

LBC ENGINEERING SERVICES, P.C.

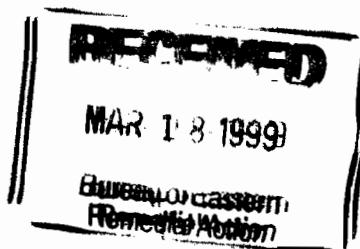
Professional Environmental & Civil Engineers



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March 17, 1999

Ms. Pamela Tames
Chief, New York/Caribbean Superfund Branch II
Emergency and Remedial Response Division
U.S. EPA, Region II
290 Broadway
New York, NY 10007-1688



RE: Soil Remedial Action
SVE Operation and Maintenance
Week 1 - 4 (Jan. 28 - Feb. 25) Technical Summary
Rowe Industries Site
Sag Harbor, New York

Dear Ms. Tames:

The following is a summary of Soil Vapor Extraction (SVE) Operation and Maintenance (O&M) activities completed at the site since January 28, 1999. Activities completed during the Interim O&M (IO&M) period are reviewed for background.

Background

As you will recall, during the IO&M period (completed from December 2 through 28, 1998) SVE Well 4, located in the parking lot, and SVE Well 10, located in the former drum storage area (FDSA), were used to withdraw volatile organic compound (VOC)-impacted vapors from the subsurface. Also during that time, the Soil Impoundment (SI) was online and configured so that all manifolds (North, South and Middle) were used to withdraw vapors from the SI. Throughout the IO&M period, VOC concentrations declined steadily.

During the IO&M period, approximately 304 pounds of VOCs had been adsorbed by Carbon Unit No. 1. This mass corresponds to the amount of VOCs that were removed by 1,500 pounds of carbon (Carbon Unit No.1) before it became saturated and required replacement. As a result of IO&M activities, it was determined that the absorption capacity of the carbon is

20 percent (304 lb VOCs/1,500 lb carbon). Total air flow through the SVE system as measured at the pre-carbon location was approximately 700 acfm (actual cubic feet per minute).

The system was shut down on December 28, 1998 in order to facilitate a carbon change-out for both units and to allow contaminants in the subsurface to equilibrate. When the carbon was replaced, only 1,250 pounds of carbon were able to fit inside each unit. The carbon was taken from bags and, as a result, compacted less than the original carbon was from placement at the manufacturer's facility and subsequent transportation. The estimated mass of VOCs removed before the first carbon unit is saturated is 20 percent of 1,250 lbs. (or 250 lbs). Following the carbon change-out on January 28, 1999, the SVE system was restarted. The subsequent O&M activities adhered to the O&M Plan submitted February 16, 1999. The combined schedule presented in the O&M plan, designated by weekly operation scenarios, was designed to effectively sweep across the FDSA and the SI with active SVE wells and SI manifold header screens.

Week 1 - System Operation

The first operation scenario, Week 1, combined the operation of SVE Well 6 with SVE Well 8 in the FDSA and the South manifold in the SI. This scenario was in operation from January 28, following the carbon change-out, through February 4. Vacuum was applied to Manifold B and Manifold C, which correspond to SVE Wells 6 and 8, respectively, using the 20 horsepower (HP) blower. The 3 HP blower withdrew vapors from within the SI by way of the upper header screen of the South SI manifold. The lower header screen of the South manifold was closed so air flow was not short circuited at that location. The North and Middle manifolds were opened to allow ambient air into the impoundment. Operating the system in this configuration produced air flows of up 230 acfm (actual cubic feet per minute) in Manifold B, 154 acfm in Manifold C and 127 acfm in the main SI manifold, located in the treatment shed.

Week 2 - System Operation

The Week 2 scenario, in operation from February 4 through 11, combined SVE Well 9 with SVE Well 11 in the FDSA and the Middle manifold in the SI. Vacuum, produced by the 20 HP blower, was applied to Manifold B and Manifold A, which correspond to SVE Wells 9 and 11, respectively. Vapors were withdrawn from the SI by way of the Middle manifold's lower header screens. The vacuum applied to the SI manifold was produced by the 3 HP blower. The North and South manifolds of the SI were opened to allow ambient air into the impoundment. Air flows produced by this operation scenario were up to 239 acfm in Manifold B, 196 acfm in Manifold A and 110 acfm in the main SI manifold.

Week 3 - System Operation

Week 3 operation scenario, completed from February 11 through 18, combined SVE Well 13 with SVE Well 14 in the FDSA and the North manifold in the SI. Manifold A and Manifold C, which correspond to SVE Wells 13 and 14 respectively, were active during this scenario. Vacuum, produced by the 20 HP blower, was applied to these manifolds. The 3 HP blower was actively withdrawing vapors from the SI by way of the North manifolds upper header screens. The Middle and South manifolds in the SI were open to ambient air. Operating the system in this configuration produced airflows of up to 239 acfm in Manifold A, 220 acfm in Manifold C and 129 acfm in the main SI manifold.

Week 4 - System Operation

The final operation scenario during this period, Week 4, was completed from February 18 through 25. The O&M activities scheduled for this scenario were defined in the O&M Plan, submitted February 16, 1999. SVE Well 6 and SVE Well 8 were activated to withdraw vapor from the FDSA by way of Manifolds B and C, respectively. Vacuum applied to Manifolds B and C was produced by the 20 HP blower. The 3 HP blower withdrew vapor from the SI by way of the back side header screens of the North and South manifolds. The front header screen of the Middle manifold was open to allow ambient air into the SI. Operating the system in this

configuration produced airflows of up to 255 acfm in Manifold B, 172 acfm in Manifold C and 128 acfm in the main SI manifold.

Air Quality & Carbon Performance

Throughout the O&M period, air samples were collected from all active manifolds and pre-, mid- and post-carbon locations. The samples were screened using a photoionization detector (PID) and a portable gas chromatograph (GC). Select air samples were also analyzed using EPA Methods TO-1 and TO-2 by Severn Trent Laboratories. Ambient air was screened onsite, by means of a PID, at two down-wind locations and one up-wind location at scheduled times. The results of the screening and laboratory analysis are presented in the attached tables.

The portable GC was used as a screening tool to determine the trend in PCE concentration over the weekly scenarios. Initially, the analytical results obtained by using the GC did not correspond well with the laboratory data. The cause was attributed to a possible flow problem inside a pressure valve contained within the unit. The results from the GC were on average 42 percent over the laboratory concentrations for PCE. After the Week 2 scenario, samples were analyzed, a loose flow regulator was noticed and tightened. After the regulator was repaired, GC results were on average 13 percent below the laboratory results. To help evaluate the validity of the screening results, the GC unit was subsequently sent to its manufacturer for a performance evaluation. The manufacturer determined that the unit was performing properly. The unit was received back from the manufacturer on March 8 and is still being used. Based on the manufacturer's evaluation, analytical results following the repair of the regulator will be used for VOC concentration trend analysis. The use of the GC as an analysis tool will continue throughout the O&M period.

VOC concentrations at the pre-carbon sample location gradually decreased over the duration of each scenario except for the Week 4 scenario which experienced an increase in the concentration at the pre-carbon location. VOC loading on the two carbon units was calculated based on the flow calculations and the laboratory data and PID screening results. During the four-week period detailed above, an estimated 14 pounds of VOCs had been adsorbed by the

carbon units. Based on analytical testing, it appears that of the 14 pounds adsorbed, 13 pounds is PCE. This corresponds to only 6 percent of Carbon Unit No.1's adsorption capacity of 250 lbs. of VOCs. At this removal rate, Carbon Unit No.1 is projected to effectively remove VOCs from extracted air at least until the summer before the carbon will require changing.

At no time during the four weeks of operation summarized above, did the discharge air stream surpass the NYSDEC permissible total VOC discharge rate of 0.022 lbs/hr. The maximum discharge rate calculated was 0.002 lbs/hr. at the initial system startup. This discharge rate is attributed to the initial VOC concentration spike as the system was restarted.

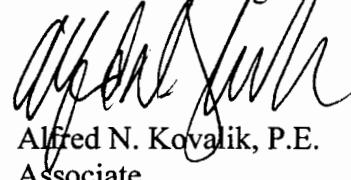
The attached tables, graphs and figure present a summary of operating conditions over the past month.

Very truly yours,

LBG ENGINEERING SERVICES, P.C.



Paul Jobmann
Environmental Engineer



Alfred N. Kovalik, P.E.
Associate

PMJ:skd

Attachments

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**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

**WEEK 1 - WEEK 4
(Jan. 28 - Feb 25)**

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**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

SUMMARY OF SVE SYSTEM OPERATION

Event	Time Interval	Cumm. Time of Operation						
			Date	Time	(hh:mm)	O&M Event	Operating Conditions	Comments
1/28/99	11:10	-				Carbon change-out Units 1 and 2	Modify system configuration (Week 1 scenario)	
1/28/99	14:10	-				Initial Startup	SVE 6 & SVE 8 w/ dilution (notch 8) and South SI w/o dilution	Replace carbon in units with 1250 lbs/Unit
1/28/99	14:15	00:05	00:05			5 minute sampling event		North and Middle SI manifolds ambient
1/28/99	14:40	00:25	00:30			30 minute sampling event		
1/28/99	15:10	00:30	01:00			1 hour sampling event		
1/28/99	15:30	00:20	01:20			Vacuum gauge readings		
1/28/99	18:10	03:00	04:00			4 hour sampling event		
1/28/99	21:50	03:40	07:40			8 hour sampling event		
1/29/99	7:40	09:50	17:30			Vacuum gauge readings		
1/29/99	12:45	05:05	22:35			24 hour sampling event		
2/4/99	8:10	139:25	162:00			Vacuum gauge readings		
2/4/99	10:00	01:50	163:50			7 day sampling event		
2/4/99	10:16	00:16	164:06			Manual Shut-Down System	Modify system configuration (Week 2 scenario)	Pumped out 20 HP Blower Moisture Separator (~ 15 gallons)
2/4/99	12:20	-	-			Restart System	SVE 9 & SVE 11 w/ dilution (notch 9) and Middle SI w/o dilution	North and South SI manifolds ambient
2/4/99	12:25	00:05	00:05			5 minute sampling event		
2/4/99	12:50	00:25	00:30			30 minute sampling event		
2/4/99	13:20	00:30	01:00			1 hour sampling event		
2/4/99	13:28	00:08	01:08			Vacuum gauge readings		
2/4/99	14:20	00:52	02:00			2 hour sampling event		
2/4/99	16:20	02:00	04:00			4 hour sampling event		
2/4/99	20:18	03:58	07:58			8 hour sampling event		
2/5/99	7:50	11:32	19:30			Vacuum gauge readings		
2/5/99	11:20	03:30	23:00			24 hour sampling event		
2/11/99	7:45	140:25	163:25			Vacuum gauge readings		
2/11/99	9:25	01:40	165:05			7 day sampling event		

Event		Time	Cumm. Time of Operation	O&M Event	Operating Conditions	Comments
Date	Time	Interval (hh:mm)	(hh:mm)			
2/11/99	9:40	00:15	165:20	Manual Shut-Down System	Modify system configuration (Week 3 scenario)	-
2/11/99	10:20	-	-	Restart System	SVE 13 & SVE 14 w/ dilution (notch 9) and North SI w/o dilution	Middle and South SI manifolds ambient
2/11/99	10:25	00:05	00:05	5 minute sampling event	-	-
2/11/99	10:50	00:25	00:30	30 minute sampling event	-	-
2/11/99	11:20	00:30	01:00	1 hour sampling event	-	-
2/11/99	11:32	00:12	01:12	Vacuum gauge readings	-	-
2/11/99	12:20	00:48	02:00	2 hour sampling event	-	-
2/11/99	14:20	02:00	04:00	4 hour sampling event	-	-
2/11/99	18:20	04:00	08:00	8 hour sampling event	-	-
2/12/99	6:45	12:25	20:25	Vacuum gauge readings	-	-
2/12/99	9:20	02:35	23:00	24 hour sampling event	-	-
2/18/99	7:30	142:10	165:10	Vacuum gauge readings	-	-
2/18/99	9:35	02:05	167:15	7 day sampling event	-	-
2/18/99	9:47	00:12	167:27	Manual Shut-Down System	Modify system configuration (Week 4 scenario)	-
2/18/99	9:55	-	-	Restart System	SVE 6 & SVE 8 w/ dilution (notch 9) and Front North and South SI w/o dilution	Middle Back SI manifold ambient
2/18/99	10:25	00:30	00:30	30 Minute sampling event	-	-
2/18/99	11:55	01:30	02:00	2 hour sampling event	-	-
2/18/99	17:55	06:00	08:00	8 hour sampling event	-	-
2/23/99	7:16	109:21	117:21	Alarm Shutdown	System shutdown due to alarm. Alarm from possible power loss.	Pumped out 20 HP Blower Moisture Separator (~ 20 gallons)
2/25/99	7:30	-	-	Restart System	SVE 6 & SVE 8 w/ dilution (notch 9) and Front North and South SI w/o dilution	-
2/25/99	9:38	02:08	02:08	Vacuum gauge readings	-	-
2/25/99	11:30	01:52	04:00	7 day sampling event	-	-
2/25/99	11:45	00:15	04:15	Manual Shut-Down System	Modify system configuration (Week 5 scenario)	-
2/25/99	12:25	-	-	Restart System	SVE 9 & SVE 11 w/ dilution (notch 9) and Back North and South SI w/o dilution	Middle Front SI manifold ambient
2/25/99	12:55	00:30	00:30	30 Minute sampling event	"	"
2/25/99	14:25	01:30	02:00	2 hour sampling event	"	"
2/25/99	20:25	06:00	08:00	8 hour sampling event	"	"

