

December 10, 2024

Mr. Christopher Aucoin, PhD
NYSDEC, Division of Environmental Remediation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Via email: Christopher.Aucoin@dec.ny.gov

Re: Progress Report: November 2024
Frost Street Sites: Site ID Nos. 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Aucoin,

EnSafe Inc. is pleased to submit this Progress Report for the Frost Street Sites (Site ID Nos. 1-30043 I, L, M) for operation, maintenance, and monitoring (OM&M) activities completed in November 2024 for the onsite air sparge/soil vapor extraction (AS/SVE) and groundwater extraction systems.

Air Sparge/Soil Vapor Extraction System – Operable Unit 1

- AS/SVE system operations continued this month, per the OM&M Manual. During periodic visits, system parameters were logged on dedicated forms (Appendix A). During the month of November, no alarm calls were received.
 - Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on November 22 using Summa canisters. These samples were obtained by EnviroTrac, submitted to Alpha Analytical and analyzed by Method TO-15. Results are delayed and will be submitted in the December monthly report.
- Photoionization detector readings continue to indicate significant mass extraction.
 - PID readings indicate carbon breakthrough has begun; a carbon exchange is scheduled for December 4, 2024.

Groundwater Extraction System – Operable Unit 2

The pumps in EX-1A, EX-1B, EX-1C, and EX-1D operated near design flow rates (30, 30, 48, and 48 gallons per minute, respectively) for all of November. To date, over 484 million gallons of groundwater have been removed by this system. VOC removal will be presented in the December

monthly report using analytical data from the quarterly groundwater samples collected at the end of December.

If you have any questions or require additional information, please do not hesitate to contact me at 860-665-1140 or astark@ensafe.com.

Sincerely,

EnSafe, Inc., by



Alexandra Stark, P.E.

Attachments

Copies:	A. Tamuno, Esq., NYSDEC	<i>Via email to amtamuno@gw.dec.state.ny.us</i>
	S. Bogardus, NYSDOH	<i>Via email to sara.bogardus@health.ny.gov</i>
	R. Putnam, NCDOH	<i>Via email to rputnam@nassaucountyny.gov</i>
	J. Vazquez, U.S. EPA	<i>Via email to vazquez.julio@epa.gov</i>
	T. Pupilla, Sanders Equities	<i>Via email to tpupilla@sandersequities.com</i>
	M. Peters, The West Firm	<i>Via email to mpeters@westfirmllaw.com</i>
	P. Coop, EnSafe	<i>Via email to pcoop@ensafe.com</i>
	J. Wilkinson, Envirotrac	<i>Via email to jamesw@envirotrac.com</i>

Appendix A
AS/SVE System Operation and Maintenance Logs

Operation & Maintenance Data Sheet

Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services

5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 22-Nov
Weather / Temp: Clear / 40 DEG
Technician / Operator: JW

Arrival Time: 11:00
Departure Time: 13:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		AS Compressor 1 (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		AS Compressor 2 (ON/OFF)	OFF		OFF	
					Air Cooler (ON/OFF)	ON		ON	
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	3400		668		Blower 1 Total Runtime (hrs)	76,315.5			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	75,905.7			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	42				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				VGAC-1 Influent PID (ppm)	4			
VGAC-1 Influent Vacuum ("H2O)	35				VGAC-1 Effluent PID (ppm)	8			
VGAC-1 Effluent Vacuum ("H2O)	40				VGAC-2 Influent PID (ppm)	4			
VGAC-2 Influent Vacuum ("H2O)	35				VGAC-2 Effluent PID (ppm)	8			
VGAC-2 Effluent Vacuum ("H2O)	38				VGAC-3 Influent PID (ppm)	8			
VGAC-3 Influent Pressure ("H2O)	5				VGAC-3 Effluent PID (ppm)	0			
VGAC-3 Effluent Pressure ("H2O)	2				Blower Effluent PID (ppm)	8			
VGAC-3 Influent Temp (DegF)	125				Transfer Pump Total Runtime (hrs)	25,322.1			
Blower Effluent Pressure ("H2O)	13				Condensate Storage Tank Level (gal)	200			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	40	6000	131	2	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	34	3600	79	0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	42	3500	76	3	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	46	2400	52	0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	34	4700	103	0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	42	5500	120	8
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	30	3700	81	0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	35	2400	52	1
Air Sparge System									
Compressor 1 Pressure (psi)	16.5				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	30,377.0				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	134				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	62				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	19				AS Manifold Temperature (degF)	52			
Air Cooler Outlet Pressure (psi)	18				AS Manifold Pressure	18			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	18	10	AS-11 (psi)/(cfm)		16		9		
AS-2 (psi)/(cfm)	17	8	AS-12B (psi)/(cfm)		17		8		
AS-3 (psi)/(cfm)	13	8	AS-13B (psi)/(cfm)		16		13		
AS-4 (psi)/(cfm)	17	10	AS-14 (psi)/(cfm)		17		10		
AS-5 (psi)/(cfm)	17	10	AS-15 (psi)/(cfm)		17		11		
AS-6 (psi)/(cfm)	18	10	AS-16B (psi)/(cfm)		15		10		
AS-7 (psi)/(cfm)	18	7	AS-17 (psi)/(cfm)		16		11		
AS-8 (psi)/(cfm)	17	13	AS-18 (psi)/(cfm)		15		12		
AS-9 (psi)/(cfm)	18	12	AS-19 (psi)/(cfm)		16		6		
AS-10B (psi)/(cfm)	15	10							

Notes, Comments & Observations:

Collected monthly air samples.

Inspection, Maintenance, Lubrication Schedule
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 22-Nov
Weather / Temp: Clear / 40 DEG
Technician / Operator: JW

Arrival Time: 11:00
Departure Time: 13:00

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 10/28/24
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	Y	25.6A
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 10/28/24
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
Phase Separator/Storage Tank			
-Inspect	Weekly	Y	
-Check Level Switches	As Required	Y	
-Inspect water storage tank	Weekly	Y	
-Pump water to sewer drain	As Required	Y	
AS Compressor 1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 7/23/24
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	Y	27A
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Filters	Weekly	N	
-Amp Draw	Quarterly	N	
Air Cooler			
-Inspect	Weekly	Y	
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
-Drain Filters/Collectors	Weekly	Y	
-Drain Pressure Tank	Weekly	Y	