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*Via email to jldyber@gw.dec.state.ny.us*

June 9, 2014

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



Re: Progress Report: May 2014  
Frost Street Sites: Site ID #s 1-30043 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 for work completed in May 2014.

#### **Work Completed in May 2014**

##### **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).

- Periodic SVE/AS remedial system O&M was conducted.
- Repair and maintenance tasks were completed as needed to ensure proper operation of the SVE/AS system.
- Periodic monitoring of individual SVE well lines and combined effluent flow at the interior system sampling ports for VOC concentrations utilizing a calibrated PID was conducted.
- Periodic PID readings of the influent and effluent sampling ports for the on-site SVE system vapor phase granular activated carbon (GAC) treatment vessels were taken.
- Spent vapor phase GAC totals to date are summarized in Table C-1 in Appendix C.

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- Quantitative sampling of the influent and effluent SVE system air flow was conducted with one liter summa canisters for TO-15 analysis on May 29, 2014. The sample results for the May 29<sup>th</sup> sampling event are not yet available and will be presented in the next monthly report.
- The laboratory analytical data report for the May 7, 2014 quantitative sampling event (done as representative of April 2014) is attached in Appendix D.

### **Quarterly/Annual Groundwater Monitoring**

- The 1st quarter 2014 groundwater sampling analytical data (8 monitoring wells - completed from March 25 - 27, 2014) was validated by a third party data validator. The data validation report is attached in Appendix E.
- The validated March 2014 quarterly sampling groundwater monitoring analytical data was submitted to NYSDEC on May 23, 2014 per the Electronic Data Deliverable (EDD) requirements.

### **89 Frost Street Site Source Area**

- The “Proposed Source Zone Treatment System Optimization” proposal was submitted to NYSDEC on May 6, 2014.
- NYSDEC’s comments on the “Proposed Source Zone Treatment System Optimization” proposal were received in a letter dated May 13, 2014. NYSDEC has been notified that the proposal will be modified in accordance with the comments and resubmitted by June 19, 2014.

### **Upcoming Work**

- Monthly operation and maintenance visits to monitor SVE system parameters will be completed.
- Monthly individual SVE well line and combined effluent flow monitoring at the interior system sampling ports for VOC concentrations utilizing a calibrated PID will be completed.
- Monthly readings of the sampling ports at the influent and effluent points of the GAC system with a PID will be taken.
- Monthly quantitative sampling of influent and effluent SVE system air for analysis will be completed.
- A quarterly groundwater monitoring report for the first quarter March 2014 sampling event will be submitted to the NYSDEC upon report completion.
- The second quarter 2014 groundwater sampling event (8 monitoring wells) is scheduled to be conducted on June 24 and 25, 2014.
- The revised “Proposed Source Zone Treatment System Optimization” proposal will be submitted to NYSDEC by June 19th.

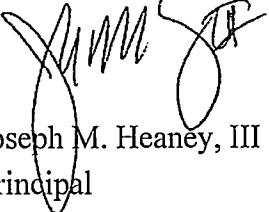
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Please contact Kristin Scroope or me if you have any questions or require additional information.

