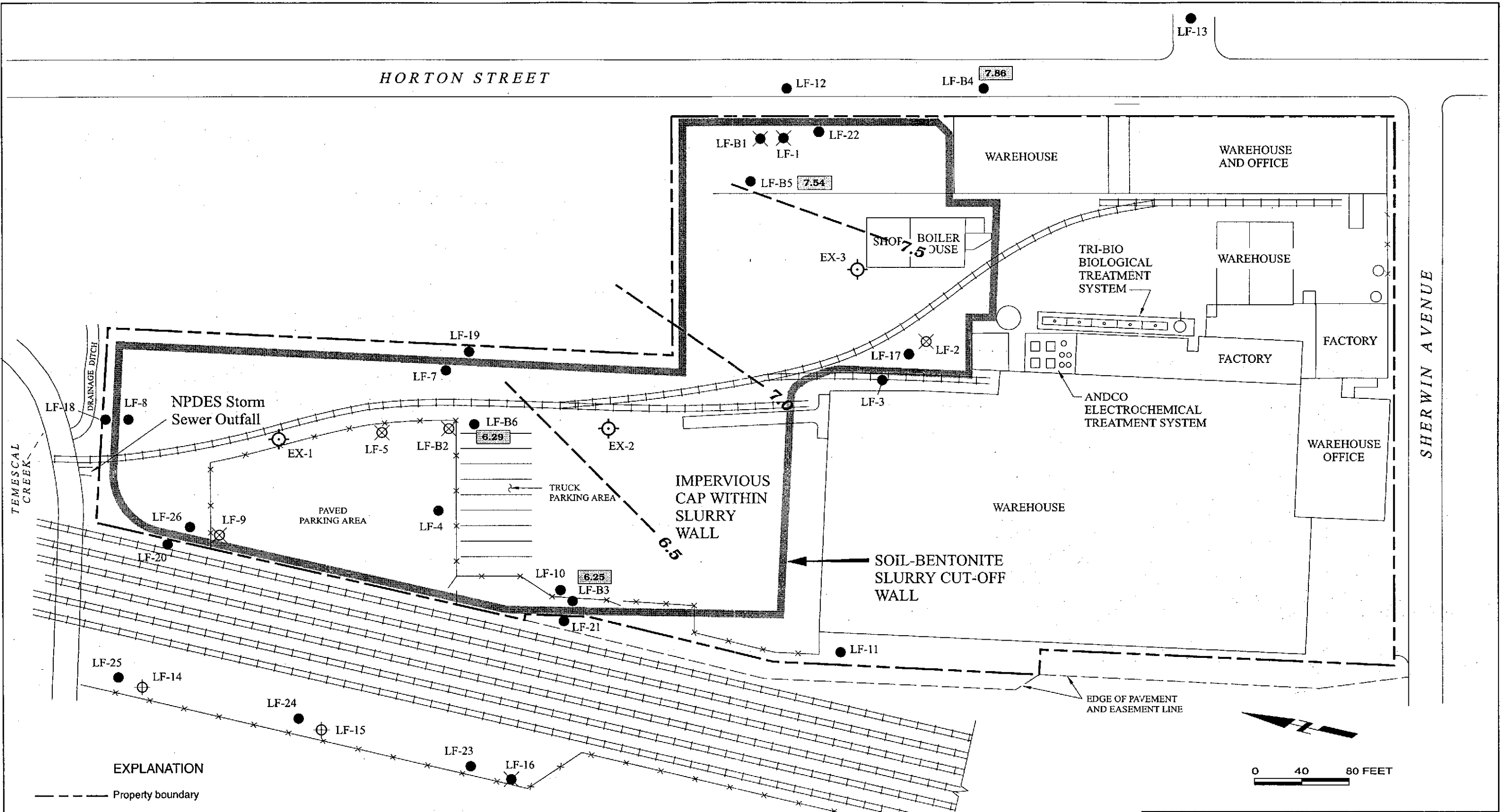
Levine-Fricke-Recon

Project No. 3435

Figure 2



SHERWIN-WILLIAMS  
**A-Zone Groundwater Elevation Map,**  
 May 30, 1997

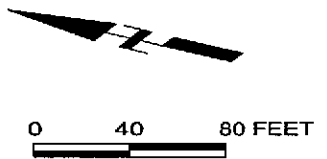


**EXPLANATION**

- Property boundary
- x-x-x- Chain link fence
- LF-10 A-zone monitoring well
- LF-B3 B-zone monitoring well
- ⊕ EX-1 Groundwater 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

