August 18, 1997 3042.95-002

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

Subject: Quarterly Groundwater Monitoring Results for April 1 to June 30, 1997, A Portion of the Rifkin Property, 4525-4563 Horton Street, Emeryville, California

Dear Mr. Johnson:

This letter transmits the results for quarterly monitoring on a portion of the Rifkin Property located at 4525-4563 Horton Street in Emeryville, California ("the Site") for the monitoring period from April 1 to June 30, 1997.

Quarterly groundwater monitoring was conducted at the Site, as proposed in a letter dated October 26, 1994, from Dave Gustafson and Larry Mencin of The Sherwin-Williams Company to the RWQCB. This proposed quarterly groundwater monitoring program was approved by the RWQCB in a letter to Dave Gustafson from Steven Ritchie, dated November 4, 1994. In addition, wells MW-1 through MW-5 (installed by TMC Environmental) were included in this quarterly monitoring event.

Depth-to-water measurements were recorded in on-site wells RP-1 through RP-5 (installed by Levine·Fricke·Recon Inc. [LFR]) and MW-1 through MW-5 on May 30, 1997. On June 10, 1997, groundwater samples were collected from wells RP-1 through RP-5 and wells MW-1 through MW-3 and submitted to American Environmental Network (AEN) of Pleasant Hill, California, a California state-certified laboratory, for chemical analysis. Locations of on-site wells are shown on Figure 1. Water level and sampling field forms are included in Appendix A.

Depth to groundwater in the monitoring wells was measured using an electric water-level meter to the nearest 0.01 foot. Depth-to-water measurements and groundwater elevations in the monitoring wells are presented in Table 1. Groundwater contours are shown on Figure 1.

During sampling of the on-site wells, after the volume of water in each well was calculated, 3 to 5 well volumes were purged from each well either using a gasoline-powered, centrifugal pump equipped with a clean suction hose or by hand bailing with a clean Teflon bailer.

During purging of the wells, groundwater parameters (pH, specific conductance, and temperature) were monitored and recorded to aid in collecting samples that were representative of the groundwater in surrounding sediments. Samples were collected after these parameters had stabilized. If a well did not sustain a constant yield (i.e., went dry), the well was sampled after the water level had recovered to approximately 80 percent of the original level or two hours after purging, whichever occurred first.

After purging, groundwater samples were collected using a clean Teflon bailer fitted with a new rope and placed into the appropriate laboratory-supplied sample containers. Samples were placed in a chilled cooler for transportation to AEN for analysis following chain-of-custody procedures. A duplicate sample collected from well RP-4 was submitted for chemical analysis to monitor laboratory and equipment decontamination quality assurance and quality control. Equipment used during groundwater sampling was cleaned with Alconox (a laboratory-grade detergent) and/or steam cleaned.

Water purged from each well during sampling was discharged into the groundwater extraction and treatment system located at the Sherwin-Williams site.

Groundwater samples were submitted to AEN for analysis of dissolved arsenic using EPA Method 7060; total petroleum hydrocarbons as gasoline using EPA Method 5030; total petroleum hydrocarbons as diesel using EPA Method 3510; and benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8020. Analytical results for these samples are presented in Table 2. Analytical results for dissolved arsenic are shown on Figure 2. In addition, well LF-19 was sampled for the first time and the arsenic results are shown on Figure 2 and discussed in the quarterly report for the Sherwin-Williams plant (LFR report dated August 15, 1997; Project No. 3435.00-0004). Laboratory data sheets are on file at LFR. Appendix B includes a Quality Assurance/Quality Control (QA/QC) review of groundwater quality data.

The next quarterly groundwater monitoring event will be conducted in August 1997 after site access is approved. Results from this event will be reported in the quarterly groundwater monitoring report for the period from July 1 through September 30, 1997.

Please contact either of the undersigned at (510) 652-4500 or Larry Mencin of The Sherwin-Williams Company at (216) 566-1768, if you have any questions or comments.

Sincerely,

Michael B. Marsden, R.G.
Senior Geologist

Kenton A. Gee
Project Hydrogeologist

Enclosures

cc: Larry Mencin, The Sherwin-Williams Company
Sue Free, The Sherwin-Williams Company
Ed Sangster, McKenna and Cuneo
Susan Hugo, Alameda County
Ric Notini, Chiron Corporation
Tom Kalinowski, Erler & Kalinowski
Ignacio Dayrit, City of Emeryville

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.

