



WALDEN ASSOCIATES

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Via e-mail 6/11/08 to J. Dyber

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June 10, 2008

Mr. Jeffrey Dyber, PE
NYSDEC, Remedial Bureau A
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Re: Progress Report: May 2008
Frost Street Sites: Site ID #s I-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Dyber:

Walden Associates (Walden) is pleased to submit the Progress Report for the above-referenced Site.

May Work Completed

The following tasks were completed in May 2008:

SVE/AS System O&M

Refer to Appendix A for a summary of SVE/AS System O&M procedures. During periodic O&M visits, system parameters were logged on dedicated O&M log forms (Refer to Appendix B).

- Monthly SVE/AS remedial system O&M.
- Monthly individual SVE well lines and combined effluent flow monitoring at the interior system sampling ports for VOC concentrations utilizing a calibrated PID.
- Monthly PID readings of the sampling ports at the GAC system influent and effluent points.
- Quantitative sampling of influent and effluent SVE system air flow conducted on May 28, 2008. Results of quantitative sampling with one liter summa canisters for TO-15 analysis are summarized in Table D-1 in Appendix D.
- 1st quarter 2008 groundwater monitoring sampling event (quarterly sampling of 8 Site related wells – completed in March 2008) results were submitted to the NYSDEC in a quarterly groundwater monitoring report, dated May 22, 2008.

June Work Items

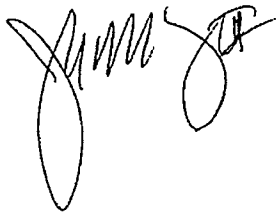
The following is a list of work scheduled to be completed during the month of June:

SVE/AS System O&M

- Monthly operation and maintenance visits to monitor SVE system parameters.
- Monthly individual SVE well line and combined effluent flow monitoring at the interior system sampling ports for VOC concentrations utilizing a calibrated PID.
- Monthly readings of the sampling ports at the influent and effluent points of the GAC system with a PID.
- 2nd quarter 2008 groundwater monitoring sampling event scheduled to begin Tuesday, June 10, 2008.
- The slow recharge rates at MW-1B and MW-9A will be addressed by developing the wells to minimize silting of the screens and increase recharge rates.
- Quantitative sampling of influent and effluent SVE system air for analysis scheduled for June 23, 2008.
- SVE-2 well point, which was damaged at the surface, will be repaired and finished at the surface with a new heavy-duty flushmount manhole cover.

Please contact Kristin Scroope or me if you have any questions or require additional information.

Very truly yours,
Walden Associates



Joseph M. Heaney, III P.E.
Principal

cc: A. Tamuno, Esq.
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G. Litwin
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Appendix A

Summary of SVE/AS System O & M Procedures

Frost Street Sites - Site ID #s1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Summary of SVE/AS System O&M Activities

During periodic O&M visits, system parameters were logged on dedicated O&M log forms (Refer to Appendix B). The following summarizes SVE/AS system O&M procedures:

Periodic SVE/AS Remedial System O&M

- All SVE well lines and the combined effluent air flow were monitored at the interior system sampling ports for volatile organic compounds (VOCs) using a calibrated photo-ionization detector PID to assess the remedial performance of the SVE/AS system.
- Mechanical checks of the SVE/AS system were performed periodically in accordance with the O&M Manual maintenance schedule.

Vapor Phase Granular Activated Carbon Treatment System Monitoring

- Monthly readings at the influent and effluent sampling ports were made with a calibrated PID to check the GAC system to detect carbon breakthrough. Qualitative VOC monitoring with a PID was utilized to record the performance of the GAC absorption system.
- PID-recorded VOC concentrations (reported in calibrant-gas-equivalents) were used to determine when the GAC in the lead unit requires replacement. The flow from the SVE lines to the lead carbon unit was typically changed to a new lead unit when the intermediate VOC reading is 25 percent or greater of the influent VOC concentration.
- Refer to Appendix C for a log of spent GAC totals to date.

Appendix B

SVE/AS System O & M Log Forms

Frost Street Sites - Site ID #s1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

O & M CHECKLIST FOR SVE/AIR SPARGE SYSTEM
101 Frost Street, Westbury, New York

Inspected By:	GLS & EIL	Date:	5/28/2008	Weather:	Sun and Wind, ~60F
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Arrival Time:	800	SVE 1 Clock:	130311	SVE 2 Clock:	105307
Departure Time:		SVE 1 Clock:		SVE 2 Clock:	

CONTROL PANEL	Arrival	Departure
AS System	On	On
SVE System	On	On
Surge Protection	Lit	Lit
Lightning Protection	White	White
Sensaphone	On	On