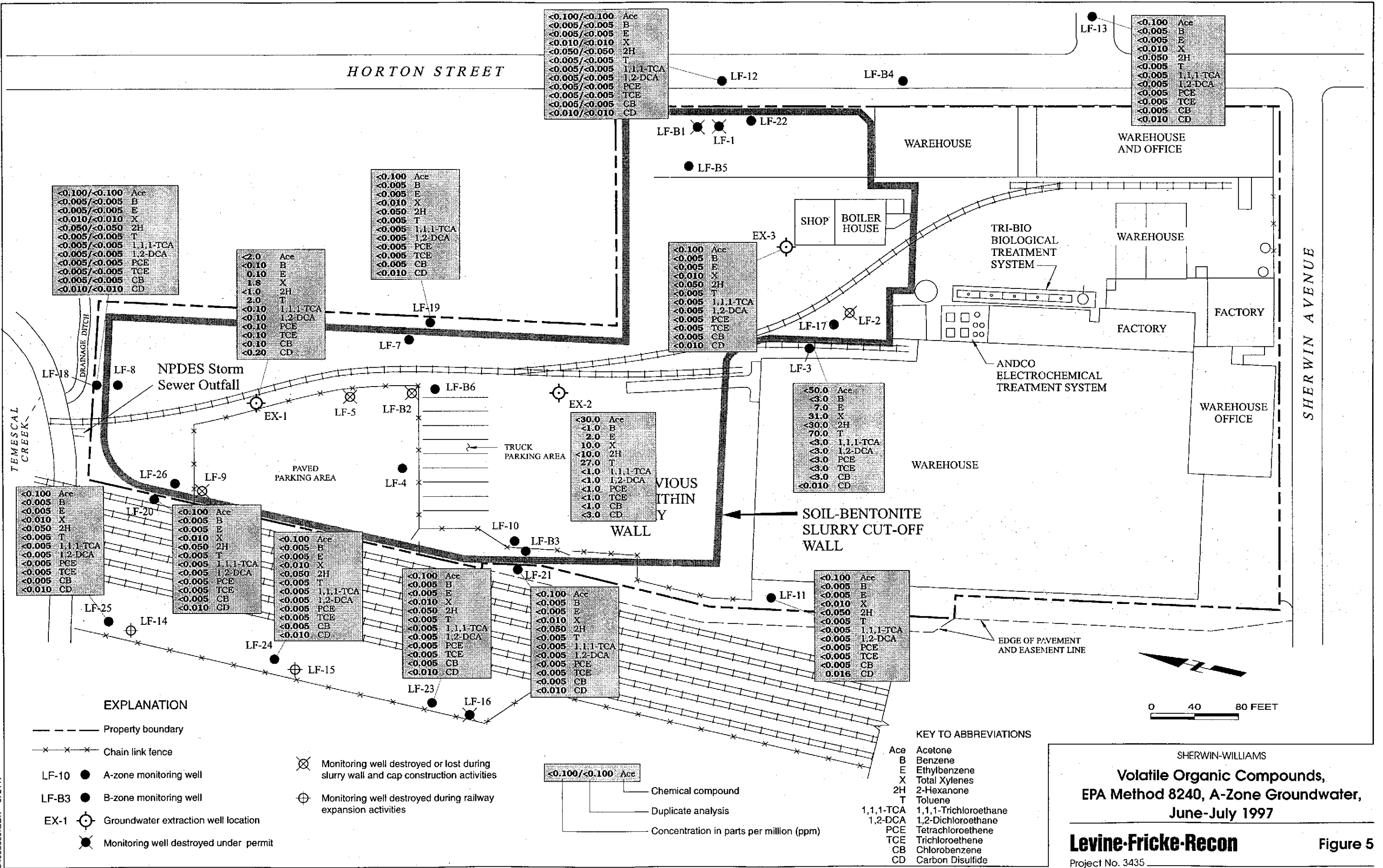
6.25 Groundwater elevation (feet above mean sea level)

7.0 Groundwater elevation contour (feet above mean sea level); dashed where inferred



SHERWIN-WILLIAMS  
**B-Zone Groundwater Elevation Map,**  
 May 30, 1997

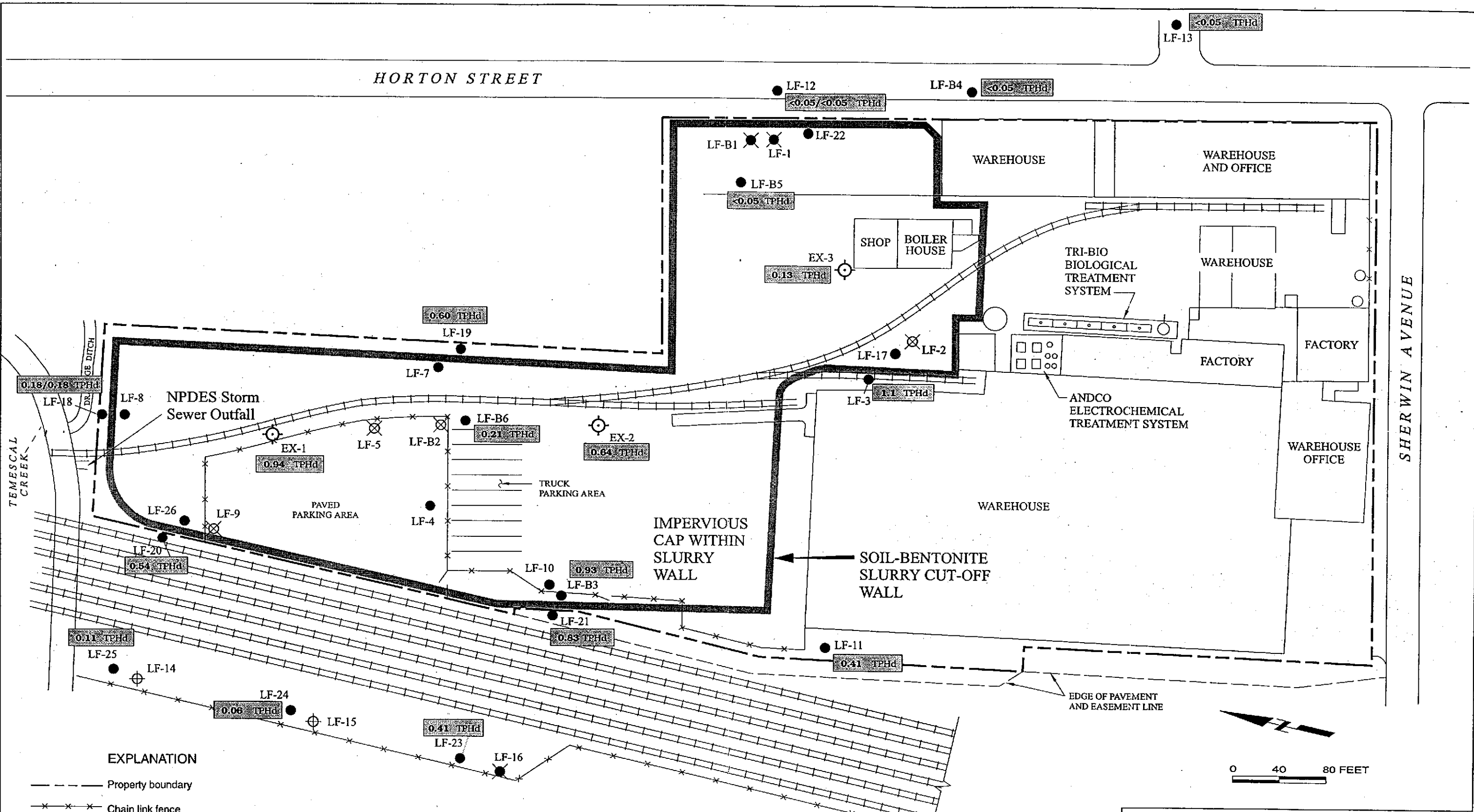




SHERWIN-WILLIAMS  
**Volatile Organic Compounds,**  
**EPA Method 8240, A-Zone Groundwater,**  
**June-July 1997**