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

AIRFLOW CALCULATIONS

Date	Manifold A (FM 3)						Manifold B (FM 4)						Manifold C (FM 2)					
	Air Temp. T_f (deg F)	Gage Pressure / Vacuum (in of W.C.)	Vapor Diff. Pressure (in of W.C.)	Absolute Well Head Vacuum P_f (psia)	Standard Air Flow Q_s (scfm)	Actual Air Flow Q_a (acf m)	Air Temp. T_f (deg F)	Gage Pressure / Vacuum (in of W.C.)	Vapor Diff. Pressure (in of W.C.)	Absolute Well Head Vacuum P_f (psia)	Standard Air Flow Q_s (scfm)	Actual Air Flow Q_a (acf m)	Air Temp. T_f (deg F)	Gage Pressure / Vacuum (in of W.C.)	Vapor Diff. Pressure (in of W.C.)	Absolute Well Head Vacuum P_f (psia)	Standard Air Flow Q_s (scfm)	Actual Air Flow Q_a (acf m)
1/28/99	0	0.0	0.0	14.73	0	0	38.0	34.0	7.8	13.50	205	214	40.0	37.0	4.0	13.39	146	154
1/28/99	0	0.0	0.0	14.73	0	0	38.0	36.0	8.4	13.43	212	223	40.0	38.0	3.5	13.36	136	144
1/29/99	0	0.0	0.0	14.73	0	0	38.0	36.0	8.8	13.43	217	228	40.0	38.0	3.5	13.36	136	144
2/4/99	0	0.0	0.0	14.73	0	0	36.0	37.0	9.0	13.39	220	230	38.0	38.0	3.0	13.36	126	133
2/4/99	42	36.5	6.0	13.41	178	189	37.0	37.0	9.5	13.39	225	237	0.0	0.0	0.0	14.73	0	0
2/4/99	43	38.5	6.0	13.34	178	190	37.0	39.5	8.9	13.30	217	230	0.0	0.0	0.0	14.73	0	0
2/5/99	42	38.0	6.4	13.36	184	196	38.0	38.0	8.9	13.36	218	230	0.0	0.0	0.0	14.73	0	0
2/11/99	42	37.5	6.2	13.38	181	193	37.0	38.0	9.6	13.36	226	239	0.0	0.0	0.0	14.73	0	0
2/11/99	42	40.0	9.4	13.29	222	238	0.0	0.0	0.0	14.73	0	0	40.0	43.0	8.0	13.18	205	220
2/11/99	42	43.5	9.2	13.16	219	236	0.0	0.0	0.0	14.73	0	0	40.0	46.0	7.0	13.07	191	207
2/12/99	42	43.5	9.1	13.16	218	235	0.0	0.0	0.0	14.73	0	0	40.0	46.0	7.0	13.07	191	207
2/18/99	42	43.0	9.4	13.18	221	239	0.0	0.0	0.0	14.73	0	0	40.0	46.5	7.3	13.05	194	210
2/18/99	0	0.0	0.0	14.73	0	0	37.0	37.5	11.0	13.38	242	255	40.0	40.0	4.5	13.29	154	164
2/25/99	0	0.0	0.0	14.73	0	0	36.0	37.0	10.0	13.39	232	243	37.5	39.0	5.0	13.32	163	172
2/25/99	40	33.5	5.8	13.52	176	185	36	34	9	13.50	221	229	0	0	0	14.73	0	0

Date	Manifold D (FM 6)						Manifold E (FM 5)						Soil Impoundment Manifold (FM 1)					
	Air Temp.	Gage Pressure / Vacuum	Vapor Diff. Pressure	Absolute Well Head Vacuum P _f	Standard Air Flow Q _s	Actual Air Flow Q _a	Air Temp.	Gage Pressure / Vacuum	Vapor Diff. Pressure	Absolute Well Head Vacuum P _f	Standard Air Flow Q _s	Actual Air Flow Q _a	Air Temp.	Gage Pressure / Vacuum	Vapor Diff. Pressure	Absolute Well Head Vacuum P _f	Standard Air Flow Q _s	Actual Air Flow Q _a
	T _f (deg F)	(in of W.C.)	(in of W.C.)	(psia)	(scfm)	(scfm)	T _f (deg F)	(in of W.C.)	(in of W.C.)	(psia)	(scfm)	(scfm)	T _f (deg F)	(in of W.C.)	(in of W.C.)	(psia)	(scfm)	(scfm)
1/28/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	10.0	2.8	14.37	126	125
1/28/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	10.0	2.8	14.37	126	125
1/29/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	38.0	10.0	2.9	14.37	129	127
2/4/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	36.0	10.0	2.9	14.37	129	126
2/4/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	21.5	2.0	13.95	105	107
2/4/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	22.0	2.0	13.94	105	107
2/5/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	22.0	2.0	13.94	105	107
2/11/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	39.0	22.5	2.1	13.92	108	110
2/11/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	39.0	10.0	3.0	14.37	131	129
2/11/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	38.0	10.0	3.0	14.37	131	129
2/12/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	10.0	3.0	14.37	131	129
2/18/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	10.0	3.0	14.37	131	129
2/18/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	41.0	10.0	3.0	14.37	128	127
2/25/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	36.0	9.5	3.0	14.39	131	128
2/25/99	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	36.0	8.0	3.0	14.44	132	128

Date	SVE SYSTEM 20 HP Blower *		SOIL IMPOUNDMENT 3HP Blower*		Pre-Carbon (FM 7)					
	Standard Air Flow Q _s	Actual Air Flow Q _a	Standard Air Flow Q _s	Actual Air Flow Q _a	Air Temp. T _r	Gage Pressure / Vacuum	Vapor Diff. Pressure	Absolute Well Head Vacuum P _f	Standard Air Flow** Q _s	Actual Air Flow** Q _a
	(scfm)	(scfm)	(scfm)	(scfm)	(deg F)	(in. of W.C.)	(in. of W.C.)	(psia)	(scfm)	(scfm)
1/28/99	351	368	126	125	40	22.5	7.0	13.92	728	741
1/28/99	348	367	126	125	40	22.0	7.0	13.94	728	740
1/29/99	353	372	129	127	38	22.0	6.8	13.94	719	728
2/4/99	346	364	129	126	50	22.5	7.0	13.92	721	748
2/4/99	404	426	105	107	54	21.5	6.8	13.95	708	739
2/4/99	395	420	105	107	52	21.0	6.5	13.97	694	721
2/5/99	402	426	105	107	43	21.0	6.6	13.97	706	720
2/11/99	407	431	108	110	49	21.5	6.8	13.95	712	736
2/11/99	427	458	131	129	53	22.0	7.0	13.94	719	750
2/11/99	409	443	131	129	48	21.0	6.6	13.97	702	723
2/12/99	408	442	131	129	58	21.0	6.6	13.97	696	731
2/18/99	415	449	131	129	48	21.0	6.3	13.97	686	707
2/18/99	396	419	128	127	49	22.0	6.6	13.94	701	725
2/25/99	395	415	131	128	36	22.5	6.7	13.92	715	722
2/25/99	397	414	132	128	38	23.0	6.8	13.90	718	729

* Airflows calculated by summation of Manifold Values

** Pre-Carbon Airflows contain dilution air from 20 HP blower.

$$P_f = P_{abs} - (0.0361 \times \text{inches W.C.})$$

$$Q_s = C_1 \times \sqrt{d_p \times P_f / SG_t(T_r + 460)}$$

$$Q_a = Q_s \times [(14.73/P_f) \times ((T_r + 460)/520)]$$

$$C_1 = 128.8 \times K \times \text{sq}(D_i) \times F_1$$

$$C_1 = 445.51 \quad (\text{flow constant})$$

$$SG_t = 1 \quad (\text{specific gravity of air at STD})$$

$$K = 0.2134 \quad (\text{flow coefficient of venturi meter})$$

$$F_1 = 1 \quad (\text{thermal expansion of pipe})$$

$$D_i = 4.026 \quad (\text{inside pipe diameter})$$

$$C_1 = 1,648.76 \quad (\text{flow constant})$$

$$SG_t = 1 \quad (\text{specific gravity of air at STD})$$

$$K = 0.3480 \quad (\text{flow coefficient of venturi meter})$$

$$F_1 = 1 \quad (\text{thermal expansion of pipe})$$

$$D_i = 6.065 \quad (\text{inside pipe diameter})$$

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

AIRFLOW SUMMARY (acfm)

Date	Manifold A	Manifold B	Manifold C	Manifold D	Manifold E	SI	Pre-Carbon	Dilution Air*
1/28/99	0	214	154	0	0	125	741	248
1/28/99	0	223	144	0	0	125	740	248
1/29/99	0	228	144	0	0	127	728	229
2/4/99	0	230	133	0	0	126	748	258
2/4/99	189	237	0	0	0	107	739	206
2/4/99	190	230	0	0	0	107	721	194
2/5/99	196	230	0	0	0	107	720	187
2/11/99	193	239	0	0	0	110	736	195
2/11/99	238	0	220	0	0	129	750	163
2/11/99	236	0	207	0	0	129	723	152
2/12/99	235	0	207	0	0	129	731	160
2/18/99	239	0	210	0	0	129	707	129
2/18/99	0	255	164	0	0	127	725	179
2/25/99	0	243	172	0	0	128	722	178
2/25/99	185	229	0	0	0	128	729	187

* If the total Summation of Manifold Airflows (A through SI) is less than the Pre-Carbon Airflow, then the difference was used as an estimate of the Dilution Air. Dilution air contributed by the 20 HP blower.

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

TEMPERATURE SUMMARY (degrees F)

Date	Manifold A	Manifold B	Manifold C	Manifold D	Manifold E	SI	Pre-Heat Ex	Pre-Carbon	Mid-Carbon	Post-Carbon	Ambient
1/28/99	0	38	40	0	0	40	123	40	46	48	39
1/28/99	0	38	40	0	0	40	125	40	44	48	35
1/29/99	0	38	40	0	0	38	124	38	42	44	32
2/4/99	0	36	38	0	0	36	128	50	46	46	41
2/4/99	42	37	0	0	0	40	128	54	52	56	48
2/4/99	43	37	0	0	0	40	131	52	50	54	46
2/5/99	42	38	0	0	0	40	130	43	44	48	39
2/11/99	42	37	0	0	0	39	128	49	46	50	39
2/11/99	42	0	40	0	0	39	128	49	46	50	39
2/11/99	42	0	40	0	0	38	130	53	50	54	46
2/12/99	42	0	40	0	0	40	134	58	50	54	50
2/18/99	42	0	40	0	0	40	140	48	49	48	41
2/18/99	0	37	40	0	0	41	136	49	46	48	39
2/25/99	0	36	38	0	0	36	123	36	38	38	33
2/25/99	40	36	0	0	0	36	121	38	38	38	31

Value of 0 in any column indicates the manifold was not in operation during O&M activities.

SOIL REMEDIAL ACTION
 SVE OPERATION AND MAINTENANCE
 ROWE INDUSTRIES SITE
 SAG HARBOR, NEW YORK

PRE-CARBON (SMP 7)* (1 of 2)

		PCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m&p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	TOTAL VOC (mg/m ³)	Comments
	WEEK 1	Sample Date	Sample Time														
	1/28/99	14:15	3.0E+01	0	0	0	0	0	5.0E-01	0	0	0	0	0	0	3.1E+01	
	1/28/99	14:15	5.7E+01	-	-	-	-	-	-	-	-	-	-	-	-	5.7E+01	
	1/28/99	14:40	6.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	6.3E+01	
	1/28/99	15:10	5.9E+01	-	-	-	-	-	-	-	-	-	-	-	-	5.9E+01	
	1/28/99	18:10	6.7E+01	-	-	-	-	-	-	-	-	-	-	-	-	6.7E+01	
	1/28/99	22:05	6.0E+01	-	-	-	-	-	-	-	-	-	-	-	-	6.0E+01	
	1/29/99	13:06	8.8E+01	-	-	-	-	-	-	-	-	-	-	-	-	8.8E+01	
	2/4/99	10:10	9.0	0	0	0	0	1.9E-01	0	0	0	0	0	0	0	9.2	
	2/4/99	10:10	2.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	2.3E+01	
	WEEK 2																
	2/4/99	12:25	1.7E+01	0	0	1.0E-01	0	0	3.8E-01	0	0	0	0	0	0	1.7E+01	
	2/4/99	12:25	8.8E+01	-	-	-	-	-	-	-	-	-	-	-	-	8.8E+01	
	2/4/99	12:30	8.5E+01	-	-	-	-	-	-	-	-	-	-	-	-	8.5E+01	
	2/4/99	13:20	1.0E+02	-	-	-	-	-	-	-	-	-	-	-	-	1.0E+02	
	2/4/99	14:20	9.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	9.2E+01	
	2/4/99	16:19	7.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	7.1E+01	
	2/4/99	20:18	8.5E+01	-	-	-	-	-	-	-	-	-	-	-	-	8.5E+01	
	2/5/99	11:20	5.5E+01	-	-	-	-	-	-	-	-	-	-	-	-	5.5E+01	
	2/11/99	9:25	1.0E+01	9.5E-01	7.2E-01	0	1.9E-01	0	3.2E-01	0	3.9E-01	0	0	0	0	1.3E+01	
	2/11/99	9:25	2.3	-	-	-	-	-	-	-	-	-	-	-	-	2.3	
	WEEK 3																
	2/11/99	10:25	4.4	2.1E+00	6.9E-01	0	4.9E-01	0	1.3E+01	0	4.2E-01	4.2E-02	0	0	0	2.1E+01	
	2/11/99	10:25	2.1	-	-	-	-	-	-	-	-	-	-	-	-	2.1	
	2/11/99	10:50	4.1	-	-	-	-	-	-	-	-	-	-	-	-	4.1	
	2/11/99	11:20	2.9	-	-	-	-	-	-	-	-	-	-	-	-	2.9	
	2/11/99	12:20	3.3	-	-	-	-	-	-	-	-	-	-	-	-	3.3	
	2/11/99	14:20	3.3	-	-	-	-	-	-	-	-	-	-	-	-	3.3	
	2/11/99	18:20	3.7	-	-	-	-	-	-	-	-	-	-	-	-	3.7	
	2/12/99	9:20	3.7	-	-	-	-	-	-	-	-	-	-	-	-	3.7	
	2/18/99	9:35	4.4	0	3.2E-02	0	0	2.2E-02	0	0	3.8E-02	0	0	0	0	4.5	
	2/18/99	9:35	3.9	-	-	-	-	-	-	-	-	-	-	-	-	3.9	
	WEEK 4																
	2/18/99	10:25	2.0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	
	2/18/99	10:25	1.5	-	-	-	-	-	-	-	-	-	-	-	-	1.5	
	2/18/99	11:55	1.2	-	-	-	-	-	-	-	-	-	-	-	-	1.2	
	2/18/99	17:55	1.4	-	-	-	-	-	-	-	-	-	-	-	-	1.4	
	2/25/99	11:30	6.8	0	6.0E-02	1.8E-02	0	8.6E-02	2.4E-02	0	1.3E-02	0	0	0	0	7.0	