PID	
Calibrated	Yes
Concentration:	ppb

Carbon Vessels	Pre-Carbon PID	Post Carbon PID	Bypassed
Carbon Vessel 1	6.4 ppm	1.5 ppm	No
Carbon Vessel 2	ppm	ppm	No
Carbon Vessel 3	ppm	ppm	Yes

AIR SPARGE SYSTEM	
Cleaned Particulate Filter	No
Drained Filter/collector 1	Yes
Drained Filter/collector 2	Yes
Compressor Discharge Pressure	30 psi
Compressor Holding tank Pressure	80 psi

SVE SYSTEM	
Knockout Tank Level	Empty gallons
Knockout Discharge to Sewer	NA gallons

Monitoring Well Depth to Water Readings	
2a	
4a	
6a	

SVE WELL READINGS (INSIDE TRAILER)					
SVE	Velocity	Flow	Vacuum	PID Concentration	
V1	7750 FPM	scfm	47 inch H ₂ O	16.8 ppm	
V2	5600 FPM	scfm	52 inch H ₂ O	39.4 ppm	
V3a	4800 FPM	scfm	42 inch H ₂ O	6.2 ppm	
V3	5250 FPM	scfm	42 inch H ₂ O	18.2 ppm	
V4	4800 FPM	scfm	42 inch H ₂ O	1.1 ppm	
V6	4000 FPM	scfm	42 inch H ₂ O	1.2 ppm	
V5	3500 FPM	scfm	44 inch H ₂ O	1.4 ppm	
V7	3300 FPM	scfm	42 inch H ₂ O	0.6 ppm	
Pre-Knockout Port			3.75 inch Hg vac	14.2 ppm	
SVE Flow Rate	4200 FPM	scfm			

AS WELL READINGS (INSIDE TRAILER)					
AS WELL #	Pressure	Air Flow	AS WELL #	Pressure	Air Flow
AS Well #1	17.5 psi	3.5 SCFM	AS Well #16	17.5 psi	2.5 SCFM
AS Well #2	17.5 psi	3 SCFM	AS Well #12	19 psi	>2 SCFM
AS Well #4	17.5 psi	4.5 SCFM	AS Well #10	19 psi	>2 SCFM
AS Well #3	17.5 psi	4 SCFM	AS Well #13	19 psi	>2 SCFM
AS Well #5	17.5 psi	5 SCFM	AS Well #14	18 psi	4 SCFM
AS Well #7	17.5 psi	4.5 SCFM	AS Well #18	17.5 psi	4 SCFM
AS Well #9	17 psi	8 SCFM	AS Well #17	18.5 psi	3.5 SCFM
AS Well #8	16.5 psi	5.5 SCFM	AS Well #15	18 psi	7 SCFM
AS Well #6	17.5 psi	5.5 SCFM	AS Well #19	17.5 psi	4.5 SCFM
AS Well #11	17 psi	3.5 SCFM			

NOTES
Collected:
Effluent 5/28/08 at 0925 1L Summa Canister
Influent 5/28/08 at 1002 1L Summa Canister

Appendix C

Log of Spent Vapor Phase GAC Totals to Date

Frost Street Sites - Site ID #s1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

**Frost Street Sites
Westbury, New York**

**Table C1
Spent Vapor Phase GAC Totals**

Date of Transport from Site	Spent GAC Weight (pounds)	Carbon Facility	RCRA Facility #
January 19, 2006	7,500	Giant Resource Recovery-Sumter Inc.	SCD036275626
February 2, 2006	11,441	Envirotrol Inc.	PAD987270725
April 7, 2006	6,486	Envirotrol Inc.	PAD987270725
August 25, 2006	5,923	Envirotrol Inc.	PAD987270725
December 5, 2006	5,691	Envirotrol Inc.	PAD987270725
<i>2006 Total</i>	<i>37,041</i>		
March 30, 2007	6,913	Envirotrol Inc.	PAD987270725
September 20, 2007	6,164	Envirotrol Inc.	PAD987270725
<i>2007 Total</i>	<i>13,077</i>		
January 16, 2008	8,750	Siemens Water Technologies	PAD987270725
April 29, 2008	7,814	Siemens Water Technologies	PAD987270725
<i>2008 Total</i>	<i>16,564</i>		
Project Total	66,682		

Appendix D

Summary of SVE System Influent/Effluent Results (TO-15)

Frost Street Sites - Site ID #s1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

FROST STREET SITES
WESTBURY, NEW YORK

TABLE 1
SUMMARY OF SVE SYSTEM INFLUENT/EFFLUENT AIR SAMPLE RESULTS (TO-15)