**Levine-Fricke-Recon** Figure 5

Project No. 3435



**EXPLANATION**

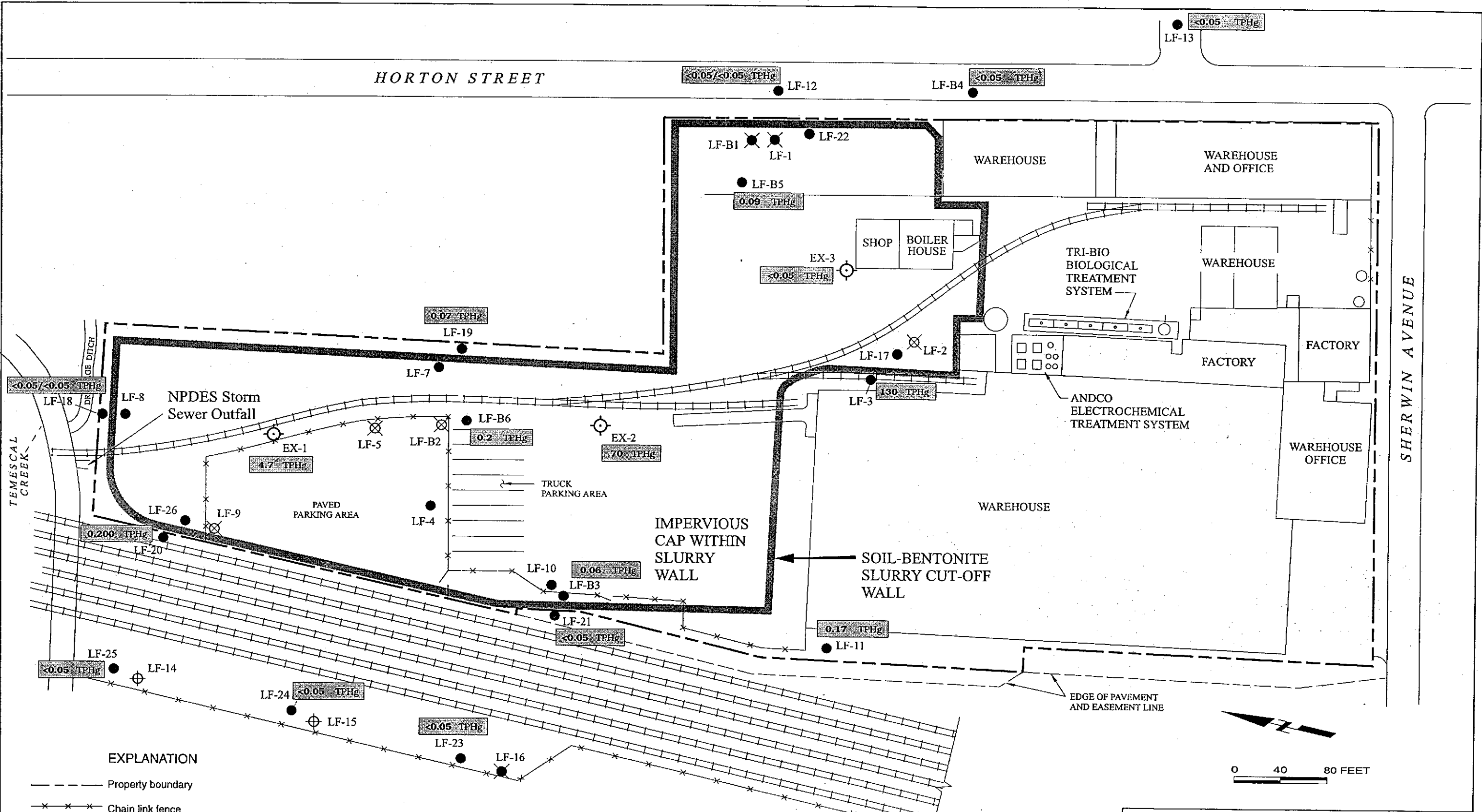
- Property boundary
- x-x-x- Chain link fence
- LF-10 A-zone monitoring well
- LF-B3 B-zone monitoring well
- ⊕ EX-1 Ground-water extraction well location
- ⊗ Monitoring well destroyed under permit
- ⊗ Monitoring well destroyed or lost during slurry wall and cap construction activities
- ⊕ Monitoring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

<math>0.05/0.05</math> TPHd Total petroleum hydrocarbons as diesel  
 Duplicate analysis  
 Concentration in parts per million (ppm)

Note: Concentration of chemicals detected in LF-B5 may not be representative of B-zone groundwater quality since LF-B5 is only screened within the aquitard between the A-zone and B-zone.

SHERWIN-WILLIAMS  
**Total Petroleum Hydrocarbons as Diesel,  
 A-Zone and B-Zone Groundwater,  
 June-July 1997**

**Levine-Fricke-Recon**  
 Project No. 3435 Figure 6

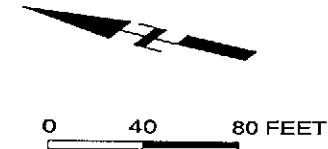


**EXPLANATION**

- Property boundary
- x-x-x- Chain link fence
- LF-10 A-zone monitoring well
- LF-B3 B-zone monitoring well
- ⊕ EX-1 Groundwater 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

● <0.05/<0.05 TPHg Total petroleum hydrocarbons as gasoline  
 ● Duplicate analysis  
 ● Concentration in parts per million (ppm)

Note: Concentration of chemicals detected in LF-B5 may not be representative of B-zone groundwater quality since LF-B5 is only screened within the aquitard between the A-zone and B-zone.