PRE-CARBON (SMP 7)* **(2 of 2)**

Sample Date	Sample Time	PCE (ppm)	CHLM (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m,p-Xylen (ppm)	e-Xylen (ppm)	Styrene (ppm)	TOTAL VOC (ppm)	Comments
WEEK 1	1/28/99 14:15	4.35	0.00	0.00	0.00	0.00	-	0.09	0.00	0.00	0.00	0.00	-	-	0.00	4.45	Converted from Lab Results
	1/28/99 14:15	8.22	-	-	-	-	-	-	-	-	-	-	-	-	0.00	8.22	GC Results
	1/28/99 14:40	9.20	-	-	-	-	-	-	-	-	-	-	-	-	0.00	9.20	GC Results
	1/28/99 15:10	8.58	-	-	-	-	-	-	-	-	-	-	-	-	0.00	8.58	GC Results
	1/28/99 18:10	9.72	-	-	-	-	-	-	-	-	-	-	-	-	0.00	9.72	GC Results
	1/28/99 22:05	8.64	-	-	-	-	-	-	-	-	-	-	-	-	0.00	8.64	GC Results
	1/29/99 13:06	12.78	-	-	-	-	-	-	-	-	-	-	-	-	0.00	12.78	GC Results
	2/4/99 10:10	1.31	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34	Converted from Lab Results
	2/4/99 10:10	3.27	-	-	-	-	-	-	-	-	-	-	-	-	0.00	3.27	GC Results
	2/4/99 12:25	2.47	0.00	0.00	0.03	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.57	Converted from Lab Results
WEEK 2	2/4/99 12:25	12.76	-	-	-	-	-	-	-	-	-	-	-	-	0.00	12.76	GC Results
	2/4/99 12:50	12.35	-	-	-	-	-	-	-	-	-	-	-	-	0.00	12.35	GC Results
	2/4/99 13:20	15.18	-	-	-	-	-	-	-	-	-	-	-	-	0.00	15.18	GC Results
	2/4/99 14:20	13.35	-	-	-	-	-	-	-	-	-	-	-	-	0.00	13.35	GC Results
	2/4/99 16:19	10.30	-	-	-	-	-	-	-	-	-	-	-	-	0.00	10.30	GC Results
	2/4/99 20:18	12.32	-	-	-	-	-	-	-	-	-	-	-	-	0.00	12.32	GC Results
	2/5/99 11:20	8.05	-	-	-	-	-	-	-	-	-	-	-	-	0.00	8.05	GC Results
	2/11/99 9:25	1.45	0.46	0.20	0.00	0.05	0.00	0.06	0.00	0.12	0.00	0.00	0.00	0.00	0.00	2.34	Converted from Lab Results
	2/11/99 9:25	0.33	-	-	-	-	-	-	-	-	-	-	-	-	0.00	3.3E-01	GC Results
	2/11/99 10:25	0.64	1.01	0.20	0.00	0.12	0.00	2.41	0.00	0.13	0.01	0.00	0.00	0.00	0.00	4.52	Converted from Lab Results
WEEK 3	2/11/99 10:25	0.30	-	-	-	-	-	-	-	-	-	-	-	-	0.00	3.0E-01	GC Results
	2/11/99 10:50	0.60	-	-	-	-	-	-	-	-	-	-	-	-	0.00	6.0E-01	GC Results
	2/11/99 11:20	0.42	-	-	-	-	-	-	-	-	-	-	-	-	0.00	4.2E-01	GC Results
	2/11/99 12:20	0.48	-	-	-	-	-	-	-	-	-	-	-	-	0.00	4.8E-01	GC Results
	2/11/99 14:20	0.48	-	-	-	-	-	-	-	-	-	-	-	-	0.00	4.8E-01	GC Results
	2/11/99 18:20	0.54	-	-	-	-	-	-	-	-	-	-	-	-	0.00	5.4E-01	GC Results
	2/12/99 9:20	0.54	-	-	-	-	-	-	-	-	-	-	-	-	0.00	5.4E-01	GC Results
	2/18/99 9:35	0.64	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	6.6E-01	Converted from Lab Results
	2/18/99 9:35	0.56	-	-	-	-	-	-	-	-	-	-	-	-	0.00	5.6E-01	GC Results
	2/18/99 10:25	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9E-01	Converted from Lab Results
WEEK 4	2/18/99 10:25	0.22	-	-	-	-	-	-	-	-	-	-	-	-	0.00	2.2E-01	GC Results
	2/18/99 11:55	0.18	-	-	-	-	-	-	-	-	-	-	-	-	0.00	1.8E-01	GC Results
	2/18/99 17:55	0.21	-	-	-	-	-	-	-	-	-	-	-	-	0.00	2.1E-01	GC Results
	2/25/99 11:30	0.99	0.00	0.02	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	Converted from Lab Results

* With Carbon Unit No. 2 as lead unit, SMP 7 is Pre-Carbon Sampling Port.

SMP 8 is Mid-Carbon sampling port.

1 ppm = X mg/m³ (NIOSH, 1997)

PCE - TETRACHLORETHENE

6.89

CHLM - CHLOROMETHANE

2.07

MC - METHYLENE CHLORIDE

3.53

CD - CARBON DISULFIDE

3.11

DCE - 1,1-DICHLOROETHENE

4.03

TCA - 1,1,1-TRICHLOROETHANE

5.55

CT - CARBON TETRACHLORIDE

6.29

1 ppm = X mg/m³ (NIOSH, 1997)

TCE - TRICHLOROETHENE

5.4

EB - ETHYLBENZENE

4.41

BENZENE

3.19

TOLUENE

3.77

XYLENES

4.34

STYRENE

4.26

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

MID-CARBON (SMP 8)* (1 of 2)

Sample Date	Sample Time	PCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m,p-Xylene (mg/m ³)	c-Xylene (mg/m ³)	Styrene (mg/m ³)	TOTAL VOC (mg/m ³)	Comments
WEEK 1	1/28/99 14:16	1.2	1.3E-01	1.4E-02	1.2E-02	0	0	2.3E-02	0	2.8E-02	0	0	0	0	0	1.4	Lab Results
	1/28/99 14:16	8.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	8.3E-01	Converted from GC Results	
	1/28/99 14:40	1.9	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC Results	
	1/28/99 15:10	2.3	-	-	-	-	-	-	-	-	-	-	-	-	2.3	Converted from GC Results	
	1/28/99 18:10	3.3	-	-	-	-	-	-	-	-	-	-	-	-	3.3	Converted from GC Results	
	1/28/99 22:06	3.7	-	-	-	-	-	-	-	-	-	-	-	-	3.7	Converted from GC Results	
	1/29/99 13:06	3.1	-	-	-	-	-	-	-	-	-	-	-	-	3.1	Converted from GC Results	
	2/4/99 10:10	5.5E-01	3.7E-02	8.5E-02	9.5E-03	0	0	2.8E-02	0	2.2E-03	0	0	0	0	7.1E-01	Lab Results	
	2/4/99 10:10	7.0	-	-	-	-	-	-	-	-	-	-	-	-	7.0	Converted from GC Results	
	2/4/99 12:25	8.0E-01	0	5.5E-02	1.2E-02	0	0	2.6E-02	0	0	3.9E-03	0	0	0	0	9.0E-01	Lab Results
WEEK 2	2/4/99 12:25	0	-	-	-	-	-	-	-	-	-	-	-	-	0.0	Converted from GC Results	
	2/4/99 12:50	3.8	-	-	-	-	-	-	-	-	-	-	-	-	3.8	Converted from GC Results	
	2/4/99 13:20	3.6	-	-	-	-	-	-	-	-	-	-	-	-	3.6	Converted from GC Results	
	2/4/99 14:20	3.9	-	-	-	-	-	-	-	-	-	-	-	-	3.9	Converted from GC Results	
	2/4/99 16:20	4.0	-	-	-	-	-	-	-	-	-	-	-	-	4.0	Converted from GC Results	
	2/4/99 20:19	2.8	-	-	-	-	-	-	-	-	-	-	-	-	2.8	Converted from GC Results	
	2/5/99 11:21	2.8	-	-	-	-	-	-	-	-	-	-	-	-	2.8	Converted from GC Results	
	2/11/99 9:25	8.5E-01	0	0	1.4E-02	0	1.5E-02	0	0	3.8E-03	5.0E-03	0	0	0	8.9E-01	Lab Results	
	2/11/99 9:25	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC Results	
	2/11/99 10:25	8.0E-01	0	0	8.0E-03	0	1.8E-02	0	0	4.0E-03	0	0	0	0	8.3E-01	Lab Results	
WEEK 3	2/11/99 10:25	1.2	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC Results	
	2/11/99 10:50	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC Results	
	2/11/99 11:20	7.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	7.6E-01	Converted from GC Results	
	2/11/99 12:20	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC Results	
	2/11/99 14:20	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC Results	
	2/11/99 18:20	4.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	4.1E-01	Converted from GC Results	
	2/12/99 9:20	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC Results	
	2/18/99 9:35	5.5E-01	0	3.5E-02	6.0E-03	1.2E-02	1.7E-02	6.5E-01	0	8.0E-03	0	0	0	0	1.3	Lab Results	
	2/18/99 9:35	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC Results	
	2/18/99 10:25	5.0E-01	0	4.2E-02	1.3E-02	0	2.6E-02	0	0	0.0E+00	6.5E-03	0	0	0	5.9E-01	Lab Results	
WEEK 4	2/18/99 10:25	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC Results	
	2/18/99 11:55	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC Results	
	2/18/99 17:55	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted from GC Results	
	2/25/99 11:30	3.3E-01	0	9.1E-03	6.3E-03	0	2.1E-02	0	0	0	1.8E-02	2.4E-03	4.6E-03	1.3E-03	0	3.9E-01	Lab Results
	2/25/99 12:55																
	2/25/99 14:25																
	2/25/99 20:25																

MID-CARBON (SMP 8)* (2 of 2)

Sample Date	Sample Time	PCE (ppm)	CHLM (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m&p-Xylene (ppm)	o-Xylene (ppm)	Styrene (ppm)	TOTAL VOC (ppm)	Comments
WEEK 1	1/28/99 14:16	1.7E-01	6.3E-02	3.8E-03	3.7E-03	0.00	0.00	4.3E-03	0.00	8.8E-03	0.00	0.00	0.00	0.00	0.00	2.6E-01	Converted from Lab Results
	1/28/99 14:16	1.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2E-01	GC Results
	1/28/99 14:40	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	GC Results
	1/28/99 15:10	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	GC Results
	1/28/99 18:10	4.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8E-01	GC Results
	1/28/99 22:06	5.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4E-01	GC Results
	1/29/99 13:06	4.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5E-01	GC Results
	2/4/99 10:10	8.0E-02	1.8E-02	2.4E-02	3.1E-03	0.00	0.00	5.1E-03	0.00	6.8E-04	0.00	0.00	0.00	0.00	0.00	1.3E-01	Converted from Lab Results
	2/4/99 10:10	1.0E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	1.01	GC Results
	2/4/99 12:25	1.2E-01	0.00	1.6E-02	3.9E-03	0.00	0.00	4.8E-03	0.00	0.00	1.0E-03	0.00	0.00	0.00	0.00	1.4E-01	Converted from Lab Results
WEEK 2	2/4/99 12:25	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/4/99 12:50	5.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5E-01	GC Results
	2/4/99 13:20	5.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2E-01	GC Results
	2/4/99 14:20	5.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6E-01	GC Results
	2/4/99 16:20	5.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8E-01	GC Results
	2/4/99 20:19	4.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1E-01	GC Results
	2/5/99 11:21	4.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-01	GC Results
	2/11/99 9:25	1.2E-01	0.00	0.00	4.3E-03	0.00	2.7E-03	0.00	0.00	1.2E-03	1.3E-03	0.00	0.00	0.00	0.00	1.3E-01	Converted from Lab Results
	2/11/99 9:25	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC Results
	2/11/99 10:25	1.2E-01	0.00	0.00	2.6E-03	0.00	3.2E-03	0.00	0.00	1.2E-03	0.00	0.00	0.00	0.00	0.00	1.2E-01	Converted from Lab Results
WEEK 3	2/11/99 10:25	1.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8E-01	GC Results
	2/11/99 10:50	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC Results
	2/11/99 11:20	1.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E-01	GC Results
	2/11/99 12:20	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC Results
	2/11/99 14:20	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC Results
	2/11/99 18:20	6.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0E-02	GC Results
	2/12/99 9:20	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC Results
	2/18/99 9:35	8.0E-02	0.00	9.9E-03	1.9E-03	3.0E-03	3.0E-03	1.2E-01	0.00	2.5E-03	0.00	0.00	0.00	0.00	0.00	2.2E-01	Converted from Lab Results
	2/18/99 9:35	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC Results
	2/18/99 10:25	7.3E-02	0.00	1.2E-02	4.2E-03	0.00	4.6E-03	0.00	0.00	0.00	1.7E-03	0.00	0.00	0.00	0.00	9.5E-02	Converted from Lab Results
WEEK 4	2/18/99 10:25	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC Results
	2/18/99 11:55	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC Results
	2/18/99 17:55	5.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-02	GC Results
	2/25/99 11:30	4.7E-02	0.00	2.6E-03	2.0E-03	0.00	3.8E-03	0.00	0.00	0.00	4.6E-03	5.4E-04	1.1E-03	2.9E-04	0.00	6.2E-02	Converted from Lab Results
	2/25/99 12:55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	
	2/25/99 14:25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	
	2/25/99 20:25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	

* With Carbon Unit No. 2 as lead unit, SMP 7 is Pre-Carbon Sampling Port.

SMP 8 is Mid-Carbon sampling port.

1 ppm = X mg/m³ (NIOSH, 1997)

PCE - TETRACHLORETHENE

6.89

CHLM - CHLOROMETHANE

2.07

MC - METHYLENE CHLORIDE

3.53

CD - CARBON DISULFIDE

3.11

DCE - 1,1-DICHLOROETHENE

4.03

TCA - 1,1,1-TRICHLOROETHANE

5.55

CT - CARBON TETRACHLORIDE

6.29

1 ppm = X mg/m³ (NIOSH, 1997)

5.4

TCE - TRICHLOROETHENE

4.41

EB - ETHYL BENZENE

3.19

BENZENE

3.77

TOLUENE

4.34

XYLENES

4.26

STYRENE

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

POST CARBON (SMP 9) (1 of 2)

		PCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m&p-Xylen (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	TOTAL VOC (mg/m ³)	Comments
Sample Date	Sample Time																
W E K 1	1/28/99	14:17	3.8E-02	0	0	0	0	0.5	0	0	0	0	0	0	5.4E-01	Lab Results	
	1/28/99	14:17	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted from GC Results	
	1/28/99	14:41	4.8E-01	-	-	-	-	-	-	-	-	-	-	-	4.8E-01	Converted from GC Results	
	1/28/99	15:11	4.1E-01	-	-	-	-	-	-	-	-	-	-	-	4.1E-01	Converted from GC Results	
	1/28/99	18:11	1.5	-	-	-	-	-	-	-	-	-	-	-	1.5	Converted from GC Results	
	1/28/99	22:06	1.2	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC Results	
	1/29/99	13:07	9.0E-01	-	3.7E-02	8.3E-02	1.7E-03	0	0	1.7E-02	0	4.6E-03	2.6E-03	0	9.0E-01	Converted from GC Results	
	2/4/99	10:11	0	-	-	-	-	-	-	-	-	-	-	0	1.5E-01	Lab Results	
	2/4/99	10:11	0	-	-	-	-	-	-	-	-	-	-	0	0	Converted from GC Results	
	2/4/99	12:26	8.6E-03	0	0	1.5E-02	0	0	2.1E-02	0	1.7E-03	1.1E-02	0	6.5E-03	0	2.6E-03	6.6E-02
W E K 2	2/4/99	12:26	0	-	-	-	-	-	-	-	-	-	-	-	0	Lab Results	
	2/4/99	12:51	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC Results	
	2/4/99	13:21	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted from GC Results	
	2/4/99	14:21	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted from GC Results	
	2/4/99	16:20	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC Results	
	2/4/99	20:19	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC Results	
	2/5/99	11:21	0	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	Converted from GC Results	
	2/11/99	9:26	0	2.9E-02	0	8.6E-03	0	0	0	0	6.5E-03	7.2E-03	0	1.3E-03	0	0	5.3E-02
	2/11/99	9:26	0	-	-	-	-	-	-	-	-	-	-	-	0	Lab Results	
	2/11/99	10:26	3.5E-03	0	0	4.5E-03	0	0	3.7E-02	0	1.7E-03	3.5E-03	0	0	0	5.0E-02	Converted from GC Results
W E K 3	2/11/99	10:26	0	-	-	-	-	-	-	-	-	-	-	-	0	Lab Results	
	2/11/99	10:51	0	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC Results	
	2/11/99	11:21	0	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC Results	
	2/11/99	12:21	0	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC Results	
	2/11/99	14:21	0	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC Results	
	2/11/99	18:21	0	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC Results	
	2/12/99	9:21	0	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC Results	
	2/18/99	9:36	0	1.5E-02	1.6E-02	8.1E-03	0	0	0	0	1.5E-03	3.5E-03	1.8E-03	3.2E-03	1.1E-03	0	5.0E-02
	2/18/99	9:36	0	-	-	-	-	-	-	-	-	-	-	-	0	Lab Results	
	2/18/99	10:26	1.0E-03	0	1.5E-02	4.4E-03	0	0	0	0	1.3E-03	3.6E-03	0	2.8E-03	0	0	2.8E-02
W E K 4	2/18/99	10:26	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	0	Lab Results	
	2/18/99	11:56	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC Results	
	2/18/99	17:56	0	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC Results	
	2/25/99	11:31	2.6E-03	0	1.6E-02	6.1E-03	0	0	0.0	0	1.3E-03	3.1E-03	6.1E-04	2.0E-03	7.0E-04	5.2E-04	3.3E-02
															0	Lab Results	

POST CARBON (SMP 9) (2 of 2)

Sample Date	Sample Time	PCE (ppm)	CHLM (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m,p-Xylen (ppm)	o-Xylene (ppm)	Styrene (ppm)	TOTAL VOC (ppm)	Comments
WEEK 1	1/28/99 14:17	5.6E-03	0.00	0.00	0.00	0.00	0.00	9.3E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.8E-02	Converted from Lab Results
	1/28/99 14:17	5.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-02	GC Results
	1/28/99 14:41	7.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	7.0E-02	GC Results
	1/28/99 15:11	6.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0E-02	GC Results
	1/28/99 18:11	2.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E-01	GC Results
	1/28/99 22:06	1.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7E-01	GC Results
	1/29/99 13:07	1.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E-01	GC Results
	2/4/99 10:11	0.00	1.8E-02	2.4E-02	5.4E-04	0.00	0.00	3.1E-03	0.00	1.4E-03	6.9E-04	0.00	0.00	0.00	0.00	4.7E-02	Converted from Lab Results
	2/4/99 10:11	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/4/99 12:26	1.2E-03	0.00	0.00	4.7E-03	0.00	0.00	3.9E-03	0.00	5.4E-04	2.9E-03	0.00	1.5E-03	0.00	6.1E-04	1.5E-02	Converted from Lab Results
WEEK 2	2/4/99 12:26	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/4/99 12:51	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC Results
	2/4/99 13:21	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC Results
	2/4/99 14:21	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC Results
	2/4/99 16:20	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC Results
	2/4/99 20:19	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC Results
	2/5/99 11:21	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/11/99 9:26	0.00	1.4E-02	0.00	2.8E-03	0.00	0.00	0.00	0.00	2.0E-03	1.9E-03	0.00	2.9E-04	0.00	0.00	2.1E-02	Converted from Lab Results
	2/11/99 9:26	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/11/99 10:26	5.1E-04	0.00	0.00	1.4E-03	0.00	0.00	6.8E-03	0.00	5.3E-04	9.4E-04	0.00	0.00	0.00	0.00	1.0E-02	Converted from Lab Results
WEEK 3	2/11/99 10:26	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/11/99 10:51	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/11/99 11:21	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/11/99 12:21	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/11/99 14:21	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/11/99 18:21	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/12/99 9:21	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/18/99 9:36	0.00	7.2E-03	4.5E-03	2.6E-03	0.00	0.00	0.00	0.00	4.7E-04	9.3E-04	4.1E-04	7.4E-04	0.00	0.00	1.7E-02	Converted from Lab Results
	2/18/99 9:36	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/18/99 10:26	1.5E-04	0.00	4.2E-03	1.4E-03	0.00	0.00	0.00	0.00	4.1E-04	9.5E-04	0.00	6.3E-04	0.00	0.00	7.8E-03	Converted from Lab Results
WEEK 4	2/18/99 10:26	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC Results
	2/18/99 11:56	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC Results
	2/18/99 17:56	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
	2/25/99 11:31	3.8E-04	0.00	0.00	2.0E-03	0.00	0.00	0.00	0.00	4.1E-04	8.2E-04	0.00	4.6E-04	0.00	1.2E-04	9.0E-03	Converted from Lab Results

1 ppm = X mg/m³ (NIOSH, 1997)

PCE - TETRACHLORETHENE
6.89
CHLM - CHLOROMETHANE
2.07
MC - METHYLENE CHLORIDE
3.53
CD - CARBON DISULFIDE
3.11
DCE - 1,1-DICHLOROETHENE
4.03
TCA - 1,1,1-TRICHLOROETHANE
5.55
CT - CARBON TETRACHLORIDE
6.29

1 ppm = X mg/m³ (NIOSH, 1997)

TCE - TRICHLOROETHENE
5.4
EB - ETHYLBENZENE
4.41
BENZENE
3.19
TOLUENE
3.77
XYLEMES
4.34
STYRENE
4.26

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

MANIFOLD A (SMP 3) (1 of 2)

Sample Date	Sample Time	PCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m&p-Xylene (mg/m ³)	c-Xylene (mg/m ³)	Styrene (mg/m ³)	TOTAL VOC (mg/m ³)	Comments
WEEK 2	2/4/99 12:31	6.8E+01	0	0	0	0	6.4E-01	1.2	0	0	0	0	0	0	0	7.0E+01	Lab Results
	2/4/99 12:31	1.8E+02	-	-	-	-	-	-	-	-	-	-	-	-	1.8E+02	Converted from GC Results	
	2/4/99 12:54	3.1E+02	-	-	-	-	-	-	-	-	-	-	-	-	3.1E+02	Converted from GC Results	
	2/4/99 13:25	1.5E+02	-	-	-	-	-	-	-	-	-	-	-	-	1.5E+02	Converted from GC Results	
	2/4/99 14:26	2.6E+02	-	-	-	-	-	-	-	-	-	-	-	-	2.6E+02	Converted from GC Results	
	2/4/99 16:24	2.1E+02	-	-	-	-	-	-	-	-	-	-	-	-	2.1E+02	Converted from GC Results	
	2/4/99 20:24	3.9E+01	-	-	-	-	-	-	-	-	-	-	-	-	3.9E+01	Converted from GC Results	
	2/5/99 11:26	6.6E+01	-	-	-	-	-	-	-	-	-	-	-	-	6.6E+01	Converted from GC Results	
	2/11/99 9:29	2.1	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC Results	
WEEK 3	2/11/99 10:30	5.0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	6.2	Lab Results
	2/11/99 10:30	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC Results	
	2/11/99 10:53	1.9	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC Results	
	2/11/99 11:23	2.7	-	-	-	-	-	-	-	-	-	-	-	-	2.7	Converted from GC Results	
	2/11/99 12:23	2.1	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC Results	
	2/11/99 14:23	2.3	-	-	-	-	-	-	-	-	-	-	-	-	2.3	Converted from GC Results	
	2/11/99 18:23	6.0	-	-	-	-	-	-	-	-	-	-	-	-	6.0	Converted from GC Results	
	2/12/99 9:23	6.2	-	-	-	-	-	-	-	-	-	-	-	-	6.2	Converted from GC Results	
	2/18/99 9:40	2.1	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC Results	

MANIFOLD A (SMP 3) (2 of 2)

Sample Date	Sample Time	PCE (ppm)	CHLM (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m&p-Xylen (ppm)	e-Xylene (ppm)	Styrene (ppm)	TOTAL VOC (ppm)	Comments
WEEK 2	2/4/99 12:31	9.87	0.00	0.00	0.00	0.00	1.2E-01	2.2E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.21	Converted from Lab Results
	2/4/99 12:31	26.04	-	-	-	-	-	-	-	-	-	-	-	-	-	26.04	GC Results
	2/4/99 12:54	44.73	-	-	-	-	-	-	-	-	-	-	-	-	-	44.73	GC Results
	2/4/99 13:25	22.44	-	-	-	-	-	-	-	-	-	-	-	-	-	22.44	GC Results
	2/4/99 14:26	37.38	-	-	-	-	-	-	-	-	-	-	-	-	-	37.38	GC Results
	2/4/99 16:24	31.11	-	-	-	-	-	-	-	-	-	-	-	-	-	31.11	GC Results
	2/4/99 20:24	5.67	-	-	-	-	-	-	-	-	-	-	-	-	-	5.67	GC Results
	2/5/99 11:26	9.60	-	-	-	-	-	-	-	-	-	-	-	-	-	9.60	GC Results
	2/11/99 9:29	3.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-01	GC Results
	2/11/99 10:30	7.3E-01	0.00	0.00	0.00	0.00	0.00	2.2E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.5E-01	Converted from Lab Results
WEEK 3	2/11/99 10:30	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC Results
	2/11/99 10:53	2.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7E-01	GC Results
	2/11/99 11:23	3.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9E-01	GC Results
	2/11/99 12:23	3.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-01	GC Results
	2/11/99 14:23	3.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3E-01	GC Results
	2/11/99 18:23	8.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7E-01	GC Results
	2/12/99 9:23	9.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-01	GC Results
	2/18/99 9:40	3.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-01	GC Results

1 ppm = X mg/m³ (NIOSH, 1997)

PCE - TETRACHLORETHENE	6.89
CHLM - CHLOROMETHANE	2.07
MC - METHYLENE CHLORIDE	3.53
CD - CARBON DISULFIDE	3.11
DCE - 1,1-DICHLOROETHENE	4.03
TCA - 1,1,1-TRICHLOROETHANE	5.55
CT - CARBON TETRACHLORIDE	6.29

1 ppm = X mg/m³ (NIOSH, 1997)

TCE - TRICHLOROETHENE	5.4
EB - ETHYL BENZENE	4.41
BENZENE	3.19
TOULUENE	3.77
XYLENES	4.34
STYRENE	4.26

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

MANIFOLD B (SMP 4) (1 of 2)

Sample Date	Sample Time	PCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m&p-Xylene (mg/m ³)	n-Xylene (mg/m ³)	Styrene (mg/m ³)	TOTAL VOC (mg/m ³)	Comments
WEEK 1	1/28/99 14:20	6.4E+01	0	0	1.8E-01	0	0	5.4E-01	0	0	0	0	0	0	6.5E+01	Lab Results	
	1/28/99 14:20	1.6E+01	-	-	-	-	-	-	-	-	-	-	-	-	1.6E+01	Converted from GC Results	
	1/28/99 14:49	6.7E+01	-	-	-	-	-	-	-	-	-	-	-	-	6.7E+01	Converted from GC Results	
	1/28/99 15:13	7.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	7.2E+01	Converted from GC Results	
	1/28/99 18:13	9.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	9.3E+01	Converted from GC Results	
	1/28/99 21:50	9.8E+01	-	-	-	-	-	-	-	-	-	-	-	-	9.8E+01	Converted from GC Results	
	1/29/99 12:45	9.8E+01	-	-	-	-	-	-	-	-	-	-	-	-	9.8E+01	Converted from GC Results	
	2/4/99 10:00	2.9E+01	-	-	-	-	-	-	-	-	-	-	-	-	2.9E+01	Converted from GC Results	
WEEK 2	2/4/99 12:28	9.0	0	0	0	0	0	1.5E-01	0	0	0	0	0	0	9.1	Lab Results	
	2/4/99 12:28	2.7E+01	-	-	-	-	-	-	-	-	-	-	-	-	2.7E+01	Converted from GC Results	
	2/4/99 12:52	6.0E+01	-	-	-	-	-	-	-	-	-	-	-	-	6.0E+01	Converted from GC Results	
	2/4/99 13:23	3.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	3.1E+01	Converted from GC Results	
	2/4/99 14:23	2.5E+01	-	-	-	-	-	-	-	-	-	-	-	-	2.5E+01	Converted from GC Results	
	2/4/99 16:22	1.9E+01	-	-	-	-	-	-	-	-	-	-	-	-	1.9E+01	Converted from GC Results	
	2/4/99 20:21	4.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	4.3E+01	Converted from GC Results	
	2/5/99 11:23	2.7E+01	-	-	-	-	-	-	-	-	-	-	-	-	2.7E+01	Converted from GC Results	
	2/11/99 9:27	2.3	-	-	-	-	-	-	-	-	-	-	-	-	2.3	Converted from GC Results	
WEEK 4	2/18/99 10:29	3.4	0	0	0	0	0	0	0	0	2.2E-02	0	0	0	3.4	Lab Results	
	2/18/99 10:29	1.2	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC Results	
	2/18/99 11:59	9.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	9.6E-01	Converted from GC Results	
	2/18/99 17:58	9.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-01	Converted from GC Results	
	2/25/99 11:36	8.2E+00	0	0	0	0	0	0	0	0	0	0	0	0	8.2	Lab Results	

MANIFOLD B (SMP 4) (2 of 2)