Target Compound	Influent												
	10/23/2006	12/7/2006	1/18/2007	4/4/2007	4/27/2007	5/16/2007	6/15/2007	7/18/2007	8/15/2007	9/26/2007	10/19/2007	11/19/2007	12/18/2007
	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Vinyl Chloride	460u	430u	0.25u	60.2U	60.2U	23.5U	1.22U	1.22U	1.22U	ND	ND	ND	ND
1,1-Dichloroethene	710u	670u	0.39u	43.7U	43.7U	11.0U	1.01U	1.01U	1.01U	ND	ND	ND	ND
trans-1,2-Dichloroethene	710u	670u	0.39u	49.7U	49.7U	12.5U	0.99U	0.99U	0.99U	ND	ND	ND	ND
1,1-Dichloroethane	730u	690u	0.40u	42.6U	42.6U	10.5U	0.85U	0.85U	0.85U	ND	ND	ND	ND
cis-1,2-Dichloroethene	710u	670u	0.39u	63.6U	63.6U	16.0U	1.27U	1.27U	1.27U	ND	ND	ND	ND
1,2-Dichloroethane	730u	690u	0.40u	34.9U	34.9U	86.0U	1.01U	1.01U	1.01U	ND	ND	ND	ND
1,1,1-Trichloroethane	980u	930u	0.53u	82.0U	82.0U	15.0U	1.64U	1.64U	1.64U	ND	ND	ND	ND
Trichloroethene	2,700	3,200	1.10	1.480	4.690	1.120	1.35U	1.35U	1.35U	1.900	1.100	970	330
1,1,2-Trichloroethane	980u	930u	0.53u	68.4U	68.4U	12.5U	1.37U	1.37U	1.37U	ND	ND	ND	ND
Tetrachloroethene	190,000	180,000	10,000	129,000	116,000	13,700	145,000	37,500	13,500	92,000	73,000	62,000	27,000
1,1,2,2-Tetrachloroethane	1200u	1,200u	0.67u	53.4U	53.4U	12.5U	1.07U	1.07U	1.07U	ND	ND	ND	ND
1,2-Dichloroethene (total)	710u	670u	0.39u	50.7U	50.7U	12.5U	0.87U	0.87U	0.87U	ND	ND	ND	ND

Target Compound	Effluent												
	10/19/2006	12/7/2006	1/18/2007	4/4/2007	4/27/2007	5/16/2007	6/15/2007	7/18/2007	8/15/2007 *	9/26/2007	10/19/2007	11/19/2007	12/18/2007
	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Vinyl Chloride	0.51u	0.51u	0.51u	1.20U	1.20U	0.47U	1.22U	1.22U	1.22U	ND	ND	ND	ND
1,1-Dichloroethene	0.79u	0.79u	0.79u	0.87U	0.87U	0.22U	1.01U	1.01U	1.01U	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.79u	0.79u	0.79u	0.99U	0.96U	0.25U	0.99U	0.99U	0.99U	ND	ND	ND	ND
1,1-Dichloroethane	0.81u	0.81u	0.81u	0.85U	0.85U	0.21U	0.85U	0.85U	0.85U	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.79u	0.79u	0.79u	1.27U	1.27U	0.32U	1.27U	1.27U	1.27U	ND	ND	ND	ND
1,2-Dichloroethane	0.81u	0.81u	0.81u	6.98U	6.98U	1.72U	1.01U	1.01U	1.01U	ND	ND	ND	ND
1,1,1-Trichloroethane	1.1u	1.1u	1.1u	1.64U	1.64U	0.30U	1.64U	1.64U	1.64U	ND	ND	ND	ND
Trichloroethene	4.1	4.1	1.1u	1.35U	1.66	2.75	1.35U	1.35U	3,000	ND	690	ND	ND
1,1,2-Trichloroethane	1.1u	1.1u	1.1u	1.37U	1.37U	0.25U	1.37U	1.37U	1.37U	ND	ND	ND	ND
Tetrachloroethene	55	26	8.8	54.4	196	2.84	1.680	107	9,580	25	9.2	21,000	6,000
1,1,2,2-Tetrachloroethane	1.4u	1.4u	1.4u	1.07U	1.07U	0.25U	1.07U	1.07U	1.07U	ND	ND	ND	ND
1,2-Dichloroethene (total)	0.79u	0.79u	0.79u	1.01U	1.01U	0.25U	0.87U	0.87U	0.87U	ND	ND	ND	ND

SGC = short-term guideline concentration
u = compound not detected at concentration above the listed reporting limit
U = compound not detected at concentration above the Method Detection Limit (MDL)
ND = Compound was analyzed for but not detected above the laboratory reporting limit
10/23/06 - 1/18/07 results analyzed by Severn Trent Laboratories
4/4/07 - 8/15/07 data analyzed by United Chemists
9/26/07 to present data analyzed by Columbia Analytical Services
Note: Lower concentrations detected on 1/18/07, 5/16/07, 7/18/07, 8/15/07 likely due to Air Sparging System component fault - System temporarily down around time of sampling event.
* Effluent sample secured post primary carbon vessel.
** Suma canister leaked after filling