Very truly yours,  
Walden Associates

  
Joseph M. Heaney, III P.E.  
Principal

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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: TMJ			Date: 5/29/2014		Weather: Sunny @ 70° F						
Arrival Time:	13:40	SVE 1 Clock: 35152.00			AS 1 Clock:	25019.8					
Departure Time:	15:00	SVE 2 Clock: 36854.7			AS 2 Clock:	15147.3					
CONTROL PANEL		Arrival		Departure	AIR SPARGE SYSTEM						
AS System		On		On	Cleaned Particulate Filter		Yes				
SVE System		On		On	Drained Filter/collector 1		Yes				
Surge Protection		Lit		Lit	Drained Filter/collector 2		Yes				
Lightning Protection		White		White	Compressor Discharge Pressure		psi				
Sensaphone		On		On	Compressor Holding tank Pressure		100	psi			
PID	ppm range	ppb range	SVE SYSTEM								
Calibrated	Yes	--	Knockout Tank Level <50 gallons								
Concentration:	100 ppm	-- ppb	Knockout Discharge to Sewer 0 gallons								
Carbon Vessels	Pre-Carbon PID			Post Carbon PID		Bypassed	Monitoring Well Depth to Water Readings (feet)				
Carbon Vessel 1	--	ppm	--	ppb	--	ppm	--	ppb	Yes	2a	51.2
Carbon Vessel 2	--	ppm	16400	ppb	--	ppm	0	ppb	No	4a	50.65
Carbon Vessel 3	--	ppm	--	ppb	--	ppm	--	ppb	Yes	6a	46.35
SVE WELL READINGS (INSIDE TRAILER)											
SVE	Velocity			Flow		Vacuum	PID Concentration				
V1	7500	FPM	--	scfm	48	inch H <sub>2</sub> O	--	ppm	38,400	ppb	
V2	5000	FPM	--	scfm	50	inch H <sub>2</sub> O	--	ppm	38,200	ppb	
V3a	4600	FPM	--	scfm	40	inch H <sub>2</sub> O	--	ppm	3672	ppb	
V3	5500	FPM	--	scfm	42	inch H <sub>2</sub> O	--	ppm	13,500	ppb	
V4	4600	FPM	--	scfm	42	inch H <sub>2</sub> O	--	ppm	931	ppb	
V6	3800	FPM	--	scfm	41	inch H <sub>2</sub> O	--	ppm	66	ppb	
V5	3500	FPM	--	scfm	42	inch H <sub>2</sub> O	--	ppm	461	ppb	
V7	3600	FPM	--	scfm	42	inch H <sub>2</sub> O	--	ppm	50	ppb	
Pre-Knockout Port					3.0	inch Hg vac	--	ppm	16,400	ppb	
SVE Flow Rate	4200	FPM	--	scfm							
AS WELL READINGS (INSIDE TRAILER)											
AS WELL #	Pressure		Air Flow		AS WELL #	Pressure					
AS Well #1	15	psi	8	SCFM	AS Well #16	14	psi				
AS Well #2	15	psi	8	SCFM	AS Well #12	0	psi				
AS Well #4	15	psi	8	SCFM	AS Well #10	0	psi				
AS Well #3	14.5	psi	6	SCFM	AS Well #13	0	psi				
AS Well #5	16	psi	8	SCFM	AS Well #14	15	psi				
AS Well #7	15.5	psi	0	SCFM	AS Well #18	14.5	psi				
AS Well #9	15	psi	8	SCFM	AS Well #17	15.5	psi				
AS Well #8	14.5	psi	9	SCFM	AS Well #15	16	psi				
AS Well #6	14	psi	8	SCFM	AS Well #19	15	psi				
AS Well #11	14.5	psi	0	SCFM							
NOTES											
11435 Collected Influent 05292014 air sample in canister 1SC00438											
1341 Collected Effluent 05292014 air sample in canister 1SC00769.											
Air Sparge regulator pressure: 75 psi											
AS Compressor #1 Running Upon Arrival											
No flow was observed within AS# 7, 11, 16, 19											
Upon Arrival SVE#1 Filter High Vacuum light was on. It was determined that the filter was clogged from switching carbon vessels last month.											

## 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**

<b>Date of Transport from Site</b>	<b>Spent GAC Weight (pounds)</b>	<b>Carbon Facility</b>	<b>RCRA Facility #</b>
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
September 12, 2008	5,469	Siemens Water Technologies	PAD987270725
<i>2008 Total</i>	<i>22,033</i>		
January 28, 2009	7,004	Siemens Water Technologies	PAD987270725
June 4, 2009	6,814	Siemens Water Technologies	PAD987270725
December 8, 2009	6,924	Siemens Water Technologies	PAD987270725
<i>2009 Total</i>	<i>20,742</i>		
June 3, 2010	7,207	Siemens Water Technologies	PAD987270725
<i>2010 Total</i>	<i>7,207</i>		
January 19, 2011	7,102	Siemens Water Technologies	PAD987270725
<i>2011 Total</i>	<i>7,102</i>		
January 25, 2012	7,394	Siemens Water Technologies	PAD987270725
<i>2012 Total</i>	<i>7,394</i>		
July 1, 2013	6,757	Siemens Water Technologies	PAD987270725
<i>2013 Total</i>	<i>6,757</i>		
March 11, 2014	8,023	Siemens Water Technologies	PAD987270725
<i>2014 Total</i>	<i>8,023</i>		
<b>Project Total</b>	<b>129,376</b>		

## Appendix D

### **SVE System Influent/Effluent Sampling (TO-15)**

### **Laboratory Analytical Results (on CD)**

Frost Street Sites - Site ID #s1-30043 I, L, M

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## Appendix E

**March 2014 Groundwater Sampling  
Data Validation Report (on CD)**  
Frost Street Sites - Site ID #s1-30043 I, L, M  
New Cassel Industrial Area, Westbury, New York