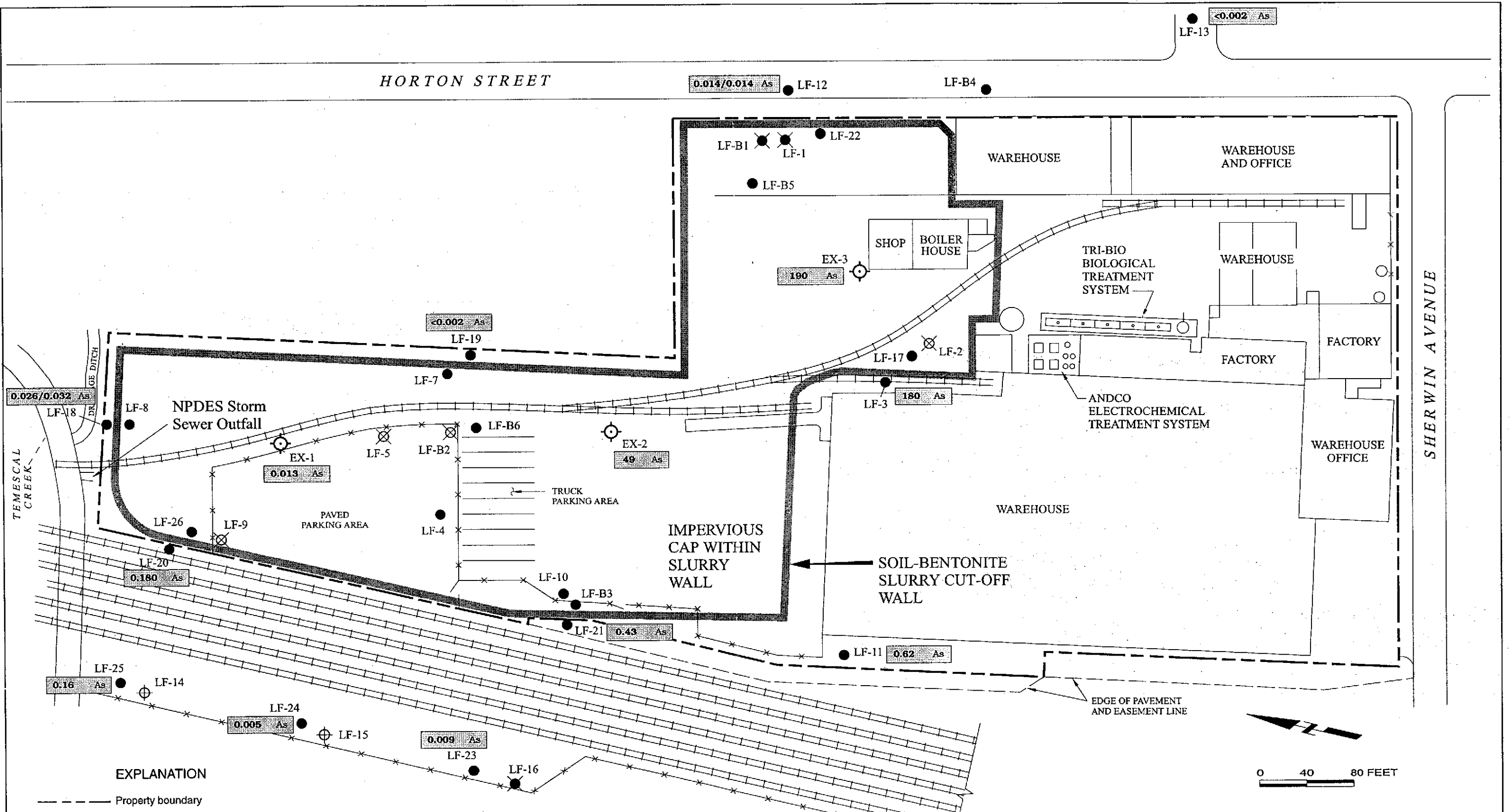
SHERWIN-WILLIAMS

**Total Petroleum Hydrocarbons as Gasoline,  
A-Zone and B-Zone Groundwater,  
June-July 1997**

**Levine-Fricke-Recon**

Figure 7

Project No. 3435



**EXPLANATION**

- Property boundary
- x-x-x- Chain link fence
- LF-10 A-zone monitoring well
- LF-B3 B-zone monitoring well
- ⊕ EX-1 Groundwater 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