		PCE (ppm)	CHLM (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m&p-Xylene (ppm)	o-Xylene (ppm)	Styrene (ppm)	TOTAL VOC (ppm)	Comments
WEEK 1	Sample Date	Sample Time															
	1/28/99	14:20	9.3	0.00	0.00	5.6E-02	0.00	0.00	1.0E-01	0.00	0.00	0.00	0.00	0.00	0.00	9.4	Converted from Lab Results
	1/28/99	14:20	2.3	-	-	-	-	-	-	-	-	-	-	-	-	2.3	GC Results
	1/28/99	14:49	9.7	-	-	-	-	-	-	-	-	-	-	-	-	9.7	GC Results
	1/28/99	15:13	10.5	-	-	-	-	-	-	-	-	-	-	-	-	10.5	GC Results
	1/28/99	18:13	13.6	-	-	-	-	-	-	-	-	-	-	-	-	13.6	GC Results
	1/28/99	21:50	14.2	-	-	-	-	-	-	-	-	-	-	-	-	14.2	GC Results
	1/29/99	12:45	14.2	-	-	-	-	-	-	-	-	-	-	-	-	14.2	GC Results
WEEK 2	2/4/99	10:00	4.2	-	-	-	-	-	-	-	-	-	-	-	-	4.2	GC Results
	2/4/99	12:28	1.3	0.00	0.00	0.00	0.00	0.00	2.7E-02	0.00	0.00	0.00	0.00	0.00	0.00	1.3	Converted from Lab Results
	2/4/99	12:28	4.0	-	-	-	-	-	-	-	-	-	-	-	-	4.0	GC Results
	2/4/99	12:52	8.8	-	-	-	-	-	-	-	-	-	-	-	-	8.8	GC Results
	2/4/99	13:23	4.4	-	-	-	-	-	-	-	-	-	-	-	-	4.4	GC Results
	2/4/99	14:23	3.6	-	-	-	-	-	-	-	-	-	-	-	-	3.6	GC Results
	2/4/99	16:22	2.7	-	-	-	-	-	-	-	-	-	-	-	-	2.7	GC Results
	2/4/99	20:21	6.2	-	-	-	-	-	-	-	-	-	-	-	-	6.2	GC Results
WEEK 4	2/5/99	11:23	3.9	-	-	-	-	-	-	-	-	-	-	-	-	3.9	GC Results
	2/11/99	9:27	3.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	3.3E-01	GC Results
	2/18/99	10:29	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.8E-03	0.00	0.00	0.00	5.0E-01	Converted from Lab Results
	2/18/99	10:29	1.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	1.8E-01	GC Results
	2/18/99	11:59	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	GC Results
	2/18/99	17:58	1.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	1.3E-01	GC Results
	2/25/99	11:36	1.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2	Converted from Lab Results

1ppm = X mg/m³ (NIOSH, 1997)

PCE - TETRACHLORETHENE	6.89
CHLM - CHLOROMETHANE	2.07
MC - METHYLENE CHLORIDE	3.53
CD - CARBON DISULFIDE	3.11
DCE - 1,1-DICHLOROETHENE	4.03
TCA - 1,1,1-TRICHLOROETHANE	5.55
CT - CARBON TETRACHLORIDE	6.29

1ppm = X mg/m³ (NIOSH, 1997)

TCE - TRICHLOROETHENE	5.4
EB - ETHYL BENZENE	4.41
BENZENE	3.19
TOLUENE	3.77
XYLENES	4.34
STYRENE	4.26

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MANIFOLD C (SMP 2) (1 of 2)

		PCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m&p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	TOTAL VOC (mg/m ³)	Comments
Sample Date	Sample Time																
WEEK 1	1/28/99	14:27	4.0E+01	0	1.1	3.9E-01	0	0	1.2	0	2.1E-01	0	0	0	0	4.3E+01	Lab Results
	1/28/99	14:27	1.1E+02	-	-	-	-	-	-	-	-	-	-	-	-	1.1E+02	Converted from GC Results
	1/28/99	14:53	1.2E+02	-	-	-	-	-	-	-	-	-	-	-	-	1.2E+02	Converted from GC Results
	1/28/99	15:16	2.2E+02	-	-	-	-	-	-	-	-	-	-	-	-	2.2E+02	Converted from GC Results
	1/28/99	18:18	2.1E+02	-	-	-	-	-	-	-	-	-	-	-	-	2.1E+02	Converted from GC Results
	1/28/99	21:56	1.4E+02	-	-	-	-	-	-	-	-	-	-	-	-	1.4E+02	Converted from GC Results
	1/29/99	12:51	2.4E+02	-	-	-	-	-	-	-	-	-	-	-	-	2.4E+02	Converted from GC Results
	2/4/99	10:02	6.4E+01	-	-	-	-	-	-	-	-	-	-	-	-	6.4E+01	Converted from GC Results
WEEK 3	2/11/99	10:33	2.3E+01	0	4.1E-01	1.5E-01	0	9.2E-02	0	0	0	0	0	0	0	2.4E+01	Lab Results
	2/11/99	10:33	1.0E+01	-	-	-	-	-	-	-	-	-	-	-	-	1.0E+01	Converted from GC Results
	2/11/99	10:54	7.0	-	-	-	-	-	-	-	-	-	-	-	-	7.0	Converted from GC Results
	2/11/99	11:24	1.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	1.2E+01	Converted from GC Results
	2/11/99	12:24	1.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	1.2E+01	Converted from GC Results
	2/11/99	14:25	1.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	1.1E+01	Converted from GC Results
	2/11/99	18:24	9.7	-	-	-	-	-	-	-	-	-	-	-	-	9.7	Converted from GC Results
	2/12/99	9:24	2.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	2.2E+01	Converted from GC Results
	2/18/99	9:43	7.2	-	-	-	-	-	-	-	-	-	-	-	-	7.2	Converted from GC Results
WEEK 4	2/18/99	10:33	3.3	0	9.3E-02	3.2E-02	0	3.7E-02	3.3E-02	0	0	0	0	0	0	3.5	Lab Results
	2/18/99	10:33	2.9	-	-	-	-	-	-	-	-	-	-	-	-	2.9	Converted from GC Results
	2/18/99	12:03	6.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-01	Converted from GC Results
	2/18/99	18:00	4.7	-	-	-	-	-	-	-	-	-	-	-	-	4.7	Converted from GC Results
	2/25/99	11:39	1.7E+01	0	1.7E-01	5.2E-02	0	3.7E-01	9.3E-02	0	0	0	0	0	0	17.7	Lab Results

MANIFOLD C (SMP 2) (2 of 2)

Sample Date	Sample Time	PCE (ppm)	CHLM (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m&p-Xylene (ppm)	o-Xylene (ppm)	Styrene (ppm)	TOTAL VOC (ppm)	Comments
WEEK 1	1/28/99 14:27	5.8	0.00	3.1E-01	1.3E-01	0.00	0.00	2.2E-01	0.00	6.6E-02	0.00	0.00	0.00	0.00	0.00	6.5	Converted from Lab Results
	1/28/99 14:27	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	15.6	GC Results
	1/28/99 14:53	17.7	-	-	-	-	-	-	-	-	-	-	-	-	-	17.7	GC Results
	1/28/99 15:16	31.3	-	-	-	-	-	-	-	-	-	-	-	-	-	31.3	GC Results
	1/28/99 18:18	30.8	-	-	-	-	-	-	-	-	-	-	-	-	-	30.8	GC Results
	1/28/99 21:56	19.8	-	-	-	-	-	-	-	-	-	-	-	-	-	19.8	GC Results
	1/29/99 12:51	34.2	-	-	-	-	-	-	-	-	-	-	-	-	-	34.2	GC Results
	2/4/99 10:02	9.3	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	GC Results
WEEK 3	2/11/99 10:33	3.3	0.00	1.2E-01	4.7E-02	0.00	1.7E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.5	Converted from Lab Results
	2/11/99 10:33	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	GC Results
	2/11/99 10:54	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	GC Results
	2/11/99 11:24	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	GC Results
	2/11/99 12:24	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	GC Results
	2/11/99 14:25	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	GC Results
	2/11/99 18:24	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	GC Results
	2/12/99 9:24	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	GC Results
	2/18/99 9:43	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	GC Results
WEEK 4	2/18/99 10:33	4.8E-01	0.00	2.6E-02	1.0E-02	0.00	6.6E-03	6.2E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3E-01	Converted from Lab Results
	2/18/99 10:33	4.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2E-01	GC Results
	2/18/99 12:03	1.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-01	GC Results
	2/18/99 18:00	6.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8E-01	GC Results
	2/25/99 11:39	2.5	0.00	4.8E-02	1.7E-02	0.00	6.7E-02	1.7E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	Converted from Lab Results

1 ppm = X mg/m³ (NIOSH, 1997)

PCE - TETRACHLORETHENE	6.89
CHLM - CHLOROMETHANE	2.07
MC - METHYLENE CHLORIDE	3.53
CD - CARBON DISULFIDE	3.11
DCE - 1,1-DICHLOROETHENE	4.03
TCA - 1,1,1-TRICHLOROETHANE	5.55
CT - CARBON TETRACHLORIDE	6.29

1 ppm = X mg/m³ (NIOSH, 1997)

TCE - TRICHLOROETHENE	5.4
EB - ETHYL BENZENE	4.41
BENZENE	3.19
TOLUENE	3.77
XYLENES	4.34
STYRENE	4.26

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SI MANIFOLD (SMP 1) (1 of 2)

		PCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m&p-Xylene (mg/m ³)	s-Xylene (mg/m ³)	Styrene (mg/m ³)	TOTAL VOC (mg/m ³)	Comments	
W E E K 1	Sample Date	Sample Time																
	1/28/99	14:35	1.4E-01	0	4.3E-02	1.2E-02	0	9.0E-02	1.3E-02	0	3.2E-03	2.5E-02	3.8E-03	1.1E-02	4.2E-03	1.9E-03	3.5E-01	
	1/28/99	14:35	1.1	-	-	-	-	-	-	-	-	-	-	-	-	1.1	Lab Results	
	1/28/99	14:59	1.4	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC Results	
	1/28/99	15:22	1.7	-	-	-	-	-	-	-	-	-	-	-	-	1.7	Converted from GC Results	
	1/28/99	18:20	1.4	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC Results	
	1/29/99	21:59	2.0	-	-	-	-	-	-	-	-	-	-	-	-	2.0	Converted from GC Results	
	2/4/99	12:57	1.8	-	-	-	-	-	-	-	-	-	-	-	-	1.8	Converted from GC Results	
	2/4/99	10:05	1.7	-	-	-	-	-	-	-	-	-	-	-	-	1.7	Converted from GC Results	
W E E K 2	Sample Date	Sample Time																
	2/4/99	12:34	3.4E-01	0	0	5.8E-03	0	2.2E-02	0	0	0	1.8E-02	0	7.9E-03	0	0	3.9E-01	Lab Results
	2/4/99	12:34	3.6	-	-	-	-	-	-	-	-	-	-	-	-	3.6	Converted from GC Results	
	2/4/99	12:56	1.8	-	-	-	-	-	-	-	-	-	-	-	-	1.8	Converted from GC Results	
	2/4/99	13:26	1.5	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Converted from GC Results	
	2/4/99	14:28	2.5	-	-	-	-	-	-	-	-	-	-	-	-	2.5	Converted from GC Results	
	2/4/99	16:25	1.6	-	-	-	-	-	-	-	-	-	-	-	-	1.6	Converted from GC Results	
	2/4/99	20:26	2.1	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC Results	
	2/5/99	11:28	1.4	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC Results	
	2/11/99	9:33	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC Results	
W E E K 3	Sample Date	Sample Time																
	2/11/99	10:37	1.3E-02	0	0	5.5E-03	0	2.7E-03	0	0	2.5E-03	8.9E-03	1.2E-03	6.4E-03	1.9E-03	0	4.2E-02	Lab Results
	2/11/99	10:37	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC Results	
	2/11/99	10:56	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC Results	
	2/11/99	11:26	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted from GC Results	
	2/11/99	12:26	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC Results	
	2/11/99	14:28	0	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC Results	
	2/11/99	18:26	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC Results	
	2/12/99	9:26	6.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-01	Converted from GC Results	
	2/18/99	9:45	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC Results	
W E E K 4	Sample Date	Sample Time																
	2/18/99	10:36	2.5E-02	0	7.6E-03	9.0E-03	0	3.7E-03	2.0E-03	0	2.7E-03	2.0E-02	4.1E-03	1.1E-02	3.2E-03	2.1E-03	9.0E-02	Lab Results
	2/18/99	10:36	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC Results	
	2/18/99	12:05	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC Results	
	2/18/99	18:04	0	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	Converted from GC Results	
	2/25/99	11:42	5.0E-02	0	1.4E-02	6.3E-03	0	8.1E-03	1.5E-03	1.5E-03	2.1E-03	1.8E-02	3.4E-03	9.4E-03	2.9E-03	2.2E-03	1.2E-01	Lab Results

SI MANIFOLD (SMP 1) (2 of 2)

		Sample Date	Sample Time	PCE (ppm)	CHLM (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m&p-Xylene (ppm)	o-Xylene (ppm)	Styrene (ppm)	TOTAL VOC (ppm)	Comments
W E E K 1	W E E K 1	1/28/99	14:35	2.0E-02	0.00	1.2E-02	3.9E-03	0.00	1.6E-02	2.4E-03	0.00	1.0E-03	6.6E-03	8.6E-04	2.6E-03	9.8E-04	4.5E-04	6.8E-02	Converted from Lab Results
		1/28/99	14:35	1.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6E-01	GC Results
		1/28/99	14:59	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	GC Results
		1/28/99	15:22	2.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5E-01	GC Results
		1/28/99	18:20	2.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-01	GC Results
		1/28/99	21:59	2.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9E-01	GC Results
		1/29/99	12:57	2.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6E-01	GC Results
		2/4/99	10:05	2.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5E-01	GC Results
		2/4/99	12:34	4.9E-02	0.00	0.00	1.9E-03	0.00	4.0E-03	0.00	0.00	0.00	4.8E-03	0.00	1.8E-03	0.00	0.00	6.2E-02	Converted from Lab Results
		2/4/99	12:34	5.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2E-01	GC Results
W E E K 2	W E E K 2	2/4/99	12:56	2.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6E-01	GC Results
		2/4/99	13:26	2.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E-01	GC Results
		2/4/99	14:28	3.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6E-01	GC Results
		2/4/99	16:25	2.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3E-01	GC Results
		2/4/99	20:26	3.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-01	GC Results
		2/5/99	11:28	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	GC Results
		2/11/99	9:33	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC Results
		2/11/99	10:37	1.9E-03	0.00	0.00	1.8E-03	0.00	4.9E-04	0.00	0.00	7.8E-04	2.4E-03	2.7E-04	1.5E-03	4.4E-04	0.00	9.5E-03	Converted from Lab Results
		2/11/99	10:37	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC Results
		2/11/99	10:56	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC Results
W E E K 3	W E E K 3	2/11/99	11:26	5.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-02	GC Results
		2/11/99	12:26	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC Results
		2/11/99	14:28	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
		2/11/99	18:26	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC Results
		2/12/99	9:26	1.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-01	GC Results
		2/18/99	9:45	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC Results
		2/18/99	10:36	3.6E-03	0.0E+00	2.2E-03	0.00	0.0E+00	6.7E-04	3.7E-04	0.00	8.5E-04	5.3E-03	9.3E-04	2.5E-03	7.4E-04	4.9E-04	2.1E-02	Converted from Lab Results
		2/18/99	10:36	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC Results
		2/18/99	12:05	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC Results
		2/18/99	18:04	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	GC Results
W E E K 4	W E E K 4	2/25/99	11:42	7.3E-03	0.00	4.0E-03	2.0E-03	0.00	1.5E-03	2.8E-04	2.4E-04	6.6E-04	4.8E-03	7.7E-04	2.2E-03	6.6E-04	5.2E-04	2.5E-02	Converted from Lab Results

1 ppm = X mg/m³ (NIOSH, 1997)