8-18-97

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

Date

Table 1
Historical Groundwater Elevation Data
Rifkin Property, Emeryville, California

Well Number	Date	Elevation Top of Casing (msl)	Depth to Groundwater (ft bgs)	Groundwater Elevation (msl)
RP-1 [1]	8-Sep-94	15.12	8.65	6.47
	27-Jan-95	15.14	5.96	9.18
	17-Feb-95		7.46	7.68
	28-Feb-95		7.83	7.29
	13-Apr-95		7.43	7.71
	10-May-95		7.53	7.59
	9-Aug-95		8.39	6.73
	17-Nov-95		8.91	6.21
	9-Jan-96	15.14 [3]	7.95	7.19
	24-Apr-96		7.81	7.33
	29-Jul-96		8.58	6.56
	13-Dec-96		6.00	9.14
	15-Apr-97		8.18	6.96
	30-May-97		8.33	6.81
RP-2 [1]	8-Sep-94	15.23	8.99	6.24
	9-Jan-95	15.24	6.40	8.84
	27-Jan-95		5.95	9.29
	17-Feb-95		7.76	7.48
	28-Feb-95		8.11	7.12
	13-Apr-95		7.69	7.55
	10-May-95		7.77	7.46
	9-Aug-95		8.67	6.56
	17-Nov-95		9.27	5.96
	9-Jan-96	15.24 [3]	8.27	6.97
	24-Apr-96		8.04	7.20
	29-Jul-96		8.89	6.35
	13-Dec-96		6.20	9.04
	18-Apr-97		8.46	6.78
	30-May-97		8.61	6.63
RP-3 [1]	8-Sep-94	15.15	8.80	6.35
	9-Jan-95	15.17	6.55	8.62
	27-Jan-95		6.12	9.05
	17-Feb-95		7.45	7.72
	28-Feb-95		7.87	7.28
	13-Apr-95		7.44	7.73
	10-May-95		7.61	7.54
	9-Aug-95		8.48	6.67
	17-Nov-95		9.09	6.06
	9-Jan-96	15.17 [3]	8.07	7.10
	24-Apr-96		7.92	7.25
	29-Jul-96		8.71	6.46
	13-Dec-96		6.03	9.14
	15-Apr-97		8.27	6.90

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Well Number	Date	Elevation Top of Casing *(msl)*	Depth to Groundwater *(ft bgs)*	Groundwater Elevation *(msl)*
	30-May-97		8.44	6.73
RP-4				
[1]	8-Sep-94	15.10	9.02	6.08
	9-Jan-95	15.12	6.31	8.81
	27-Jan-95		5.97	9.15
	17-Feb-95		7.79	7.33
	28-Feb-95		8.13	6.97
	13-Apr-95		7.69	7.43
	10-May-95		7.77	7.33
	9-Aug-95		8.65	6.45
	17-Nov-95		9.28	5.82
	9-Jan-96	15.13 [3]	8.28	6.85
	24-Apr-96		8.05	7.08
	29-Jul-96		8.88	6.25
	13-Dec-96		6.12	9.01
	15-Apr-97		8.44	6.69
	30-May-97		8.59	6.54
RP-5				
[1]	8-Sep-94	15.03	8.95	6.08
	9-Jan-95	15.04	6.22	8.82
	27-Jan-95		5.93	9.11
	17-Feb-95		7.71	7.33
	28-Feb-95		8.06	6.97
	13-Apr-95		7.56	7.48
	10-May-95		7.69	7.34
	9-Aug-95		8.57	6.46
	17-Nov-95		9.23	5.80
	9-Jan-96	15.04 [3]	8.21	6.83
	24-Apr-96		7.96	7.08
	29-Jul-96		8.81	6.23
	13-Dec-96		5.93	9.11
	15-Apr-97		8.35	6.69
	30-May-97		8.51	6.53
MW-1				
	9-Jan-95	13.79	5.14	8.65
	27-Jan-95		4.78	9.01
	17-Feb-95		6.73	7.06
	13-Apr-95		6.63	7.16
	8-Jun-95		6.98	6.81
[2]	9-Aug-95	13.79	7.50	6.29
	17-Nov-95		8.00	5.79
	9-Jan-96	13.78 [3]	7.19	6.59
	24-Apr-96		6.93	6.85
	29-Jul-96		7.76	6.02
	13-Dec-96		5.19	8.59

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Rifkin Property, Emeryville, California

Well Number	Date	Elevation Top of Casing (msl)	Depth to Groundwater (ft bgs)	Groundwater Elevation (msl)
	15-Apr-97		7.34	6.44
	30-May-97		7.45	6.33
MW-2				
	9-Jan-95	13.59	4.93	8.66
	27-Jan-95		4.53	9.06
	17-Feb-95		6.58	7.01
	13-Apr-95		6.46	7.13
	8-Jun-95		6.82	6.77
(2)	9-Aug-95	13.39	7.31	6.08
	17-Nov-95		8.12	5.27
	9-Jan-96	13.58 (3)	7.04	6.54
	24-Apr-96		6.56	7.02
	29-Jul-96		7.59	5.99
	13-Dec-96		5.04	8.54
	15-Apr-97		7.17	6.41
	30-May-97		7.28	6.30
MW-3				
	9-Jan-95	14.64	5.38	9.26
	27-Jan-95		4.66	9.98
	17-Feb-95		7.01	7.63
	13-Apr-95		6.93	7.71
	8-Jun-95		7.39	7.25
(2)	9-Aug-95	14.64	7.89	6.75
	17-Nov-95		8.40	6.24
	9-Jan-96	14.60 (3)	7.48	7.12
	24-Apr-96		7.19	7.41
	29-Jul-96		8.08	6.52
	13-Dec-96		5.33	9.27
	15-Apr-97		7.70	6.90
	30-May-97		7.84	6.76
MW-4				
	9-Jan-95	15.55	6.87	8.68
	27-Jan-95		6.75	8.80
	17-Feb-95		7.24	8.31
	13-Apr-95		7.42	8.13
	8-Jun-95		7.64	7.91
(2)	9-Aug-95	15.35	7.93	7.42
	17-Nov-95		8.67	6.68
	9-Jan-96	15.53 (3)	8.12	7.41
	24-Apr-96		7.72	7.81
	29-Jul-96		8.29	7.24
	13-Dec-96		6.75	8.78
	15-Apr-97			
	30-May-97		7.49	8.04
MW-5				