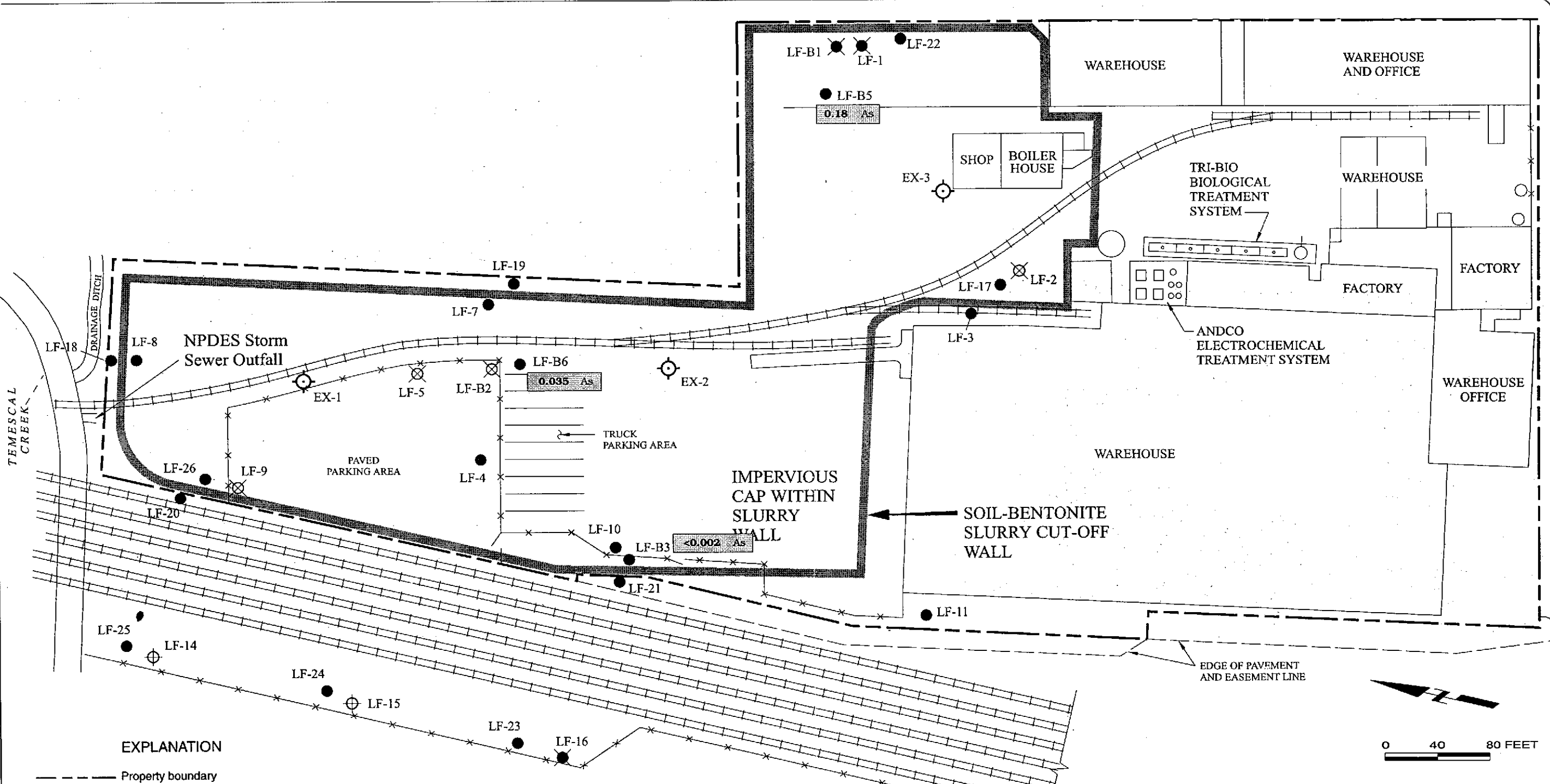
0.014/0.014 As — Arsenic  
 — Duplicate analysis  
 — Concentration in parts per million (ppm)

SHERWIN-WILLIAMS  
**Concentrations of Arsenic  
 A-Zone Groundwater,  
 June-July 1997**  
**Levine-Fricke-Recon** Figure 8  
 Project No. 3435



HORTON STREET

LF-13

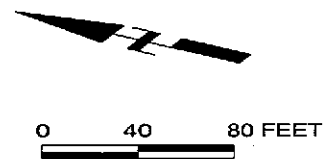


EXPLANATION

- Property boundary
- x-x-x- Chain link fence
- LF-10 ● A-zone monitoring well
- LF-B3 ● B-zone monitoring well
- EX-1 ⊕ Groundwater 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

<0.002 As Arsenic  
 Concentration in parts per million (ppm)

Note: Concentration of chemicals detected in LF-B5 may not be representative of B-zone groundwater quality since LF-B5 is only screened within the aquitard between the A-zone and B-zone.



SHERWIN-WILLIAMS  
**Concentrations of Arsenic  
 B-Zone Groundwater,  
 June-July 1997**

**Levine-Fricke-Recon**

Figure 10

Project No. 3435

APPENDIX A

SUMMARY OF QA/QC

Table A-1

Summary of Sampling QA/QC		
<b>Site Name:</b> The Sherwin-Williams Plant	<b>Site Address:</b> 1450 Sherwin Avenue Emeryville, CA	<b>Monitoring Period Covered:</b> April 1 to June 30, 1997
Sampling performed by: Jeff Rodgers and Dan Johnson Levin - Fricke - Recon Inc. Firm address: 1900 Powell Street, Emeryville, California Firm contact: Mark Knox Firm phone number: (510) 652-4500		
Were chain-of-custody forms completed for all samples?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Were field parameters stabilize prior to taking sample?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
For VOCs samples, was there zero head space in sample containers?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Were samples preserved according to analytical method?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Were the required field QA/QC samples taken?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
For any questions above answered with "No", please provide an explanation:		