PCE - TETRACHLOROETHENE 6.89
 CHLM - CHLOROMETHANE 2.07
 MC - METHYLENE CHLORIDE 3.53
 CD - CARBON DISULFIDE 3.11
 DCE - 1,1-DICHLOROETHENE 4.03
 TCA - 1,1,1-TRICHLOROETHANE 5.55
 CT - CARBON TETRACHLORIDE 6.29

1 ppm = X mg/m³ (NIOSH, 1997)

TCE - TRICHLOROETHENE 5.4
 EB - ETHYLBENZENE 4.41
 BENZENE 3.19
 TOLUENE 3.77
 XYLEMES 4.34
 STYRENE 4.26

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

SUMMARY - TOTAL VOCs (mg/m³) (1 of 2)

Date	Pre-Carbon (SMP 7)		Mid-Carbon (SMP 8)		% Mid = X% Pre	Post-Carbon (SMP 9)		Manifold A (SMP3)		Manifold B (SMP 4)		Manifold C (SMP 2)		SI Manifold (SMP 1)		
	LAB	GC	LAB	GC		LAB	GC	LAB	GC	LAB	GC	LAB	GC	LAB	GC	
WEEK1	1/28/99	3.1E+01	5.7E+01	1.4	8.3E-01	4.5%	5.4E-01	3.4E-01			6.5E+01	1.6E+01	4.3E+01	1.1E+02	3.5E-01	1.1
	1/28/99	-	6.3E+01	-	1.9	-	-	4.8E-01			-	6.7E+01	-	1.2E+02	-	1.4
	1/28/99	-	5.9E+01	-	2.3	-	-	4.1E-01			-	7.2E+01	-	2.2E+02	-	1.7
	1/28/99	-	6.7E+01	-	3.3	-	-	1.5			-	9.3E+01	-	2.1E+02	-	1.4
	1/28/99	-	6.0E+01	-	3.7	-	-	1.2			-	9.8E+01	-	1.4E+02	-	2.0
	1/29/99	-	8.8E+01	-	3.1	-	-	9.0E-01			-	9.8E+01	-	2.4E+02	-	1.8
	2/4/99	9.2	2.3E+01	7.1E-01	7.0	7.7%	1.5E-01	U			-	2.9E+01	-	6.4E+01	-	1.7
	2/4/99	1.7E+01	8.8E+01	9.0E-01	U	5.3%	6.6E-02	U	7.0E+01	1.8E+02	9.1	2.7E+01		3.9E-01	3.6	
	2/4/99	-	8.5E+01	-	3.8	-	-	6.9E-02		3.1E+02	-	6.0E+01		-	1.8	
	2/4/99	-	1.0E+02	-	3.6	-	-	1.4E-01		1.5E+02	-	3.1E+01		-	1.5	
WEEK2	2/4/99	-	9.2E+01	-	3.9	-	-	1.4E-01		2.6E+02	-	2.5E+01		-	2.5	
	2/4/99	-	7.1E+01	-	4.0	-	-	2.1E-01		2.1E+02	-	1.9E+01		-	1.6	
	2/4/99	-	8.5E+01	-	2.8	-	-	6.9E-02		3.9E+01	-	4.3E+01		-	2.1	
	2/5/99	-	5.5E+01	-	2.8	-	-	U		6.6E+01	-	2.7E+01		-	1.4	
	2/11/99	1.3E+01	2.3	8.9E-01	2.1	6.8%	5.3E-02	U		2.1E+01	-	2.3		-	2.8E-01	
	2/11/99	2.1E+01	2.1	8.3E-01	1.2	4.0%	5.0E-02	U	6.2	6.2E-01		2.4E+01	1.0E+01	4.20E-02	6.2E-01	
	2/11/99	-	4.1	-	6.2E-01	-	-	U		1.9		-	7.0	-	6.9E-02	
	2/11/99	-	2.9	-	7.6E-01	-	-	U		2.7		-	1.2E+01	-	3.4E-01	
	2/11/99	-	3.3	-	6.2E-01	-	-	U		2.1		-	1.2E+01	-	2.8E-01	
	2/11/99	-	3.3	-	6.2E-01	-	-	U		2.3		-	1.1E+01	-	U	
WEEK3	2/11/99	-	3.7	-	4.1E-01	-	-	2.0E-02		6.0		-	9.7	-	6.9E-02	
	2/12/99	-	3.7	-	6.2E-01	-	-	U		6.2		-	2.2E+01	-	6.9E-01	
	2/18/99	4.5	3.9	1.3	2.1E-01	28.9%	5.0E-02	U		2.1		-	7.2	-	6.9E-02	
	2/18/99	2.0	1.5	5.9E-01	2.8E-01	29.5%	2.8E-02	3.0E-02		3.4	1.2	3.5	2.9	9.00E-02	2.1E-01	
	2/18/99	-	1.2	-	2.1E-01	-	-	2.0E-02		-	9.6E-01	-	6.9E-01	-	6.9E-02	
WEEK4	2/18/99	-	1.4	-	3.4E-01	-	-	U		-	9.0E-01	-	4.7	-	U	
	2/25/99	7.0	-	3.90E-01	-	5.6%	3.30E-02	-	8.2	-	17.7	-	1.20E-01	-	-	

"GC" refers to results of screening for PCE with a portable gas chromatograph. Converted from ppm to mg/m³. All GC samples analyzed prior to GC manufacturer's evaluation.

Blank cell refers to sample not taken.

"-" refers to sample not analyzed by this method.

"U" refers to undetected by analysis method.

SUMMARY - TOTAL VOCs (ppm) (2 of 2)

Date	Pre-Carbon (SMP 7)			Mid-Carbon (SMP 8)			Post-Carbon (SMP 9)			Manifold A (SMP 3)			Manifold B (SMP 4)			Manifold C (SMP 2)			SI Manifold (SMP 1)			Down Wind 1	Down Wind 2	Upwind								
	LAB	GC	PID	LAB	GC	PID	LAB	GC	PID	LAB	GC	PID	LAB	GC	PID	LAB	GC	PID	LAB	GC	PID	PID	PID	PID								
1/28/99	4.45	9.20	5.7	0.26	0.12	1.9	0.10	0.05	0.0	-	0.07	0.0	-	-	-	9.45	2.25	3.8	6.53	15.6	7.6	0.07	0.16	1.9	0.0	0.0	0.0					
1/28/99	-	1.58	4.6	-	0.28	0.0	-	0.07	0.0	-	0.06	0.0	-	-	-	-	9.70	4.6	-	17.70	9.3	-	0.21	2.3	-	-	-	-				
1/28/99	-	5.72	4.6	-	0.34	0.0	-	0.22	0.0	-	0.17	0.0	-	-	-	-	10.45	4.6	-	31.29	14.1	-	0.23	1.0	-	-	-	-				
1/28/99	-	8.64	4.6	-	0.48	0.0	-	0.22	0.0	-	0.13	0.0	-	-	-	-	13.56	4.6	-	30.80	11.6	-	0.2	0.0	-	-	-	-				
1/29/99	-	12.78	4.6	-	0.54	0.0	-	0.17	0.0	-	0.13	0.0	-	-	-	-	14.16	4.6	-	19.80	9.3	-	0.29	0.0	-	-	-	-				
2/4/99	-	12.78	4.6	-	0.43	0.0	-	0.05	0.0	-	0.05	0.0	-	-	-	-	14.16	4.6	-	34.21	9.3	-	0.26	0.0	0.0	0.0	0.0	0.0				
2/4/99	1.34	2.57	6.7	0.13	1.01	0.0	0.03	0.00	0.0	0.02	0.00	0.0	10.21	26.06	33.5	1.33	3.95	4.4	-	-	-	0.06	0.32	0.0	-	-	-					
2/4/99	2.57	12.76	8.9	0.14	0.00	0.0	0.02	0.00	0.0	0.01	0.00	0.0	-	44.73	17.8	-	8.76	2.2	-	-	-	-	0.26	0.0	-	-	-	-				
2/4/99	-	12.23	8.9	-	0.55	0.0	-	0.02	0.0	-	0.02	0.0	-	-	22.44	22.30	-	4.44	2.2	-	-	-	-	0.22	0.0	-	-	-	-			
2/4/99	-	15.18	8.9	-	0.52	0.0	-	0.02	0.0	-	0.02	0.0	-	-	37.26	17.80	-	3.60	2.2	-	-	-	-	0.26	0.0	-	-	-	-			
2/4/99	-	13.35	4.4	-	0.56	0.0	-	0.02	0.0	-	0.03	0.0	-	-	31.11	24.50	-	2.73	2.2	-	-	-	-	0.23	0.0	-	-	-	-			
2/4/99	-	10.20	4.4	-	0.58	0.0	-	0.03	0.0	-	0.01	0.0	-	-	5.67	13.4	-	6.21	2.2	-	-	-	-	0.3	0.0	-	-	-	-			
2/4/99	-	11.32	4.4	-	0.41	0.0	-	0.01	0.0	-	0.0	0.0	-	-	9.6	20.1	-	3.94	2.2	-	-	-	-	0.21	0.0	0.0	0.0	0.0	0.0			
2/5/99	-	8.05	4.4	-	0.40	0.0	-	U	0.0	-	0.3	9.6	-	-	0.33	2.4	-	3.52	1.5	7.2	0.01	0.09	2.4	-	-	-	-	-	-			
2/11/99	2.34	0.33	2.4	0.13	0.03	2.4	0.02	0.01	U	0.0	0.95	0.09	2.4	-	-	-	-	-	-	1.02	7.2	-	0.01	2.4	-	-	-	-	-	-		
2/11/99	4.52	0.3	2.4	0.12	0.18	2.4	0.01	U	0.0	0.95	0.09	2.4	-	-	-	-	-	-	1.68	2.4	-	0.05	0.0	-	-	-	-	-	-	-		
2/11/99	-	0.60	4.8	-	0.09	0.0	-	U	0.0	-	0.27	2.4	-	-	-	-	-	-	1.68	2.4	-	0.04	0.0	-	-	-	-	-	-	-		
2/11/99	-	0.42	2.4	-	0.11	0.0	-	U	0.0	-	0.39	2.4	-	-	-	-	-	-	1.56	2.4	-	U	0.0	-	-	-	-	-	-	-		
2/11/99	-	0.48	2.4	-	0.09	0.0	-	U	0.0	-	0.3	2.4	-	-	-	-	-	-	1.41	2.4	-	0.01	0.0	-	-	-	-	-	-	-		
2/11/99	-	0.48	2.4	-	0.09	0.0	-	U	0.0	-	0.33	2.4	-	-	-	-	-	-	1.04	2.4	-	0.01	0.0	-	-	-	-	-	-	-		
2/11/99	-	0.34	2.4	-	0.06	0.0	-	0.02	0.0	-	0.87	2.4	-	-	-	-	-	-	3.18	2.1	-	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2/12/99	-	0.34	2.1	-	0.09	0.0	-	U	0.0	-	0.9	2.1	-	-	-	-	-	-	1.04	2.4	-	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2/13/99	0.66	0.56	2.5	0.22	0.03	0.0	0.02	U	0.0	-	0.5	2.5	-	-	-	-	-	-	0.14	2.5	-	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2/13/99	0.29	0.22	2.5	0.09	0.04	0.0	0.00	0.03	0.0	-	0.02	0.0	-	-	-	-	-	-	0.13	2.5	-	0.1	2.5	-	-	-	-	-	0.0	0.0	0.0	
2/13/99	-	0.18	2.5	-	0.03	0.0	-	U	0.0	-	0.0	0.0	-	-	-	-	-	-	0.08	2.5	-	U	0.0	-	-	-	-	-	0.0	0.0	0.0	
2/13/99	-	0.21	2.5	-	0.05	0.0	-	U	0.0	-	0.0	0.0	-	-	-	-	-	-	0.0	2.5	-	2.10E-02	0.03	0.0	-	-	-	-	0.0	0.0	0.0	
2/25/99	1.03	-	2.0	6.20E-02	-	0.0	9.00E-03	-	0.0	-	-	-	-	-	-	1.2	-	0.0	2.6	-	2.0	2.50E-02	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

"Lab" refers to laboratory results converted from mg/m³ to ppm.

"GC" refers to results of screening for VOCs with a portable gas chromatograph. All GC samples analyzed prior to GC manufacturer's evaluation.

"PID" refers to results of field screening with a photoionization detector.

"-" refers to sample not taken.

"." refers to sample not analyzed by this method.

"U" refers to undetected.

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

SUMMARY OF CARBON PID DATA

Date	Airflow Rate (acfm)	Hours of Operation at Airflow (hrs)	ppm equivalents			lb/hr			lbs		
			Pre-Carbon PID	Mid-Carbon PID	Post-Carbon PID	Pre-Carbon Loading Rate	Mid-Carbon Loading Rate	Post-Carbon Loading Rate	Pre-Carbon Loading	Mid-Carbon Loading	Post-Carbon Loading
1/28/99	741	0.1	5.7	1.9	0.0	1.2E-01	3.9E-02	0.0	9.7E-03	3.2E-03	0.0
1/28/99	741	0.4	4.6	0.0	0.0	9.4E-02	0.0	0.0	3.9E-02	0.0	0.0
1/28/99	741	0.5	4.6	0.0	0.0	9.4E-02	0.0	0.0	4.7E-02	0.0	0.0
1/28/99	740	3.0	4.6	0.0	0.0	9.4E-02	0.0	0.0	2.8E-01	0.0	0.0
1/28/99	740	3.7	4.6	0.0	0.0	9.4E-02	0.0	0.0	3.5E-01	0.0	0.0
1/29/99	728	14.9	4.6	0.0	0.0	9.3E-02	0.0	0.0	1.4	0.0	0.0
2/4/99	748	141.3	2.2	0.0	0.0	4.6E-02	0.0	0.0	6.4	0.0	0.0
2/4/99	739	0.1	6.7	0.0	0.0	1.4E-01	0.0	0.0	1.4E-02	0.0	0.0
2/4/99	739	0.4	8.9	0.0	0.0	1.8E-01	0.0	0.0	7.3E-02	0.0	0.0
2/4/99	739	0.5	8.9	0.0	0.0	1.8E-01	0.0	0.0	9.1E-02	0.0	0.0
2/4/99	739	1.0	8.9	0.0	0.0	1.8E-01	0.0	0.0	1.8E-01	0.0	0.0
2/4/99	721	2.0	4.4	0.0	0.0	8.8E-02	0.0	0.0	1.8E-01	0.0	0.0
2/4/99	721	4.0	4.4	0.0	0.0	8.8E-02	0.0	0.0	3.5E-01	0.0	0.0
2/4/99	720	15.0	4.4	0.0	0.0	8.8E-02	0.0	0.0	1.3	0.0	0.0
2/5/99	736	142.1	2.4	0.0	0.0	4.9E-02	0.0	0.0	7.0	0.0	0.0
2/11/99	750	0.1	2.4	0.0	0.0	5.0E-02	0.0	0.0	5.0E-03	0.0	0.0
2/11/99	750	0.4	4.8	0.0	0.0	1.0E-01	0.0	0.0	4.0E-02	0.0	0.0
2/11/99	750	0.5	2.4	2.4	0.0	5.0E-02	5.0E-02	0.0	2.5E-02	2.5E-02	0.0
2/11/99	750	1.0	2.4	0.0	0.0	5.0E-02	0.0	0.0	5.0E-02	0.0	0.0
2/11/99	723	2.0	2.4	0.0	0.0	4.8E-02	0.0	0.0	9.6E-02	0.0	0.0
2/11/99	723	4.0	2.1	0.0	0.0	4.2E-02	0.0	0.0	1.7E-01	0.0	0.0
2/11/99	731	15.2	2.1	0.0	0.0	4.3E-02	0.0	0.0	6.5E-01	0.0	0.0
2/18/99	707	167.3	2.5	0.0	0.0	4.9E-02	0.0	0.0	8.2	0.0	0.0
2/18/99	725	0.5	2.5	0.0	0.0	5.0E-02	0.0	0.0	2.5E-02	0.0	0.0
2/18/99	725	2	2.5	0.0	0.0	5.0E-02	0.0	0.0	1.0E-01	0.0	0.0
2/18/99	725	8	2.5	0.0	0.0	5.0E-02	0.0	0.0	4.0E-01	0.0	0.0
2/25/99	722	121.4	2.0	0.0	0.0	4.0E-02	0.0	0.0	4.9	0.0	0.0