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Well Number	Date	Elevation Top of Casing (msl)	Depth to Groundwater (ft bgs)	Groundwater Elevation (msl)
	9-Jan-95	15.27	6.14	9.13
	27-Jan-95		5.71	9.56
	17-Feb-95		6.59	8.68
	13-Apr-95		6.55	8.72
	8-Jun-95		7.44	7.83
(2)	9-Aug-95	15.87	7.87	8.00
	17-Nov-95		8.65	7.22
	9-Jan-96	15.24 (3)	7.93	7.31
	24-Apr-96		7.49	7.75
	29-Jul-96		8.24	7.00
	13-Dec-96		6.97	8.27
	15-Apr-97			
	30-May-97		7.91	7.33
Off-site				
LF-3				
	8-Sep-94	11.98	5.70	6.28
	29-Mar-95		NM	6.28
	29-Jul-96		5.57	
	13-Dec-96		4.89	
LF-4				
	13-Dec-96		5.62	
LF-7				
	8-Sep-94	11.08	4.97	6.11
	29-Mar-95		3.77	7.31
	9-Aug-95		NM	11.08
	29-Jul-96		9.70	1.38
	13-Dec-96		6.99	
LF-8				
	8-Sep-94	12.75	7.34	5.41
	29-Mar-95		4.88	7.87
	9-Aug-95		NM	7.87
	29-Jul-96		8.21	4.54
	13-Dec-96		5.12	
LF-10				
	9-Aug-95			12.75
	29-Jul-96		NM	NM
	13-Dec-96		3.68	
LF-11				15.87
	8-Sep-94	10.08	NM	11.79
	29-Mar-95			13.23
	9-Aug-95		4.08	12.06
	29-Jul-96		3.93	15.87
	13-Dec-96		4.31	
LF-12			2.64	15.87

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Rifkin Property, Emeryville, California

Well Number	Date	Elevation Top of Casing *(msl)*	Depth to Groundwater *(ft bgs)*	Groundwater Elevation *(msl)*
	8-Sep-94	14.97	3.81	8.50
	29-Mar-95			9.71
	9-Aug-95		7.37	8.64
	29-Jul-96		7.29	15.87
	13-Dec-96		5.69	
LF-13			6.16	15.87
	8-Sep-94	14.76	7.23	8.78
	29-Mar-95			9.96
	9-Aug-95		7.09	8.91
	29-Jul-96		6.96	15.87
	13-Dec-96		5.50	
LF-17				
	13-Dec-96		2.59	
LF-18				
	13-Dec-96		6.44	
LF-19				
	13-Dec-96		4.85	
LF-20				
	13-Dec-96		7.71	
LF-21				
	13-Dec-96		5.06	
LF-22				
	13-Dec-96		9.07	
LF-23				
	13-Dec-96		3.76	
LF-24				
	13-Dec-96		4.10	
LF-25				
	13-Dec-96		6.85	
LF-26				
	13-Dec-96		6.75	
LF-B3			5.91	15.87
	9-Aug-95		6.96	11.89
	29-Jul-96		4.12	10.64
	13-Dec-96		2.70	
LF-B4				15.87
	9-Aug-95		3.98	8.99
	17-Nov-95			7.22
	9-Jan-96	15.24 [3]	6.88	7.31
	24-Apr-96		8.65	15.24
			7.93	
	29-Jul-96		6.97	8.27
	13-Dec-96		5.64	
LF-B5				
	13-Dec-96		9.25	
LF-B6				

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Historical Groundwater Elevation Data
Rifkin Property, Emeryville, California

Well Number	Date	Elevation Top of Casing *(msl)*	Depth to Groundwater *(ft bgs)*	Groundwater Elevation *(msl)*
	13-Dec-96		4.33	
EX-1				
	13-Dec-96		3.20	
EX-2				
	13-Dec-96		~~3.21~~	
EX-3				
	13-Dec-96		5.10	

Data entered by TGL. Proofed by KAG.

Notes

(1) Monitoring well installed by LFR.

(2) Monitoring well installed by TMC Environmental.