Data entered by TGL . QA/QC by KAG



Table A-2

Summary of Analytical QA/QC		
<b>Site Name:</b> The Sherwin-Williams Plant	<b>Site Address:</b> 1450 Sherwin Avenue Emeryville, CA	<b>Monitoring Period Covered:</b> April 1 to June 30, 1997
Analysis performed by: Larry Klein Lab name: American Environmental Network Lab address: 3440 Vincent Road, Pleasant Hill, California Lab contact: Robin Byars Lab phone number: (510) 930-9090		
Analytical method used: (check applicable methods)		
<input type="checkbox"/> Total Dissolved Solids by EPA Method _____ <input type="checkbox"/> Bioassay 96-hr % survival by Standard Method _____ <input type="checkbox"/> Turbidity (NTU) by EPA Method _____ <input type="checkbox"/> Dissolved Oxygen (mg/l and % saturation) by Standard Method <input type="checkbox"/> Hardness (mg/l CaCO <sub>3</sub> ) by EPA Method _____ <input checked="" type="checkbox"/> Arsenic by EPA Method 7060 <input type="checkbox"/> Cadmium by EPA Method _____ <input type="checkbox"/> Chromium (total) by EPA Method _____ <input type="checkbox"/> Chromium (hexavalent) EPA Method _____ <input type="checkbox"/> Copper by EPA Method _____ <input type="checkbox"/> Lead by EPA Method _____ <input type="checkbox"/> Mercury by EPA Method _____ <input type="checkbox"/> Nickel by EPA Method _____ <input type="checkbox"/> Selenium by EPA Method _____ <input type="checkbox"/> Silver by EPA Method _____ <input type="checkbox"/> Zinc by EPA Method _____ <input type="checkbox"/> Halogenated Volatile Organics by EPA Method 601 or 8010 <input type="checkbox"/> Aromatic and Unsaturated Volatile Organics by EPA 602 or 8020 <input checked="" type="checkbox"/> Volatile Organics by EPA Method 624 or 8240 <input type="checkbox"/> Semivolatile Organics by EPA Method 625 or 8270 <input type="checkbox"/> EDB and DBCP by EPA Method 504 <input checked="" type="checkbox"/> TPH gasoline by EPA Method 8015 modified <input checked="" type="checkbox"/> TPH diesel by EPA Method 8015 modified <input type="checkbox"/> Chlorinated Hydrocarbons by EPA Method 8120		
Is the lab state-certified for the above analytical method(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was analysis performed according to standard methods?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Were sample holding times met?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Were all reported analytical results values above MDLs?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Were QA/QC samples (i.e. blanks, field replicates, spikes, and surrogates) analyzed in accordance and consistent with the analytical method?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Did QA/QC results meet all acceptance criteria?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are QA/QC results and acceptance criteria on file?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
For any questions above answered with "No", please provide an explanation: *		

Data entered by TGL . QA/QC by KAG

\* The explanation should describe any modifications to standard methods and whether approved by Board staff, and describe corrective actions taken in response to any QA/QC results that fall outside acceptance criteria.

Table A-3

Common Reporting Limits for Groundwater Sample Analyses

Levine-Fricke-Recon

EPA 601: Purgeable Halocarbons	CAS #	Reporting Limits
Bromodichloromethane	75-27-4	0.5 µg/l
Bromoform	75-25-2	0.5 µg/l
Bromomethane	74-83-9	2 µg/l
Carbon Tetrachloride	56-23-5	0.5 µg/l
Chlorobenzene	108-90-7	0.5 µg/l
Chloroethane	75-00-3	2 µg/l
2-Chloroethyl Vinyl Ether	110-75-8	0.5 µg/l
Chloroform	67-66-3	0.5 µg/l
Chloromethane	74-87-3	2 µg/l
Dibromochloromethane	124-48-1	0.5 µg/l
1,2-Dichlorobenzene	95-50-1	0.5 µg/l
1,3-Dichlorobenzene	541-73-1	0.5 µg/l
1,4-Dichlorobenzene	106-46-7	0.5 µg/l
Dichlorodifluoromethane	75-71-8	2 µg/l
1,1-Dichloroethane	75-34-3	0.5 µg/l
1,2-Dichloroethane	107-06-2	0.5 µg/l
1,1-Dichloroethene	75-35-4	0.5 µg/l
trans-1,2-Dichloroethene	156-60-5	0.5 µg/l
1,2-Dichloropropane	78-87-5	0.5 µg/l
cis-1,3-Dichloropropene	10061-01-5	0.5 µg/l
trans-1,3-Dichloropropene	10061-02-6	0.5 µg/l
Methylene Chloride	75-09-2	2 µg/l
1,1,2,2-Tetrachloroethane	79-34-5	0.5 µg/l
Tetrachloroethene	127-18-4	0.5 µg/l
1,1,1-Trichloroethane	71-55-6	0.5 µg/l
1,1,2-Trichloroethane	79-00-5	0.5 µg/l
Trichloroethene	79-01-6	0.5 µg/l
Trichlorofluoromethane	75-69-4	2 µg/l
Vinyl Chloride	75-01-4	0.5 µg/l
1,1,2-Trichlorotrifluoroethane	76-13-1	0.5 µg/l

**Table A-3**  
Common Reporting Limits for Groundwater Sample Analyses

EPA 601: Purgeable Halocarbons	CAS #	Reporting Limits
cis-1,2-Dichloroethene	156-59-2	0.5 µg/l

EPA 624: Purgeable Organics	CAS #	Reporting Limits
Benzene	71-43-2	5 µg/l
Bromodichloromethane	75-27-4	5 µg/l
Bromoform	75-25-2	5 µg/l
Bromomethane	74-83-9	10 µg/l
Carbon Tetrachloride	56-23-5	5 µg/l
Chlorobenzene	108-90-7	5 µg/l
Chloroethane	75-00-3	10 µg/l
2-Chloroethyl Vinyl Ether	110-75-8	10 µg/l
Chloroform	67-66-3	5 µg/l
Chloromethane	74-87-3	10 µg/l
Dibromochloromethane	124-48-1	5 µg/l
1,2-Dichlorobenzene	95-50-1	5 µg/l
1,3-Dichlorobenzene	541-73-1	5 µg/l
1,4-Dichlorobenzene	106-46-7	5 µg/l
1,1-Dichloroethane	75-34-3	5 µg/l
1,2-Dichloroethane	107-06-2	5 µg/l
1,1-Dichloroethene	75-35-4	5 µg/l
trans-1,2-Dichloroethene	156-60-5	5 µg/l
1,2-Dichloropropane	78-87-5	5 µg/l
cis-1,3-Dichloropropene	10061-01-5	5 µg/l
trans-1,3-Dichloropropene	10061-02-6	5 µg/l
Ethylbenzene	100-41-4	5 µg/l
Methylene Chloride	75-09-2	10 µg/l
1,1,2,2-Tetrachloroethane	79-34-5	5 µg/l
Tetrachloroethene	127-18-4	5 µg/l
Toluene	108-88-3	5 µg/l