Notes: The airflow rate used for these calculations was the pre-carbon calculated airflow.
The calculated emissions assumes PCE is the only contaminant.
Molecular weight of PCE = 165.83 g/mole

The approximate quantity of contaminant loaded onto Carbon Unit No. 1
estimate using PID data = 32 lbs

The approximate quantity of contaminant loaded onto Carbon Unit No. 2
estimated using PID data = 0 lbs

Total VOCs Removed = 32 lbs

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

Carbon Performance Data (PCE)

Date	Airflow (acfm)	Approx. Sampling Interval (hr)	Cumm. Hours of Operation (hr)	(mg/m ³)			(lb/hr)			(lb)	
				Pre- Carbon	Mid- Carbon	Post- Carbon	Pre- Carbon (PCE)	Mid- Carbon	Post- Carbon	Carbon Unit No. 1 Loading	Carbon Unit No. 2 Loading
1/28/99	741	0.1	0.1	30.000	1.200	0.038	0.085	0.003	0.000	0.008	0.000
2/4/99	748	163.8	163.9	9.000	0.550	0.000	0.026	0.002	0.000	3.959	0.258
2/4/99	739	0.1	164.0	17.000	0.800	0.009	0.048	0.002	0.000	0.005	0.000
2/11/99	736	165.1	329.1	10.000	0.850	0.000	0.028	0.002	0.000	4.251	0.395
2/11/99	750	0.1	329.2	4.400	0.800	0.004	0.013	0.002	0.000	0.001	0.000
2/18/99	707	167.3	496.5	4.400	0.550	0.000	0.012	0.001	0.000	1.740	0.249
2/18/99	725	0.5	497.0	2.000	0.500	0.001	0.006	0.001	0.000	0.002	0.001
2/25/99	722	121.4	618.4	6.800	0.325	0.003	0.019	0.001	0.000	2.170	0.108
										12.136	1.011

Carbon Performance Data (TCE)

Date	Airflow (acfm)	Approx. Sampling Interval (hr)	Cumm. Hours of Operation (hr)	(mg/m ³)			(lb/hr)			(lb)	
				Pre- Carbon	Mid- Carbon	Post- Carbon	Pre- Carbon (TCE)	Mid- Carbon	Post- Carbon	Carbon Unit No. 1 Loading	Carbon Unit No. 2 Loading
1/28/99	741	0.1	0.1	0.500	0.023	0.500	1.4E-03	6.5E-05	1.4E-03	1.4E-04	0.000
2/4/99	728	163.8	163.9	0.190	0.028	0.017	5.3E-04	7.7E-05	4.7E-05	7.4E-02	4.8E-03
2/4/99	748	0.1	164.0	0.380	0.026	0.021	1.1E-03	7.4E-05	6.0E-05	1.0E-04	1.4E-06
2/11/99	736	165.1	329.1	0.320	0.000	0.000	9.0E-04	0.000	0.000	1.5E-01	0.000
2/11/99	750	0.1	329.2	13.000	0.000	0.037	3.7E-02	0.000	1.1E-04	0.000	0.000
2/18/99	707	167.3	496.5	0.000	0.650	0.000	0.000	1.8E-03	0.000	0.000	2.9E-01
2/18/99	725	0.5	497.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2/25/99	722	121.4	618.4	0.024	0.000	0.000	6.6E-05	0.000	0.000	8.0E-03	0.000
										0.231	0.299

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

Carbon Performance Data (TCA)

Date	Airflow (acfm)	Approx. Sampling Interval (hr)	Cumun. Hours of Operation (hr)	(mg/m ³)			(lb/hr)			(lb)	
				Pre- Carbon	Mid- Carbon	Post- Carbon	Pre- Carbon (TCA)	Mid- Carbon	Post- Carbon	Carbon Unit No. 1 Loading	Carbon Unit No. 2 Loading
1/28/99	741	0.0	0.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2/4/99	728	163.8	163.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2/4/99	748	0.1	164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2/11/99	736	165.1	329.1	0.000	1.5E-02	0.000	0.000	4.2E-05	0.000	0.000	7.0E-03
2/11/99	750	0.1	329.2	0.000	1.8E-02	0.000	0.000	5.0E-05	0.000	0.000	5.0E-06
2/18/99	707	167.3	496.5	2.2E-02	1.7E-02	0.000	5.9E-05	4.5E-05	0.000	2.5E-03	7.5E-03
2/18/99	725	0.5	497.0	0.000	2.6E-02	0.000	0.000	7.1E-05	0.000	0.000	0.000
2/25/99	722	121.4	618.4	0.086	0.021	0.000	2.4E-04	5.9E-05	0.000	2.2E-02	7.1E-03

0.024 0.022

Carbon Performance Data (Total VOCs)

Date	Pre- Carbon Airflow (acfm)	Approx. Sampling Interval (hr)	Cumun. Hours of Operation (hr)	(mg/m ³)			(lb/hr)			(lb)	
				Pre- Carbon	Mid- Carbon	Post- Carbon	Pre- Carbon (TOTALS)	Mid- Carbon	Post- Carbon	Carbon Unit No. 1 Loading	Carbon Unit No. 2 Loading
1/28/99	741	0.1	0.1	30.500	1.406	0.538	0.086	0.004	0.002	0.008	0.000
2/4/99	728	163.8	163.9	9.190	0.711	0.146	0.026	0.002	0.000	3.866	0.258
2/4/99	748	0.1	164.0	17.482	0.897	0.066	0.050	0.003	0.000	0.005	0.000
2/11/99	736	165.1	329.1	12.570	0.887	0.053	0.035	0.002	0.000	5.427	0.388
2/11/99	750	0.1	329.2	21.142	0.829	0.050	0.061	0.002	0.000	0.006	0.000
2/18/99	707	167.3	496.5	4.492	1.278	0.050	0.012	0.003	0.000	1.453	0.555
2/18/99	725	0.5	497.0	2.000	0.587	0.028	0.006	0.002	0.000	0.002	0.001
2/25/99	722	121.4	618.4	7.001	0.387	0.033	0.019	0.001	0.000	2.216	0.119

12.984 1.321

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

SUMMARY OF PRESSURE AND VACUUM GAUGE READINGS, INCHES OF W.C.

Date	Pre-Carbon	Mid-Carbon	20 HP Blower Inlet	20 HP Blower Outlet	3 HP Blower Inlet	3 HP Blower Outlet
1/28/99	22.5	10	36	41	12	40
1/28/99	22	10	36	40	12	40.5
1/29/99	22	10	36.5	41	12	40
2/4/99	22.5	10	37	40	11.5	39
2/4/99	21.5	9.5	38	38.5	22.5	37.5
2/4/99	21	9	40	37.5	22.5	37
2/5/99	21	9	39.5	37.5	23.5	37
2/11/99	21.5	9.5	38	38	23.5	37.5
2/11/99	22	9.5	41	38.5	12	38
2/11/99	21	9	44	37.5	12	37
2/12/99	21	9	44	37.5	11.5	37
2/18/99	21	9	43.5	37	11.5	36
2/18/99	22	9.5	38	38.5	11	38
2/25/99	22.5	10	38	40	11	39
2/25/99	23	10	35	41	9.5	39

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

SUMMARY OF WATER LEVELS AT MONITOR WELLS, FEET BELOW GRADE

Well Number	Screen Interval	1/28/99	1/29/99	2/4/99	2/4/99	2/5/99	2/11/99	2/11/99	2/12/99	2/18/99	2/25/99
MW-28B	38 - 48	17.76	17.72	17.54	17.53	17.52	17.54	17.54	17.53	17.60	17.74
MW-45A	13 - 28	18.60	18.59	18.43	18.44	18.41	18.42	18.43	19.43	18.49	18.63
MW-45B	40.5 - 50.5	18.42	18.42	18.25	18.26	18.23	18.26	18.27	18.26	18.30	18.47
MW-51A	18 - 28	16.60	16.60	17.44	17.44	17.42	17.41	17.44	17.43	17.49	17.65
MW-52A	19 - 29	17.02	17.02	16.84	16.85	16.83	16.84	16.86	16.86	16.90	17.07
MW-98-01A	17 - 27	21.16	21.06	20.89	20.92	20.88	20.86	20.84	20.84	20.89	21.09
MW-98-01B	35 - 45	20.11	20.07	19.90	19.93	19.89	19.89	19.89	19.89	19.93	20.10
MW-98-02A	16.5 - 26.5	19.48	19.42	19.25	19.26	19.24	19.25	19.24	19.23	19.30	19.47
MW-98-02B	35 - 45	18.42	18.40	18.23	18.23	18.21	18.22	18.23	18.23	18.31	18.50
MW-98-3A	19 - 29	23.95	23.96	23.69	23.71	23.67	23.66	23.66	23.67	23.70	23.88
MW-98-04	15 - 25	20.01	20.02	19.84	19.85	19.81	19.80	19.84	19.83	18.89	20.05
MW-98-05A	17.5 - 27.5	20.77	20.72	20.55	20.56	20.53	20.54	20.54	20.54	20.58	20.75
MW-98-05B	32.5 - 42.5	20.86	20.75	20.57	20.60	20.55	20.54	20.54	20.53	20.58	20.77
MW-98-06A		24.96	24.92	24.75	24.76	24.73	24.72	24.71	24.71	24.75	24.91
MW-98-06B	35 - 45	24.91	24.87	24.72	23.72	24.70	24.68	24.69	24.69	24.72	24.90
MW-98-07	19 - 29	27.96	27.92	27.75	27.77	27.73	27.72	27.73	27.72	27.76	27.93
MW-98-08	22.5 - 32.5	27.17	27.13	26.97	26.98	26.95	26.94	26.97	26.96	27.01	27.15

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

SUMMARY OF VACUUM GAUGE READINGS AT VAPOR POINTS, INCHES OF W.C.

Well Number	1/28/99	1/29/99	2/4/99	2/4/99	2/5/99	2/11/99	2/11/99	2/12/99	2/18/99	2/25/99
VP - 1	0.4	0.4	0.4	1.15	1.1	1	0.85	0.9	0.95	0.45
VP - 2	0.35	0.3	0.4	0.7	0.7	0.6	1.4	1.6	1.5	0.45
VP - 3	0.9	0.65	0.75	0.5	0.45	0.45	1.4	1.65	1.5	0.8
VP - 5	0.01	0	0	0.05	0.05	0	0	0	0	0
VP - 6	0	0	0	0	0	0	0	0	0	0
VP - 7	0	0	0	0	0	0	0	0	0	0
VP - 8	0	0	0	0	0	0	0	0	0	0
VP - 9	0.55	0.5	0.55	0.55	0.5	0.35	0.45	0.5	0.5	0.53
VP - 10	0.22	0.2	0.23	0.3	0.3	0.19	0.09	0.1	0.1	0.21
VP - 11	0.7	0.7	0.85	1.25	1.35	1.05	0.24	0.25	0.25	0.9

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

SUMMARY OF VACUUM GAUGE READINGS AT SVE WELLS, INCHES OF W.C.

Well Number	1/28/99	1/29/99	2/4/99	2/4/99	2/5/99	2/11/99	2/11/99	2/12/99	2/18/99	2/25/99
1	0	0	0	0	0	0	0	0	0	0
2	0.14	0.13	0.15	0.21	0.2	0.165	0.03	0.04	0.05	0.14
3	0	0	0	0	0	0	0	0	0	0
4	0.07	0.07	0.08	0.08	0.07	0.05	0.06	0.07	0.08	0.04
5	0.5	0.45	0.55	0.65	0.7	0.5	0.3	0.4	0.4	0.5
6	27	29	29	5.5	4.6	4.4	1.1	1.25	1.25	28
7	2.4	2.4	2.4	3.4	3.4	3	1.95	2	2.1	2.8
8	31	33	30	1.65	1.7	0.55	4	4.2	4.2	29
9	3.4	3.3	3.5	32	33	32	0.95	1	1	2
10	3.8	3	3	4.2	4	3.7	2.1	2.2	2.2	4
11	1.6	1.95	2	30	31	30	3.5	3.6	3.6	2
12	2.2	2	2	5.4	5	4.8	1.9	2	2.1	2.4
13	0.9	0.85	0.95	2.4	2.2	2.2	34	35	36	1
14	2.6	2.6	2.6	1.85	1.85	1.65	35	36	37	3.2
15	0.6	0.6	0.6	1.3	1.25	1.05	2.9	2.9	3.1	0.65

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

SUMMARY OF VACUUM GAUGE READINGS AT MONITOR WELLS, INCHES OF W.C.