(3) Elevation of top casing re-surveyed on April 24 and 25, 1996

(4) For groundwater elevation data for the Sherwin-Williams plant, refer to Table 1 of The Sherv

msl = mean sea level

NM = not measured

bgs = below ground surface

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-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
LF-1	01-Jun-89	30.000	<0.200	0.900	20.000	3.600	15.000	6.000	<0.200	<0.200	<0.200	<0.200	<0.200	75.500	
LF-1	07-Dec-89	<0.010	<0.001	<0.001	<0.020	0.040	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.042	
LF-1	20-Jul-90	0.450	0.002	<0.001	0.200	0.160	<0.001	0.018	<0.001	<0.001	0.005	0.004	<0.001	0.840	#2
LF-1	21-Jun-91	<0.020	<0.005	0.019	<0.020	0.010	<0.010	<0.005	<0.005	<0.005	0.002	<0.005	<0.005	0.032	
LF-1	09-Jul-92	<0.020	<0.005	0.008	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	
LF-1	09-Jun-93	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	
LF-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	
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	

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-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
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	
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	

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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-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
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	
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	

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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-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
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														
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	

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-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
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	
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	0.000	
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	0.010	
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	

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-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
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
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	

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-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
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	
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	
						FIELD BLANKS & TRIP BLANKS									
LF-1-FB	01-Jun-86	0.012	<0.001	<0.001	<0.020	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.016	
LF-1-FB	07-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B1-FB	07-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-13-FB	06-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
Trip Blank	07-Dec-89	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B4-TB	18-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B4-BB	18-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-11-TB	19-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-11-BB	19-Jul-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B4-BR	19-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-8-TB	21-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-8-BR	21-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B3-BR	20-Dec-90	<0.010	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020	
LF-B3-BR	19-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-11-BR	20-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
LF-4-TB	24-Jun-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	
Trip Blank	06-Aug-91	<0.020	<0.005	<0.005	<0.020	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	

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-Hexa-none	Toluene	1,1,1-TCA	1,2-DCA	PCE	TCE	Chloro-benzene	Total Quantified Conc.	Notes
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_____. Data proofed by _____ QA/QC by _____

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

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

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-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		
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 activies			
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	

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-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	
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			

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-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
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	

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
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	

Data entered by_____. Data proofed by _____ QA/QC by _____

Notes:

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

#1 - The concentrations reported as diesel by Anametrix for samples LF-10, LF-10DUP, LF-11, and LF-14 are primarily caused by the presence of a heavier petroleum product, possibly motor oil.
#2 - The concentrations reported as diesel by Anametrix for samples LF-3, LF-3DUP, LF-4, and LF-5 are primarily due to the presence of a lighter petroleum product of hydrocarbon range C6-C12, possibly gasoline.
#3 - The concentrations reported as gasoline by Anametrix for samples LF-B1, LF-B2 and LF-B4 are primarily caused by the presence of discrete hydrocarbon peak not indicative of gasoline.
#4 - The concentration reported by Anametrix as gasoline for samples LF-8 and LF-9 are primarily caused by the presence of a heavier petroleum hydrocarbon peak not indicative of gasoline.
#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				
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

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		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				
LF-9		21-Dec-90	0.120	0.270	0.0029	<0.200				
LF-9		20-Jun-91	0.075	NA	<0.005	0.012				
LF-9		06-Aug-91	0.131	NA	NA	NA				
LF-9		09-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-9		30-Dec-92	0.106	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-9		09-Jun-93	0.158	0.169	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-9		Destroyed or lost during slurry wall and cap construction activities								
LF-10		07-Dec-89	0.650	NA	<0.0400	<0.300				
LF-10		19-Jul-90	0.012	0.110	<0.0500	<0.200				

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		19-Jul-90	0.008	0.140	<0.0500	<0.300				
LF-10		21-Dec-90	1.000	0.330	0.0009	<0.200				
DUP		21-Dec-90	1.100	0.350	0.0007	<0.300				
LF-10		20-Jun-91	0.657	NA	<0.005	0.013				
LF-10		06-Aug-91	1.090	NA	NA	NA				
LF-10		09-Jul-92	0.328	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.025	<0.010
LF-10		31-Dec-92	0.550	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
DUP		31-Dec-92	0.552	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-10		10-Jun-93	0.958	0.249	<0.005	<0.003	<0.010	<0.0002	<0.050	<0.010
LF-10		06-Jan-94	0.940	0.190	<0.001	<0.001	<0.002	<0.0002	<0.004	0.002
DUP		06-Jan-94	0.820	0.180	<0.001	0.001	<0.002	<0.0002	<0.004	0.002
LF-11		05-Dec-89	*<0.070	NA	<0.0400	<0.300				
LF-11		19-Jul-90	0.007	0.120	<0.0500	<0.200				
LF-11		21-Dec-90	0.011	0.180	0.0006	<0.200				
LF-11		20-Jun-91	0.023	NA	<0.005	0.007				
LF-11		20-Jun-91	0.024	NA	<0.005	0.006				
LF-11		06-Aug-91	0.021	NA	NA	NA				
LF-11		09-Jul-92	<0.010	0.169	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-11		31-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-11		09-Jun-93	0.0116	0.152	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-11		05-Jan-94	0.019	0.130	<0.001	<0.001	<0.002	<0.0002	<0.004	0.001
LF-11		16-Apr-96	0.048	NA	NA	<0.002	NA	NA	NA	NA
LF-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