Table A-3

Common Reporting Limits for Groundwater Sample Analyses

Levine-Fricke-Recon

EPA 624: Purgeable Organics	CAS #	Reporting Limits
1,1,1-Trichloroethane	71-55-6	5 µg/l
1,1,2-Trichloroethane	79-00-5	5 µg/l
Trichloroethene	79-01-6	5 µg/l
Trichlorofluoromethane	75-69-4	5 µg/l
Vinyl Chloride	75-01-4	10 µg/l
Acetone	67-64-1	100 µg/l
2-Butanone	78-93-3	100 µg/l
Carbon Disulfide	75-15-0	10 µg/l
2-Hexanone	591-78-6	50 µg/l
4-Methyl-2-pentanone	108-10-1	50 µg/l
Styrene	100-42-5	5 µg/l
Vinyl Acetate	108-05-4	50 µg/l
Xylenes, Total	1330-20-7	10 µg/l

EPA 625: Base/Neutrals and Acids	CAS #	Reporting Limits
Acenaphthene	83-32-9	10 µg/l
Acenaphthylene	208-96-8	10 µg/l
Anthracene	120-12-7	10 µg/l
Benzidine	92-87-5	10 µg/l
Benzo(a)anthracene	56-55-3	10 µg/l
Benzo(b)fluoranthene	205-99-2	10 µg/l
Benzo(k)fluoranthene	207-08-9	10 µg/l
Benzo(g,h,i)perylene	191-24-2	10 µg/l
Benzo(a)pyrene	50-32-8	10 µg/l
Bis(2-chloroethoxy)methane	111-91-1	10 µg/l
Bis(2-chloroethyl) Ether	111-44-4	10 µg/l
Bis(2-chloroisopropyl) Ether	108-60-1	10 µg/l
Bis(2-ethylhexyl) Phthalate	117-81-7	10 µg/l
4-Bromophenyl Phenyl Ether	101-55-3	10 µg/l

**Table A-3**  
Common Reporting Limits for Groundwater Sample Analyses

EPA 625: Base/Neutrals and Acids	CAS #	Reporting Limits
Butylbenzyl Phthalate	85-68-7	10 µg/l
2-Chloronaphthalene	91-58-7	10 µg/l
4-Chlorophenyl Phenyl Ether	7005-72-3	10 µg/l
Chrysene	218-01-9	10 µg/l
Dibenzo(a,h) anthracene	53-70-3	10 µg/l
Di-n-butyl Phthalate	84-74-2	10 µg/l
1,2-Dichlorobenzene	95-50-1	10 µg/l
1,3-Dichlorobenzene	541-73-1	10 µg/l
1,4-Dichlorobenzene	106-46-7	10 µg/l
3,3'-Dichlorobenzidine	91-94-1	20 µg/l
Diethyl Phthalate	84-66-2	10 µg/l
Dimethyl Phthalate	131-11-3	10 µg/l
2,4-Dinitrotoluene	121-14-2	10 µg/l
2,6-Dinitrotoluene	606-20-2	10 µg/l
Di-n-octyl Phthalate	117-84-0	10 µg/l
Fluoranthene	206-44-0	10 µg/l
Fluorene	86-73-7	10 µg/l
Hexachlorobenzene	118-74-1	10 µg/l
Hexachlorobutadiene	87-68-3	10 µg/l
Hexachloroethane	67-72-1	10 µg/l
Indeno(1,2,3-cd)pyrene	193-39-5	10 µg/l
Isophorone	78-59-1	10 µg/l
Naphthalene	91-20-3	10 µg/l
Nitrobenzene	98-95-3	10 µg/l
n-Nitroso-di-n-propylamine	621-64-7	10 µg/l
Phenanthrene	85-01-8	10 µg/l
Pyrene	129-00-0	10 µg/l
1,2,4-Trichlorobenzene	120-82-1	10 µg/l
4-Chloro-3-methylphenol	59-50-7	10 µg/l
2-Chlorophenol	95-57-8	10 µg/l

Table A-3

Common Reporting Limits for Groundwater Sample Analyses

Levine-Fricke-Recon

EPA 625: Base/Neutrals and Acids	CAS #	Reporting Limits
2,4-Dichlorophenol	120-83-2	10 µg/l
2,4-Dimethylphenol	105-67-9	10 µg/l
4,6-Dinitro-2-methylphenol	534-52-1	50 µg/l
2,4-Dinitrophenol	51-28-5	50 µg/l
2-Nitrophenol	88-75-5	10 µg/l
4-Nitrophenol	100-02-7	50 µg/l
Pentachlorophenol	87-86-5	50 µg/l
Phenol	108-95-2	10 µg/l
2,4,6-Trichlorophenol	88-06-2	10 µg/l

EPA 8270: Semivolatile Organics	CAS #	Reporting Limits
Acenaphthene		5.0 µg/l
Acenaphthylene		5.0 µg/l
Anthracene		5.0 µg/l
Benzoic Acid		10 µg/l
Benzo(a)anthracene		5.0 µg/l
Benzo(b)fluoranthene		5.0 µg/l
Benzo(k)fluoranthene		5.0 µg/l
Benzo(g,h,i)perylene		5.0 µg/l
Benzo(a)pyrene		5.0 µg/l
Benzyl alcohol		5.0 µg/l
Bis(2-chloroethoxy)methane		5.0 µg/l
Bis(2-chloroethyl)ether		5.0 µg/l
Bis(2-chloroisopropyl)ether		5.0 µg/l
Bis(2-ethylhexyl)phthalate		10 µg/l
4-Bromophenyl phenyl ether		5.0 µg/l
Butylbenzyl Phthalate		5.0 µg/l
4-Chloroaniline		10 µg/l
2-Chloronaphthalene		5.0 µg/l