Well Number	1/28/99	1/29/99	2/4/99	2/4/99	2/5/99	2/11/99	2/11/99	2/12/99	2/18/99	2/25/99
MW-28B	-	-	-	-	-	-	-	-	-	-
MW-45A	1.85	1.6	1.7	1.8	1.8	1.6	1.2	1.25	1.25	1.95
MW-45B	-	-	-	-	-	-	-	-	-	-
MW-51A	-	-	-	-	-	-	-	-	-	-
MW-52A	-	-	-	-	-	-	-	-	-	-
MW-98-01A	1.15	0.85	0.9	0.75	0.8	0.75	2	2.1	2.1	1.1
MW-98-01B	-	-	-	-	-	-	-	-	-	-
MW-98-02A	1.15	0.8	0.85	0.55	0.5	0.45	1.35	1.35	1.45	1.15
MW-98-02B	-	-	-	-	-	-	-	-	-	-
MW-98-3A	0.85	0.75	0.75	1.5	1.4	1.2	2	2	2.05	0.85
MW-98-04	1.3	1.2	1.15	2.4	2	2	0.8	0.8	0.9	1.3
MW-98-05A	-	-	-	-	-	-	-	-	-	-
MW-98-05B	2.6	2.2	2.4	2.6	2.5	2.4	2.4	2.5	2.5	3
MW-98-06A	0.35	0.25	0.3	0.5	0.45	0.4	0.85	0.9	0.95	0.3
MW-98-06B	-	-	-	-	-	-	-	-	-	-
MW-98-07	0.19	0.22	0.17	0.5	0.4	0.4	0.45	0.5	0.55	0.2
MW-98-08	0.12	0.16	0.12	0.25	0.3	0.24	0.35	0.4	0.4	0.13

"-" Well screened entirely below water table therefore vacuum was not measured

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

SUMMARY OF O&M ACTIVITIES

Date	O&M Activity	Comments
1/28/99	Carbon changeout Units 1 and 2	Replaced with 1250 lbs/Unit
1/28/99	Modify system configuration (Week 1 scenario)	SVE 6 & SVE 8 operational. South SI manifold operational. North and Middle SI manifolds open to ambient air.
2/4/99	Pump moisture from 20 HP moisture separator	Removed approximately 15 gallons
2/4/99	Modify system configuration (Week 2 scenario)	SVE 9 & SVE 11 operational. Middle SI manifold operational. North and South SI manifolds open to ambient air.
2/11/99	Modify system configuration (Week 3 scenario)	SVE 13 & SVE 14 operational. North SI manifold drawing operational. Middle and South SI manifolds open to ambient air.
2/18/99	Modify system configuration (Week 4 scenario)	SVE 6 & SVE 8 operational. Front of North and South SI manifolds operational. Back of Middle SI manifold open to ambient air.
2/23/99	Alarm acknowledgement	Alarm on 20 HP and 3 HP blowers (7:16 AM)
2/25/99	Alarm response	Thermal overload both blowers. Possible temporary power loss.
2/25/99	Pump moisture from 20 HP moisture separator	Removed approximately 20 gallons
2/25/99	Modify system configuration (Week 5 scenario)	SVE 9 & SVE 11 operational. Back of North and South SI manifolds operational. Front of Middle SI manifold open to ambient air.

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

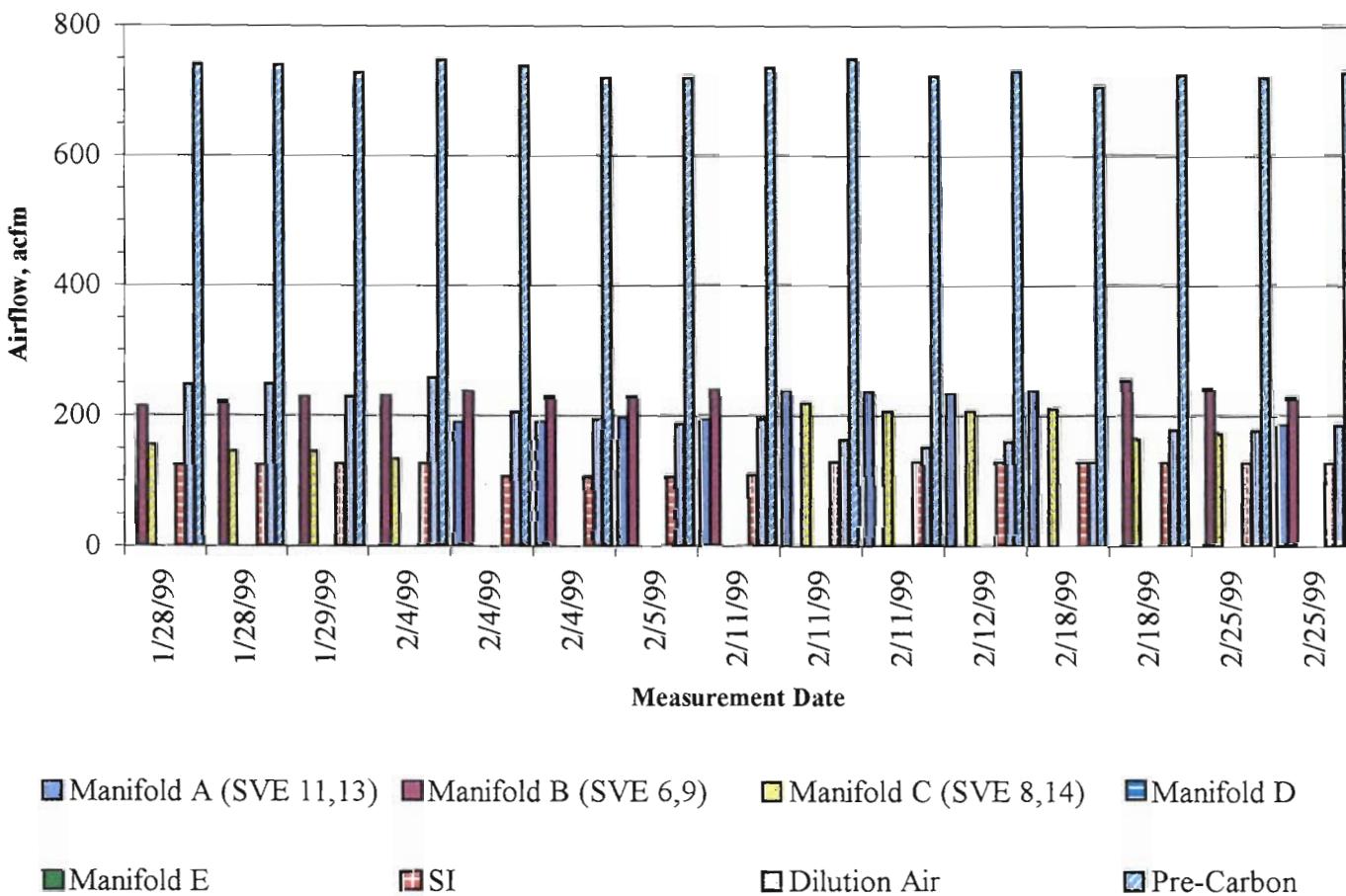
SUMMARY OF ALARM CONDITIONS DURING OPERATION

Date	Alarm Acknowledged	Alarm Condition	Cause of Alarm	System Restart Time
2/23/99	7:16	3,9	Cause unknown. Possible temporary interruption of power. (Thermal overload alarms trigger when power is returned to blowers)	2/25/99 7:35

Alarm Conditions	Alarm Description	Alarm Trigger Setting
1	High high moisture level, 20 HP separator	13.5" on sight glass
2	High vacuum switch, 20 HP blower	85" of W.C. at blower inlet
3	Thermal overload, 20 HP blower	
4	Low pressure switch, 20 HP blower	18" of W.C. at blower outlet
5	High carbon back-pressure	80" of W.C. at Pre-Carbon
6	Combustible gas detector	18%
7	High high moisture level, 3 HP separator	13.5" on sight glass
8	High vacuum switch, 3 HP blower	69" of W.C. at blower inlet
9	Thermal overload, 3 HP blower	
10	Low pressure switch, 3 HP blower	2.5" of W.C. at blower outlet

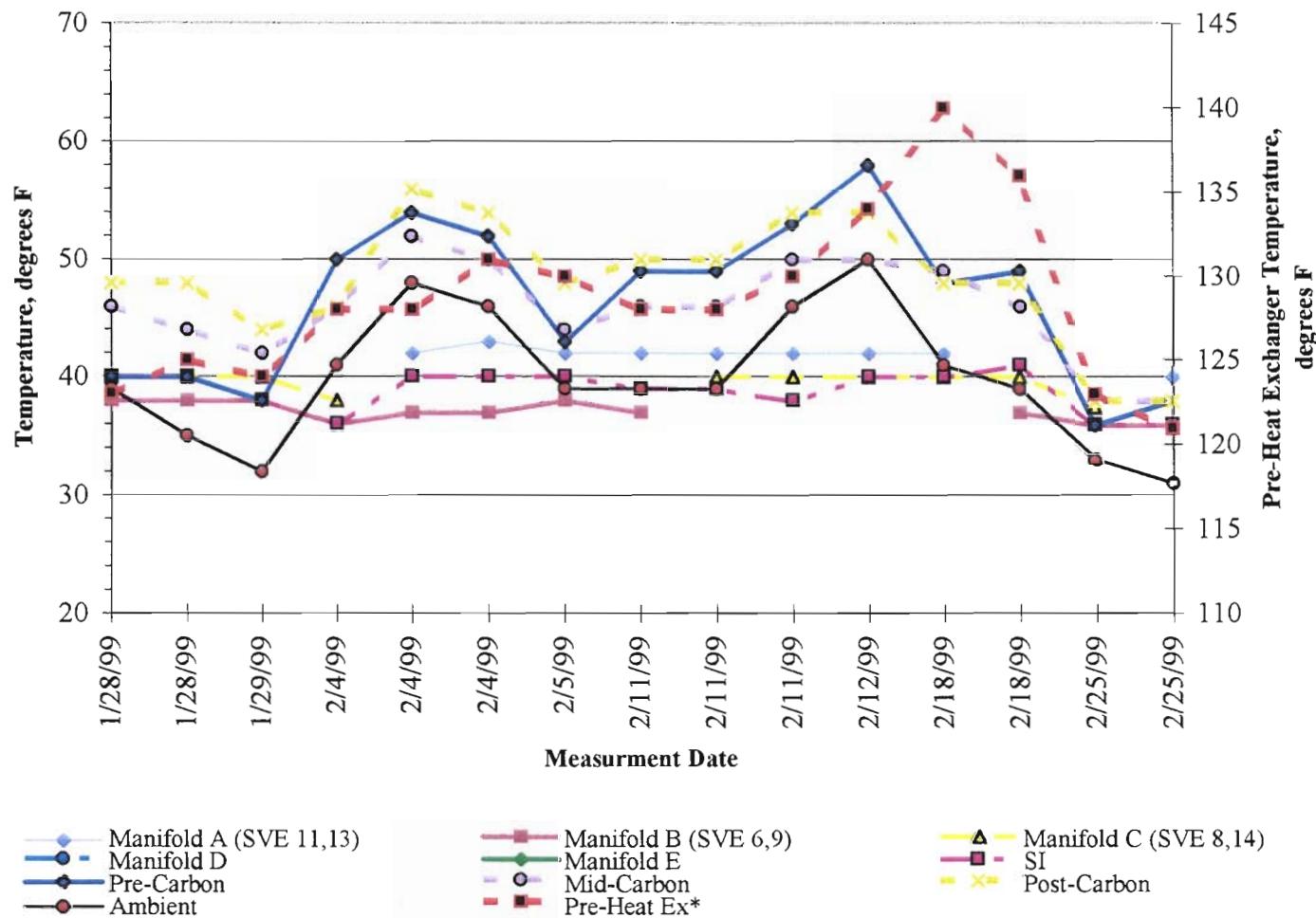
GRAPH 1
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

AIRFLOW DATA SUMMARY



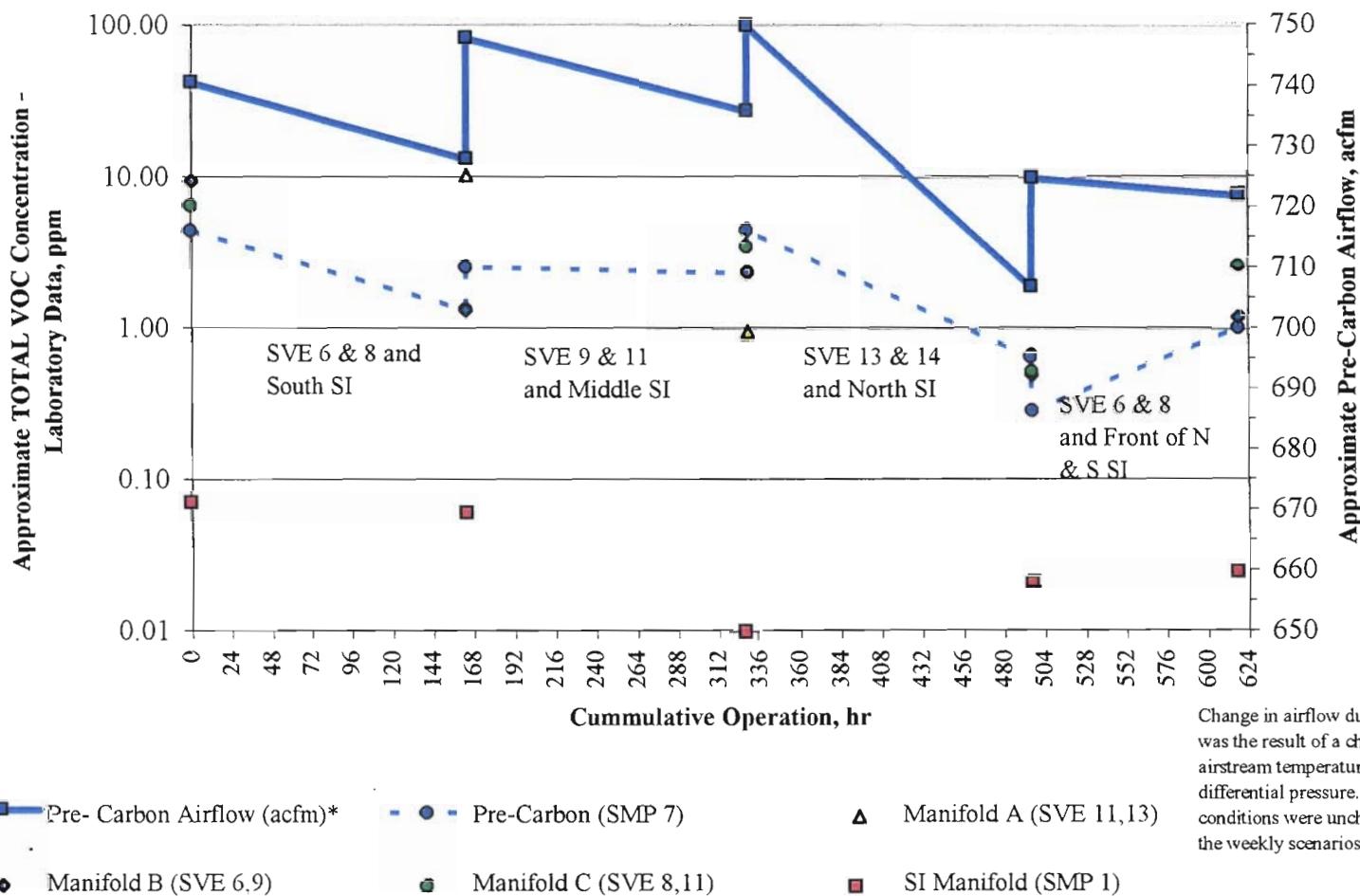
GRAPH 2
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

TEMPERATURE DATA SUMMARY



GRAPH 3
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

LAB TOTAL VOCs - SUMMARY



GRAPH 4
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