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-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
DUP		17-Mar-97	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-13		12-Jun-97	<0.002	NA	NA	NA	NA	NA	NA	NA
LF-14		04-Sep-90	0.092	0.060	<0.0005	0.007				
LF-14		02-Oct-90	0.077	NA	NA	NA				
LF-14		20-Dec-90	0.150	0.470	0.0036	<0.200				
LF-14		20-Jun-91	0.095	NA	<0.005	<0.004				
LF-14		09-Jul-92	0.039	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-14		31-Dec-92	0.121	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-14		09-Jun-93	0.102	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-14		Destroyed during railway expansion activities								
LF-15		04-Sep-90	0.002	0.060	<0.0005	0.043				
LF-15		20-Dec-90	0.007	0.230	0.0007	<0.200				
LF-15		20-Jun-91	<0.010	NA	<0.005	<0.004				
LF-15		08-Jul-92	<0.010	0.105	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-15		30-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-15		09-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.005	<0.010
LF-15		Destroyed during railway expansion activities								
LF-16		04-Sep-90	0.003	0.060	<0.0005	<0.002				

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-16		20-Dec-90	0.003	0.170	0.0007	<0.200				
LF-16		20-Jun-91	0.010	NA	<0.005	<0.004				
LF-16		09-Jul-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.00027	<0.005	<0.010
LF-16		30-Dec-92	<0.010	<0.100	<0.005	<0.040	<0.010	<0.0002	<0.005	<0.010
LF-16		09-Jun-93	<0.010	<0.100	<0.005	<0.003	<0.010	<0.0002	<0.050	<0.010
LF-16		Destroyed under permit								
LF-18		11-Apr-96	0.012	NA	NA	<0.002	NA	NA	NA	NA
LF-18		30-Jul-96	0.037	NA	NA	NA	NA	NA	NA	NA
LF-18		20-Nov-96	0.043	NA	NA	NA	NA	NA	NA	NA
LF-18		19-Mar-97	0.023	NA	NA	NA	NA	NA	NA	NA
LF-18		11-Jun-97	0.026	NA	NA	NA	NA	NA	NA	NA
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

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-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
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

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		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
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
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

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

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-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 _____. Proofed by _____.

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 validatd based on positive results of bailer rinstate 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 B-Zone.

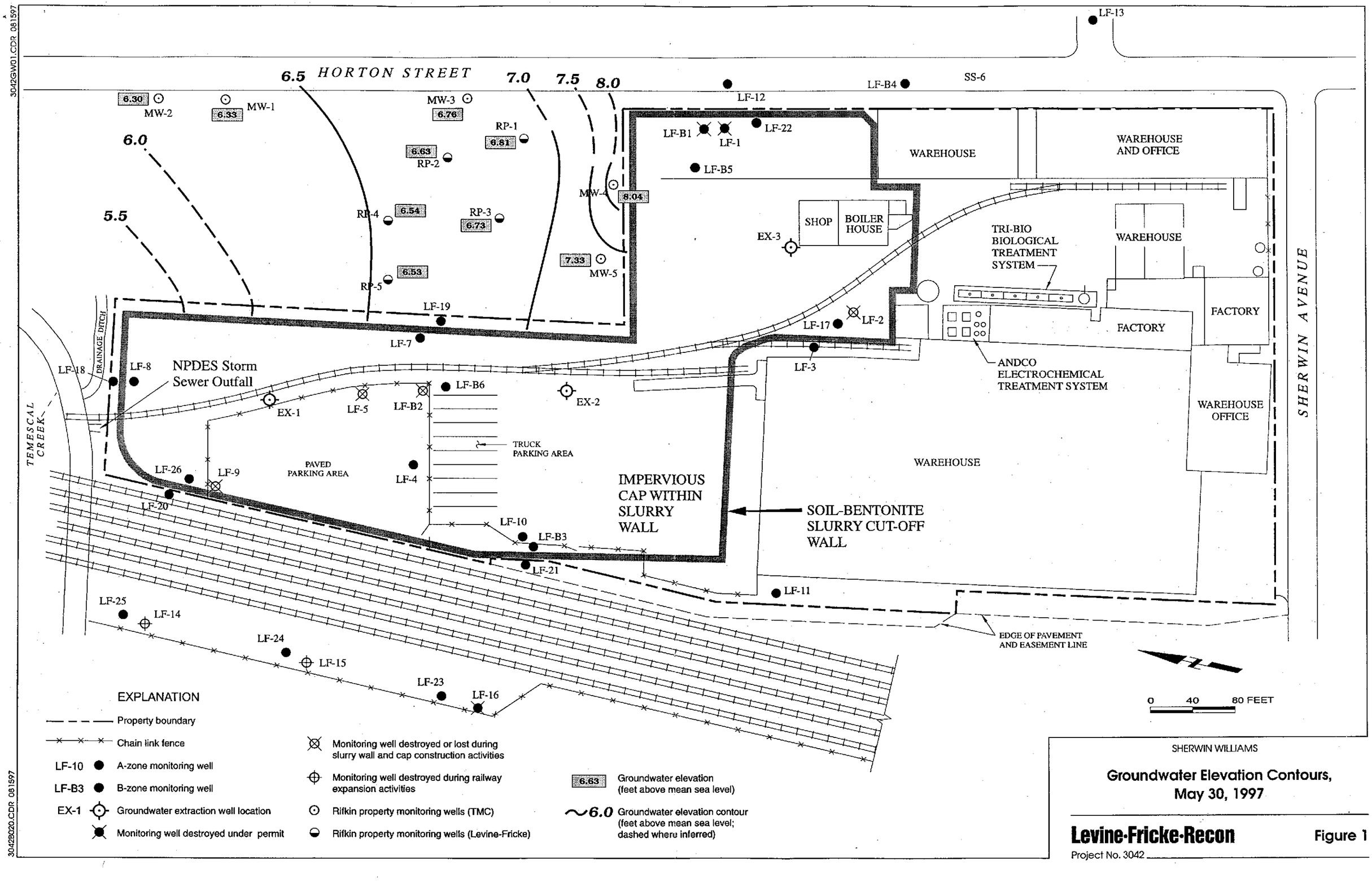
#2 Concentrations of chemicals detected in LF-B5 may not be representative of B-Zone groundwater quality since LF-B5 is only screened within the aquitard between the A-Zone and B-Zone.