Table A-3  
Common Reporting Limits for Groundwater Sample Analyses

EPA 8270: Semivolatile Organics	CAS #	Reporting Limits
4-Chloro-3-methylphenol		5.0 µg/l
2-Chlorophenol		5.0 µg/l
4-Chlorophenyl Phenyl Ether		5.0 µg/l
Chrysene		5.0 µg/l
Dibenzo(a,h)anthracene		5.0 µg/l
Dibenzofuran		5.0 µg/l
Di-n-butyl Phthalate		10 µg/l
1,2-Dichlorobenzene		5.0 µg/l
1,3-Dichlorobenzene		5.0 µg/l
1,4-Dichlorobenzene		5.0 µg/l
3,3-Dichlorobenzidine		10 µg/l
2,4-Dichlorophenol		5.0 µg/l
Diethyl Phthalate		5.0 µg/l
4,6-Dinitro-2-methylphenol		10.0 µg/l
2,4-Dinitrophenol		10.0 µg/l
2,4-Dinitrotoluene		5.0 µg/l
2,6-Dinitrotoluene		5.0 µg/l
Di-n-octyl Phthalate		5.0 µg/l
Fluoranthene		5.0 µg/l
Fluorene		5.0 µg/l
Hexachlorobenzene		5.0 µg/l
Hexachlorobutadiene		5.0 µg/l
Hexachlorocyclopentadiene		10.0 µg/l
Hexachloroethane		5.0 µg/l
Indeno(1,2,3-cd)pyrene		5.0 µg/l
Isophorone		5.0 µg/l
2-Methylnaphthalene		5.0 µg/l
2-Methylphenol		5.0 µg/l
4-Methylphenol		5.0 µg/l
Naphthalene		5.0 µg/l

Table A-3

Common Reporting Limits for Groundwater Sample Analyses

Levine-Fricke-Recon

EPA 8270: Semivolatile Organics	CAS #	Reporting Limits
2-Nitroaniline		10.0 µg/l
3-Nitroaniline		10.0 µg/l
4-Nitroaniline		10.0 µg/l
Nitrobenzene		5.0 µg/l
2-Nitrophenol		5.0 µg/l
4-Nitrophenol		10.0 µg/l
n-Nitrosodiphenylamine		5.0 µg/l
n-Nitroso-di-n-propylamine		5.0 µg/l
Pentachlorophenol		10.0 µg/l
Phenanthrene		5.0 µg/l
Phenol		5.0 µg/l
Pyrene		5.0 µg/l
1,2,4-Trichlorobenzene		5.0 µg/l
2,4,5-Trichlorophenol		5.0 µg/l
2,4,6-Trichlorophenol		5.0 µg/l

EPA 8010: Water Matrix	CAS #	Reporting Limits
Bromodichloromethane	75-27-4	3 µg/l
Bromoform	75-25-2	3 µg/l
Bromomethane	74-83-9	10 µg/l
Carbon Tetrachloride	56-23-5	3 µg/l
Chlorobenzene	108-90-7	3 µg/l
Chloroethane	75-00-3	10 µg/l
2-Chloroethyl Vinyl Ether	110-75-8	3 µg/l
Chloroform	67-66-3	3 µg/l
Chloromethane	74-87-3	10 µg/l
Dibromochloromethane	124-48-1	3 µg/l
1,2-Dichlorobenzene	95-50-1	3 µg/l
1,3-Dichlorobenzene	541-73-1	3 µg/l



EPA 8010: Water Matrix	CAS #	Reporting Limits
1,4-Dichlorobenzene	106-46-7	3 µg/l
Dichlorodifluoromethane	75-71-8	10 µg/l
1,1-Dichloroethane	75-34-3	3 µg/l
1,2-Dichloroethane	107-06-2	3 µg/l
1,1-Dichloroethene	75-35-4	3 µg/l
cis-1,2-Dichloroethene	156-60-5	3 µg/l
trans-1,2-Dichloroethene	156-60-5	3 µg/l
1,2-Dichloropropane	78-87-5	3 µg/l
cis-1,3-Dichloropropene	10061-01-5	3 µg/l
trans-1,3-Dichloropropene	10061-02-6	3 µg/l
Methylene Chloride	75-09-2	10 µg/l
1,1,2,2-Tetrachloroethane	79-34-5	3 µg/l
Tetrachloroethene	127-18-4	3 µg/l
1,1,1-Trichloroethane	71-55-6	3 µg/l
1,1,2-Trichloroethane	79-00-5	3 µg/l
Trichloroethene	79-01-6	3 µg/l
Trichlorofluoromethane	75-69-4	10 µg/l
1,1,2-Trichlorotrifluoroethane	76-13-1	3 µg/l
Vinyl Chloride	75-01-4	10 µg/l

EPA 8015 (Modified): Total Extractable Petroleum Hydrocarbons (TEPH)	CAS #	Reporting Limits
TEPH as Diesel		50 µg/l
TEPH as Gasoline		50 µg/l

EPA 504 (Modified)	CAS #	Reporting Limits
Dibromochloropropane (DBCP)		0.010 µg/l
Ethylene Dibromide (EDB)		0.020 µg/l

Table A-3

Common Reporting Limits for Groundwater Sample Analyses

Levine-Fricke-Recon

Inorganics	Method	Reporting Limits
Arsenic	EPA 206.2	0.002 mg/l
Cadmium	EPA 200.7	0.001 mg/l
Chromium	EPA 200.7	0.01 mg/l
Copper	EPA 200.7	0.002 mg/l
Lead	EPA 239.2	0.002 mg/l
Mercury	EPA 245.1	0.0002 mg/l
Nickel	EPA 200.7	0.002 mg/l
Selenium	EPA 270.2	0.004 mg/l
Silver	EPA 200.7	0.001 mg/l
Zinc	EPA 200.7	0.005 mg/l
Chromium, Hexavalent	SM 307B	0.01 mg/l
Ammonia-Nitrogen, Total	EPA 350.3	0.05 mg/l
Un-ionized Ammonia-N	EPA 350.3 calc	0.0003 mg/l
Total Dissolved Solids	EPA 160.1	10 mg/l
Turbidity	EPA 180.1	0.05 NTU