NA = Not Analyzed

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

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

3042GW01.CDR 081597



30428020.CDR 081597

SHERWIN WILLIAMS

Groundwater Elevation Contours, May 30, 1997

Levine-Fricke-Recon Figure 1

Project No. 3042

3042AR01.CDR 081597

53rd STREET

TEMESCAL CREEK OVERFLOW

HORTON STREET

FORMER USTs

FORMER USTs

MW-2 0.039

MW-1 0.050

MW-3 0.027

0.077 RP-1

RP-2 0.014

MW-4

0.011/0.009 RP-4

RP-3 0.008

MW-5

0.006 RP-5

0.002

LF-19

LF-7

LF-18

DRAINAGE DITCH

LF-8

NPDES Storm Sewer Outfall

TEMESCAL CREEK

EX-1

LF-5

LF-B2

LF-B6

EX-2

PAVED PARKING AREA

TRUCK PARKING AREA

LF-4

LF-26

LF-9

LF-20

LF-10

LF-B3

LF-21

LF-11

IMPERVIOUS CAP WITHIN SLURRY WALL

SOIL-BENTONITE SLURRY CUT-OFF WALL

LF-12

LF-B4

LF-13

LF-B1

LF-1

LF-22

LF-B5

WAREHOUSE

WAREHOUSE AND OFFICE

SHOP

BOILER HOUSE

EX-3

TRI-BIO BIOLOGICAL TREATMENT SYSTEM

WAREHOUSE

LF-17

LF-2

FACTORY

LF-3

ANDCO ELECTROCHEMICAL TREATMENT SYSTEM

WAREHOUSE

A

B

C

D

0 40 80 FEET

EXPLANATION

- Property boundary
- 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
- Rifkin property monitoring wells (TMC)
- Rifkin property monitoring wells (Levine-Fricke)
- 0.011/0.009 Arsenic detected in shallow ground water (milligrams per liter)
  - Duplicate sample
  - Primary sample

RIFKIN PROPERTY

Concentrations of Arsenic in Shallow Groundwater, June 1997

Levine-Fricke-Recon Figure 2

Project No. 3042

3042B005.CDR 092696KAG:ecm

APPENDIX A

WATER LEVEL AND SAMPLING FIELD FORMS

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3042.95.02

Project Name: Sherwin Williams - Rifkin

Sample Location: Emeryville

Samplers Name: JMR

Sampling Plan Prepared By: ~~HK~~ KAG

Sampling Method:

Date: 6/10/97

Sample No.: RP-2

☐ FB: ____

☐ DUP: ____

☐ Centrifugal Pump ☒ Disposable Bailer

☐ Submersible Pump ☐ Teflon Bailer

☒ Hand Bail ☐ ____ (Other)

☐ Extraction Well Port

Analyses Requested	Number and Types of Bottle used
TPHg, BTEX	3 VOA/HCL
TPHd	2 amber litre
Dissolved As	1 500ml plastic

Method of Shipment: AEN (Lab Name)

☒ Courier ____

☐ Hand Deliver:

Well Number: RP-2

Depth to Water: 8.59

Well Depth: 14.70

Height of Water Column: 6.11

Volume in Well: 1

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

14.70
8.59
6.11
.16
3666
6110
.9776

6.11
.2
1.222
8.59
9.812

80% DTW 9.81

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
9:33								~~RP-2~~ start
9:35		1		18.8	6.37	935		turbid
9:37		2		18.8	6.35	933		turbid
9:39		3		18.7	6.34	928		turbid
	8.65							
9:45								Sample

Inlet Depth: ____

Comments: ____
(Recommended Method For Purging Well)

LEVINE•FRICKE

Page ____ of ____

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3042.95.02

Project Name: Sherwin Williams - Rifkin

Sample Location: Emeryville

Samplers Name: JMR

Sampling Plan Prepared By: ~~JMR~~ KAG

Sampling Method:

Date: 6/10/97

Sample No.: RP-3

☐ FB:

☐ DUP:

- ☐ Centrifugal Pump
- ☐ Submersible Pump
- ☒ Hand Bail
- ☐ Extraction Well Port
- ☒ Disposable Bailer
- ☐ Teflon Bailer
- ☐ _____ (Other)

Analyses Requested	Number and Types of Bottle used
TPHg, BTEX	3 VOA/HCL
TPHd	2 Amber litre
Dissolved As	500ml plastic

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: RP-3

Depth to Water: 8.44

Well Depth: 13.10

Height of Water Column: 4.66

Volume in Well: 1

Well Diameter:

- ☒ 2" (0.16 Gallon/Feet)
- ☐ 4" (0.65 Gallon/Feet
- ☐ 5" (1.02 Gallon/Feet)
- ☐ 6" (1.47 Gallon/Feet)

13.10
8.44
4.66
.16
2796
4660
.7456

4.66
.2
.932
8.44
9.372

80% DTW 9.37

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
10:40								Start
10:42		1		19.1	6.23	1512		turbid
10:44		2		19.1	6.22	1495		turbid
10:46		3		19.0	6.22	1444		turbid
	8.85							
10:50								Sample

Inlet Depth: _____

Comments: _____

(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.28NOV94RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3042.95.02

Date: 6/10/97

Project Name: Sherwin Williams - Rifkin

Sample No.: MW-1

Sample Location: Emeryville

☐ FB: ____

Samplers Name: JMR

☐ DUP: ____

Sampling Plan Prepared By: ~~HLK~~ KAG

Sampling Method: ____

- ☐ Centrifugal Pump
- ☐ Submersible Pump
- ☒ Hand Bail
- ☐ Extraction Well Port
- ☒ Disposable Bailer
- ☐ Teflon Bailer
- ☐ ____ (Other)

Analyses Requested	Number and Types of Bottle used
TPHg, BTEX	3 VOA/HCl
TPHd	2 amber liter
Dissolved As	1 ~~500ml~~ plastic

Method of Shipment: AEN (Lab Name)

☒ Courier ____

☐ Hand Deliver:

Well Number: MW-1

Depth to Water: 7.42

Well Depth: 15.60

Height of Water Column: 8.18

Volume in Well: 1.5

Well Diameter: ____

- ☒ 2" (0.16 Gallon/Feet)
- ☐ 4" (0.65 Gallon/Feet)
- ☐ 5" (1.02 Gallon/Feet)
- ☐ 6" (1.47 Gallon/Feet)

15.60
7.42
8.18
.16
4908
8180
13088

8.18
.2
1.636
7.42
9.056

80% DTW 9.05

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
11:52								Start
11:54		1.5		20.1	5.94	894		turbid
11:56		3		20.0	5.99	879		turbid
11:58		4.5		19.9	6.04	825		turbid
								spots of sheen noticed
	7.45							in bucket
12:05								Sample

Inlet Depth: ____

Comments: ____
(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.28NOV94RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3042.95.02

Project Name: Sherwin Williams - Rifkin

Sample Location: Emeryville

Samplers Name: JMR

Sampling Plan Prepared By: ~~JMR~~ KAG

Sampling Method:

Date: 6/10/97

Sample No.: MW-2

☐ FB: ____

☐ DUP: ____

☐ Centrifugal Pump ☒ Disposable Bailer

☐ Submersible Pump ☐ Teflon Bailer

☒ Hand Bail ☐ ____ (Other)

☐ Extraction Well Port

Analyses Requested	Number and Types of Bottle used
TPHg, BTEX	3 VOA/HCL
TPHd	2 amber litre
Dissolved As	1 500 ml plastic

Method of Shipment: AEN (Lab Name) ☒ Courier ____ ☐ Hand Deliver:

Well Number: MW-2

Depth to Water: 7.24

Well Depth: 15.50

Height of Water Column: 8.26

Volume in Well: 1.5

Well Diameter: ☒ 2" (0.16 Gallon/Feet) ☐ 4" (0.65 Gallon/Feet) ☐ 5" (1.02 Gallon/Feet) ☐ 6" (1.47 Gallon/Feet)

15.50
7.24
8.26
.16
4956
8260
1.3216

8.26
.2
1.652
7.24
8.892

80% DTW 8.89

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
12:20								start
12:22		1.5		19.2	6.36	731		turbid
12:24		3		19.0	6.22	837		turbid
12:26		4.5		19.0	6.17	838		turbid
								spots of sheen noticed in bucket
	8.89							
12:35								Sample

Inlet Depth: ____

Comments: ____

(Recommended Method For Purging Well)

WTR QLTY SMPLNG INFO 28NOV94 RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3042.95.02

Project Name: Sherwin Williams - Rifkin

Sample Location: Emeryville

Samplers Name: JMR

Sampling Plan Prepared By: ~~JCL~~ KAG

Sampling Method:

Date: 6/10/97

Sample No.: MW-3

☐ FB: ____

☐ DUP: ____

☐ Centrifugal Pump ☒ Disposable Bailer

☐ Submersible Pump ☐ Teflon Bailer

☒ Hand Bail ☐ ____ (Other)

☐ Extraction Well Port

Analyses Requested	Number and Types of Bottle used
TPHg, BTEX	3 VOA/HCL
TPHd	2 amber liter
Dissolved As	1 500ml plastic

Method of Shipment: AEN (Lab Name)

☒ Courier ____

☐ Hand Deliver:

Well Number: MW-3

Depth to Water: 7.80

Well Depth: 19.20

Height of Water Column: 11.40

Volume in Well: 2

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

19.20
7.80
11.40
.16
6840
11400
1.8240

11.40
.2
2.280
7.80
10.080

80% DTW 10.08

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
11:16								Start
11:18		2		19.1	6.70	511		Sl. turbid
11:20		4		18.8	6.68	507		Sl. turbid
11:22		6		18.7	6.67	483		turbid
	8.15							
11:30								Samp6

Inlet Depth: ____

Comments: ____

(Recommended Method For Purging Well)

APPENDIX B

SUMMARY OF ANALYTICAL QUALITY ASSURANCE AND QUALITY CONTROL

Table B-1

Summary of Sampling QA/QC		
Site Name: The Rifkin Property	**Site Address:** 4523-4563 Horton Street Emeryville, California	**Monitoring Period Covered:** April 1 to June 30, 1997

Sampling performed by: Jeff Rodgers
Firm name: Levine - 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?	☑ Yes	☐ No
Were field parameters stabilize prior to taking sample?	☑ Yes	☐ No
For VOCs samples, was there zero head space in sample containers?	☑ Yes	☐ No
Were samples preserved according to analytical method?	☑ Yes	☐ No
Were the required field QA/QC samples taken?	☑ Yes	☐ No

For any questions above answered with "No", please provide an explanation:

Data entered by TGL. QA/QC by KAG

Table B-2

Summary of Analytical QA/QC		
Site Name:	**Site Address:**	**Monitoring Period Covered:**
The Rifkin Property	4523-4563 Horton Street Emeryville, California	April to June 30, 1997

Analysis performed by: Larry Klein
Lab name: American Environmental Network
Lab address: 3440 Vincent Road
Lab contact: Robin Byars
Lab phone number: (510) 930-9090

Analytical method used: (check applicable methods)

- ☐ Total Dissolved Solids by EPA Method _____
- ☐ Bioassay 96-hr % survival by Standard Method _____
- ☐ Turbidity (NTU) by EPA Method _____
- ☐ Dissolved Oxygen (mg/l and % saturation) by Standard Method
- ☐ Hardness (mg/l CaCO3) by EPA Method _____
- ☐ Arsenic by EPA Method 7060
- ☐ Cadmium by EPA Method _____
- ☐ Chromium (total) by EPA Method _____
- ☐ Chromium (hexavalent) EPA Method _____
- ☐ Copper by EPA Method _____
- ☐ Lead by EPA Method _____
- ☐ Mercury by EPA Method _____
- ☐ Nickel by EPA Method _____
- ☐ Selenium by EPA Method _____
- ☐ Silver by EPA Method _____
- ☐ Zinc by EPA Method _____
- ☐ Halogenated Volatile Organics by EPA Method 601 or 8010
- ☐ Aromatic and Unsaturated Volatile Organics by EPA 602 or 8020
- ☐ Volatile Organics by EPA Method 624 or 8240
- ☐ Semivolatile Organics by EPA Method 625 or 8270
- ☐ EDB and DBCP by EPA Method 504
- ☐ TPH gasoline by EPA Method 8015 modified
- ☑ TPH diesel by EPA Method 8015 modified
- ☑ Chlorinated Hydrocarbons by EPA Method 8120

Is the lab state-certified for the above analytical method(s)?	☑ Yes ☐ No
Was analysis performed according to standard methods?	☑ Yes ☐ No
Were sample holding times met?	☑ Yes ☐ No
Were all reported analytical results values above MDLs?	☑ Yes ☐ No
Were QA/QC samples (i.e. blanks, field replicates, spikes, and surrogates)	
analyzed in accordance and consistent with the analytical method?	☑ Yes ☐ No
Did QA/QC results meet all acceptance criteria?	☑ Yes ☐ No
Are QA/QC results and acceptance criteria on file?	☑ Yes ☐ 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.

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

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	20 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

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 B-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

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

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